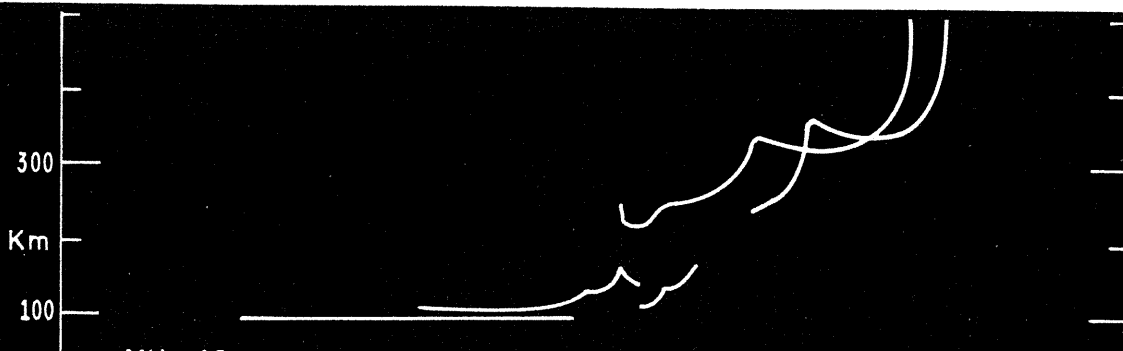
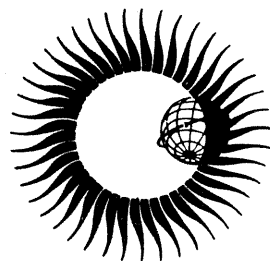


WORLD DATA CENTER A for Solar-Terrestrial Physics



CATALOG OF IONOSPHERE VERTICAL SOUNDINGS DATA

July 1982



WORLD DATA CENTER A
National Academy of Sciences
2101 Constitution Avenue, NW
Washington, D.C. 20418 USA

World Data Center A consists of the Coordination Office
and the following eight Subcenters:

COORDINATION OFFICE
World Data Center A
National Academy of Sciences
2101 Constitution Avenue, NW
Washington, D.C. 20418 USA
[Telephone: (202) 334-3359]

GLACIOLOGY (Snow and Ice)
World Data Center A: Glaciology
(Snow and Ice)
Cooperative Inst. for Research in
Environmental Sciences
University of Colorado
Boulder, Colorado 80309 USA
[Telephone: (303) 492-5171]

MARINE GEOLOGY AND GEOPHYSICS
(Gravity, Magnetism, Bathymetry,
Seismic Profiles, Marine Sediment
and Rock Analyses):

World Data Center A for Marine
Geology and Geophysics
NOAA, D64
325 Broadway
Boulder, Colorado 80303 USA
[Telephone: (303) 497-6487]

METEOROLOGY (and Nuclear Radiation)
World Data Center A: Meteorology
National Climatic Center
Federal Building
Asheville, North Carolina 28801 USA
[Telephone: (704) 258-2850, ext. 381]

OCEANOGRAPHY
World Data Center A: Oceanography
National Oceanic and Atmospheric
Administration
2001 Wisconsin Avenue, NW
Page Bldg. 1, Rm. 414
Washington, D.C. 20235 USA
[Telephone: (202) 634-7249]

ROCKETS AND SATELLITES
World Data Center A: Rockets and
Satellites
Goddard Space Flight Center
Code 601
Greenbelt, Maryland 20771 USA
[Telephone: (301) 344-6695]

ROTATION OF THE EARTH
World Data Center A: Rotation
of the Earth
U.S. Naval Observatory
Washington, D.C. 20390 USA
[Telephone: (202) 254-4547]

SOLAR-TERRESTRIAL PHYSICS (Solar and
Interplanetary Phenomena, Ionospheric
Phenomena, Flare-Associated Events,
Geomagnetic Variations, Aurora,
Cosmic Rays, Airglow):

World Data Center A
for Solar-Terrestrial Physics
NOAA, D63
325 Broadway
Boulder, Colorado 80303 USA
[Telephone: (303) 497-6323]

SOLID-EARTH GEOPHYSICS (Seismology,
Tsunamis, Gravimetry, Earth Tides,
Recent Movements of the Earth's
Crust, Magnetic Measurements,
Paleomagnetism and Archeomagnetism
Volcanology, Geothermics):

World Data Center A
for Solid-Earth Geophysics
NOAA, D62
325 Broadway
Boulder, Colorado 80303 USA
[Telephone: (303) 497-6521]

World Data Centers conduct international exchange of geophysical observations in accordance with the principles set forth by the International Council of Scientific Unions. WDC-A is established in the United States under the auspices of the National Academy of Sciences. Communications regarding data interchange matters in general and World Data Center A as a whole should be addressed to World Data Center A, Coordination Office (see address above). Inquiries and communications concerning data in specific disciplines should be addressed to the appropriate sub center listed above.

WORLD DATA CENTER A for Solar-Terrestrial Physics



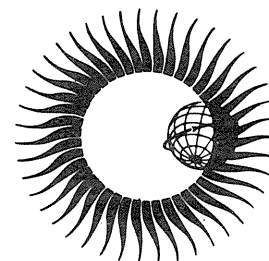
REPORT UAG-85

CATALOG OF IONOSPHERE VERTICAL SOUNDINGS DATA

Edited by

Raymond O. Conkright and H. Irene Brophy
National Geophysical Data Center
NOAA, Boulder, Colorado

July 1982



U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA AND INFORMATION SERVICE
Boulder, Colorado, USA 80303

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PREFACE

World Data Centers conduct international exchange of geophysical observations in accordance with the principles set forth by the International Council of Scientific Unions (ICSU). They were established in 1957 by the International Geophysical Year Committee (CSAGI) as part of the fundamental international planning for the IGY program to collect data from the numerous and widespread IGY observational programs and to make such data readily accessible to interested scientists and scholars for an indefinite period of time. WDC-A was established in the U.S.A.; WDC-B, in the U.S.S.R.; and WDC-C, in Western Europe, Australia, and Japan. This new system for exchanging geophysical data was found to be very effective, and the operations of the World Data Centers were extended by ICSU on a continuing basis to other international programs; the WDC's were under the supervision of the Comité International de Géophysique (CIG) for the period 1960 to 1967 and are now supervised by the ICSU Panel on World Data Centres.

The current plans for continued international exchange of geophysical data through the World Data Centers are set forth in the Fourth Consolidated Guide to International Data Exchange through the World Data Centres, issued by the ICSU Panel on World Data Centres. These plans are broadly similar to those adopted under ICSU auspices for the IGY and IQSY.

Functions and Responsibilities of WDC's

The World Data Centers collect data and publications for the following disciplines: Glaciology; Meteorology; Oceanography; Rockets and Satellites; Solar-Terrestrial Physics disciplines (Solar and Interplanetary Phenomena, Ionospheric Phenomena, Flare Associated Events, Geomagnetic Phenomena, Aurora, Cosmic Rays, Airglow); Solid-Earth Geophysics disciplines (Seismology, Tsunamis, Marine Geology and Geophysics, Gravimetry, Earth Tides, Recent Movements of the Earth's Crust, Rotation of the Earth, Magnetic Measurements, Paleomagnetism and Archeomagnetism, Volcanology, Geothermics). In planning for the various scientific programs, decisions on data exchange were made by the scientific community through the international scientific unions and committees. In each discipline the specialists themselves determined the nature and form of data exchange, based on their needs as research workers. Thus the type and amount of data in the WDC's differ from discipline to discipline.

The objectives of establishing several World Data Centers for collecting observational data were: (1) to ensure against loss of data by the catastrophic destruction of a single center, (2) to meet the geographical convenience of, and provide easy communication for, workers in different parts of the world. Each WDC is responsible for: (1) endeavoring to collect a complete set of data in the field or discipline for which it is responsible, (2) safekeeping of the incoming data, (3) correct copying and reproduction of data, maintaining adequate standards of clarity and durability, (4) supplying copies to other WDC's of data not received directly, (5) preparation of catalogs of all data in its charge, and (6) making data in the WDC's available to the scientific community. The WDC's conduct their operation at no expense to ICSU or to the ICSU family of unions and committees.

World Data Center A

World Data Center A, for which the National Academy of Sciences through the Geophysics Research Board and its Committee on Geophysical Data has over-all responsibility, consists of the WDC-A Coordination Office and seven subcenters at scientific institutions in various parts of the United States. The GRB periodically reviews the activities of WDC-A and has conducted several studies on the effectiveness of the WDC system. As a result of these reviews and studies some of the subcenters of WDC-A have been relocated so that they could more effectively serve the scientific community. The addresses of the WDC-A subcenters and Coordination Office are given inside the front cover. There are very close connections between WDC-A for Solar-Terrestrial Physics and WDC-A for Rockets and Satellites, which exchange solar-terrestrial geophysical data; if it is more convenient, data may be sent to one WDC-A subcenter through the other one.

The data received by WDC-A have been made available to the scientific community in various ways: (1) reports containing data and results of experiments have been compiled, published, and widely distributed; (2) synoptic-type data on cards, microfilm, or tables are available for use at the subcenters and for loan to scientists; (3) copies of data and reports are provided upon request.

Catalog of Data

All the data associated with ionosphere vertical soundings, which have been received by WDC-A, are listed in this catalog. This catalog supersedes all previous WDC-A catalogs for these data.

World Data Center A Coordination Office
July 1982

I. INTRODUCTION

This catalog covers ionospheric vertical soundings data, the discipline listed as B.1 in the ICSU "Guide to International Data Exchange Through the World Data Centres". The catalog lists all B.1 data held at World Data Center A for Solar-Terrestrial Physics (WDC-A/STP), some B.1 data held elsewhere and all vertical sounding stations known to have operated.

The entries for data stored at another location were made based on information provided by others and WDC-A/STP cannot attest to the condition, quality, or completeness of these data. However, as is done for data held at WDC-A/STP, all efforts will be made to assist the user in obtaining data held elsewhere.

The catalog is designed for the user and provides the kind of detail normally needed. However, if more details are required than are given in Section V or other parts of this publication one should not hesitate to make contact with WDC-A/STP through those names listed in Section II for further information.

II. INSTRUCTIONS FOR ORDERING DATA

Requests for data indicated in this catalog should be addressed to:

World Data Center A for Solar-Terrestrial Physics
NOAA/NGDC/EDIS D63
325 Broadway
Boulder, Colorado 80303, U.S.A.

Telephone requests for data and/or information may be addressed to Mr. Ray Conkright (303) 497-6414 or Miss Irene Brophy (303) 497-6469.

Price List:

35 mm film copies of bottomside ionograms on 35 mm film normally supplied in 500 to 1000 ft. lengths	\$ 0.20 per ft.
Cutting and splicing charge for any other than standard length of 35 mm film described above	11.30 per interval
Ionospheric data tabulations on microfilm (hourly values of up to 15 characteristics)	31.00 per station-year
Ionospheric hourly values plus median ionospheric sounding data on magnetic tape	144.00 per tape (plus tape cost)*
Preparation of 35 mm microfilm of data sheets (camera negative)	0.50 per frame
Microfiche copy of existing microfiche	1.50 per microfiche
Electrostatic copies of data sheets - letter size (8-1/2" x 11") (reproduced from original size or larger)	0.75 per sheet (see note 1)
Full-size electrostatic copy of data sheets longer than 11"	1.00 per ft.
Electrostatic copy prepared from 35 mm microfilm - 8-1/2" x 11"	1.80 per sheet
Photographic negative	prices on request
Glossy prints (8" x 10") of existing negative	12.00 per print
Magnetic tapes (new blanks)	current cost
Tape-to-tape copy of magnetic tape (if blank tape supplied and no computer processing time or other expense)	85.00 per tape
Interpreted duplicates of punched cards on file	30.00 per thousand
Key punching of tabular data	price on request
Computer printout from existing tape or cards	40.00 per 100 pages
Ionospheric electron density, N(h) profiles calculated from ionograms	13.00 per profile
Monthly hourly composite N(h) profiles prepared on demand	26.00 per profile

Note 1 : In some cases we are able to offer price reductions for large orders involving the same kind of data preparation when the volume reduces the handling or processing costs per unit. This can apply to any of the above. For example, for electrostatic copies of data sheets, the price is reduced from \$0.75 to \$0.65 per sheet for quantities of 50 or more sheets in a single order.

Note 2 : There is a minimum charge of \$20.00 per order.

Note 3 : Mailing or shipping costs may be added, depending on the size of the order.

Note 4 : Checks or money orders should be made payable in U.S. currency to Department of Commerce, NOAA/NGDC, and mailed to the address shown above. They must cover the entire cost including bank charges.

Note 5 : Prices are subject to change.

*[Note : The price for selected retrieval from these tapes depends on data requested (station, date, or characteristic) and reformatting required. Estimate will be furnished on request.]

III. LISTS OF STATIONS

In this Section are the names and coordinates of all the stations listed in this catalog. The explanations of the various lists are as follows:

1. Alternate Name List: This list gives other names by which a station is known, together with the name we have used in this catalog. They appear in alphabetical order by the alternate names of stations followed by the names used in this catalog.
2. Alphabetical Listing: This shows all known stations by the name used at WDC-A, listed in alphabetical order. All stations will not be represented by data entries in the catalog tables given in Section V. In addition to geographic coordinates, the two letter codes used on ionograms and the alphanumeric codes used with data in computer format are indicated for all stations for which such an assignment has been made. Dates of stations opening and closing are given as they are recorded at WDC-A.
3. Paired or Grouped Stations: This list gives some of the cases where two or more nearby stations have operated for successive periods. Thus, for many research purposes the later station is a continuation of an earlier one. In the data catalog the stations are sometimes combined under a catalog name and the names given in this list are treated as alternate names: Part 1 of this Section gives the correspondence between names.

1. Alternate Name List

<u>ALTERNATE NAME</u>	<u>CATALOG NAME</u>	<u>ALTERNATE NAME</u>	<u>CATALOG NAME</u>
Akita-Ken	Akita	Macao	Macao
Akita-Shi	Akita	Meadows	Washington
Akrotiri	Cape Zevgari	Mobile Station	Batavia
Amundsen-Scott	South Pole	Monte Capellino	Genova
Baffin Island	Clyde	Mount Stromlo	Canberra
Base General Belgrano	Belgrano	N.A.I.C.	Arecibo
Bas Roi Baudouin	Baudouin	Narssarssuak	Narssarssuak
Bekescaba	Budapest	NBS Boulder	Boulder
Belgrade	Beograd	New Delhi	Delhi
Belmar	Fort Monmouth	Nichols Field	Manila
Beltsville	Washington	Oslo	Kjeller
Belvoir	Washington	Paris	Bagneux
Boston	Billerica, Maynard	Paris-Domont	Domont
Breisach	Freiburg/Breisach	Platteville	Erie
Bukhta Tikhaya	Heiss Island	Point Barrow	Barrow
Bukhta Tiksy	Tixie Bay	Pole Station	South Pole
Cachoeira Paulista	San Jose	Port Lockroy	Argentine Island
Cambridge Tunnel	Hobart	Prague	Pruhonice
Cape Canaveral	Cape Kennedy	Pretoria	Johannesburg
Centro Geofisico	Cuba	Providenie Bay	Providenya
Chung-Li	Taipei	Quebec	Baie St. Paul
Cyprus	Cape Zevgari	Quezon City	Manila
Dapango	Togo	Ramey AFB	Puerto Rico
Dikson	Dixon	Raoul Island	Kermadec
Dixon Island	Dixon	Roma	Rome
Djibouti (Arta)	Djibouti	Rostov-on-Don	Rostov
Dumont D'Urville	Terre Adelie	Sanae Station	Sanae
Durbanville	Capetown	San Alessio	Rome
Ebro	Tortosa	San Francisco	Stanford
El Cerillo	Mexico City	San Juan	Puerto Rico
ESSA Boulder	Boulder	Scaramanga Station	Athens
Fairbanks	College	Showa	Syowa Base
Falkland Island	Port Stanley	Sky-Hi	Eights
Formosa	Taipei	Sottens	Schwarzenburg
Fort Belvoir	Washington	Syowa Bay	Syowa Base
Godley Head	Christchurch	Stanley	Port Stanley
Great Baddow	Baddow	Sterling	Washington
Haringhata	Calcutta	Svalbard	Longyearbyen
Harvard Univ.	Boston	Taiwan	Taipei
Ice Island B	Fletchers Ice Island	Taravaro	Tahiti
Ivato	Tananarive	Tiksy Bay (Tiksi)	Tixie Bay
Jakutsk	Yakutsk	Tolasa	Leyte
Karavia	Elizabethville	Trichy	Tiruchirappalli
Kenora	Winnipeg	Trivandrum	Thumba
Kihehi Maui	Maui	Waller Field	Trinidad
Kokubunji	Tokyo	Warsaw	Miedzeszyn
Krasnaya Pakhra	Moscow	Weddell Sea	Ellsworth
Leopoldville	Kinshasa-Binza	Wilkes	Casey
Lexington	Boston	Yuzhno Sakhalinsk	Yuzhno Sakhal
Louisiana State Univ.	Baton Rouge		

2. Alphabetical Listing

<u>STATION</u>	<u>LAT.</u>	<u>EAST LONG.</u>	<u>CODE</u>	<u>OPEN - CLOSE</u>
Aberystwyth	52.43	355.93	AB	12/61 - 12/61
Accra	5.63	359.83	AG	8/61 - 7/63
Adak	51.90	183.40	AD 651	10/45 - 12/65
Ahmedabad	23.02	72.60	AH 223	2/53 -
Akita	39.70	140.10	AK 539	12/49 -
Alert	82.60	297.40	AL J82	8/57 - 12/58
Alma Ada	43.25	76.92	AA 343	1/43 -
Anchorage	61.20	210.10	AN 761	4/49 - 12/65
Arctica (NP-6)	82.40	9.50	XG	7/57 - 9/59
Arctica (NP-7)	86.40	296.60	XH	7/57 - 3/59
Arctica (NP-8)	80.00	165.00	XI	6/60 - 11/61
Arctica (NP-10)	78.00	165.00	XJ	12/62 - 4/64
Arctica (NP-11)	79.00	165.00	XK	7/62 - 10/62
Arctica (NP-12)	79.00	187.00		5/63 - 4/64
Arctica (NP-13)	81.00	165.00	XL	7/64 - 9/66
Arctica (NP-16)	78.08	176.48	XM 676	6/68 - 3/70
Aractica(NP-19)	78.00	150.0	XP	7/70 - 10/72
Arecibo	18.50	293.17	AR J19	6/63 -
Argentine Is.	-65.20	295.70	AI J6M	5/48 -
Arkhangelsk	64.60	40.50	AZ 163	NK
Ashkhabad	37.90	58.30	AS 237	?/56 -
Athens	38.0	23.60	AT 138	12/43 -
Auckland	-37.00	175.00	AU 63P	1/67 -
Baddow	51.70	.50	O1 061	11/40 - 4/46
Bagneux	48.80	02.3	55 039	3/47 - 12/49
Baguio	16.40	120.60	BF 416	3/52 - 1/64
Baie St Paul	47.38	289.45	PL J48	11/61 - 2/62
Baker Lake	64.30	264.00	BL 964	2/49 - 2/59
Bandoeng	-6.90	107.60	O2 40Q	5/43 - 9/45
Bangkok	13.70	100.60	BK 314	8/63 -
Bangui	4.60	18.60	BI 104	2/58 - 9/66
Barbados	13.12	300.40	BS J13	1/57 - 6/67
Barrow	71.30	203.20	BW 771	12/49 - 11/65
Batavia	39.40	275.90	O3 939	9/51 - 10/52
Baton Rouge	30.50	268.8	O4 930	7/43 - 9/53
Baudouin	-70.40	23.30	BB 17!	4/58 - 2/67
Beijing	40.00	116.30		2/53
Belgrano	-77.90	321.40	GE A7Q	7/58
Beograd	44.80	20.50	BE 145	3/58
Beveridge	-37.29	144.59		
Billerica	42.60	288.70	BO J43	11/65 - 9/70
Bogota	04.50	285.80	BG J05	8/45 - 6/67
Bombay	19.00	72.80	BM 219	8/45 -
Boston	42.40	288.70	56 J43	3/45 - 7/51
Boulder	40.00	254.70	BC 840	7/58 -
Bribie Is.	-27.30	153.00		
Brisbane	-27.50	152.90	BR 52P	6/43 -
Budapest	46.77	21.10	BU 147	1/56 -
Buenos Aires	-34.50	301.50	BA J3M	2/50 -
Bunia	01.50	30.20	BN 102	10/57 - 11/60
Burghead	57.7	356.30	O6 063	1/41 - 1/47
Byrd Station	-80.0	240.0	BD 88!	7/57 - 12/70
Cairo	30.0	31.19	O5 130	11/45 - 9/46
Calcutta	23.0	88.6	CU 322	7/44 - NK
Camden	-34.00	150.67	CD	
Campbell Is.	-52.50	169.20	CI 65K	4/44 -
Canberra	-35.30	149.00	CB 53N	3/37 -
Cape Hallett	-72.30	170.20	HT 67K	1/57 - 2/64
Cape Kennedy	28.40	279.40	CC 929	3/58 - 6/66
Cape Parry	70.17	179.50	CE 870	NK
Cape Schmidt	68.90	179.50	CE 669	1/60 -
Capetown	-34.10	18.30	CT 13M	9/44 - 5/71
Cape York	-11.0	142.40	O7 51J	12/44 - 5/46
Cape Zevgari	34.60	32.90	CV 135	1/64 -
Casablanca	33.60	352.40	CA 033	10/51 - 2/58
Casey	-66.28	110.53	CW 460	2/69 - 12/75
Changchun	43.83	125.27		6/56
Chiclayo	-06.80	280.20	CY 90P	7/57 - 5/59
Chimbote	-09.10	281.40	CM 90R	7/57 - 5/59
Chita	52.0	113.5	CX 452	1/46 - 5/63

2. Alphabetical Listing (Continued)

STATION	LAT.	EAST LONG.	CODE	OPEN - CLOSE
Chongqing	29.50	106.42		5/53
Christchurch	-43.60	172.80	GH 64L	9/42 -
Christmas Is.	1.90	202.70	08 701	12/44 - 7/46
Chungking	29.40	106.30	09 429	8/45 - 10/49
Churchill	58.80	265.80	CH 958	7/43 -
Clyde River	70.50	291.40	CR J70	10/43 - 10/58
Cocoa	28.20	279.40	10 928	1/52 - 6/52
Cocos Is.	-12.20	96.80	CS 31K	11/61 - 10/74
College	64.90	212.20	CO 764	7/41 -
Colombo	6.90	79.87	11 306	4/45 - 7/46
Concepcion	-36.60	287.00	CP J30	10/57 -
Cuba	23.00	278.00	CD 923	8/64 -
Dairen	39.0	121.60	12 439	12/44 - 2/45
Dakar	14.70	342.58	DK A14	5/49 -
Decepcion	-63.0	299.30	DE J6L	1/51 - 11/67
Delhi	28.60	77.16	DH 328	1/42 -
De Bilt	52.10	5.20	DT 053	11/49 -
Dixon	73.50	80.40	DI 373	7/57 -
Djibouti	11.50	42.80	DJ 111	10/51 - 7/81
Domont	49.00	2.30	13 062	3/50 - 4/52
Dourbes	50.10	4.60	DB 049	6/57 -
Dushanbe	38.57	68.78	DS 238	7/57 -
Eglin AFB	30.38	273.30	EG 930	3/64 - 1/69
Eights	-75.23	282.84	EI 97N	12/61 - 9/65
Elizabethville	-11.60	27.50	EZ 11J	4/52 - 6/60
Ellsworth	-77.72	318.90	EL A7P	7/57 - 11/62
El Arenosillo	37.10	353.27		12/69 -
Erie	40.01	254.70	ER 842	6/69 -
Errol	44.79	288.87		11/68 - 4/74
Eureka	80.0	274.10	EU 980	7/57 - 1/59
Fiji	-18.00	178.20	14 61Q	4/46 - 4/48
Fletchers Ice	75.90	235.70	XC 982	6/57 - 1/59
Fortaleza	-3.70	321.20	FZ A0M	?/74 -
Fort Archambault	09.20	18.35	FA 109	1/69 - 2/74
Fort Chimo	58.10	291.60	FC J58	4/49 - 12/58
Fort Monmouth	40.40	285.90	FM J40	3/55 - 12/65
Fort Norman	64.90	234.50	FN 864	7/57 - 10/58
Fraserburgh	57.60	357.90	15 065	3/48 - 9/51
Freiburg	48.10	07.60	FR 048	7/46 - 12/76
Frobisher Bay	63.80	291.40	FB J63	9/57 - 1/59
Fuji Ship	0.00	0.00		11/65 - 4/67
Fukaura	40.60	139.90	16 541	3/47 - 12/49
Garchy	47.30	03.10	GY 042	10/59 -
Genova	44.60	09.00	GV 044	5/56 - 12/73
Gibilmana	37.59	14.01	GM 037	4/76 -
Godhavn	69.30	306.50	GO J69	11/51 -
Goose Bay	54.30	299.67	GS J53	2/72 -
Gorky	56.15	44.28	GK 156	3/58 -
Grahamstown	-33.30	26.50	GR 13L	3/58
Grand Bahama	26.60	281.80	GB 926	6/57 - 6/71
Graz	47.10	15.50	GZ 146	8/47 -
Guam	13.50	144.87	17 513	12/44 - 5/56
Guangzhou	23.13	113.35		3/55
Haifa	32.82	34.98	HA 132	1/60 -
Hainan	20.00	110.03		9/56
Hainan Is.	18.30	109.30	18 419	6/42 - 7/43
Halley Bay	-75.50	333.40	HB A7N	6/57 -
Hankow	30.70	114.30	19 432	9/41 - 1/45
Hanover	43.70	287.80	HN J44	11/68 - 4/74
Heiss Is.	80.60	58.00	BT 280	1/38 -
Hermanus	-34.42	19.23	HE 13N	5/71 -
Highgate Spgs.	45.01	286.91		
Hiraiso	36.40	140.6	20 536	7/36 - 8/45
Hiratsuka	35.3	139.3	21 533	12/40 - 5/45
Hobart	-42.90	147.30	HO 54K	12/45 -
Hollandia	-2.50	140.80	HL 50K	12/57 - 2/59
Hong Kong	22.33	114.20	HK 423	1/69 -
Huancayo	-12.0	284.70	HU 91K	11/37 -
Huntsville	34.44	273.65	HV 934	
Hyderabad	17.35	78.47	HY 317	5/63 - NK

2. Alphabetical Listing (Continued)

STATION	LAT.	EAST LONG.	CODE	OPEN - CLOSE
Ibadan	07.4	03.90	IB 007	12/51 -
Ilo	-17.40	288.80	IL J1P	2/59 - 5/59
Inverness	57.40	355.80	IN 056	10/51 - 6/63
Irkutsk	52.5	104.0	IR 352	?/56 -
Jamaica	18.00	283.20	JA 918	4/62 - ?/74
Jicamarca	-11.95	283.14	JI 91J	4/62 -
Johannesburg	-26.10	28.10	JO 120	5/46 -
Juliaca	-15.50	289.80	JU J1N	3/59 - 5/59
Juliusruh/Rugen	54.60	13.40	JR 055	4/57 -
Kaliningrad	54.70	20.62	KL 154	2/64 -
Kaminoge	35.6	139.6	22 532	1/45 - 8/45
Karaganda	49.82	73.08	KR 250	8/64 -
Kerguelen	-49.35	70.24	KG 24R	2/53 -
Kermadec	-29.20	182.10	KC 62R	6/43 - 9/72
Khabarovsk	48.50	135.10	KB 548	9/59 -
Khartoum	15.55	32.58	23 115	3/52 - 3/54
Kiev	50.72	30.30	KV 151	1/64 -
Kinshasa Binza	- 4.50	15.20	LB 10M	2/52 -
Kiruna	67.84	20.42	KI 167	3/49 -
Kjeller	60.0	11.10	OS 059	4/42 - 1/59
Kochel	47.7	11.4	24 064	1/41 - ?/46
Kodaikanal	10.20	77.50	KO 310	7/52 -
Kodiak	57.78	207.60	KD 758	1/79 -
Kokubunji	35.70	139.50	25 535	8/43 - 12/44
Kwajalein	09.05	167.20	26 609	1/45 - 2/45
Lanchester	53.00	358.00		NK
Lanchow	36.1	103.8	27 336	12/46 - 7/49
Lannion	48.45	356.73	LN 047	1/71 -
Lanzhou	36.02	103.92		11/56
La Paz	-16.50	291.90	LP J10	10/57 - NK
La Quiaca	-22.10	294.40	LQ J2K	6/58 - 1/59
La Reunion	-21.10	55.90	LR 22J	10/81 -
Leicester	52.00	359.00		
Leningrad	59.95	30.70	LD 160	1/39 -
Leyte	11.00	125.00	28 411	6/45 - 9/48
Lindau	51.65	10.10	LI 050	11/47 - 7/79
Little America	-78.20	197.80	LA 77Q	7/57 - 12/58
Longyearbyen	78.20	15.70	LG 178	6/56 - 8/59
Loshan	29.50	103.70	29 329	1/46 - 5/46
Lulea	65.60	22.10	LU 165	9/47 - ?/69
Lwiro	-02.30	28.80	LW 10K	2/52 - 8/67
Lycksele	64.62	18.76	LY 164	1/57 -
Macau	22.20	113.60	MC 422	5/58 -
Macquarie Is.	-54.50	159.00	MQ 55M	6/50 - 11/58
Madras	13.10	80.30	MD 313	7/44 - ?/70
Magadan	60.00	151.00		
Makassar	- 5.20	119.5	30 40N	1/44 - 11/44
Manila	14.60	121.0	MN 414	3/44 -
Manzhouli	49.58	117.45		11/54
Marion Is.	-46.87	37.85	MR 140	7/57 - 5/80
Maui	20.80	203.50	MA 720	3/44 -
Mawson	-67.60	62.90	MW 26P	2/58 -
Maynard	42.43	288.55	MY J43	10/70 - 6/75
Meanook	54.60	246.70	ME 855	7/57 - 1/59
Meguro	35.6	139.7	31 534	6/34 - 12/40
Mexico City	19.4	260.3	MX 919	4/58 -
Miedzeszyn	52.20	21.20	MZ 152	7/58 -
Millstone Hill	42.60	288.50	MH J45	4/63 -
Mirny	-66.50	93.00	MI 360	4/56 - 1/73
Moscow	55.50	37.30	MO 155	3/44 -
Mundaring	-31.99	116.31	MU 43K	4/59 -
Murmansk	69.0	33.0	MM 168	3/56 -
Nairobi	-01.28	36.83	NR 10J	3/52
Nanking	32.1	119.0	32 432	9/47 - 1/49
Narssarssuaq	61.20	314.55	NQ J61	9/50 -
Natal	-05.70	324.80	NL A0N	8/57 -
Nha Trang	12.25	109.2	33 412	7/51 - 4/56
Norfolk Is.	-29.00	168.0	NI 63!	2/64 -
Norilsk	69.4	88.1	NO 369	1/68 -
Novokazalinsk	45.77	62.12	NK 246	3/64 -

2. Alphabetical Listing (Continued)

<u>STATION</u>	<u>LAT.</u>	<u>EAST LONG.</u>	<u>CODE</u>	<u>OPEN - CLOSE</u>
Novosibirsk	54.6	83.2	NS 355	1/69 -
Nurmijarvi	60.50	24.60	NU 159	1/57 -
Okinaawa	26.30	127.80	OK 426	4/46 -
Ottawa	45.4	284.10	OT 945	1/42 -
Ouagadougou	12.37	358.47	OU 012	5/66 -
Palau Is.	7.30	134.50	34 407	7/39 - 6/44
Palmyra	05.38	197.82	35 705	11/46 - 11/49
Panama	9.40	280.10	PN 909	6/51 - 12/58
Paramaribo	5.80	304.80	PM J06	7/57 -
Paramushiro	50.10	155.30	36 550	11/43 - 10/44
Paris Saclay	48.10	02.30	SC 047	6/60 - 12/70
Patrick AFB	28.20	279.40	NK	
Peiping	39.90	116.40	37 440	4/46 - 12/48
Penang	5.50	100.40	38 305	3/44 - 8/45
Peshawar	34.00	71.50	39 234	8/45 - 5/47
Petropavlovsk	53.02	158.65		
Pitcairn Is.	-25.00	230.00	40 82N	10/44 - 12/45
Platteville	40.01	254.70	PV 842	10/70 - 8/71
Point Arguello	35.60	239.40	PA 836	7/63 -
Poitiers	46.57	.35	PT 046	7/48 -
Popayan	2.45	283.38	PP 902	5/70 - NK
Portage La Prairie	49.90	261.70	41 950	9/46 - 4/51
Port Lockroy	-64.80	296.50	J6M	5/48 - 12/61
Port Moresby	-09.40	147.10	PY 50R	5/61 - 10/72
Port Stanley	-51.70	302.20	PS J5J	12/45 -
Prince Rupert	54.30	229.70	42 854	6/45 - 6/54
Providenya	64.40	186.60	PD 664	3/57 -
Pruhonice	50.00	14.56	PQ 052	4/58 -
Puerto Rico	18.50	292.80	PR J18	2/41 - 6/63
Quetta	30.20	67.00	QT 230	10/57 - 12/64
Rabat	33.90	353.90	RT 034	2/58 - NK
Rangoon	16.8	96.5	43 316	6/43 - 2/45
Rarotonga	-21.20	200.20	RA 72J	1/45 - 3/80
Resolute Bay	74.70	265.10	RB 974	2/49 -
Reykjavik	64.10	338.20	RK A64	4/44 - 12/64
Rome	41.90	12.52	RO 041	1/51 -
Rostov	47.20	39.68	RV 149	1/57 -
Sachs Harbor	72.00	234.85	SH 872	NK
Salekhard	66.50	66.70	SD 266	7/57 -
Salisbury/Rhode	-17.80	31.00	SY 11P	1/58 - 12/58
Salisbury	-34.70	138.60	SR 53M	10/62 - 10/73
Sanae	-70.30	357.60	QM 07!	6/62 -
San Jose	-22.70	324.80	BZ J2L	
San Juan (Arg.)	-31.55	291.50	SN J3J	6/80 -
San Salvador	24.10	285.50	SS J24	11/58 - 2/65
Sao Paulo	-23.50	313.50	SP J2L	8/53 - 5/65
Saskatoon	52.10	253.40		
Schwarzenburg	46.60	6.70	SZ 045	12/50 - 11/72
Scott Base	-77.90	166.80	SB 67Q	3/57 -
Seattle	47.75	237.58	SE 847	1/58 - 10/60
Seoul	37.23	126.57	SU 437	10/67 -
Shibata	37.9	139.3	44 537	11/46 - 10/49
Shikuka	49.3	143.0	45 549	10/40 - 12/41
Simferopol	44.80	34.10	SF 144	1/57 - 12/59
Singapore	1.4	103.7	SI 301	2/43 - 7/71
Slough	51.50	359.43	SL 051	1/30 -
Slutsk	59.70	30.5	46 15I	NK
Snainton	54.2	00.00	47 050	8/44 - 9/44
Sodankyla	67.40	26.60	SO 166	8/57 -
Sofia	42.70	23.40	SQ 143	7/60 -
South Georgia	-54.27	323.50	SG A5M	7/70 -
South Pole	-90.00	00.00	PO 09!	7/57 - 3/68
South Uist	57.20	352.86		NK
Soya Ship	-60.00	00.00	XD	1/56 - 5/62
Stanford	37.40	237.80	ST 837	2/42 - 3/75
St. Johns	47.60	307.30	SJ J47	5/44 - 9/81
Sverdlovsk	56.70	61.10	SV 256	5/44 -
Swan River	52.10	258.80	48 952	4/46 - 8/46
Syowa Base	-69.00	39.60	SW 16R	2/59 -
Tahiti	-17.70	210.70	TT 71P	12/57 -

2. Alphabetical Listing (Continued)

<u>STATION</u>	<u>LAT.</u>	<u>EAST LONG.</u>	<u>CODE</u>	<u>OPEN - CLOSE</u>
Taipei	25.0	121.20	TP 424	3/50 -
Talara	-04.60	278.70	TA 90M	10/54 - 12/65
Tamanrasset	22.80	5.53	TN 022	2/56 - ?/70
Tananarive	-18.80	47.50	IV 21Q	11/51 - 5/72
Tangerang	-6.17	106.63		
Tashkent	41.33	69.62	TQ 241	9/61 -
Tbilisi	41.70	44.80	TB 142	6/63 -
Tehran	35.70	51.40	TE 236	4/63 -
Terre Adelie	-66.66	140.02	DU 560	12/49 -
The Pas	54.0	259.0	49 954	5/46 - 12/53
Thule (Tuto)	76.40	291.30	TH J76	7/55 - 6/66
Thule (Qanaq)	77.50	290.80	TH J77	9/68 -
Thumba	8.60	76.90	TC 309	10/64 -
Tiruchirapalli	10.80	78.70	TI 311	2/49 -
Tixie Bay	71.6	129.8	TX 471	7/57
Togo	10.80	0.40	TG 011	7/65 - 2/67
Tokyo	35.70	139.50	TO 535	6/34 -
Tomsk	56.50	84.90	TK 356	3/37 -
Tortosa	40.80	0.3	EB 040	5/57 -
Townsville	-19.63	146.85	TV 51R	6/46 -
Toyohara	46.9	142.80	50 546	9/42 - 8/44
Trelew	-43.20	294.70	TW J4L	4/58 - ?/79
Trinidad	10.75	298.43	51 J10	2/44 - 6/51
Trivandrum	8.50	77.00	TM 308	1/57 - 10/64
Tromso	69.70	19.00	TR 169	8/32 -
Tsitsihar	47.3	123.9	52 447	4/40 - 8/45
Tsumeb	-19.20	17.70	TS 11R	7/57 -
Tucuman	-26.90	294.60	TU J20	7/57 -
Tunguska	61.6	90.0	TZ 362	1/68 -
Uppsala	59.80	17.60	UP 158	11/51 -
Ushuaia	-54.80	291.70	UA J5M	11/57 -
Vanimo	- 2.70	141.30	VA 50L	7/64 -
Victoria Beach	50.80	263.92	53 951	7/45 - 9/45
Victoria	48.40	236.60	VI 848	7/57 - 1/59
Vostok	-78.4	106.9	VO 47P	3/58 -
Wakkanai	45.40	141.70	WK 545	3/47 -
Wallops Is.	37.9	284.5	WP 937	7/63 -
Washington	38.70	282.90	WA 938	12/29 - 9/68
Watheroo	-30.30	115.90	WT 431	4/35 - 3/59
White Sands	32.30	253.50	WS 832	6/46 - 3/82
Wilkes	-66.90	110.50	WL 460	7/57 - 1/69
Winnipeg	49.80	265.60	WI 949	4/51 - 12/76
Woomera	-31.00	138.6	WO 53J	5/61 - 12/69
Wuchang	30.60	114.40	54 430	8/46 - 5/49
Wuhan	30.60	114.33	WU 430	?/37
Yakutsk	62.0	129.60	YA 462	2/57
Yamagawa	31.20	130.60	YG 431	12/46 -
Yellow Knife	62.40	245.60	YE 862	11/57 - 1/59
Yuzhno Sakhal'i	47.0	143.0	SA 547	?/56 - 8/70
Zarya Ship			XF	8/59 - 11/66

3. Paired or Grouped Stations

<u>STATION</u>	<u>LAT.</u>	<u>EAST LONG.</u>	<u>OPENING DATE</u>	<u>CLOSING DATE</u>
Bekescaba	46.7	21.2	1/1964	
Budapest	47.4	19.2	1/1956	12/1959
Casey	-66.3	110.5	2/1969	12/1975
Wilkes	-66.9	110.5	7/1957	1/1969
Argentine Is.	-65.2	295.7	2/1962	
Port Lockroy	-64.8	296.9	5/1948	12/1961
Cape Kennedy	28.4	279.4	3/1964	10/1966
Cape Canaveral	28.4	279.4	3/1958	2/1964
Cocoa	28.2	279.4	1/1952	6/1952
Ft. Monmouth	40.4	285.9	8/1953	12/1965
Belmar	40.2	296.0	7/1950	8/1953
Hermanus	-34.4	19.2	6/1971	
Capetown	-34.1	18.3	9/1944	5/1971
La Paz	-16.5	291.9	12/1959	?/1969
Juliaca	-15.5	289.8	3/1959	5/1959
La Paz	-16.5	291.9	10/1957	12/1958
Inverness	57.4	355.8	10/1951	6/1963
Fraserburg	57.6	357.9	3/1948	9/1951
Manila	14.7	121.1	1/1964	
Baguio	16.4	120.6	3/1952	12/1963
Manila (Nichols Field)	14.5	120.0	3/1944	5/1947
Maynard	42.4	288.5	10/1970	6/1975
Billerica	42.6	288.7	11/1965	9/1970
Boston	42.6	288.7	3/1945	7/1951
Mundaring	-32.0	116.2	4/1959	
Watheroo	-30.3	115.9	1935	3/1959
Popayan	2.4	283.3	5/1970	
Bogota	4.5	285.8	8/1945	6/1967
Thumba	8.6	76.9	11/1964	
Trivandrum	8.5	77.0	1/1957	10/1964
Kenora	49.8	265.6	10/1963	12/1976
Winnipeg	49.9	262.9	4/1951	9/1963
Thule/Qanaq	77.5	290.8	10/1968	
Thule/Tuto	76.4	291.3	8/1960	7/1966
Thule/AFB	76.6	291.7	2/1956	7/1960
Wallops Is.	37.9	284.5	7/1963	
Ft. Belvoir	38.7	282.9	1949	9/1968
Sterling	39.0	282.5	8/1943	1949
Beltsville	39.1	283.9	3/1933	9/1943
Meadows	39.0	283.0	3/1933	2/1943
Kensington	39.1	282.8	12/1929	3/1933

IV. DATA TYPES AND KEY TO SYMBOLS

The column headings in Section V are:

IONOGRAMS (generally on 35mm film)
F-PLOTS (on paper)
M (f-plots on microform)
WORKSHEETS (one-sheet-per-day of all hourly characteristics)
TABULATIONS (table of daily/hourly values and medians by characteristic)
CH (number of characteristics scaled)
DIGITAL (scaled characteristics - digitized and archived in digital format)

Key to symbols used in Ionosphere Vertical Soundings:

A = Complete month of data held (final archive format for hourly digital data).
B = Partial month of data held.
C = Temporary format for hourly digital data held on cards.
M = Only monthly medians held.
N = Not available at Data Center and/or no observations made.
Q = Not held at our Data Center, but known to exist - WDC-A will attempt to obtain these data upon request.
P = Ionograms for Priority Regular World Day only.
S = Station closed.
T = Temporary format for hourly digital data held on tape.
U = Data known to be unreliable.
W = Data archived only for Regular World Days and/or Special World Intervals.

V. ALPHABETICAL LISTING OF DATA HOLDINGS

ACCRA 5.63 359.83 AG

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1961	B		BBA	AB																		
1962	B		B	A																		
1963	B		B	BS																		

ADAK 51.90 183.40 AD 651

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945																						
1946			AAA	AAA													AAA				8	
1947	AAA	AAA	AAA	AAA													AAA	AAA	AAA	AAA	12	
1948	AAA	AAA	AAA	AAA													AAA	AAA	AAA	AAA	12	
1949	ANN	NAA	AAA	AAA													ANN	NAA	NNN	AAA	12	
1950	AAA	AAA	AAA	BBB													AAA	AAA	AAA	AAA	12	
1951	AAA	AAA	AAA	AAA													AAA	AAA	AAA	AAA	12	
1952	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	12	
1953	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	12	
1954	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	12	
1955	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	13	
1956	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	13	
1957	AAA	AAA	AAA	AAA			BAA	AAA	X		AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	13	
1958	AAA	AAA	AAA	AAA			AAA	AAA	AAA	X	AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	13	
1959	AAA	AAA	AAA	AAA			AAA	AAA	AAA	X	AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	13	
1960	AAA	AAA	AAA	AAA			AAA	AAA	AAA	X	AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	13	
1961	AAA	AAA	AUU	UAA			AAA	AAA	AUU	X	AAA	AAA	AUU	UAA			AAA	AAA	AUU	UAA	13	
1962	AAA	AAA	AAA	AAA			AAA	AAA	AAA	X	AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	13	
1963	AAA	AAA	AAA	AAA			AAA	AAA	AAA	X	AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	13	
1964	AAA	AAA	AAA	AAA			AAA	AAB	AAA	X	AAA	AAB	AAA	AAA			AAA	AAA	AAA	AAA	13	
1965	AAA	AAA	AAA	AAA			AAA	AAA	AAA	X	AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	13	
1966	S						S				S						S					

AHMEDABAD 23.02 72.60 AH 223

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1955																	AAA	AAA	AAA	AAA	9	
1956																	AAA	AAA	AAA	AAA	9	
1957							WWW	WWW	X								AAA	AA	AAA	AAA	9	
1958							WWW	WWW	WWW	X							AAA	AAA	AAA	NAA	8	
1959							WWW	WWW	WWW	WWW	X						AAA	AAA	AAA	AAA	10	
1960																	AAA	AAA	AAA	AAA	10	
1961							WWW	WWW	WWW	WWW	X						AAA	AAA	AAA	AAA	10	
1962							WW				X						AAA	AAA	AAA	AAA	9	
1963																	AAA	AAA	AAA	AAA	9	
1964																	AAA	AAA	AAA	AAA	9	
1965																	AAA	AAA	AAA	AAA	9	
1966																	AAA	AAA	AAA	AAA	9	
1967																	AAA	AAA	AAA	AAA	9	
1968																	AAA	AAA	AAA	AAA	9	
1969																	AAA	AAA	AAA	AAA	9	
1970																	AAA	AAA	AAA	AAA	9	
1971																	AAA	BAA	AAA	AAA	9	
1972																	AAA	AAA	AAA	AAA	9	
1973																	AAA	NAA	AAA	AAA	9	
1974																	AAA	AAA	AAA	AAA	8	
1975																	BAA	AAA	AAA	ANA	8	
1976																	AAA	AAA	AAA	AAA	8	
1977																	AAA	AAA	AAA	AAA	8	
1978																	BAN	AAA	AAA	AAA	8	
1979																	NNN	NNN	NNN	NAA	8	
1980																	BBA	BBB	BAB	BAA	8	
1981																	ABA	AAA			8	

AKITA

39.70 140.10 AK 539

YEAR	IONOGRAMS				M	F-PLOTS				WORKSHEETS	TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1949													A	11					
1950											AAA	AAA	AAA	AAA	11				
1951											AAA	AAA	AAA	AAA	11				
1952											AAA	AAA	AAA	AAA	11				
1953											AAA	AAA	AAA	AAA	11				
1954											AAA	AAA	AAA	AAA	11				
1955											AAA	AA	A	AAA	4				
1956											AAA	AAA	AAA	AAA	3				
1957			WWW	WWW				AAA	AAA		AAA	AAA	AAA	AAA	12				
1958	WWW	PWW	WPP	WWP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12				
1959	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12				
1960	WPP	WWW	WWW	WWW		ANN	NNA	AAA	AAA		AAA	AAA	AAA	AAA	12				
1961	WWW	WWW	WWW	WWP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12				
1962	WWW	WWW	WWW	WWB		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12				
1963	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12				
1964	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	
1965	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	
1966	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	
1967	PPP	PP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12	MM	MM		
1968	P					AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12	MMM	MMA	AAA	
1969	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	
1970	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	
1971	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	
1972	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	
1973	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	
1974	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	
1975	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	
1976	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	14				
1977	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	14				
1978	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	14				
1979	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	14				
1980	PPP	PPP	PPP	PPP		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	14				
1981						AAA	AAA				AAA	AAA	AAA		14				

ALERT

82.6 297.4 AL J82

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957			WW	WWW				AA	AAA	X					AA	AAA					8	
1958	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X			AAA	AAA	AAA	AAA					8	
1959	S					S							S									

ALMA ATA

43.25 76.92 AA 343

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL				
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	
1945														M	MMM	MM	MM					6	
1946														MMM	MMM	MMM	M					7	
1947														M								6	
1956														M	M							8	
1957			WWW	WWW										M	M	MMM	AAA	AAA					12
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAW	WW						AAA	AAA	AAA	AA					14	
1959	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA					14	
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA					14	
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA					14	
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA					14	
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14
1966	WW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14
1968	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14
1969	WWW	WWW	WWW	WWW	AAA	ANN	AAA	AAA	X					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14
1970	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14
1971	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14

ALMA ATA (CONTINUED) 43.25 76.9 AA 343

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1972	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973	WWW WW WW WWW	AAA AAA AAA MAA	X		AAA AAA AAA MAA	14	MMM MMM MMM MMM
1974	WW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MM
1976	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA A AAA	14	
1977	WWW WWW WWW WWW	A A AA	X		AA AA AAA AAA	14	
1978	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1979	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1980	WWW WWW WWW WWW	AAA AAA AAA	X		AAA AAA AAA AAA	13	
1981	WWW W				AAA A	13	

ANCHORAGE 61.20 210.10 AN 761

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1949	AAA AAA AAA				AAA AAA AAA	12	
1950	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1951	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1956	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA		8	
1957	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	11	TTT TTT TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT
1961	AAA AAA ABA AAA	AAA AAA ABA AAA		AAA AAA ABA AAA	AAA AAA ABA AAA	11	TTT TTT TTT TTT
1962	AAA AUU UAA AAA	AAA AUU UAA AAA		AAA AUU UAA AAA	AAA AUU UAA AAA	11	TTT TTT TTT TTT
1963	AAA AAA AAA AA	AAA AAA AAA BAA		AAA AAA AAA BAA	AAA AAA AAA AA	11	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	11	AAA AAA AAA AAA
1965	AAA AAA AAA AAB	AAA AAA AAA AAB		AAA AAA AAA AAN	AAA AAA AAA AAB	11	TTT TTT TTT TTT
1966	S	S	S	S	S		S

ARCTICA (NP-6) 82.40 9.50 XG

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	WWW WWW	WAA AAA	X		BAA AAA	12	
1958	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1959	WWW WWW W S	AAA AAA AA S	X		AAA AAA AAB S	12	

DRIFTING STATION

ARCTICA (NP-7) 86.40 296.60 XH

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	WWW WWW	AAA AAB	X		AAA AAB	12	
1958	WWW WWW WWW WWW	AAA AAA AAA AAB	X		AAA AAA AAA AAB	12	
1959	WWW S	AAA S	X		AAA S	12	

DRIFTING STATION

ARCTICA (NP-8) 80.00 165.00 XI

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1960	W WWW WWW	B AAA AAA	X		B AAA AAA	7	
1961	WWW WWW NW WS	AAA ABA NAA AS	X		AAA ABA NAA AS	7	

DRIFTING STATION

ARCTICA (NP-10) 78.00 165.00 XJ

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1962	W	A	X		A	12	
1963	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1964	WWW WS	AAA BS	X		AAA BS	12	

DRIFTING STATION

ARCTICA (NP-11) 79.00 165.00 XK

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1962	WWW WS	AAA AS	X		AAA AS	12	

DRIFTING STATION

ARCTICA (NP-13) 81.00 165.00 XL

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1964	WWW WWW	AAA AAA	X		AAA AAA	12	M M MMM MMM
1965	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	M M MMM MMM MMM
1966	WNW WWW WWW S	BNA AAA AAB S	X		BNA AAA AAA S	12	M M MMM MMM S

DRIFTING STATION

ARCTICA (NP-16) 78.00 176.48 XM

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1968	W WWW W	B AAA AAA	X		A AAA AAA	13	
1969	WWW WWW WWW WWW	AAA ABA AAA ABB	X		AAA ABA AAA ABA	13	
1970	S	S			S		

DRIFTING STATION

ARCTICA (NP-19) 78.00 150.0 XP

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1970	W WWW W	A AAA	X		A AAA	13	
1971	WWW WNW WWW W	AAA AAA AAA AA	X		AAA AAA AAA AA	13	
1972	S	A AAA AAA BS	X		A AA S	13	

DRIFTING STATION

ARECIBO

18.50 293.17 AR J19

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1964	BBB	BBB	BB																			
1966	BB	BBB	BBB	BBB																		
1967	BBB	BBB	BBB	BBB																		
1968	BBB	BBB	BBB	BBB																		
1969	BBB	BBB	BBB	BBB																		
1970	B	BB	BBB	BB																		
1971	BB	B	B	A																		
1972	BBA	BBA	AAB	AAA																		
1973	BBA	AAA	AAA	AAA	BAA	AAA	AAA	AAB														
1974	AAA	AAA	AAA	AAA									BAA	AAA	AAA	AAB			3			
1975	AAA	BAA											AAA	AAA	AAA	AAA			3			
1976			B	BBB																		

ARGENTINE IS

-65.20 295.70 AI J6M

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1948																						
1952														B	BBA	BNB	BBB			1		
1953														NNA	AAA	AAA	AAA			4		
1954														AAA	AAA	AAA	AAA			4		
1955														AAA	AAA	AAA	AAA			4		
1956														AAA	AAA	AAA	AAA			4		
1957			WWW	WWW				AAA	AAA	X				ANN	AAA	AAA	AAA			4		
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAN	AAA	AAA	AAA			6		
1959	WW				A				X					AAA	AAA	AAA	AAA			6		
1960														AAA	AAA	AAA	AAA			6		
1961														AAA	BAA	AAA	AAA			6		
1962														AAA	AAA	AAA	AAA			6		
1963														NAA	AAA	AAA	AAA			6		
1964														AAA	AAA	AAA	AAA			6		
1965		A	A											AAA	AAB	AAA	AAA	MMM	MMM	MMM	MMM	
1966				BB										AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1967														AAA	AAA	AAA	AAA	MM	MMM	MMM	MMM	
1968														AAA	BAA	AAA	AAA	M	MMM	MMM	MMM	
1969														AAA	AAA	AAA	AAA	MM	MMM	MMM	MMM	
1970														AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1971					AAA	AAA	AA							AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1972					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	TTT	TTT	TTT	TTT	
1973					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	TTT	TTT	TTT	TTT	
1974					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	TTT	TTT	TTT	TTT	
1975						AA	AAA	AAA						AAA	AAA	AAA	AAA	TTT	TTT	TTT	TTT	
1976					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	TTT	TTT	TTT	TTT	
1977					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	
1978														AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	

ARKHANGELSK

64.6 40.5 AZ 163

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1969	QQQ	QQQ	QQQ	QQW	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	QQQ	QQQ					
1970	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	QQQ	QQQ					
1971	QQQ	QQQ	QQQ	QQW	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	QQQ	QQQ					
1972	WWQ	WQQ		QQ	QQQ	QQQ		QQ						QQQ	QQQ		QQ					
1973	QQQ	Q			QQQ	Q								QQQ	QQQ							
1974														QQQ	Q							
1975																						
1976																						
1977																						
1978														MMM	MMM		M	MM			8	
1979														MMM	MMM	M					8	

ASHKHABAD

37.90 58.30 AS 237

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1956														M	M						8	
1957			WWW	WWW				WWW	WWW	X				MMM	M	AAA	AAA				13	
1958	WWW	WWW	WWW	WWW		WWA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA				14	
1959	W	W	W	W	W	AAA	AAA		A	X				AAA	AAA		A				14	
1960	WWW	WWW	WWW	WWW		AAA	BAA	AAA	AAA	X				AAA	AAA	A	A	A			14	
1961	WWW	WWW	WWW	WWW		AAA	AAA	BAA	AAA	X				AAA	AAA	AAA	AAA				14	
1962	WWW	WWW	WWW	WWW		ABA	AAA	AAA	ABA	X				ABA	AAA	AAA	AAA				14	
1963	WWW	WWW	NNN	WWW		AAA	AAA	NNN	AAA	X				AAA	AAA	NNN	AAA				14	
1964	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW		AAA	ABA	BAA	AAA	X				AAA	ABA	BAA	AAA		MMM	MMM	MMM	MMM
1966	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW		BAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM
1969	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM
1970	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM
1971	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA		MMM	MM		MMM
1972	WWW	WWW	WWW	WWW			AAA	AAA	AAA	X				MM	AAA	AAA	AAA		MMM	MMM	MMM	MMM
1973	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM
1974	WWW	WWW	WWW	WW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA					
1975	W	W	WWW	W		AA	A	AAA	AAA	X				A	A	AAA	AA					
1976						AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA					
1977						AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA					
1978						AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA					13
1979						AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA					13
1980						AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA					13
1981														A								

ATHENS

38.0 23.60 AT 138

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1960													AA	16				
1961											AAA	AAA	AAA	AAA	16			
1962											AAA	AAA	AAA	AAA	16			
1963											AA		AAA	AAA	16			
1964						WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	16	MMM	MMM	MMM
1965						W					AAA	A			16	MMM	M	
1966											BA	AAA	BAA		4			
1967												AAA	BA	BB	3			
1968													AA		16			MM
1969											AAA	AAB	BAA	BAA	16			
1970											AAA	AAA	AAA	AAA	16	MMM	MMM	MMM
1971																		
1972											AAA	AAA	ANA	AAA	16	MMM	MMM	
1973						WWW	WWW				AAA	AAA	AAA	AAA	16	MMM	MMM	
1974											AAA	AAA			16			
1975																		
1976																		
1977																		
1978																		
1979																		
1980													AAA	AAA	16			

AUCKLAND

-37.00 175.00 AU 63P

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1967										AAA	AAA	AAA	AAA	14				
1968										AAA	AAA	AAB	AAA	3	MMM	MMM	MM	M
1969										AAA	AAA	AAA	BAA	3	MMM	MMM	MMM	MMM
1970										ABA	AAA	AAA	AAB	4	MMM	MMM	MMM	MMM
1971										BAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1972										AAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1973										BAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1974										AAA	AAA	AAA	ABA	4	MMM	MMM	MMM	MMM

AUCKLAND (CONTINUED) -37.00 175.00 AU 63P

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1975														AAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1976														AAA	AAA	AAA	AAA	4				
1977														AAA	AAA	AAA	AAA	4				
1978														AAA	AAA	AAA	AAA	11				
1979														S					S			

BADDOW 51.70 .50 01 061

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1940																	AA	1				
1941														AAA	AAA	AAA	AAA	1				
1942														AAA	AAA	AAA	AMA	2				
1943														AAA	AAA	AAA	AAA	2				
1944														AAA	AAA	AAA	AAA	2				
1945														AAA	AAA	AAA	AAA	7				
1946														AAA	AS			7				

CLOSED IN 1946

BAGNEUX 48.80 2.3 55 039

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1947														A	AAN	AAA	AAA	10				
1948														AAA	AAA	ANA	AAN	10				
1949														AA	AAA	AAN		10				
1950														S								

REPLACED BY DOMONT

BAGUIO 16.40 120.60 BF 416

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1952														AA	AAA	AAA		13				
1953														AAA	AAA	AAA	AAA	13				
1954														AAA	AAA	AAA	AAA	13				
1955		B												AAA	AAA	AAA	AAA	13				
1956	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	11				
1957	AAA	AAA	AAA	AAA	A	AAA	AAA		X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1960	AAA	AAA	AAA	AAB	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1964	S				S					S				S								

REPLACED BY MANILA

BAIE ST PAUL 47.38 289.45 PL J48

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1961																						
1962	ABS																					

BAKER LAKE

64.30 264.00 BL 964

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1949	AA AAA AAA				AA AAA AAA AAA	12	
1950	AAA AAA AAA AAA				AAA AAA AAA AAA	12	
1951	AAA AAA AAA AAA				AAA AAA AAA AAA	12	
1952	A				AAA AAA AAA AAA	12	
1953		A			AAA AAA AAA AAA	10	
1954	A				AAA AAA AAA AAA	10	
1955					AAA AAA AAA AAA	10	
1956							
1957	AAA AAA	AAA AAA					
1958	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1959	W S	AAS			AAS	10	

BANDOENG

-6.9 107.6 02 40Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					BM MMM MMM	7	
1944					MMM BNM MMM MB	5	
1945					S		

BANGKOK

13.70 100.60 BK 314

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1963	BA AAA	BA	X	BA ABA	A AAA	13	
1964	AAA AAA AAA AAA	BAA AAA BBB AAB	X	AAA AAB BAB BAB	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1965	AAA AAA AAA AAA	ABB AAA AAA AAA		ABB AAB AAA ABA	AAB AAA AAA AAA	13	MMM MMM MMM MMM
1966	AAA AAA BAA AAA	AAA AAA BBA A		AAA AAA BBA A	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967	AAA AAA AAA AAA				AAA AAA AAA AAA	13	MM MM
1968	ABB AAA				ANB AAA AAA AAA	13	M M MMM MMM M
1969	ABB AAA AAA AAA				AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970	AA AAA ABA AAA	AAA AAA AAA A	X	AAA AAA AAA	BAA AAA AAA AAA	13	MMM MMM MMM MMM
1971	AAA AAA AAA AAA			AAA AAA BAA AAA	A A AAA AAA AAA	13	MAM MMM MMM MMM
1972	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA MA	13	MMM MMM M
1973	AAA BAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1974	AAA AAA AAA AAA			AA AAA AAA AAA		13	
1975	AAA AAA AAA AAA			AAA AAA AAA AAA		16	
1976	AAA AAA AAA AAA			AAA AAA AAA AAA		16	AAA AAA AAA AAA
1977	AAA AAA AAA AAA			AAA AAA AAA AAA		16	
1978	AA A AA AAA			AAA AAA AAA AAA		16	A A
1979	AAA AAA AAA AAA			BBA A AA AAA	BA AAA A AAA	13	
1980				AAB AAA AAA AAA	AAB AAA AAA AAA	13	
1981				AAA ABB	AA A	13	

BANGUI

4.60 18.60 BI 104

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958					AA AAA AAA AAA	12	
1959					AAA AAA AAA AAA	12	
1960					AAB BAB S	12	
1964					BBB BAA BNN AAB	12	MMM MMM M MMM
1965					BBB BBB BBB BBB	12	MMM MMM MMM MMM
1966	A				BBB NNN NNS	12	MMM S

BARBADOS

13.12 300.40 BS J13

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957	B																					
1964		B																				
1965			B																			
1966		B																				
1967		W		S																		

INTERMITTENT OPERATION

BARROW

71.30 203.20 BW 771

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1949				A																		
1950	AAA	AAA	AAA	AAA							AA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1951	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1952	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1953	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1954	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA	AAA	A	A	AAA	AAA	AAA		
1955	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1956	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA			AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1957	AAA	AAA	BAB	AAB	AAA	AAA	BAB	AAB	X		AAA	AAA	BAB	AAB	AAA	AAA	AAA	AAA	AAA	AAA		
1958	AAB	AAA	BBA	AAA	AAB	AAA	BBA	AAA	X		AAB	AAA	BBA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1959	AAA	AAA	AAB	AAA	AAA	AAA	AAB	AAA	X		AAA	AAA	AAB	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1960	AAA	AAA	AAA	AAA	AAA	AAA	ABA	AAA	X		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1963	AAA	AAA	AAB	NNA	AAA	AAA	AAA	NN	X		AAA	AAA	AAA	NN	AAA	AAA	AAA	NN	AAA	AAA		
1964	AAA	AAA	AAA	BAA	AAA	AAA	AAA	BAA	X		AAA	AAA	AAA	BAA	AAA	AAA	AAA	AAA	AAA	AAA		
1965	AAA	AAA	AAA	AAS	AAA	AAA	AAA	AAS	X		AAA	AAA	AAA	AAS	AAA	AAA	AAA	AAS	AAA	AAA		

BATAVIA

39.40 275.90 03 939

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1951	B	B	A	BBA	AAB								A	AAA								
1952	B	A	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	S					

BATON ROUGE

30.50 268.8 04 930

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1943																						
1944																BAA	AAA					
1945																AAA	AAA	ABA	AAA			
1946																AAA	AAN	AAA	AAA			
1947																AAA	AAA	AAA	AAA			
1948																AAA	AAA	AAA	AAA			
1949																AAA	AAA	AAA	AAA			
1950	AAA	AAA	AAA	AAA												AAA	AAA	AAA	AAA			
1951	AAA	AAA	AAA	AAA								AAA	AAA			AAA	AAA	AAA	AAA			
1952	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA			
1953	AAA	AAA	AAS									AAA	AAA	AAS		AAA	AAA	AAA	AAA			

BAUDOUIN

-70.40 23.30 BB 171

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958																BAA	AAA	AAA				
1959																A						

BAUDOUIN (CONTINUED) -70.40 23.30 BB 171

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964					BAA AAA AAA	15	MMM MMM MMM
1965		WW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966		W			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967		S			S		S

BELGRANO -77.90 321.40 GE A7Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958					MM	4	
1963		AAA			AAA	13	
1964	AAA AAA	AAA BAA			AAA AAA	13	MMM MMM
1965	AAA AAA AAA AAA	BAA AAA			AAA AAA	13	MMM MMM
1966	B AAA B A ABB						
1968	AB AAA						
1969	B						

BEOGRAD 44.80 20.50 BE 145

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1962					A AA A	1	
1963					AAA AAA AAA AAA	1	
1964					AAA AAA AAA AAA	2	
1965					AAA AAA AAA AAA	2	
1966					NAA AAA AAA AAA	2	
1967					AAA AAA AAA AAA	2	
1968					AAA AAA AAA AAA	2	
1969					AAA AAA AAA AAA	2	
1970					AAA AAA AAA AAA	2	
1971					AAA ANA AAA AAA	2	
1972					AAA AAA AAA AAA	2	

BILLERICA 42.60 288.70 BO J43

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1965					AA	14	MM
1966					AAA AAA AAA ANN	14	MMM MMM MMM M
1967					NBA AAA AAA AAA	14	M MMM
1968					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970					AAA AAA AAA S	14	MMM MMM MMM S

REPLACED BOSTON, REPLACED BY MAYNARD

BOGOTA 4.50 285.80 BG J05

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	BAA BNN	BAA BNN	X	BAA BNN	AAA ANN	13	TTT T
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TT TTT
1959	AAA AAA AAA AAA	A A AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1960	AAA BAA AAA AAA	B	X	B	B	13	T
1961	AAB AAN BAA NNN	N NNN		N NNN	N NNN		
1962	NBA AAA ABB AAA	N B AAA	X	N B AAA	N B AAA	13	T TTT
1963	AAA AAA AAA AAA	AAA AAA BAA AAA	X	AAA AAA BAA AAA	AAA AAA AAA AAA	10	AAA AAA AAA AAA
1964	AAA AAA BAA AAA	AAA AAA BAA AAA	X	AAA AAA BAA AAA	AA AAA BAA AAA	10	AAA AAA AAA AAA
1965	AAA AAA BAA AAA	AAA AAA BAA AAA	X	AAA AAA BAA AAA	AAA AAA BAA AAA	10	TTT TTT TTT TTT
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	10	MMM MMM MMM MMM

BOGOTA (CONTINUED)

04.50 285.80 BG J05

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1967	AAA AAA S	AAA AAA S		AAA AAA S	AAA AAA S	10	CCC CCC S

REPLACED BY POPAYAN

BOMBAY

19.00 72.80 BM 219

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1945					A AAA	2	
1946					AAA AAA AAA AAA	2	
1947					AAA AAA AAA AAA	3	
1948					AAA AAA AAA AAA	3	
1949					AAA AAA AAA AAA	3	
1950					AAA AAA AAA AAA	3	
1951					AAA AAA AAA AAA	3	
1952					AAA AAA AAB AAA	3	
1953					AAA AAA AAA AAA	3	
1954					AAA AAA AA AAA	3	
1955					AAA AAA AAA AAA	3	
1956					AAA AAA AAA AAA	3	
1957		W			AAA AA AAA ABB	3	
1958		WWW WWW WWW WWW			AAA AAA BAA AAA	4	
1959		WWW WWW WW WWW			AAA AAA BBA AAA	7	
1960					AAA ABB BBB BBB	7	
1961					BBB BBN AAB BBB	7	
1962					BBA AAA ABA BAA	7	
1963					AAA AAA AAA AAB	5	
1964					AAA AAA AAA AAB	5	MMM MMM MMM MMM
1965					AAB BBB BAA BBB	5	MMM MMM MMM MMM
1966					BAB BAB AAA BAB	5	MMM MMM MMM MMM
1967					BBB BBB BBN NNN	5	M MMM M
1968					NBA BAA AAB AAA	5	MM MMM MMM MMM
1969					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1972					BAA AAA AAA AAA	5	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1974					AAA AAA A A A	5	MMM MMM
1975					AAA AA A	5	
1976					AA AAA	5	
1977					A AAA	5	
1978					AAB BAB BAA BBB	5	
1979					AA AS	5	S

BOSTON

42.40 288.70 56 J43

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1945	B				A AAA AAA AAA	10	
1946					A AAA	10	
1947					AAA AAA AAA AAA	10	
1948					AAA AAA AAA AAA	10	
1949		AA			AAA AAA AAA AAA	10	
1950	A				AAA AAA AAA AAA	10	
1951					AAA AAA S	10	

REPLACED BY BILLERICA IN 1965

BOULDER

40.00 254.70 BC 840

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL					
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		
1955			A	A																				
1956				A																				
1957	A	A		BBB																				
1958	AAA	AAA	AAA	ABA			AA	B	X			BB	BA			AA		13			T			
1959	AAA	AAA	AAB	AAA			A	A	B	B	X	AAA	AAB	BAB	AAB	AAA	AAA	AA	AAA	13	TTT	TTT	TT	TTT
1960	AAA	AAA	BAA	AAA	B		AA	AAB		A	X	BAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TAT	TTT	TTT
1961	AAA	AAA	AAA	BAA	AAA	AAB			B		X	AAA	AAB			AAA	AAA			7	TTT	TTT		
1962	AAA	AAA	AAB	AAB																				
1963	AAA	AAA	AAA	AAA			AA	AAA	AAA		X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1968	AAA	AAA	AAA	AAA	AAA	A			AA		X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1969	AAA	AAA	AAA	AAA	AAA							AAA	AAA	BBB	BAA	AA				13	AAA	AAA	AAA	AAA
1970	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1971	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1972	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1973	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1974	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	9	AAA	AAA	AAA	AAA
1976	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1978	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1979	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1980	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1981	AAA	AAA	AAA	AAA								AAA	AAA	AAA	AAA	A				17				

BRISBANE

-27.50 152.90 BR 52P

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1943															A	AAA	AAA	11				
1944														AAA	AAA	AAA	AAA	15				
1945														AAA	AAA	AAA	AAA	18				
1946																						
1947														AAA	AAA	AAA	AAA	18				
1948														AAA	AAA	AAA	AAA	18				
1949														AAA	AAA	AAA	AAA	10				
1950														AAA	AAA	AAA	AAA	10				
1951														AAA	AAA	AAA	AAA	12				
1952														AAA	AAA	AAA	AAA	13				
1953														AAA	AAA	AAA	AAA	13				
1954														AAA	AAA	AAA	AAA	12				
1955														AAA	AAA	AAA	AAA	12			T	
1956														AAA	AAA	AAA	AAA	9				
1957							WWW	WWW						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1958					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1959	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1960	WWW	WWW	WWW	WWW										AAA	ABA	AAA	AAA	6	TTT	TTT	TTT	TTT
1961														AAB	AAA	AAA	AAA	3	TTT	TTT	TTT	TTT
1962				A										AAA	AAA	AAA	AAA	3	TTT	TTT	TTT	TTT
1963	B		A											AAA	AAA	AAA	AAA	3	TTT	TTT	TTT	TTT
1964														AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1965														AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1966				A										AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1967														AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1968														AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1969														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1970														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1971														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1972														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1973	B													AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1974														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1975														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1976														AAA	AAA	AAA	AAA	12				
1977														AAA	AAA	AAA	AAA	12				
1978														AAA	AAA	AAA	AAA	13				

BRISBANE (CONTINUED) -27.50 152.90 BR 52P

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1980					AAA AAA AAA AAA	13	
1981					BAA A	13	

BUDAPEST 46.77 21.10 BU 147

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956							
1957					AAA AAA AAA AAA	7	
1958					AAA AAA AAA AAB	10	
1959					BAA AAA BAA AAA	11	
1964		WWW WWW WNN WWW	X		AAA AAB ANN AAA	14	MMM MMM M MMM
1965		WWW WWW WWW WWW	X		ABB AAA AAA AAA	14	MMM MMM MMM MMM
1966		WWN NWW WWW BWV	X		AAB NAA AAA AAA	14	MMM MM MMM MMM
1967		WWW BWV WNB WWW	X		AAB BAA ANB AAA	14	M M M MMM
1968		WWW WBW WWW WWW	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1969		WNN NNN NNN NNN	X		ABN NNN NNN NNN	14	MM
1971		NNN WBW WNN NNN			NNN AAA ANN NNN	14	MMM M
1972		BWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973		WNW WWW WWW WWW			ANA AAA AAA AAA	14	M M MMM MMM MMM
1974		WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975		WWW WWW NNN WWW			AAB BAA BBA AAA	14	MMM MMM MMM MMM
1976		WWW NWN BWV NWW			AAA NAB AAA BAB	14	
1977		WW WWW NNW WW			AAA AAA NNA AA	14	
1978					AAA AAA AA	14	

BUENOS AIRES -34.50 301.50 BA J3M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1950					AA AAA AAA AAA	9	
1951							
1952					AAA BBB AAA AAA	8	
1953					AAA AAA AAA AAA	9	
1954					AAA AAA AAA AAA	9	
1955					AAA AAA AAA AAA	9	
1956							
1957			AA	X	AAA ANN NNN NAA	12	
1958	AA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1959	AAA AAA AAA AAA	ABB BBB BBB BBB	X		A A AAA AAA AAA	12	
1960	AAA AAA AAA AAA	AA AAA AAA	X		AAA AAA AAA AAA	12	
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1963	ABA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA BAA AAA	12	
1964	AAA AAA AAA AAA	AAA AAA AAA A	X		AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965	BAA AAA AAA AAA	BAA BBA AAA AAA	X		BAA AAA AAA AAA	12	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AAA BAA BAA AAA			AAA BAA AAA AAA	12	MMM MMM MMM MMM
1967	AAA AAA AAA AAA				AAA AAA AAA AAA	13	MMM MMM MMM MMM
1968	AAA AAA AAA AAA				AAA AAA AAA AAA	13	MMM MMM MMM MMM
1969	AAA ABA AAA AAA				AAA AAA	13	MMM MMM
1970	AAA AAA AAA AAA						
1971	AAA AAA AAA AAA						
1972	AAA AAA AAA AAA				AAA AAA AAA AAA	13	
1973	AAA AAA AAA AAA				AAA AAA AAA AAA	14	MMM MMM MMM MMM
1974	AAA AAA AAA AAA				AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975	AAA AAA AAA AAA				AAA AAB BAA AAA	14	MMM MMM MMM MMM
1976	AAA AAA AAA AAA				AAA AAA AAA A A	14	
1977					AAA AAA AAA AAA	14	
1978					AA	14	

BUNIA

01.50 30.20 BN 102

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	BB				AAA	15	
1958					AAA AAA AAA AAA	20	
1959					AAA AAA BAA AAA	20	
1960					AAA ABB ABA BAS	20	

BURGHEAD

57.7 356.30 06 063

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1941					BAB BNB BNB BNA	6	
1942					AAA AAB AAA AAA	6	
1943					AAA AAA AAA AAA	6	
1944					AAA AAA AAA AAA	6	
1945					AAA AAA AAA AAA	6	
1946					AAA AAA AAA AAA	1	
1947					S		

BYRD STATION

-80.0 240.0 BD 88!

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AA AAA AAA	AAA AAA	X	AAA AAA	AAA AAA	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAB	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TT TTT TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT T T TTT
1962	BNN AAA AAA AAA	BNN AAA AAA AAA	X	BNN AAA AAA AAA	BNN AAA AAA AAA	13	T TTT T T TTT
1963	BAA AAA AAA AAA	BAA AAA AAA AAB	X	BAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1964	AAA AAA AAA AAA	BBB BBA AAA BAB	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1965	AAA AAA AAA AAB	AAA AAA AAA AAB	X	AAA AAA AAA AAB	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AA AAA AAA A		AAA AAA AAA AAA	AAA AAA AAA AAA	7	MMM MMM MMM MMM
1967	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA	7	CC
1968	AAA AAA AAA AAA	B		AAA A AAA		7	
1969	AAB ABA BBB BBB			BAB AA B		7	
1970	AAA AAA AAA ANA						
1971	S	S		S	S		S

CAIRO

30.0 31.19 05 130

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					AA	4	
1946							

CALCUTTA

23.0 88.6 CU 322

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					AAA AAA	6	
1945					AAA AAA AAA AAA	6	
1946							
1947					AAA AAA AAA NAA	6	
1948					AAA AAA AAA AAA	6	
1949					AAA AAA AAA AAA	7	
1950					AAA AAA AAA AAA	6	
1952					AAA AAA AAA AAA	8	
1953					AAA AAA AAA AAA	8	
1954					AAA AAA AA AAA	6	
1955					AAA AAA AAA AAA	9	

CALCUTTA (CONTINUED) 23.0 88.6 CU 322

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1956													AAA	AAN	NNN	ABB	8					
1957							WWW	WWW					ABA	AAA	AAA	AAA	9					
1958					WWW	WWW	WWW	WWW					AAA	BBB	BAS	AAA	9					
1959					WWW	NNN	NWW	WWW					AAA	NNN	NBB	BAA	9					
1960													AAB	S			9					
1964														BB	AAA	ABB	9		MM	MMM	MMM	
1965													ABA	BBB	BBA	ABB	9	MMM	MMM	MMM	MMM	
1966													NAA	ABA	AAA	BAA	9		MM	MMM	MMM	
1967													AAA	BAA	AAB	BBB	9	M	MMM	MMM	MMM	
1968													AAA	BAA	AAA	AAA	10	MMM	MMM	MMM	MMM	
1969													AAB	AAB	ABA	AAA	10	MMM	MMM	MMM	MMM	
1970													AAA	AAA	BAA	AAB	10	MMM	MMM	MMM	MMM	
1971													ABA	AAB	BAA	BAA	10	MMM	MMM	MMM	MM	
1972													BAA	BBA	BAA	AAA	10	MMM	MMM	MMM	MMM	
1973													AAA	ABN	AAB	BNN	10	MMM	MM	MMM	M	
1974													BAA	AAA	AAA	AA	10	MMM	MMM			
1975														BB			10					
1976																B S	10				S	

CAMDEN -34.0 150.67 CD

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
1981														AAA	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

CAMPBELL IS -52.50 169.20 CI 65K

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														AAA	AAA	AAA		9				
1945														ANN	NAA	AAA	AAA	12				
1946																						
1947														NAA	AAA	AAA	AAA	12				
1948														AAA	AAA	AAA	AAA	12				
1949														AAA	AAA	AAA	AAA	13				
1950														AAA	AAA	AAA	AAA	13				
1951																						
1952														AAA	AAA	AAA	AAA	16				
1953														AAA	AAA	AAA	AAA	15				
1954														AAA	AAA	AAA	AAA	15				
1955					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14				
1956														AAA	AAA	AAA	AAA	14				
1957			B	AA	WWW	WWN	WWW	WWW	X					AAA	AAN	ABA	AAA	13				
1958	AWW	BWA	AAA	W W	WWN	WWW	WWW	WWW	X					AAN	BAA	AAA	AAA	13				
1959	WW		W	WW	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	7				
1960					WWW	WWN	NWW	WWW	X					AAA	AAN	NAA	AAA	7				
1961					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	7				
1962		B		B	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	8				
1963					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	8				
1964					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965					WWW	WWW	WWB	WWW						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1966					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967														AAA	AAA	AAA	AAA					
1968														AAA	AAA	AAA	AAA	3	MMM	M	M	M
1969														AAA	AAA	AAA	AAB	4	MMM	MMM	MMM	MMM
1970														AAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1971														AAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1972														AAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1973														AAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1974														AAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1975														AAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1976														AAA	AAA	AAA	AAA	4				
1977														AAA	AAA	AAA	AAA	4				
1978														AAA	AAA	AAA	AAA	11				
1979														AAA	AAA	AAA	AAA	11				

CAMPBELL IS (CONTINUED) -52.50 169.20 CI 65K

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1980																	A AAA	11				

CANBERRA -35.30 149.00 CB 53N

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1937													A	AAA	AAA	AAA						
1938													AAA	AAA	AAA	AAA						
1939													AAA	AAA	AAA	AAA						
1940													AAA	AAA	AAA	AAA						
1941													AAA	AAA	AAA	AAA	10					
1942													AAA	AAA	AAA	AAA	10					
1943													AAA	AAA	AAA	AAA	10					
1944													AAA	AAA	AAA	AAA	13					
1945													AAA	AAA	AAA	AAA	11					
1946																						
1947													AAA	AAA	AAA	AAA	15					
1948													AAA	AAA	AAA	AAA	15					
1949													AAA	AAA	AAA	AAA	15					
1950													AAA	AAA	AAA	AAA	9					
1951													AAA	AAA	AAA	AAA	11					
1952													ABA	NNN	AAA	AAA	11					
1953													AAA	AAA	AAA	AAA	11					
1954													AAA	AAA	AAA	AAA	10					
1955													AAA	AAA	AAA	AAA	10			T		
1956																						
1957				WWW	WWW			WWW	WWW				AAA	AAA	AAA	AAA	13					
1958	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW				AAA	AAA	AAA	AAA	13					
1959	WWW	WWW	WWW	WWW	WWW	WWW	WWW	W	W	WWW			AAA	AAA	AAA	AAA	8					
1960		WW	WWW	WW									NNN	AAA	AAA	AAA	6					
1961													AAA	ANN	AAA	AAA	3					
1962													AAA	AAA	AAA	AAA	3					
1963													AAA	AAA	AAA	AAA	3					
1964	BB		B		B								AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM	
1965	BB		B										AAA	ABA	AAA	AAA	11	MMM	MMM	MMM	MMM	
1966			B		BB	B							AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT	
1967		BB	BBB										AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT	
1968	B		B		B								AAA	AAA	AAA	AAA	5	MMM	MMM	MM		
1969			BB										AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT	
1970													AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT	
1971													AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT	
1972													AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT	
1973													AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT	
1974													AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT	
1975													AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MM	
1976													AAA	AAA	AAA	AAA	12					
1977													AAA	AAA	AAA	AAA	12					
1978													AAA	AAA	AAA	AAA	13					
1979													AAA	AAA	AAA	AAA	13					
1980													AAA	AAA	AAA	A A	13					
1981													AAA	AAA			13					

CAPE HALLETT -72.30 170.20 HT 67K

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957		AA	AAA	AAA			WWW	WWW	X						AAA	AAA	13					
1958	AAA	AAA	ABA	AAB	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	13					
1959					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	13					
1960					WWW	BWW	WWW	WBW	X					AAA	AAA	AAA	7					
1961					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	7					
1962					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	8					
1963					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	14					
1964					WWS									AAS			14	MMS				

CAPE KENNEDY

28.40 279.40 CC 929

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958	A	AAA	AAA	AAA	A	ABA	AAA	AAA	X	A	AAA	AAA	AAA	A	AAA	AAA	AAA	13	T	TTT	TTT	TTT
1959	AAA	AAA	AAA	AAA	AAA	BAA	AAA	AAA	X	BS								13				
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X									7				
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAB	AAB	X									7				
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X									7				
1963	BBA	AAA	AAA	AAA	BBA	AAA	AAA	AAA	X									7				
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	B	AAA	AAA	AAA					8	AAA	AAA	AAA	
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA					8	MMM	MM	MMM	MM
1966	AAA	AAA	AAA	BBB	AAA	AAA	ABB	B	X	AAA	AAA	ABB	B					8				
1967	BBB	BS																	S			

CAPE CANAVERAL RENAMED CAPE KENNEDY MARCH 1964

CAPE SCHMIDT

68.90 179.50 CE 669

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1961	WWW	WWW	WWW	W W	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1962	W	WW			NAA	AAA	AAA	ANA	X					NAA	AAA	AAA	ANA	14				
1963								AA	X								AA	14				
1964					AA				X					AA				14	M			
1968					A	A	AAA	AAA	X					A	A	AAA	AAA	14	M	M	MMM	MMM
1969					AA	AAA	AAA	AAA	X					AA	AAA	AAA	AAA	14	MM	MMM	MMM	MMM
1970					AA				X					AA				14	MM			

CAPETOWN

-34.10 18.30 CT 13M

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														AAA	AAA	BBA	AAA	4				
1945														AAA	AAA	AAN	NAA	4				
1946																						
1947																						
1948																ANA	AAA	10				
1949														AAA	AAA	AAA	AAA	10				
1950														AAA	AAA	AAA	AAA	10				
1951														AAA	AAA	AAA	AAA	10				
1952														AAA	AAA	AAA	AAA	10				
1953														AAA	AAA	AAA	AAA	10				
1954														AAA	AAA	AAA	AAA	10				
1955														AAA	AAA	AAA	AAA	10				
1956														AAA	AAA	AAA	AAA	10				
1957							WWW	WWW	X					AAA	AAA	AAA	AAA	13				
1958							WWW	WWW	X					AAA	AAB	ABA	AAA	13				
1959		BA	AAB				WWW	W	X					AAA	BAA	AAA	AAA	13				
1960		BA	AAB											AAA	AAA	AAA	BAA	13				
1961		A	AA															13				
1962														AAA	A	B	NNB	10				
1963														AAA	AAA	ABA	AAA	10				
1964						WWW	WWW	BNN	NNN	X				AAA	AAA	ANN	NNN	10	MMM	MMM	M	
1965								WWW	WWW	X												
1967														BAA	ABA	ABN	AAA	8	MM	MM		
1968														AAA	AAA	ABA	BAA	13	MMM	MMM	MMM	MMM
1969						WWW	W	WW	W					AAA	AAA	AAA	AAA	13		M		MM
1970														AAA	AAB	AAA	AAA	13	MMM	MMM	MMM	MMM
1971														AAA	BAS			13	MMM	MMS		

REPLACED BY HERMANUS

CAPE YORK -11.0 142.40 07 51J

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1944					A	18	
1945					AAA AAA AAA AAA	20	

CAPE ZEVGARI 34.60 32.90 CV 135

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1964		AAA AA	X	A	AAA AAA AAA	12	MMM MMM MM
1965		BAA AAA AAA	X	AAA AAA AAA	AAA AAA AAA	12	MMM MMM MMM
1966		AAA AAA AAA ANA	X	AAA AAA AAA ANA	AAA AAA AAA ANA	12	MMM MMM MMM M M
1967		AAB AAB AB	X	AAB AAB AAA AAA	AAA AAA AAA AAA	12	MMM MMM MMM MMM
1968				A	A	12	
1970					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971					ANA AAA AAA AAA	12	M M MMM MMM MMM
1972					AAA AAA AAA A	13	MMM MMM MMM M

CASABLANCA 33.60 352.40 CA 033

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1951					A AAA	9	
1952					AAA AAA ANN AAA	9	
1953					AAA AAA AAA AAA	9	
1954					AAA AAA AAA AAA	9	
1955					AAA AAA ANA AAA	10	
1956					AAA AAA AAA AAA	10	
1957		WWW WWW	X		AAA AAA AAB AAA	12	
1958		WS	X		AS	12	

CASEY -66.28 110.53 CW 460

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1969					A AAA AAA AAA	11	M MMM MMM MMM
1970					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	12	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	12	TMM MMM MMM MMM
1976					S		S

REPLACED WILKES

CHICLAYO -06.80 280.20 CY 90P

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	BAA AAB	BAA AAB	X	BAA AAB	BAA AAB	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	BS	BS	X	BS	BS	13	S

REPLACED BY ILO

CHIMBOTE

-09.10 281.40 CM 90R

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957			AAA	AAA			AAA	AAA	X			AAA	AAA			AAA	AAA	13			TTT	TTT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	T	TTT
1959	AAA	AAS			AAA	AAS			X	AAA	AAS			AAA	AAS			13	TTT	TTS		

CHITA

52.0 113.5 CX 452

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946														MMM	MMM	MMM		2				
1956														M	M			7				
1957						W			X					M	MM	AAA	ABB	13				
1958														AAA	AAA	BAA	AAA	3				
1959					WWW	WWW	WWW	NWW	X					AAA	AAA	AAA	BAA	13				
1960					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	13				
1961					WWW	WWW	WWW	WWW	X					AAA	AAA	ABA	AAA	13				
1962					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	13				
1963					WNW	WS			X					BNA	AS			12				

CHRISTCHURCH

-43.60 172.80 GH 64L

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1942																AA	AAA	8				
1943														AAA	ANN	AAA	AAA	8				
1944														AAA	AAA	AAA	AAA	10				
1945														AAA	AAA	AAA	AAA	12				
1946														AAA	AAA	AAA	AAA	12				
1947														AAA	AAA	AAA	AAA	12				
1948														AAA	AAA	AAA	AAA	12				
1949														AAA	AAA	AAA	AAA	12				
1950														AAA	AAA	AAA	AAA	12				
1951														AAA	AAA	AAA	AAA	12				
1952														AAA	AAA	AAA	AAA	14				
1953														AAA	AAA	AAA	AAA	14				
1954														AAA	AAA	AAA	AAA	13				
1955														AAA	ANN	NBA	AAA	13				
1956														AAA	AAA	AAA	AAB	13				
1957			WWW	WWW			WWW	WWW	X					AAB	ABA	AAA	AAA	14				
1958		WW	WWW	WWW	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	14				
1959		WWW	W	WWW	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	13				
1960		WWW	WWW	WWW	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	13				
1961					WWW	WWW	WWW	WWW	X					AAA	BAA	AAA	AAA	13				
1962			BAA	ABA	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	13				
1963	B	A			WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	14				
1964					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965			A		WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1966					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	M		MMM	MMM
1968					WWW	WWW	WWW	WWW						BBB	AAA	BBB	AAA	14	MM	MMM	MMM	MMM
1969														AAA	AAA	AAA	AAA	14				
1970														BAA	AAA	BAA	AAA	11	MMM	MMM	MMM	MMM
1971														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1972														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1973														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1974														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1975														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1976														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1977														AAA	AAA	AAA	AAA	11				
1978														AAA	AAA	AAA	AAA	11				
1979														AAA	AAA	AAA	AAA	11				
1980																A	AAA	11				

CHRISTMAS IS

1.90 202.70 08 701

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					A	10	
1945	AAA AAA AAA				AAA AAA AAA AAA	11	
1946	A				AAA AAA S	11	

CHUNGKING

29.40 106.30 09 429

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					AA AAA	4	
1946					AAA AAA AAA AAA	11	
1947					AAA AAA AAA AAA	12	
1948					AAA AAA AAA AAA	12	
1949					AAA AAA AAA AS	12	

CHURCHILL

58.80 265.80 CH 958

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					AA AAA	13	
1944					AAA AAA AAA AAA	12	
1945					AAA AAA AAA AAA	13	
1946					AAA AAA AAA AAA	13	
1947					A A A AAA	15	
1948					AAA AAA AAA AAA	15	
1949					AAA AAA AAA	13	
1950					AAA AAA AAA AAA	14	
1951	A				AAA AAA AAA AAA	14	
1952					AAA AAA AAA AAA	13	
1953					AAA AAA AAA AAA	11	
1954					AAA AAA AAA AAA	11	
1955					AAA AAA AAA AAA	11	
1956					AAA AAA AAA AAA	9	
1957	AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1958	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1959	AAA AAA AAA AAA	AAA ABA AAA AAB			AAA AAA AAA AAA	10	
1960	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	
1961	AAA AAA AAA AAB	AAA AAA AAA AAB			AAA AAA AAA AAB	10	
1962	AAA AAA ABA AAA	AAA AAA ABA AAA			AAA AAA ABA AAA	11	
1963	BAB AAA AAA AAA	BAB AAA AAA AAA			AAB AAA AAA AAA	11	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1965	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1967	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1968	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1969	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1970	AAB AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT AAA AAA
1971	AAA AAA AAA ABA	AAA AAA AAA ABA	X		AAA AAA AAA AAA	12	AAA AAA AAA AAA
1972	AAA AAA AAB BAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	AAA AAA AAA AAA
1974	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	AAA AAA AAA AAA
1975	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	AAA AAA AAA AAA
1977	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	12	TT TTT TTT TTT
1978	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1979	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1980	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1981		AAA AAA A			AAA AAA AAA	12	TTT TT TT

CLYDE RIVER 70.50 291.40 CR J70

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1943																AAA	11					
1944																AAA AAA AAA AAA	20					
1945																AAA AAA AAA AA	18					
1946																AAA AAA AAA AAA	10					
1947																AAA AAA AAA AAA	10					
1948																AAA AAA AAA AAA	10					
1949																AAA AAA AA AAA	10					
1957		WW	WWA	WWW					AAA	X						AAA	8					
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	A		X						AAA AAA AAA A	8					

COCOA 28.20 279.40 10 928

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1952	AAA	AAS										AAA	AAS				11					

COCOS IS -12.20 96.80 CS 31K

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1961																BB	2	TT				
1962																BBB BAB BAA AAA	7	TTT TTT TTT TTT				
1963																AAA BNB BAA AAA	6	TTT T T TTT TTT				
1964																ANN BAA AAA AAA	11	T TTT TTT TTT				
1965																AAA AAB AAA AAA	11	TTT TTT TTT TTT				
1966																AAA AAA AAA ABA	5	TTT TTT TTT TTT				
1967																AAB AAA AAA AAA	5	TTT TTT TTT TTT				
1968																AAA AAA AAA AAA	5	TTT TTT TTT TTT				
1969																AAA AAA AAA AAA	7	TTT TTT TTT TTT				
1970																AAA AAA AAA AAA	7	TTT TTT TTT TTT				
1971																AAA AAA AAA AAA	7	TTT TTT TTT TTT				
1972																AAA AAA AAB BAA	7	TTT TTT TTT TTT				
1973																AAA AAA AAA AAA	6	TTT TTT TTT TTT				
1974																AAA AAA AAA S	6	TTT TTT TTT S				

COLLEGE 64.90 212.20 C0 764

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1941																AAA AAA	9					
1942	AAA	AAA	AAA	AA												AAA AAA AAA AAA	18					
1943	AAA	AAA	AAA	AAA												AAA AAA AAA AAA	18					
1944	AAA	AAA	AAA	AAA												AAA AAA AAA AAA	18					
1945	AAA	AAA	AAA	AA												AAA AAA AAA AAA	10					
1946	BAA	AAA	AA	AAA												AAA AAA AAA AAA	9					
1947	AAA	AAA	AA	AAA												AAA AAA AAA AAA	9					
1948	AAA	AAA	AAA	AAA												AAA AAA AAA AAA	9					
1949	AA	AAA	AAA	AAA												AAA AAA AAA AAA	9					
1950	AA	AAA	AAA	AAA												AAA AAA AAA AAA	9					
1951	AAA	AAA	AAA	AAA							AA	AAA	AUA	AAA		A A A A	13					
1952	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA		AAA AAA AAA AAA	13					
1953	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA		A A A AAA	13					
1954	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA		AAA AAA AAA AAA	13					
1955	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA		AAA AAA AAA AAA	13					
1956	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA		AAA AAA AAA AAA	8					
1957	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA		AAA AAA	13	TTT TTT TTT TTT				
1958	AAB	AAB	AAA	AAA							X	AAB	AAA	AAA	AAB	AAA AAA AAA AAA	13	TT TTT TTT TTT				
1959	AAA	AAA	AAA	AAA							X	AAA	AAA	ABB	AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT				
1960	AAA	AAA	AAA	AAB							X	AAA	AAB	AAA	AAA	AAA AAA AAA AAA	7	TTT TTT TTT TTT				
1961	AAA	AAA	AAA	AAA							X	AAA	AAA	ABA	AAA	AAA AAA AAA AAA	7	TTT TTT TTT TTT				
1962	AAA	AAA	AAA	AAA							X	AAA	AAA	AAA	AAA	AAA AAA AAA AAA	13	TT TTT TTT TTT				
1963	AAA	AAA	AAA	ANA							X	AAA	AAA	BUU	UNA	AAA AAA B NA	7					

COLLEGE (CONTINUED)

64.90 212.20 CO 764

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1964	AAA AAA AAA AAA	ABA AAA BAA BAA	X	ABA AAA BAA ABA	AAA AAA BAA AAA	10	AAA AAA AAA AAA
1965	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1967	AAA AAA AAA AAA	AAA AAA ABA AAA		AAA AAA ABA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1968	AAA AAA AAA AAA						
1969	AAA AAA BNB AAB						
1970	BBB BAA AAA AAA						
1971	AAA AAA AAA AAA			AA A		13	AA A
1972	AAA AAA AAA AAA			A AAA		8	
1973	AAA BAA BBN NBB			AAA BAA		8	
1974	A A ABB BAA AAA						
1975	AAA AAA AAA AAA						
1976	AAA AAA AAA A						
1977	AAA AAA AAA AAA						
1978	AAA UUA AAA AAA						
1979	AAA AAA AAA AA						

COLOMBO

6.90 79.87 11 306

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1945					A AAA AA	6	
1946					A AAA	3	

CONCEPCION

-36.60 287.00 CP J30

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	AAA	BAA	X	BAA	AA	13	TTT
1958	BBA AAN BAA AAA	BBA AAA AAA ABA	X	BBA AAA AAA ABA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAB	BBB BBA AAA AAA	X	BBB BAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1960	AAA BAA AAA AAA	AAA AAA AAA ABA	X	AAA AAA AAA ABA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1961	AAA AAA AAA AAA	BAA BAB BAA AAA	X	BAA BAB BAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TT
1962	AAA AAA AAA AAA	AA B	X	AA B	AA B	11	TT
1963	AAA AAA AAA AAA	AAB ABA ABB AAA	X	AAB ABA ABB AAA	AAA AAA AAA AAA	10	AAA AAA AAA AAA
1964	AAA AAA AAB BAA	AAA AAB AAB BAA	X	AAA AAB AAB BAA	AAA AAA AAA BAA	10	AAA AAA AAA AAA
1965	AAA ABN AAA AAA	BAA ABN BBA BAA	X	BAA ABN BBA BAA	AAA AAN AAA AAA	10	TTT T
1966	AAA AAB AAA AAA	ABA ABB AAA AAA	X	ABA ABB AAA AAA	AAA AAB AA A	10	MMM MMM MMA AAA
1967	AAA AAA AAA AAA	AAA ABB BBB		AAA AAA AAA	A AAA AAA AAA	10	AAA AAA AAC
1968	AAA AAA AAA AAA			ABA AAA AAB AAA	AAA AAA AAA AAA	12	AAA AAA A A AAA
1969	AAA AAA AAA AAA	AAA ABA AAA ABA	X	AAA ABA AAA ABA	AAA AAA AAA AAA	15	CA AAA ACC CCC
1970	AAA AAA AAA AAA	AAA AAB AAA AAA	X	AAA AAB AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1971	AAA AAA AAA AAA	AAA ABA AAA AAB	X	AAA ABA AAA AAB	AAA AAA AAA AAA	16	AAA AAA AAA AAA
1972	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA A A	16	AAA AAA AAA AAA
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	AAA AAA AAA A
1974	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	AAA
1975	AAA AAA AAN NNA	AAA AAA AB A		AAA AAA AB A			AAA A
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1977	AAA AAA AAA AAA	A A AAA AAA AAA		AAA AAA AAA AAA			C C
1978	AAA AAA AAA AAA	AAA AAA AAA AAA		A A AAA AAA AAA			A A
1979	AAA AAA A	AAA AAA AAA AAA		AAA AAA AAA AAA		15	

CUBA

23.00 278.00 CD

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1964	AA AAA	AA AAA	X		AA AAA	4	MM MM
1965	AAA AAA AAN AAA	AAA AAA AA	X		AAA BAA AB	11	M M MMM MMM
1966	AAA AAN AAA AAB						
1968	AAA W W AAA WWW	AAA	X		AAA ABA AAA	12	MMM MMM MM
1969	W	AA			AA	12	MM

DAIREN

39.0 121.60 12 439

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1944							
1945					BB	B	

DAKAR

14.70 342.58 DK A14

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1949							
1950					AB AAA AAA	11	
1951					AAA AAA AAA AAA	13	
1952					AAA AAA AAA AAA	20	
1953					AAA AAA AAA AAA	23	
1954					AAA AAA AAA AAA	28	
1955							
1956					AAA AAA AAA AAA	12	
1957					AAA AAA AAA AAA	12	
1958		WW	W WW	X	AAA ABA AAA AAA	12	
1959				X	AAA AAA AAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961	B ABB B				AAA AAA AAA AAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					AAA AAA AAA AAA	12	
1965	B B				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966		A			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1969		AB			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1970	B				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1973					AAA AAA NAA AAA	14	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1977					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1978					AAA ABA NA A	14	TTT TTT TTT TTT
1979					BA AAA AAA	14	
1980					ABN BAA A A AAA	14	

DE BILT

52.10 5.20 DT 053

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1949							
1950					AA	9	
1951					AAN AAA NAA AAA	11	
1952					NAA AAA AAA AAA	13	
1953					AAA AAA AAA AAA	13	
1954					AA AAA AAA AAA	13	
1955					AAA AAA AAA AAA	12	
1956					AAA AAA AAA AAA	16	
1957					AAA AAA AAA AAA	15	
1958					AAA AAA AAA AAA	14	
1959					AAA AAA AAA AAA	17	
1960					AAA AAA AAA AAA	17	
1961					AAA AAA AAA AAA	16	
1962					AAA AAA AAA AAA	16	
1963					AAA AAA AAA AAA	16	
1964		AAA AAA AAA AAA	X		AAA AAA AAA AAA	16	MMM MMM MMM MMM
1965		AAA AAA AAA AAA	X		AAA AAA AAA AAA	16	MMM MMM MMM MMM
1966		AAA AAA AAA AAA	X		AAA AAA AAA AAA	16	MMM MMM MMM MMM
1967					AAN NNN NNN NAA	16	M
1968		W			ABA AAA ABA AAA	16	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	16	MMM MMM MMM

DE BILT (CONTINUED) 52.10 5.20 DT 053

YEAR	IONOGRAMS				M	WORKSHEETS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1970										16	MMM	MMM	MMM	MMM
1971										16	MMM	MMM	MMM	MMM
1972										18	MMM	MMM	MMM	MMM
1973										18	MMM	MMM	MMM	MMM
1974										18	MMM	MMM	MMM	MMM
1975										18	MMM	MM	M	MM
1976										18				
1977										18				
1978										18				
1979										18				
1980										18				
1981										18				

DECEPCION -63.0 299.30 DE J6L

YEAR	IONOGRAMS				M	WORKSHEETS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1951														
1952										6				
1953										4				
1954										5				
1955										7				
1956														
1957						AAA	A			12				
1958						BBB	BBA	BAA	ABB	12				
1962										13				
1963										13				

DELHI 28.60 77.16 DH 328

YEAR	IONOGRAMS				M	WORKSHEETS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1942										1				
1943										1				
1944										1				
1945										3				
1946										9				
1947										3				
1948										3				
1949										3				
1950										3				
1951										3				
1952										3				
1953										3				
1954										3				
1955										4				
1956										3				
1957										3				
1958										7				
1959										7				
1960										7				
1961										7				
1962										7				
1963										11				
1964						ABB	BBA	AAB	ABA	12	MMM	MMM	MMM	MMM
1965										12	MMM	MMM	MMM	MMM
1966										12	MMM	MMM	MMM	MMM
1967										12	M	MMM	MMM	MMM
1968										12	MMM	MMM	MMM	MMM
1969										12	MMM	MMM	MMM	MMM
1970										12	MMM	MMM	MMM	MMM
1971										12	MMM	MM	M	M
1972										12	MMM	MMM	MMM	MM
1973										12	MMM	MM		
1974										12	MMM	M		

DELHI (CONTINUED)

28.60 77.16 DH 328

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1975					AAA AAA AAA AAA	12	
1976					AAA AAA AAA AAA	12	
1977					AAA AAA AAA AAA	12	
1978					ABB A AAA AAA	12	
1979					AAA AAA A AAA	5	
1980					AAA AAA AA A	5	

DIXON

73.50 80.40 DI 373

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957		AAA AAA	X		AAA AAA	12	
1958	WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA BAA AAA	13	
1959	WWW WWW WWW WWW	ABA AAA NAA AAA	X		ABA AAA NAA AAA	13	
1960	WWW WWW WWW WWW	AAA AAA AAA NBA	X		AAA AAA AAA NBA	13	
1961	WWW WWW WWW NNN	ABA AAA AAA NNN	X		ABA AAA AAA NNN	13	
1962	NNN NNN NNN NNN	NNN NNN NNN NNN			NNN NNN NNN NNN		
1963	WWW WWW WWW WWW	NAA AAA AAA AAA	X		NAA AAA AAA AAA	13	
1964	WWW W W WWW NW	AAA AAA AAA ANA	X		AAA AAA AAA ANA	13	M M MMM MM M M
1965	WWW WW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	M M MMM MM MMM
1966	WWN WWW WWW WWW	AAA BBA ABA AAA	X		AAA BBA ABA AAA	13	MMM MMM MMM MMM
1967	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1968	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM M M M M
1969	WWW WWW WWW W	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM M M M M
1970	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1971	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1972	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1973	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1974	WWW WWW W W WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1975	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1976	WWW WWW WWW WWW						

DJIBOUTI

11.50 42.80 DJ 111

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951					AAA	19	
1952					AA AAA AAA AAA	22	
1953					AAA AAA AAA AAA	22	
1954					AAA AAA AAA A A	1	
1955					AAA B A BBA A A	1	
1956					AAA AAA AAA A	12	
1957		WW W	X		AAA AAA AAA AAA	12	
1958					AAA AAN NNA AAA	12	
1959					AAA AAA AAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA AAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAN	12	
1964					BAA AAA AAA AAA	12	MMM MMM MMM MMM
1965	B B				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966	A				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972					AAA AAB AAB AAA	14	TTT TTT TTT TTT
1973					AAB AAA AAA AAA	14	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	14	AAA AAA AAA AAA
1975					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1977					AAA AAA AAA BAA	14	TTT TTT TTT TTT
1978					AAA AAA AAA AAA	14	
1979					AAA AAA AA A	14	

DJIBOUTI (CONTINUED) 11.50 42.80 DJ 111

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1980					AAA AAA AAA AAA	14	

DOMONT 49.00 2.30 13 062

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1950					AAA AAA AAA	9	
1951					AAA AAA AAA AAA	9	
1952					AAA S	4	

REPLACED BAGNEUX

DOURBES 50.10 4.60 DB 049

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957					AAA AAA	15	
1958					AAA AAA AAA AAA	16	
1959					AAA AAA AAA AAA	16	
1960					AAA BAA AAA AAA	16	
1961					AAA AAA AAA AAA	16	
1962					AAA AAA AAA AAA	16	
1963					AAA AAA AAA AAA	16	
1964					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1967					AAA AAA ABA AAA	15	MM M MM
1968					AAA AAA AAA AAA	15	MMM MMM MMM M
1969					AAA BAA AAA AAA	15	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1973					AAA AAB AAA AAA	16	MMM MMM MMM MMM
1974					AAA AAA AAA AA	16	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1976					AAA AA AAA AAA	16	
1977					AAA AAA AAA AAA	16	
1978					AAA AAA AAA AAA	16	
1979					AAA AAA AAA AAA	16	
1980					AAA AAA AAA AAA	16	

DUSHANBE 38.57 68.78 DS 238

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1971			X	B	MMM MMM MMM MMM	8	

EGLIN AFB 30.38 273.30 EG 930

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1964	B B BB						
1965	B						
1966	B						
1967	B						
1969	AS						

INTERMITTENT OPERATION

EIGHTS -75.23 282.84 EI 97N

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1961	B	B		B			
1962		AB		A			
1964	AA						
1965	BAA AAA AAA AB	B AAA AAB S		S			

ELIZABETHVILLE -11.60 27.50 EZ 11J

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1955					A AAA AAA AAA	20	
1956					AAA AAA AAA AAA	20	
1957					MMM MMM AAA AAA	21	
1958					AAA AAA AAA AAA	21	
1959					AAA AAA AAA AAA		
1960					AAA AAA S		

ELLSWORTH -77.72 318.90 EL A7P

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	BA BAA AAA	BAA AAA	X	BAA AAA	AAA AAA	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959		A NBA AAA AAA			AAA NAA AAA AAA	13	
1960		AAA AAA			AAA AAA AAA AAA	13	
1961	AAA AAA AAA AAA				AAA BAA AAA AAA	13	
1962	AAA AAA AAA AAS	BAA AAS			AAA NNN BAA AAS	13	S

ERIE 40.01 254.70 ER 842

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1970	BB BBB BBB						
1971	BB BBB BB BBB						
1972	BBB BBB BBB BBB						
1973	BB BBB						

INTERMITTENT OPERATION

EUREKA 80.0 274.10 EU 980

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	AAA AWW	B AAA		B AAA	B AAA	8	
1958	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	8	
1959		AS		AS	AS	4	

FIJI -18.00 178.20 14 61Q

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1946					AAA ABA BB	11	
1947					ABB AAA AAA AB	11	
1948					ANA S	11	

FLETCHERS ICE

75.90 235.70 XC 982

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957			AAA	AAA			AAA	AAA	X			AAA	AAA			AAA	AAA	13			TTT	TTT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1959	S				S					S				S					S			

DRIFTING STATION

FORTALEZA

-3.75 321.20 FZ AOM

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1975			AB	BAA								AAA	AAA									
1976	AAA	AAA	AAA	BAA																		
1977	AAA	A																				

FORT ARCHAMBAULT

09.20 18.35 FA 109

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1969														BAB	NAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1970														AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1971														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1972														AAA	ABA	BBA	AAB	14	TTT	TTT	TTT	TTT
1973														BAA	AAA	AA		14	TTT	TTT	TTT	
1974														S					S			

FORT CHIMO

58.10 291.60 FC J58

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1949			BA	AAA										A	A	AAA	AAA	13				
1950	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	13				
1951	AA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	13				
1952														AAA	AAA	AAA	AAA	12				
1953														AAA	AAA	AAA	AAA	10				
1954														AAA	AAA			10				
1957			W	W																		
1958	WWA	AAA	AAA	AAA	A	AAA	BNB	BAB		A	AAB	NB	BAA			A	AA	8				
1959	S				S					S				S								

FORT MONMOUTH

40.40 285.90 FM J40

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1950				A																		
1951	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1952	NAA	AAA	AAA	AAA						NAA	BAA	AAA	AAA	NAA	AAA	AAA	AAA	12				
1953	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1956	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	10				
1957	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1958	AAA	AAA	AAA	AAA	BAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAB	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1961	AAA	AAA	NNB	AAA	AAA	AAA	NNB	AAA	X	AAA	AAA	NNB	AAA	AAA	AAA	NNN	AAA	13	TTT	TTT		TTT
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	AAA	AAA	BAA	AAA	X	AAA	AAA	BAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT

FORT MONMOUTH (CONTINUED) 40.40 285.90 FM J40

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1966	S				S					S				S					S			

FORT NORMAN 64.90 234.50 FN 864

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957			AW	W			A	A				A				A			8			
1958			AAA																			

FRASERBURGH 57.60 357.90 15 065

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1948														A	AAA	AAA	AAA		4			
1949														AAA	AAA	AAA	AAA		4			
1950														AAA	AAA	AAA	AAA		4			
1951														AAA	AAA	AAB	S		4			

REPLACED BY INVERNESS

FREIBURG 48.10 07.60 FR 048

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL				
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	
1946															AAA	AAA		16					
1947															AAA	AAA	AAA	AAA	15				
1948															AAA	AAA	AAA	AAA	14				
1949															AAA	AAA	AAA	AAA	14				
1950															AAA	AAA	AAA	AAA	14				
1951															AAA	AAA	ANA	AAA	18				
1952															AAA	AAA	AAA	AAA	20				
1953															AAA	AAA	AAA	AAA	26				
1954															AAA	AAA	AAA	AAA	22				
1955															AAA	AAA	AAA	AAA	22				
1956															AAA	AAA	AAA	AAA	19				
1957			W	WWW	WWW			WWW	WW						AAA	AAA	AAA	AAA	19				
1958			WWW	WWW	WWW	WWW									AAA	AAA	AAA	AAA	18				
1959															AAA	AAA	AAA	ABA	18				
1960															AAA	AAA	AAA	AAA	18				
1961															AAA	AAA	AAA	AAA	18				
1962															AAA	AAA	AAA	AAA	18				
1963															AAA	AAA	AAA	AAB	18				
1964		B	B												AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1965															AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1966															AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1967															AAA	AAA	AAA	AAA	18	MM		M	
1968															AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	M M
1969															AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1970															AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1971				B											AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1972															AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1973															AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1974															AAA	AAA	AAA	AAA	18	MMM	MMM		
1975															AAA	AAA	AAA	AAA	18	MM	MMM	MMM	MMM
1976															AAA	AAA	AAA	AAA	18				
1977	S				S					S				S						S			

FROBISHER BAY 63.80 291.40 FB J63

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	W WW	B BA		B BA	B BA	8	
1958	AAA A A AAA	B BNA BAA		B BNA BAA	A BNA BAA	8	
1959		AS		AS	AS	6	

FUKAURA 40.60 139.90 16 541

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1947					B BBB AAA AAA	8	
1948					AAA AAA AAA AAA	9	
1949					AAA AAA AAA AAS	9	

GARCHY 47.30 03.1 GY 042

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1959		WWW	X		AAA	6	
1960					AAA AAA AAA NNN	12	
1961		WW WWW	X		AAA AAA AAA AAA	12	
1962		WWW	X		AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA AAA AAB BBA	12	MMM MMM
1968					AAB BAA AAB BBB	12	MMM MMM MMM MMM
1969					ABB BAB AA BAA	12	MMM MM
1970					ABA AAA AAA BAA	12	MMM MMM MMM MMM
1971					AAA BBA ABA BAA	14	
1972					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	14	MMM MMM MMM MMM

GENOVA 44.60 09.00 GV 044

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1956					AA AAA AAA	2	
1957					AAA AAA AAA AAA	2	
1958					AAA AAA AAA AAA	3	
1959					AAA AAA AAA AAA	3	
1960					AAA AAA AAA AAA	5	
1961					AAA AAA AAA AAA	5	
1962					AAA AAA AAA AAA	5	
1963					NNN BAA AAA AAA	5	
1964					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	5	MM MMM MMM MMM
1970					BBA AAA AAA AAA	5	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1972					BBA AAA AAA AAA	5	MMM MMM MMM MMM
1973					AAA AAA AAA AAB	5	MMM MMM MMM MMM
1975					S		S

CLOSED, 1975

GIBILMANNA

37.59 14.01 GM 037

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1977					A AAA AA	16	
1978					AA AAA AAA AAB	16	
1979					BAA AAA AAA A A	16	
1980					B	16	

GODHAVN

69.30 306.50 GO J69

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951	AA			AA	AA	5	
1952	AAA AAA BNA AAA			AAA AAA ANA AAA	AAA AAA ANA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA ABN NNA			AAA AAA ABN NNA	AAA AAA ABN NNA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1956	AAA AAA AAB NAA	A A AA		AAA AAA AAA AA	AAA AAA AAB NAA	8	
1957	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA	11	TT TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	10	TTT TTT TTT TTT
1959	AAA AAA AAA BNN	AAA AAA AAA BNN	X	AAA AAA AAA BNN	AAA AAA AAA BNN	11	TTT TTT TTT T
1960	BAA AAA AAA AAA	BAA AAA AAA AAA	X	BAA AAA AAA AAA	BAA AAA AAA AAA	11	TT TTT TTT TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT
1962	AAA AAA AAA AAB	AAA AAA AAA AAB	X	AAA AAA AAA AAB	AAA AAA AAA AAB	11	TTT TTT TTT TTT
1963	ANB AAA AAA ABB	ANB AAA AAA ABB	X	ANB AAA AAA ABB	ANB AAA AAA ABB	11	
1964	UAA AAA AAA AAA	UAA AAA BBB AAA	X	UAA AAA BBB AAA	UAA AAA BBB AAA	6	AAA AAA AAA AAA
1965	AAA AAA AAA ABA	AAA AAA AAA ABA	X	AAA AAA AAA ABA	AAA AAA AAA AAA	6	TTT TTT TTT TTT
1966	BAB AAA AAA AAA	BAB AAA AAA AAA	X	BAB AAA AAA AAA	AAA AAA AAA AAA	6	MMM MMM MMM MMM
1967	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	6	CCC CCC CCC CCC
1968	AAA AAA ABA AAA	AAA AAA ABA AAA	X	AAA AAA ABA AAA	AAA AAA AAA AAA	6	AAA AAA AAA AAA
1969	AAA AAA AAA AAA	AAA ABA AAA AAA	X	AAA ABA AAA AAA	AAA AAA AAA AAA	6	AAA AAA AAA AAA
1970	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	7	AAA AAA AAA AAA
1971	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	7	AAA AAA AAA AAA
1972	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	17	AAA AAA AAA AAA
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	18	AAA AAA AAA AAA
1974	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA	16	AAA AAA
1975	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AA	12	AAA AAA AAA
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1977	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1978	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		15	A A
1979	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		15	
1980	AAA AAA A	AAA AAA AAA AAA	X	AAA AAA AAA AAA		15	
1981		AAA AAN NNN N	X	AAA AAN NNN N		15	

GOOSE BAY

54.30 299.67 GS J53

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1972					AA AAA AAA	17	MMM MMM MMM
1973					AAA AAA AAA AAA	17	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	17	MMM MMM MMM MM
1975					AA AAA AAA AAA	16	
1976					AAA AAA AAA AAA	16	
1977					AAA AA	16	
1978					A AAA AA	17	
1979						17	
1980					AAA AA A	17	
1981					AA	17	

GORKY

56.15 44.28 GK 156

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	A AAA AAA AAA	A AAA AAA AAA			A AAA AAA AAA	14	
1959	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	3	

GORKY (CONTINUED)

56.15 44.28 GK 156

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1960	WWW WWW WNW WWW	ABA ANA AAA	X	ABA ANA AAA	ABA ANA AAA	14	
1961	WWW WWW WWW WWW	ABA AAA BBA AAA	X	ABA AAA BBA AAA	AAA AAA BBA AAA	14	
1962	WWW WWW WWW WWW	AAA BBB AAB BBA	X	AAA BBB AAB BBA	AAA BBB AAB BBA	14	
1963	WWW WWW WNW WWW	BBA AAA BBA AAA	X	BBA AAA BBA AAA	BBA AAA BBA AAA	14	
1964	WWW WWW WWW WWW	AAA AAA BBA ABA	X	AAA AAA BBA ABS	AAA AAA BBA AAA	14	MMM MMM MMM MMM
1965	WWW WWW WWW WWW	AAB BBA AAA BAA	X		AAB BBA AAA BAA	14	MMM MMM MMM MMM
1966	WWW WWW WWW WWW	AAA ABA AAA AAA	X		AAA ABA AAA AAA	14	MMM MMM MMM MMM
1967	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1968	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1969	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	9	MMM MMM MMM MMM
1972	WWW WWW WWW WWW	AAA AAA BBA AAA	X		AAA AAA BBA AAA	9	MMM MMM MMM MMM
1973	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	9	MMM MMM MMM MMM
1974	W WWW WWW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	9	MM MMM MMM MM
1975	WWW WWW WWW WWW	AAA AAA AAA AA	X		AAA AAA AAA AA	9	
1976	WWW WW WWW WWW	AAA AA	X		AAA AAA ABB	10	
1977	W WWW WWW WWW	BA AAA AAA AAA	X		BAA AAA AAA AAA	10	
1978	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	10	
1979	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	10	
1980	WWW	AAA AAA AA AA	X		AAA AAA AAA AA	10	

GRAHAMSTOWN

-33.30 26.50 GR 13L

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1958					B BBA AAA AAA	6	
1959					AS	6	
1965					NAB NAA AAA AAB	10	MM MM MMM MMM
1972					AAA AAB	13	MMM MMM
1973					AAA AAA AAA A	13	
1976					AAA A AAA	13	
1977					AAA AAA AAA AAA	13	

GRAND BAHAMA

26.60 281.80 GB 926

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	AAA AAA	AAA AAA	X	AAA AAA	A AAA AAA	15	T TTT TT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	15	TTT TTT TTT TTT
1959	AAA AAA AAA B	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	15	TTT TTT TTT TTT
1960	AAA AAA AAA AAU	AAA AAA AAA AAU	X	AAA AAA AAA AAU	AAA AAA AAA AAU	15	TTT TTT TTT TT
1961	UUA AAB UUU AAA	UUA ABA UUU AAA	X	UUA ABA UUU AAA	A ABA AAA	15	T TTT TTT
1962	AAA AAA UAA AAA	AAA AAA UAA AAA	X	AAA AAA UAA AAA	AAA AAA AA AAA	15	TTT TTT TT TTT
1963	AAB AAA AAA AAA	AAB AAA AAA AAA	X	AAB AAA AAA AAA	AAA AAA AAA AAA	15	AAA AAA AAA AAA
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	15	AAA AAA AAA AAA
1965	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	15	AAA AAA AAA AAA
1966	AAA AAA ABA BBA	AAA AAA ABA BBA	X	AAA AAA ABA BBA	AAA AAA AAA AAA	15	AAA AAA AAA AAA
1967	AAA ABA AAA ABB	AAA ABA AAA ABB	X	AAA ABA AAA ABB	AAA AAA AAA A	15	AAA AAA AAA AAA
1968	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA	15	AAA AAA AAA AAA
1969	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA		15	AAA AAA AAA AAA
1970	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA		18	AAA AAA AAA AAA
1971	AAA AAB S	AAA AAB S		AAA AAB S	AAA AAA S	18	AAA AAA S

GRAZ

47.10 15.50 GZ 146

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1947					AA AAA	5	
1948					AAA AAA ANA AAA	4	
1949					AAA AAA AA A	5	
1951					AAA AAA AAA AAA	2	

GRAZ (CONTINUED)

47.10 15.50 GZ 146

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1952										AAA	AAA	AAA	AAA	2				
1953										AAA	AAA	AAA	AAA	2				
1954										AAA	AAA	AAA	AAA	2				
1955										AAA	AAA	AAA	AAA	2				
1956										AAA	AAA	AAA	AAA	2				
1957										AAA	AAA	AAA	AAA	2				
1958										AAA	AAA	AAA	AAA	1				
1959										AAA	AAA	AAA	AAA	2				
1960										AAA	AAA	AAA	AAA	2				
1961										AAA	AAA	AAA	AAA	2				
1962										AAA	AAA	AAA	AAA	2				
1963										AAA	AAA	AAA	AAA	2				
1964										AAA	AAA	AAA	AAA	2				
1965										AAA	AAA	AAA	AAA	1				
1966										AAA	AAA	AAA	AAA	1				
1967										AAA	AAA	AAA	AAA	1				
1968										AAA	AAA	AAA	AAA	1				
1969										AAA	BAA	AAA	AAA	1				
1970										AAA	AAA	AAA	AAA	1				
1971										AAA	AAA	AAA	AAA	1				
1972										AAA	AAA	AAA	AAA	1	MMM	MMM	MMM	MMM
1973										AA	AAA	AAA	AAA	1				
1974										AAA	AAA	AA	AAA	1				
1975										AAA	AAA	AAA	AAA	1			MMM	MMM
1976										A	A	AAA	AAA	1				
1977										AAA	AAA	AAA	AAA	1				
1978										AAA	AAA	AAA	AAA	1				
1979										AAA	AAA	AAA	AAA	1				
1980										AAA	AAA	AAA	AAA	1				
1981										A	A			1				

GUAM

13.50 144.87 17 513

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944													B	7				
1945	BNN	NNN	NNN	NNA						BNN	NNN	NNN	NNA	7				
1946	AA									AAA	AAA	NAA	NNN	9				
1947	NNA	AAA	AAA	AAA						NNA	AAA	AAA	AAA	12				
1948	AAA	AAA	BA	AB						AAB	AAA	AAA	ABB	12				
1949	NNN	AAA	AAA	AAA		NNN	NAA	AAA	AAA	NNN	NAA	AAA	AAA	12				
1950	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1951	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1952	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1953	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1956	AAA	AS				AAA	AS			AAA	AS			10				

HAIFA

32.82 34.98 HA 132

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1960		B	B						B BBB									
1961						BBB	BBB	BB										

HAINAN IS

18.30 109.30 18 419

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1942												B	BBB BBB	2				
1943										BBB	BBB	S		2				

HALLEY BAY

-75.50 333.40 HB A7N

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957			WWW	WWW			AAA	AAA							AAA	AAA		14				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1959	NNN	NNN	NNN	NNN	NNN	NNN	NNN	NNN						NNN	NNN	NNN	NNN	14				
1960														NNN	NNA	AAA	AAA	14				
1961														AAA	AAA	AAA	AAA	14				
1962			A			B	AAA	AAA	AAA					A	A	AAA	AAA	14				
1963					ABA	AAB	AAA	AAA						ABA	AAB	AAA	AAA	14				
1964					AAN	AAA	AAA	AAA						AAN	AAA	AAA	AAA	15	MM	MMM	MMM	MMM
1965					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	15	MMM	MMM	MMM	MMM
1966					AAB	AAA	AAA	AAA						AAB	AAA	AAA	AAA	15	MMM	M	MMM	MMM
1967					BAA	AAA	AAA	ANN						BAA	AAA	AAA	ANN	13	MMM	MMM	MMM	M
1968					NNN	NAA	AAB	A A						NNN	NAA	AAA	AAA	13		MM	MMM	MMM
1969					AAB	AAA	AAA	BAA						AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1970					AAA	B	AAA	AAA	A					AAA	AAA	AAA	AAA	14	MM	MMM	MMM	MMM
1971					AAA	AAA	AAA	AA						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1972					AAA	AAA	AA	AAA						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1973														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1974														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1975														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1976														AAA	AAA	AAA	AAA	14				
1977														AAA	AAA	AAA	AAA	14				
1978														AAA	AAA		A	14				

HANKOW

30.70 114.30 19 432

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1941															B	NBB		2				
1943														BBB	BBB	BBB	BBB	8				
1944														BBB	MMM	MMB	BMM	3				

HANOVER

43.70 287.80 HN J44

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1968				QQQ																		
1969	QQQ	QQQ	QQQ	QQQ																		
1970	BBB	QQQ	QQQ	QQQ																		
1971	QQQ	Q	QQQ	QQQ																		
1972	QQQ	QQQ	Q																			

HEISS IS

80.60 58.00 BT 280

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1938														M	MMM	MMM	MMM	6				
1939														MMM	MMM	MMM	MMM	6				
1940														MMM	MMM	MMM	MMM	6				
1941														MMM	MMM	MM		6				
1942																						
1943														MM	MMM	MMM	MMM	6				
1944														MMM	MMM	MMM	MM	4				
1945														MMM	MMM	MMM	MM	4				
1946														MMM	MMM	MMM	M M	2				
1957			WW	WWW			AAA	AAA	X						AAA	AAA		12				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAW	WWW	X					AAA	AAA	AAA	AAA	12				
1959	WWW	WWW	WWW	WWW	WWW	WWW	NWW	WAA	X					AAA	AAA	NAA	AAA	12				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAB	X					AAA	ABA	AAA	AAA	13				
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1964	WWW	WWW	WNW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	M	M	MMM	MM

HEISS IS (CONTINUED) 80.60 58.00 BT 280

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1965	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	M M MMM M MMM
1966		AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967	WWW WWW WW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1968	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	M M MM MMM M M
1969	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MM MMM MMM
1970	WWW WWW WWW WWW	AAA NAA AAA AAA	X		AAA NAA AAA AAA	13	MMM MM MMM MMM
1971	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1972	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AA AAA AAA AAA	14	MM MMM
1973	WWW WWW WWW WWW				AAA AAA AAA AAA	14	
1974	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1975	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1976	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1977	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	

HE HERMANUS -34.42 19.23 HE 13M

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1971					BNA AAA	13	M M MMM
1972					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	13	
1977					AAB NNN NNN NNN	13	
1978					NNN NNN NNN NNN		
1979					NNN NNN NNN NNN		
1980					NNN NNN NNN NNN		
1981							

HIRAISO 36.4 140.6 20 536

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1936					B BBB BBB	1	
1937					BBB BBB BBB BBB	1	
1938					BBB BBB BBB BBB	1	
1940					NNN NBB BNN NNN	1	
1941					BNB BBB BNN NNN	1	
1942					NNB BBN NNB BBN	1	
1943					NNN NNN NBB BBB	6	
1944					BBN BBB BBB BBB	9	
1945					BBB BBB MN BBB	4	
1946					BBB MN	6	

HIRATSUKA 35.3 139.3 21 533

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1940					B	3	
1941					BBB BBB BBB BBB	3	
1942					BBB BBB BBB BBB	3	
1943					BBB BBB BBB BBB	3	
1944					BBB BBB BBB BBB	3	
1945					BBB BS	3	

HOBART

-42.90 147.30 HO 54K

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945													A	18				
1946										AAA	AAA	AAA	AAA	18				
1947										AAA	AAA	AAA	AAA	17				
1948										AAA	AAA	AAA	AAA	15				
1949										AAA	AAA	AAA	AAA	8				
1950										AAA	AAA	AAA	AAA	9				
1951										AAA	AAA	AAA	AAA	11				
1952										AAA	AAA	ABA	AAA	11				
1953										AAA	AAA	AAA	AAA	11				
1954										AAA	AAA	AAA	AAA	10			T	
1955										AAA	AAA	AAA	AAA	10				
1956																		
1957				WW					WWW	WWW				13	AAA	AAA	AAA	AAA
1958	WWW	WWW	WWW	W		WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	ATT
1959						WWW				AAB	S			8	TTT			
1961										AAA	AAA	AAA		3		TTT	TTT	TTT
1962				AAA						AAA	AAA	BBA	BAB	3	TTT	TTT	TTT	TTT
1963	AAA	AAA								BBB	AAA	AAB	AAA	3	TTT	TTT	TTT	TTT
1964										AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1965										ABB	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1966										AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1967				A						ABA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1968										AAA	AAA	ABA	AAA	5	TTT	TTT	TTT	TTT
1969										AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1970										AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1971										AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1972										AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1973										AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1974										AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1975										AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1976										AAA	AAA	AAA	AAA	12				
1977										AAA	AAA	AAA	AAA	12				
1978										AAA	AAA	AAA	AAA	12				
1979										AAA	AAA	AAA	AAA	13				
1980										AAA	AAA	AAA	AA	13				
1981										AAA	AAA			13				

HOLLANDIA

- 2.50 140.80 HL 50K

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945	A	AA								AB				10				
1957								W					A	10				
1958										AAA	AAA	AAA	ABB	11				
1959										AAS				12				

HONG KONG

22.33 114.20 HK 423

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1969	AAA	ABB	BAA			WWW	WWW	WWW	WWW	ABA	ABB	AAA	BAB	9	MMM	MMM	MMM	MMM
1970	A	AAA	AAA	AAA		WWW	WWW	WWW	WN	AAA	AAA	AAA	AAN	9	MMM	MMM	MMM	MM
1971	AAA	AAA	ABB	AAA						AA				11	MM			
1972	AAA	AAA	AAA	AAA														
1973	AAA	AAA	AAA	AAA														
1974	AAA	AAA	AAA	AAA														
1975	AAA	AAA	AAA	AAA														
1976	AAA	AAA	AAA	AAA		WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	11				
1977	AAA	AAA	AAA	AAA		WWW	WWW			AAA	AAA			11				
1978	ABA	AAA	AAA	AAA														

HUANCAYO

-12.0 284.70 HU 91K

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1938														AAA	AAA	AAA	AAA	6				
1939														AAA	AAA	AAA	AAA	6				
1940														AAA	AAA	AAA	AAA	6				
1941														AAA	AAA	AAA	AAA	6				
1942														AAA	AAA	AAA	AAA	6				
1943		B		B										AAA	AAA	AAA	AAA	6				
1944														AAA	AAA	AAA	AAA	6				
1945														AAA	AAA	AAA	AAA	6				
1946														AAA	AAA	AAA	AAA	6				
1947		A	AAA	AAA										AAA	AAA	AAA	AAA	6				
1948	AAA	A	B	AA	AAA									AAA	AAA	AAA	AAA	9				
1949	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	9				
1950	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	13				
1951	AAA	AAA	AA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1952	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17				
1953	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17				
1954	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17				
1955	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17				
1956	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1957	AAA	AAA	AAA	AAA			AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	T	T	TTT	TTT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1959	ABN	BAA	AAA	AAA	ABN	BBA	AAA	AAA	X	ABN	BAA	AAA	AAA	ABN	AAA	AAA	AAA	13	TT	TTT	TTT	TTT
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TT
1963	AAA	AAA	AAA	BAA	AAA	AAA	AAA	BAA	X	AAA	AAA	AAA	BAA	AAA	AAA	AAA	BAA	13	AAA	AAA	AAA	AAA
1964	AAA	ABA	AAA	AAA	AAA	ABA	AAA	AAA	X	AAA	ABA	AAA	AAA	AAA	AAA	AAA	AAA	10	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	10	TTT	TTT	TTT	TTT
1966	AAA	AAA	ABB	AAA	AAA	AAA	ABB	AAA	X	AAA	AAA	ABB	AAA	AAA	AAA	ABB	AAA	10	MMM	MMM	MMM	MM
1967	BBA	ABA	AAB	AAA	BBA	ABA	AAB	AAA	X	BBA	ABA	AAB	AAA	ABA	AAA	AAA	AAA	10	CCC	CCC	CCC	CCC
1968	AAB	ABA	AAA	ABA	AAB	ABA	AAA	ABA	X	AAB	ABA	AAA	ABA	AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1969	BAA	BAA	AAA	AAA	BAA	BAA	AAA	AAA	X	BAA	BAA	AAA	AAA	AAA	AAA	AAA	AAA	10	AAA	AAA	AAA	AAA
1970	AAA	AAB	AAA	AAA	AAA	AAB	AAA	AAA	X	AAA	AAB	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1971	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1972	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1973	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1974	AAA	AAA	AAA	AA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1976	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1978	AAA	AAA	AAA	AAA	AAA	AAB	AAA	AAA	X	AAA	AAB	AAA	AAA	AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1979	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	A	AAA	14	AAA	AAA	A	AA
1980	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	A	AAA	14	C			
1981	AAA	AAA	AA		AAA	AAA	AA			AAA	AAA	AA						15				

HYDERABAD

17.35 78.47 HY 317

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1963														AA	AAA	AAA		5				
1964														AAA	AAA	AAA	AAA	5	MMM	MMM	MMM	MMM
1965														AAA	AAA	AAA	AAA	5	MMM	MMM	MMM	MMM
1966														AAA	AAA	AAA	AAA	5	MMM	MMM	MMM	MMM
1967														AAA	AAA	AAA	NBA	12	M	MM		
1968														AAA	AAB	AAA	ABA	12	MMM	MMM	MMM	MMM
1969														AAA	AAB	NNA	AAA	12	MMM	MMM	M	MMM
1970														AAA	BNN	NAA	ABA	12	MMM	M	MM	MMM
1971														BAA	AAB	AAN	NAN	12	MMM	MMM	MM	M
1972														ANN	NNN	NNN	NNN	12				
1973														NNN	NNN	NNN	NNN					
1974																						

IBADAN

07.4 03.90 IB 007

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1951																A	4					
1952																ANN AAA ABB BAA	4					
1953																ANN ABN AMN NBA	4					
1954																AAA AAB AAA AAA	4					
1955																AAA AAA AAA AAA	4					
1956																AAA AAA AAA AAA	4					
1957			WWW	WWW			WWW	WWW								AAA AAA AAA AAA	13					
1958	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW								AAA AAA AAA AAA	11					
1959	WWW				W		W									AAA AAA AAA AAA	7					
1960																AAA AAA AAA AAA	10					
1961																AAA AAA AAA AAA	10					
1962				A												AAA AAA AAA AAA	10					
1963	B		A	B												AAA AAA AAA AAA	10					
1964																AAA AAA AAA AAA	12	MMM	MMM	MMM	MMM	
1965																AAA AAA AAA AAA	12	MMM	MMM	MMM	MMM	
1966																AAA AAA AAA AAA	12	MMM	MMM	MMM	MMM	
1967																AAA AAA AAA AAA	12	MMM	MM	MMM	MMM	
1968																AAN AAA AAA AAA	12	MM	MMM	MMM	MMM	
1969																AAA BAA AAA AAA	12	MMM	MMM	MMM	MMM	
1970																AAA AAA AAA AAA	12	MMM	MMM	MMM	MMM	
1971																AAA AAA AAA AAN	12	MMM	MMM	MMM	MM	
1972																A A A A ABA AAB	12	M	M	M	MMM	
1973																AAA A BB AA	12		M	MM	MM	
1974																AAA A A B A AB	12					

ILO

-17.40 288.80 IL J1P

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1959	BB	AAS			BB	AAS			X	BB	AAS			BB	AAS			13	TT	TTS		

REPLACED CHICLAYO

INVERNESS

57.40 355.80 IN 056

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1951																BAA	4					
1952																AAA AAA AAA AAA	4					
1953																AAA AAA AAA AAA	4					
1954																AAA AAA AAA AAA	4					
1955																AAA AAA AAA AAA	4					
1956																AAA AAA AAA AAA	4					
1957			W	WWW	WWW			WWW	WWW							AAA AAA AAA AAA	8					
1958	WBW	WWW	WWW	WWW	WWW	WWW	WWW	WWW								AAA AAA AAA AAA	8					
1959	W															AAA AAA AAA AAA	8					
1960																AAA AAA AAA AAA	8					
1961																AAA AAA AAA AAA	9					
1962																AAA AAA AAA AAA	9					
1963																AAA AAA S	9					

REPLACED FRASERBURGH

IRKUTSK

52.5 104.0 IR 352

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1956																M	7					
1957																M M MM AAA NNN	2					
1958	W	W	WWW	WW	NNB	NNA	AAA	AAA	X							NNA NNA AAA NAA	14					
1959	A				AAA	AAA	AAA	AAA	X							AAA AAA AAA AAA	14					
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA AAA AAA AAA	14					

IRKUTSK (CONTINUED) 52.5 104.0 IR 352

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	MM	MM	MM	MMM
1965	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	MMM	MMM	MM	MMM
1966	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MM
1968	WWW	WWW	WWW	WBB	AAA	BAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MM	MM	M	M
1969	WBW	WBW	BBB	WBW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1970	BB	BWB	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1971	BBA	BBB	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1972	WWW	WWW	WBW	WBW	A	AA	A	AAA	X					MMA	AMM	MMA	AAA	13	MMM	MMM	MMM	MMM
1973	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1974	WWW	WWW	WWW	W	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM		
1975	WWW	WWW	WW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1976	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1977	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1978	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1979	WWW	WWW	W	W	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1980	WWW	WWW	WW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1981	WWW	W			AAA	A			X					AAA	A			14				

JAMAICA 18.00 283.20 JA 918

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1962			B	AAA			B	BBA	X													
1963	AAA	AAA	AAA	ABB	AMA	AAA	AAM	BBB	X													
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1968	AAA	AAA	AAA	ABN	AAA	AAA	AAA	ABN	X													
1969	NNN	NNN	NNN	NNN	NNN	NNN	NNN	NNN														
1970	NNN	NAA	AMA	AAA	NNN	NAA	AAA	AAA	X													
1971	AAA				AAA	AAA	NNN	NNN	X													
1972					NNN	NNN	AAA	AAA														
1973					AA	AA	A	A														
1974					AAA	AAA	S															

JICAMARCA -11.95 283.14 JI 91J

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1962			A																			
1963	BBB	BBB	BBB	BB																		
1964	AAA	AAA	BBB	AAA																		
1965	AAB	ABB	ABA	AAA																		
1966	BBB	BB		B																		
1967			B																			
1968		BB																				

JOHANNESBURG -26.10 28.10 JO 120

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946															AA	AAA		8				
1947														AAA	AAA	AAA	AAA	9				
1948														AAA	AAA	AAA	AAA	9				
1949														AAA	AAA	AAA	AAA	10				
1950														AAA	AAA	AAA	AAA	10				
1951														AAA	AAA	AAA	AAA	10				

JOHANNESBURG (CONTINUED) -26.10 28.10 JO 120

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1952										AAA	AAA	AAA	AAA	10				
1953										AAA	AAA	AAA	AAA	10				
1954										AAA	AAA	AAA	AAA	10				
1955										AAA	AAA	AAA	AAA	10				
1956										AAA	AAA	AAA	AAA	10				
1957							WWW	WWW	X			AAA	AAA	13				
1958							WWW	WWW	WWW	WWW	X		AAA	AAA	13			
1959							WWW	W	WW	WWW	X		ABA	AAA	13			
1960												AAA	AAA	2				
1961												AAA	AAA	13				
1962												AAA	AAA	12				
1963												AAA	AAA	10				
1964	B		BB				WWW	WWW	W			AAA	AAA	10	MMM	MMM	M	
1965	BB		B															
1966			BBB															
1967												AAA	AAA	12	M			
1968												AAA	AAA	13	MMM	MMM	MMM	MMM
1969	B	B	BB				WWW	WWW	WWW	WWW		AAA	AAA	13	MMM	MMM	MMM	MMM
1970							WWW	WWW	WWW	WWW		AAA	AAB	13	MMM	MMM	MMM	MMM
1971												AAA	AAN	13	MMM	MM	M	MMM
1972												AAA	AAA	13	MMM	MMM	MMM	MMM
1973												AAA	AAA	13	MMM	MMM	MMM	MMM
1974												AAA	AAA	13	MMM	MMM	MMM	MMM
1975												AAA	AAB	13	MMM	MMM	MMM	MMM
1976												AAA	AAA	13				
1977												AAA	AAA	13				
1978												AAA	AAA	13				
1979												AAA	AAA	13				
1980												AAA	A A A	14				
1981												AA	AA	14				

JULIACA -15.50 289.80 JU J1N

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1959	B	ABS			X	B	ABS			B	ABS			13	T	TTS		

JULIUSRUH/RU 54.60 13.40 JR 055

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957												A		6				
1958							WW	WWW	WWW	WWW		AAA	ABA	9				
1959							WWW	WWW	WWW	WWW		AAA	AAA	9				
1960												AAA	AAA	9				
1961							NWW	WWW	WWW	WWW		BAA	AAA	9				
1962							WWW	WWW	WWW	WWW		AAA	AAA	11				
1963							WWW	WWW	WWW	WWW		AAA	AAA	11				
1964							WWW	WWW	WWW	WWW		AAA	AAA	11	MMM	MMM	MMM	MMM
1965							W	WWW	WWW	WWW		AAA	AAA	11	MMM	MMM	MMM	MMM
1966							WWW	WWW	WWW	WWW		AAA	AAA	10	MMM	MMM	MMM	MMM
1967							WWW	WWW	WWB	BWW		AAA	AAA	10				
1968							WWW	WNW	WWW	WWW		AAA	ABA	10	MMM	MMM	MMM	MMM
1969							WWW	WWW	WWN	WWW		AAA	AAA	10	MMM	MMM	MMM	MMM
1970							WWW	WWW	WWW	WWW		AAA	AAA	10	MMM	MMM	MMM	MMM
1971							WWW	WWW	WWW	WWW		AAA	AAA	10	MMM	MMM	MMM	MMM
1972												AAA	AAA	10	MMM	MMM	MMM	MMM
1973												AAA	AAA	10	MMM	MMM	MMM	MMM
1974												AAA	AAA	10	MMM	MMM	MMM	MMM
1975												AAA	AAA	4	MMM	MMM	MMM	MMM
1976												AAA	AAA	4				
1977												AAA	AAA	4				
1978												AAA	AAA	4				
1979												AAA	AAA	4				
1980												AAA	AAA	4				

JULIUSRUH/RU (CONTINUED) 54.60 13.40 JR 055

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1981														AAA	AAA	AAA		4				

KALININGRAD 54.70 20.62 KL 154

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1964	Q	QQQ	QQQ	QQQ	QQ	QQQ	QQQ	QQQ					QQ	QQQ	QQQ	QQQ						
1965	QQQ	QQQ	Q	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1966	QQQ	QQ	Q	QQ	QQQ	QQ	QQ	QQQ					QQQ	QQ	QQ	QQQ						
1967	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1968	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1969	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1970	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1971	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1972	QQQ	QQQ	BBQ	QQQ	QQQ	QQQ	BBQ	QQQ					QQQ	QQQ	BBQ	QQQ						
1973	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1974	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1975	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1976	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1977	QQQ	QQQ			QQQ	QQQ	Q						QQQ	QQQ	Q							

KAMINOGE 35.6 139.6 22 532

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945														BBB	BBB	BBS		9				

KARAGANDA 49.82 73.08 KR 250

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1964			QQ	QQQ			QQ	QQQ							AA	AAA						
1965	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					AAA	AAA	AAA	AAA			M	M	MMM	
1966	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					AAA	AAA	AAA	AAA			M	M	MMM	
1967	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ			MMM	MMM	MMM	
1968	QQQ	QQQ	Q	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ			MMM	MMM	MMM	
1969	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					AAA	AAA	AAA	AAA			MMM	MMM	MMM	
1970	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					AAA	AAA	AAA	AAA			MMM	MMM	MMM	
1971	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					AAA	AAA	AAA	AAA			MMM	MMM	MMM	
1972	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	BBQ	QQQ	X				AAA	AAA	AN	AAA			MM	MMM	MM	
1973	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	Q	QQQ					QQQ	QQQ	QQQ	QQQ						
1974	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1975	QQQ	QQQ	QQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1976	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ					QQQ	QQQ	QQQ	QQQ						
1977	QQQ	Q			QQQ	Q							QQQ	Q								

KERGUELEN -49.35 70.24 KG 24R

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1953													AA	AAA	AAA	AAA						
1954													AAA	AAA	AAA	AAA						
1955													AAA	AAA	AAA	AAA						
1956													AAA	AAA	AAA	ANN						
1957													AAA	AAA	AAA	AAA						
1958													AAA	AAA	AAA	AAA						
1959													AAA	AAA	AAA	AAA						
1960													AAA	AAA	AAA	BNB						
1961													AAA	AAA	AAA	AAA						

KERGUELEN (CONTINUED) -49.35 70.24 KG 24R

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					BAA AAB ABN NNN	12	MMM MMM MM
1965					NNN AAA AAA AAA	12	TTT TTT TTT
1966		WWW WWW WWW WWW			BAA AAA AAA AAA	12	TTT TTT TTT TTT
1967		WWW WWW WWW WWW			AAA AAA AAA AAA	12	TTT TTT TTT TTT
1968		WWW WWW WWW WWW			AAA AAA AAA AAA	12	TTT TTT TTT TTT
1969					AAA AAA AAA AAA	12	TTT TTT TTT TTT
1970					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1971					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	14	AAA AAA AAA AAA
1974					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1977					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1978					AAA AAA AAA AAA	14	
1979					AAA AAA AAA AAA	14	
1980					AAA AAA A	14	

KERMADEC -29.20 182.10 KC 62R

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					M MMM MMM	8	
1944					MMM MAA AAA AAA	10	
1945					AAM MMA AAA AAA	16	
1946					AAA AAA AAA AAA	13	
1947					A	13	
1964					BA AAA AAA ABB	2	
1965					AAA AAA AAA AAA	2	
1966					AAA AAA AAA AAA	2	
1967					BNN NNN AAA AAA	2	
1968					BAA AAB ABA BBB	3	MM MMM M
1969					BAB NNN NNN NNN	3	MMM
1970					NBA ABB AAA AAA	3	MM MMM MMM MMM
1971					ABB BBA AAA BBB	3	MMM MMM MMM MMM
1972					AAB AAA AAB S	3	MMM MMM MMM S

KHABAROVSK 48.50 135.10 KB 548

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1959		QQ QQ			QQ QQ		
1960		QQQ QQQ QQN QQQ			QQQ QQQ QQN QQQ		
1961		AAA AAA ABA AAA	X		AAA AAA ABA AAA	14	
1962		AAA AAA ABB AAA	X		AAA AAA ABB AAB	14	
1963		BBA ABA AAA AAA	X		BBA ABA AAA AAA	14	
1964	W W WW W WWW	AAA AAA ABA AAA	X		AAA AAA ABA AAA	14	MMM MMM MMM MMM
1965	WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966	WWW WWW WWW WWW	ABA ABA AAA AAA	X		ABA ABA AAA AAA	14	MMM MMM MMM MMM
1967	WWW WW WWW	AAA AAA NNN NNA	X		AAA AAA NNN NNA	14	MMM MMM M
1968	W WW WWW WWW	NBN NAA AAA AAA	X		NBN NAA AAA AAA	14	MMM MMM MMM MMM
1969	WWW WWW WW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970	WW WWW WWW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	M MMM MMM MMM
1971	WW WWW WWW W	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1972	WWW W WB WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1974	WWW WW W WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975	WWW W WWW WWW	AAA AAA AAA AA	X		AAA AAA AAA AA	14	MMM MMM MMM
1976	WW W	A A	X		A A	14	
1977	WWW WWW WWW WW	A AA AAA	X		AAA AAM MMM AAA	14	
1978	WW WW W W	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1979	W	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1980		AAA AAA AAA AAA	X		AAA AAA A AA	13	

KHARTOUM 15.55 32.58 23 115

YEAR	IONOGRAMS				F-PLOTS	M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND			JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1952																			
1953																			
1954																			

KIEV 50.72 30.30 KV 151

YEAR	IONOGRAMS				F-PLOTS	M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND			JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1964					AAA AAA AAA AAA	X								14	MMM	MMM	MMM	MMM	
1965					AAA AAB AAA AAA	X								14	MMM	MMM	MMM	MMM	
1966					QQQ QQQ QQQ QQQ														
1967					QQQ QQQ QQQ QQQ														
1968					QQQ QQQ QQQ QQQ														
1969					AAA AAA AAN NAA	X								14	MMM	MMM	MM	MM	
1970					NNN AAA AAA AAA	X								14		MMM	MMM	MMM	
1971					AAA AAA AAA AAA	X								14	M	MMM	MMM	MMM	
1972					AAA AAA AAA AA	X								14	MMM	MMM	MMM	MM	

KINSHASA BINZA - 4.50 15.20 LB 10M

YEAR	IONOGRAMS				F-PLOTS	M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND			JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1952																			
1953																			
1954																			
1955																			
1956																			
1957																			
1958																			
1959																			
1960																			
1961																			
1962																			
1963																			
1964																			
1965																			
1966																			
1967																			
1968																			
1969																			
1970																			

KIRUNA 67.84 20.42 KI 167

YEAR	IONOGRAMS				F-PLOTS	M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND			JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1949																			
1950																			
1951																			
1952																			
1953																			
1954																			
1955																			
1956																			
1957					WWW WWW														
1958					WWW WWW WWW WWW														
1959					WWW WWW WWW WWW														
1960																			
1961																			
1962																			
1963																			
1964		BAA			AAA AAA AAA AAA														

KIRUNA (CONTINUED)

67.84 20.42 KI 167

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1965	AAB	AAA AAA AAA AAA			AAA AAA AAA AAA	13	AAA AAA AAT TTT
1966		A			AAA AAA AAA AAA	13	TTT TTT TTM MMM
1967					AAA AAA AAA AAA	13	MM
1968					AAA AAA AAA AAA	13	MMM MMM MMM M
1969					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	18	
1977					AAA AAA AAA AAA	18	
1978					AAA AAA AAA AAA	18	
1979					AAA AAA AAA AAA	18	
1980					AAA AAA AAA AAA	18	
1981					AAA AAA AAA	18	

KJELLER

60.0 11.10 OS 059

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					A AAA AAA	5	
1946					A A A	4	
1948					AA	7	
1949					AAA AAA AAA AAA	8	
1950					AAA AAA AAA AAA	8	
1951					AAA AAA AAA AAA	9	
1952					AAA AAA AAA AAA	9	
1953					AAA AAA AAA AAA	9	
1954					AAA AAA AAA AAA	9	
1955					AAA AAA AAA AAA	9	
1956					AAA AAA AAA AAA	9	
1957		WWW WWW			AAA AAA AAA AAA	11	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1959		WS			AS	11	

KOCHER

47.7 11.4 24 064

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					A	3	

KODAIKANAL

10.20 77.50 KO 310

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952					AAA AAB	1	
1953					AAA AAA AAA AAA	1	
1954					AAA AAA AAA AAA	1	
1955					AAA AAA AAA AAA	8	
1956					AAA AAA AAA AAA	8	
1957		WWW WWW			AAA AA AAA AAA	11	
1958	B	WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1960					AAA AAA AAA AAA	11	
1961					AAA AAA AAA AAA	11	
1962					AAA AAA AAA AAA	11	
1963					AAA AAA AAA AAA	11	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1965		WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	9	MMM MMM MMM MMM

KODAIKANAL (CONTINUED) 10.20 77.50 KO 310

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1967				B										AAA	AAA	AAA	AAA	11	MMM	M		
1968														AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MM
1969														AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1970														AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1971														ABA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1972														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1973														AAA	AAA	AAA	AAB	11	MMM	MMM	MMM	MMM
1974														AAA	AMA	BAA	AA	11	MMM	MMM		
1975														AAA	AA	AAA	AAA	11				
1976														AAA	AAA	AAA	AAA	11				
1977														AAA	AAA	AAA	AAA	11				
1978														AAA	AAA	AAA	AAB	11				
1979														AAA	AA			11				
1980														A				11				

KWAJALEIN 09.05 167.20 26 609

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945														MMM				7				

LANCHOW 36.1 103.8 27 336

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946																	A	9				
1947														AAA	AAA	AAA	AAA	12				
1948														AAA	AAA	AAA	AAA	12				
1949														AAA	AAA	S		12				

LANNION 48.45 356.73 LN 047

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1971														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1972														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1973														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1974														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1975														AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1976														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1977														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1978														AAA	AAA	AAA	AAA	14				
1979														AAA	AAA	AAA	AAA	14				
1980														AAA	AAA	AAA	A	14				

REPLACED PARIS-SACLAY

LA PAZ -16.50 291.90 LP J10

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957				BAA				BBA	X				BBA				AAA	13				TTT
1958	ABA	ABA	AAA	AAB	ABA	ABA	AAA	AAB	X	ABA	ABA	AAA	AAB	AAA	ABA	AAA	AAB	13	TTT	TTT	TTT	TTT
1959	NNN	NNN	NNN	NNB	NNN	NNN	NNN	NNB	X	NNN	NNN	NNN	NNB	NNN	NNN	NNN	NNB	13				
1960	AAA	BBA	AAA	AAA	AAA	BBA	AAA	AAA	X	AAA	BBA	AAA	AAA	AAA	NBA	AAA	AAA	13	TTT	TTT	TTT	TTT
1961	BAB	NNN	UNN	NNN	BAB	NNN	UNN	NNN	X	BAB	NNN	UNN	NNN	NAA	NNN	UNN	NNN	13	T	T		
1962	NNN	NNN	NNN	BBB	NNN	NNN	NNN	BBB	X	NNN	NNN	NNN	BBB	NNN	NNN	NNN	AAB	13				TT
1963	UAA	AAA	BBN	NNN	BAB	AAA	BBN	NNN	X	BAB	AAA	BBN	NNN	BAA	AAA	AAN	NNN	13	AAA	AAA	AA	
1964	NAA	BAM	BAA	ABB	NAB	BBB	BBA	BBB	X	NAA	BBB	BUU	BBB	NAA	AAN	AUU	AAB	13	AA	AAA	AAA	AAA
1965	AAA	BBA	AAB		AAA	BBA	AAB			AAA	BBA	UAB		AAA	AAA	UA		13	TTT	TTT	TT	
1966				A				BB					BB				A	12				

LA PAZ (CONTINUED) -16.50 291.90 LP J10

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1967																		10				
1968														AAA				10			MMM	MMM
1969																						
1970																						

B

OPERATED AT JULIACA MARCH-NOVEMBER 1959

LA QUIACA -22.10 294.40 LQ J2K

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958																		12				
1959														S								

LENINGRAD 59.95 30.70 LD 160

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945														MMM	MMM	MMM	MMM	4				
1946														MMM	M	MMM	M	6				
1947														MM				2				
1956														MM	M			7				
1957														M	M	MMM	AAA	13				
1958	WWW	WWN	NWW	WWW	AAA	AAN	NAA	NNN	X					AAA	AAN	NAA	NNN	13				
1959	WWW	WWW	WWW	WWW	NNN	AAA	ABA	AAA	X					NNN	AAA	AAA	AAA	14				
1960	WWW	WW	WW	W	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1961	W	W	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1962	W	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1963	WWW	WWW	WWW	W	AAA	AAA	AAA	ANA	X					AAA	AAA	AAA	ANA	14				
1964	WWW	WW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965	WWW	WWW	W	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1966	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	PPP	PPP	PP	PPP	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1968	W	WW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1969	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970	P	PP	WPP	PPW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1972	PPW	PPW	PPP	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973	WWP	PPP	PPP	PPP	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1974	WWW	WWW	WWW	WWW	AAA	A	AAA	AAA	X					AAA	AMM	AAA	AAA	14	MMM	MMM	MMM	MMM
1975	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM			
1976	WWW	W	W	WWW	AAA	A	AAA	B	X					AAA	A	AAA	B	14				
1977	WWW	WWW	WW	WWW	AAA	AAA	AAA	AA	X					AAA	AAA	AAA	AA	14				
1978	WWW	WWW	WWW	W	A	A	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1979	WWW	W	W		AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1980					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1981					AA	AAA			X					AA	AAA			14				

LEYTE 11.0 125.0 28 411

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945																		8				
1946	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	6				
1947	AAA	AAA	AAA	AAA														6				
1948	AAA	AAA	AAS											AAA	AAA	AAS		5				

LINDAU

51.60 10.10 LI 050

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1947					M		
1948					M M MMM MM MMM		
1949					AAA AAA AAA AAA	10	
1950					AAA AAA AAA AAA	11	
1951					AAA AAA AAA AAA	11	
1952					AAA AAA AAA AAA	11	
1953					AAA AAA AAA AAA	11	
1954					AAA AAA AAA AAA	11	
1955					AAA AAA AAA AAA	11	
1956					AAA AAA AAA AAA	11	
1957	WWW WWW	AAA AAA			AAA AAA AAA AAA	12	
1958	WWW WWW WWW WWW	AAA AAW WWW WWW			AAA AAA AAA AAA	12	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1960		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1961		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1962		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1963		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1968		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM M
1969		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MM MMM MMM MMM
1970		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1972		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1973		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1974		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1975		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1976		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1977		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1978		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1979		WWW WWW S			AAA AAA S	12	S

LITTLE AMERICA

-78.20 197.80 LA 77Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AAA AAA	AAA AAA	X	AAA AAA	AAA AAA	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	S	S		S	S		S

LONGYEARBYEN

78.20 15.70 LG 178

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956					A	9	
1957		WWW WWW			AAA AAA	11	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1959		WWW WWW WWS			AAA AAA ABS	11	

LOSHAN

29.5 103.7 29 329

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					AAA AS	10	

LULEA

65.6 22.10 LU 165

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952					AAA AA	7	
1953					AAA AAA AAA AAA	8	
1954					AAA AAA A AAA	8	
1955					AAA AAA AAA AAA	11	
1956					AAA A A AAA AAA	8	
1957		BA			AAA AAA AAA AAA	10	
1958	ABA AAA BAA AAA	W WW			AAA AAA AAA BAA	10	
1959	AAA AAA AAA AAA	WWW WWW WWW WWW			AAA AAA AAA AAA	10	
1960	B				AAA AAA AAA AAA	12	
1961	AAA AA				AAA AAA AAA AAA	12	
1962	AAA AAA BA AAA	WWW WWW WWW			AAA AAA AAA AAA	12	
1963	AAA B BA				AAA AAA AAA AAA	12	
1964		W WWW WW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965		WW W W WWW N W			AAA AAA AAA AAA	12	MMM MMM MMM MM
1966	A AAA AAA AAA	WW W WWW W			AAA BAA AAA AA	12	MMM MMM MMM MM
1967							
1968					AA	12	MM
1969					S		S

LWIRO

-02.30 28.80 LW 10K

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1953					AA AAA	22	
1954					AAA AAA AAA AAA	20	
1955					AAA AAA AAA AAA	20	
1956					AAA AAA AAA AAA	20	
1957		WWW WWW			AAA AAA AAA ANA	21	
1958		WWN WWW WWW WWW			AAAN BAA AAA AAA	21	
1959					AAA AAA AAA AAA	21	
1960					AAA AAA AAA AAA	21	
1961					BNN NNN NNN NAA	21	
1962					ANN ABN NNN NNN	21	
1963					NNN NNA AAA AAA	21	
1964					AAA AAA AAA AAA	21	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	21	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	21	MMM MMM MMM MMM
1967					AAA AAA S	21	S

LYCKSELE

64.62 18.76 LY 164

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957		WWW WWW			AAA AAA AAA AAA	10	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	10	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1960		W			AAA AAA AAA AAA	12	
1961					AAA AAA AAA AAA	12	
1962		WW			AAA AAA AAA AAA	13	
1963		WWW WWW WWW WWW			AAA AAA AAA AAA	13	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	13	AAA AAA AAM MMM
1965		WWW WWW WWW WWW			AAA AAA AAA AAA	14	AAA AAA AAA AAA
1966					AAA AAA AAA AAA	14	AAA AAA AAM MMM
1967					AAA AAA AAA AAA	14	MM M
1968					AAA AAA AAA AAA	14	MMM MMM MMM M
1969					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	19	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	19	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	19	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	18	
1977					AAA AAA AAA AAA	18	
1978					AAA AAA AAA AAA	18	

LYCKSELE (CONTINUED) 64.62 18.76 LY 164

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1979														AAA	AAA	AAA	AAA	18				
1980														AAA	AAA	AAA	AAA	18				
1981														AAA	AAA	AAA	AAA	18				

MACAU 22.20 113.60 MC 422

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958																BA	AAA	AAA		13		
1959																AAA	AAA	AAA	AAA	13		
1960																AAA	NNN	NNN	NNN	13		
1961																A	BA			13		

MACQUARIE IS -54.50 159.0 MQ 55M

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1950														A	AAA	AAA	11					
1951														AAA	AAA	AAA	AAA	11				
1952														AAA	NNN	NBB	AAA	11				
1953														AAA	BBA	ABN	AAA	11				
1954														BAA	AAA	AAA	AAA	10				
1955														NAA	BAA	BBB	BBA	10				
1956														AAA	AAA	AAA	AAA	7				
1957														AA	AAB			13				
1958														BNB	BBB	BBN	BBS	13				

MADRAS 13.10 80.30 MD 313

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														MMM	MMM		2					
1945														MMM	MMM	MM	AAA	2				
1946														AAA	AAA	AAA	AAA	2				
1947														AAA	AAA	AAA	AAA	2				
1948														AAA	AAA	AAA	AAA	2				
1949														AAA	AAA	AAA	AAA	2				
1950														AAA	AAA	AAA	AAA	2				
1951														AAA	AAA	AAA	AAA	2				
1952														AAA	AAA	AAA	AAA	2				
1953														AAA	AAA	AAA	AAA	2				
1954														AAA	AAA	AAM	AAA	2				
1955														AAA	AAA	AAA	AAA	3				
1956														MMM	MMM	MMM	MMM	3				
1957								WWW	WWW					AAA	AAN	AAA	AAA	3				
1958					WWW	WWW	WWW	WWW	WWW					AAA	AAA	AAA	AAA	5				
1959					WWW	WWW	WWW	WW						AAA	AAA	AAA	AAA	5				
1960														AAA	AAA	ABB	BBB	5				
1961														ABA	BAA	AAA	AAB	5				
1962														ABA	BAA	BAA	AAA	5				
1963														AAA	AAA	AAB	BBB	5				
1964														AAN	BBA	NNN	NNN	5	MM	MMM		
1965														NNN	NNN	NNN	NNN					
1966														NNN	NBB	BBB	BNN	3		MM	MMM	M

MAKASSAR

- 5.2 119.5 30 40N

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														BBB	BBB	BBB	BS	5				

MANILA

14.6 121.0 MN 414

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														M	MMM	MMM	MMS	5				
1946																						
1947	AAA	AAA	AAA	AAA										AA	S			12				
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	11	MM		M	
1968	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	M
1969	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	16	MMM	MMM	MMM	MMM
1970	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	16	MMM	MMM	MMM	MMM
1971	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	16	MMM	MMM	MMM	MMM
1972	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	16	MMM	MMM	MMM	MMM
1973	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1974	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1975	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1976	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18				
1977	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18				
1978	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18				
1979	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18				
1980	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18				
1981	AAA	AAA	A		AAA	AAA	AAA			AAA	AAA	AAA		AAA	AAA	AA		18				

REPLACED BAGUIO

MARION IS

-46.87 37.85 MR 140

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957																		12				
1958														BBB	NBS			6				

MAUI

20.80 203.50 MA 720

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944	A	AAA	ABA	AAA										A	AAA	AAA	AAA	14				
1945	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	10				
1946	AAA	AAA	BBA	AA										AAA	AAA	AAA	AAA	9				
1947	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	12				
1948	AAA	AAA	ABA	AAA										AAA	AAA	AAA	AAA	12				
1949	ABA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	12				
1950	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1951	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1952	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1953	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1956	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	10				
1957	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TT
1958	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1959	AAA	AAA	AAA	AAA	WBW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TT	TTT	TTT	TTT
1960	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	T	T	TTT	TTT
1961	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TT	T	TTT	TTT
1962	AAA	AAA	AAA	AAA	WWW	WWA	AWW	AWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1963	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1964	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA

MAUI (CONTINUED)

20.80 203.50 MA 720

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1965	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	TTT	TTT	TTT	TTT
1966	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	MMM	MMM	MMM	MMM
1967	AAA	AAA	AAA	AAA	WWW	WWW	WWB	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	CCC	CCC	CCC	CCC
1968	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	CCC	CCC	CCC	CCC
1969	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	AAA	AAA	AAA	AAA
1970	AAA	AAA	AAA	AAA	WWW	WW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1971	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1972	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1973	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1974	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1976	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AA	A	A	17	AAA	AAC	ACC	CAC
1978	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1979	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	A	AA
1980	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	A				17	CAC	C		
1981	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA					17				

MAWSON

-67.60 62.90 MW 26P

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958					WN	NNN	NNN	NNN						BN	NNN	NNN	NNN	13				
1959					NNN	NNN	NNN	NNN						NNN	BBB	BBB	BBB	3		TTT	TTT	TTT
1960					NAN	NNA	AAA	AAA						BBN	NNA	AAA	AAA	11	TT	T	TTT	TTT
1961					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1962		B			ANA	AAA	ABA	BAB						ABA	AAA	AAA	BAA	11	TTT	TTT	TTT	TTT
1963					BNN	NNN	NNN	NNN						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1964					NNA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1965					AWW	WWW	WWN	WBW						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1966			A		NAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1967					AAA	AAA	AAA	AAB						AAA	AAA	AAA	AAB	11	TTT	TTT	TTT	TTT
1968														AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1969														AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1970														AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1971														AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1972														AAA	BAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1973														AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1974														AAA	AAA	AAA	AAA	12	AMM	MMM	MMM	MMM
1975														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1976														AAA	AA	AAA	AAA	12				
1977														AAA	AAA	BAA	AAA	12				
1978														AAA	AAA	AAA	AAA	12				
1979														AA	AAA	AAA	AAA	13				
1980														AAA	AAA	AAA	AAA	13				
1981														A	AAA			13				

MAYNARD

42.43 288.55 MY J43

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1970																BAA		17				MMM
1971														AAA	AAA	AAA	AAA	17	MMM	MMM	MMM	MMM
1972														AAA	AAA	AAA	AAA	17	MMM	MMM	MMM	MMM
1973														AAA	AAA	AAA	AAA	17	MMM	MMM	MMM	MMM
1974														AAA	AAA			17				
1975																S					S	

REPLACED BILLERICA

MEANOOK

54.60 246.70 ME 855

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	AAA AAA	B		B	A	10	
1958	AAA AAA AAA AAA	BAA AAA AAA AAA		BAA AAA AAA AAA	AAA AAA AAA AAA	8	
1959	WS	AS		AS	AS	7	

MEGURO

35.6 139.7 31 534

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1934					B NBN BBB	1	
1935					B BBB BBB	1	
1936					BBB B BB BBB	1	
1937					BBB BBB BBB BBB	1	
1938					BBB BBB BBB BBB	1	
1939					BBB BBB BBB BBB	1	
1940					BBB BBB BBB BBS	1	

MEXICO CITY

19.4 260.3 MX 919

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1958	A AA AA AAA			BBB NBN BBB	BB	13	
1959	AAA AAA AAA AAA	AA BAA AAA AAA	X	AAA BAA AAA AAA	AAA AAA AAA AAA	13	
1960	AAA AAA AAA AAA	ABA AAA AAA AAB	X	ABA AAA AAA AAB	AAA AAA AAA AAA	13	
1961	A A AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1963	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1965	A A AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967	AAA AAA AAA AAA	AAA AA AAA AAA	X	AAA AA AAA AAA	AAA AAA AAA AAA	13	MM MMM MMM MMM
1968	AAA AAA AAA AAA	AAA ABA BAA AAA	X	AAA ABA BAA AAA	AAA ABA AAA AAA	13	MMM MMM MMM M
1969	AAA AAA AAA AAA	AAA AAA BAA AAA	X	AAA AAA BAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970	AAA AAA AAA AAA	AAA ABA BAA AAA	X	AAA ABA BAA AAA	AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	4	MMM MMM MMM MMM
1972	AAA AAA AAA AAA	BAA AAA AAA AAA	X	BAA AAA AAA AAA	BAA AAA AAA AAA	4	MMM MMM MMM MMM
1973	AAA AAA AAA AAA	AAA ABB BBB BBB	X	AAA ABB BBB BBB	AAA AAA AAA AAA	4	MMM MMM MMM MMM
1974	AAA AAA AAA AAA	BBB BBB BBB BBB		BBB BBB BBB BBB	AAA AAA AAA AAA	4	MMM MMM MMM MM
1975	AAA AAA AAA AAA	BBB AAA AAA ABA		BBB AAA AAA ABA	AAB AAA AAA ABA	4	MM MMM MMM MMM
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	BBA ABA AAA AAA	14	
1977	AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	
1978		AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	
1979		AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	
1980		AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	
1981		AA		AA	AA	14	

MIEDZESZYN

52.20 21.20 MZ 152

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1958	WWW WWW	WWW WWW			A AA B	5	
1959	WWW W WWW WWW	WWW WWW WWW WWW			AAB ANA AAA AAB	5	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA AAA	13	
1962					AAA AAA AAA AAA	13	
1963					AAA AAA AAA AAA	13	
1964					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	13	MM MM
1968					AAA AAA AAA AAA	13	MMM MMM MM MMM
1969					AAA AAA AAA AAA	13	MMM M

MIEDZESZYN (CONTINUED) 52.20 21.20 MZ 152

YEAR	IONOGRAMS				M	F-PLOTS				CH	DIGITAL								
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND					
1970																			
1971																			
1972																			
1973																			
1974																			
1975																			
1976																			
1977																			
1978																			
1979																			
1980																			
1981																			

MILLSTONE HILL 42.60 288.50 MH J45

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1963		BAA	AAA	AAA																		
1964	AAA	AAA	AAA	AAA																		
1965	AAA	AAA	AAA	AAA																		
1966	NAA	AAA	AAA	AAB																		
1967	AAA	AAA	AAA	BBB																		
1968	BAA	ABA	AAA	AAB																		
1969	AAA	BBA	AAA	ABA																		
1970	AAA	AAA	AAA	AAA																		
1971	AAA	AAA	AAA	AAA																		
1972	AAA	AAA	AAA	AAA																		
1973	AAA	AAB	AAA	AAA																		
1974	AAA	AAA	BAA	AAA																		
1975	AAA	ANN	AAA	AAA																		
1976	AAA	AAA	AAA	AAA																		
1977	AAA	AAA	BAA	BAA																		
1978	AAA	BAA	AAA	AAA																		
1979	AAA	AAA																				

MIRNY -66.50 93.00 MI 360

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL					
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		
1957			W	WWW	WWW			W	WWW	WWW	X					AA	AAA	AAA	AAA	12				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	14				
1959	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	12				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	12				
1961	WWW	WWW	WW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	12				
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	12				
1963	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	12				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	12	M	M	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	12	M	M	MMM	MMM
1966		WW	W	W	WWW	WWW	AAA	AAA	AAA	X						AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1969	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1970	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X							AAA	AAA	AAA	AAA	13				
1973	S				S					S						S					S			

MOSCOW 55.50 37.30 MO 155

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														M	MMM	MMM	MMM					1
1945														MMM	MMM	MMM	MMM					5
1946														AAA	AAA	AAA	AAA					8

MOSCOW (CONTINUED)

55.50 37.30 MO 155

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1947														AA				1				
1956														AAA AAA AAA AAA				14				
1957			WWW	WWW				AAA AAA						MMM MMM AAA AAA				14				
1958	WWB	WWW	BWW	WWW	AAA	AAA	AAA	AAA						AAA AAA AAA AAA				14				
1959	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA AAA AAA AAA				14				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14				
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14				
1962	WWW	W	W	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14				
1963	WWW	WWW	WWW	BWW	AAA	AAA	AAA	AAA	X					AAA AAA AA				14				
1964	WWA	AAA	AAA	AA	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	MMM
1966	WWW	BBW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14				
1968	WWW	WWW	BWW	BBB	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	MMM
1969	BBB	BBB	BBB	BB	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	MMM
1970	BBB	BWB	BBB	BBB	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	MMM
1971	BBB	BBB	BWW	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	MMM
1972	WWW	WWW	WBW	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	MMM
1973	WWB	WBB	BBB	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	MMM
1974	WWW	BWW	BBW	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	MMM
1975	WWW	WWW	WWW	WWW	AAA	AAA	AAA	A	X					AAA AAA AAA AAA				14	MMM	MMM	MMM	M
1976	WWW	WWW	WWW	WWW	AAA	AAA	AAA	A	X					AAA AAA AAA AAA				14				
1977	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AA	X					AAA AAA AA AA				14				
1978	WWW	WWW	WW	W	AAA	AAA	AAA	AAA	X					AA AAA AAA A				14				
1979					AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14				
1980					AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14				
1981					AAA	A								AAA A A A				13				

MUNDARING

-31.99 116.31 MU 43K

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1959														AAA AAA AAA				8		TTT	TTT	TTT
1960														AAA AAA AAA AAA				6	TTT	TTT	TTT	TTT
1961														AAA AAA AAA AAA				6	TTT	TTT	TTT	TTT
1962		B		A										AAA AAA AAA AAA				6	TTT	TTT	TTT	TTT
1963	B	A	B											AAA AAA AAA AAA				6	TTT	TTT	TTT	TTT
1964														AAA AAA AAA AAA				13	TTT	TTT	TTT	TTT
1965			A											AAA AAA AAA AAA				13	TTT	TTT	TTT	TTT
1966		B		A										AAA AAA AAA AAA				5	TTT	TTT	TTT	TTT
1967		B												AAA AAA AAA AAA				5	TTT	TTT	AAA	AAA
1968														AAA AAA AAA AAA				5	TTT	TTT	TTT	TTT
1969														AAA AAA AAA ABA				7	TTT	TTT	TTT	TTT
1970														AAA AAA AAA AAA				7	TTT	TTT	TTT	TTT
1971														AAA AAA AAA AAA				7	TTT	TTT	TTT	TTT
1972														AAA AAA AAA AAA				7	TTT	TTT	TTT	TTT
1973														AAA AAA AAA AAA				6	TTT	TTT	TTT	TTT
1974														AAA AAA AAA AAA				6	TTT	TTT	TTT	TTT
1975														AAA AAA AAA AAA				12	MMM	MMM	MMM	MMM
1976														AAA AAA AAA AAA				12				
1977														AAA AAA AAA AAA				12				
1978														AAA AAA AAA AAA				12				
1979														AAA AAA AAA AAA				13				
1980														AAA AAA AAA AAA				13				
1981														A				13				

REPLACED WATHEROO

MURMANSK

69.0 33.0 MM 168

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1956														A AAA A				3				
1957			WWW	WWW				AAA AAA	X					MMM M AAA AAA				13				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA AAA AAA AAA				14				

MURMANSK (CONTINUED) 69.0 33.0 MM 168

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1959	WWW	WWW	WWW	WWW	AAA	AAA	ABA	AAA	X					AAA	AAA	ABA	AAA	14				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	15				
1961	NWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	15				
1962	WWW	WWW	WWW	WWW	AAA	AA	AAA	AAA	X					AAA	AAA	AAA	AAA	15				
1963	WWW	WWW	WWW	WWN	AAA	AAA	AAA	AAN	X					AAA	AAA	AAA	AAN	15				
1964	WWW	WWW	WWW	WWW	AAA	AA	AAB	AAA	X					AAA	AAA	AAA	AAA	15	MMM	MMM	MMM	MMM
1965	WWW	B W	WWW	BWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	15	MMM	MMM	MMM	MMM
1966	BWB	BWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	15	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	15	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	BBB	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	15	MMM	MMM	MMM	MMM
1969	WBB	BBW	BWB	BBW	AAA	AAA	ANA	AAA	X					AAA	AAA	ANA	AAA	15	MMM	MMM	MMM	M M
1970	WWW	WWW	BBW	BBW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	15	MMM	MMM	MMM	MMM
1971	WWW	BBW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	15	MMM	MMM	MMM	MMM
1972	WWW	WWW	WWW	WW	AAA	AAA	AAA	AA	X					AAA	AAA	AAA	AA	15	MMM	MMM	MM	M
1973				W BW	A	A	AA	AAA	X					AAA	A	AA	AAA	15			M	M
1974	WW	BA			A	AAA	AAA	AAA	X					A	AAA	AAA	AAA	15		MM		
1975	WW	W			AAA	A			X					AAA	AAA			15	MMM	M		
1977					A	A	AA		X					AAA	AA			15				

NAIROBI -01.28 36.83 NR 10J

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1952														AA	AA			10				
1953															AA	AA		10				
1954															AAA	A	A	10				
1955														A	A	AA	AAA	10				
1956														AAA	A			10				
1957														AA	AA			10				
1964	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	14				
1965	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	X					AAA	A	A	AAA	14				
1966														AAA	AA	AAA	AAA	14				
1967														AAA	AAA	AAA	AAA	14				
1968														AAA	AAA	A		14				

NANKING 32.1 119.0 32 432

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1947																	A	12				
1948														AAA	AAA	AAA	AAA	12				
1949														S								

NARSSARSSUAQ 61.20 314.60 NQ J61

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1950				U UUA													A	12				
1951	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	A	A	A		14				
1952	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	14				
1953	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1956	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	9				
1957	AAA	ABN	NBA	AAA	AAA	ABN	NBA	BAA	X	AAA	AAA	NBA	AAA		NBA	AAA		13	TTT	T	TT	TTT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	11			T	TTT
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	BAA	X	AAA	AAA	AAA	BAA	AAA	AAA	AAA	AA	7	AAA	AAA	AAA	AA
1964	AAA	ABA	AAA	AAA	AAA	ABA	AAA	AAA	X	AAA	ABA	AAA	AAA	AAA	ABA	AAA	AAA	7	AAA	AAA	AAA	AAA

NARSSARSSUAQ (CONTINUED) 61.20 314.60 NQ J61

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1965	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	7	TTT TTT TTT TTT
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	7	MM MMM MMM MMM
1967	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	7	CCC CCC CCC CCC
1968	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	7	AAA AAA AAA AAA
1969	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	7	AAA AAC CCC CCC
1970	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AA	13	AAA AAA AAA AAM
1971	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	AAA AAA AAA AAA
1972	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	AAA AAA AAA AAA
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	AAA AAA AAA AAA
1974	ABA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA A	16	AAA AAA AAA A
1975	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AA AAA	12	AA AAA
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	A
1977	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1978	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	A A
1979	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1980	AAA A	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	CC
1981		AAA AAA AAA A	X	AAA AAA AAA A		16	

NATAL -05.70 324.80 NL AON

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1958	B ABB AAA AAA	B BB B BAB		B B B BBA AAB	B B B BAA AAA	13	T T T TTT TTT
1959	ANN BNB BBN BAA	BNN BNB NBN BAA		BNN BNB NBN BAA	BNN ANA AAN AAA	13	TTT
1960	AAA ABN AAA AAA	AAA ABN AAA AAA		AAA ABN AAA AAA	AAA ABN AAA AAA	13	
1961	AAB BAA AUA BBA	BBA BAA AUA BBA		BBA BAA BUA BBA	ABA BAA BUA BBA	13	
1962	AAB AAA BAA AAA	AAA AA AA BAB		AAA AA AA BAB	AAA AAA AAA AAA	13	
1963	UUA ABB AAA AAB	UUB A B ABA ABB	X	UUB A B AAA ABB	UUA A	13	
1964	NBA BAA AAA AAB	NBA BBA ABB BAA	X	NBA BBA ABB BAA		13	
1965	BBN BA	BBN BA		BBN BA		13	
1966							
1967							
1968							
1969		BBA					
1970	AAA AAB AAB AAB						
1971	BBB BBA AAA AAA						
1972	AAN BBB BBB BBB						

CLOSED, 1973

NHA TRANG 12.25 109.2 33 412

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1951					MMM MMM	8	
1952					MMM MMM MMM MMM	22	
1953					MMM MMM MMM MMM	22	
1954					MMM MMM MMM MMM	9	
1955					MMM MMM MMM MMM	9	
1956					AAA A	12	

NORFOLK IS -29.00 168.0 NI 63!

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1964	W W W W				BA AAB AAA AAA	13	MM M M MMM MMM
1965					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	5	TTT TTT TTT TTT
1967					AAA BAA AAA AAA	5	AAA AAA AAA AAA
1968					AAA AAA AAA AAA	5	TTT TTT TTT TTT
1969					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1970					AAA AAA AAA AAA	7	TTT TTT TTT TTT

NORFOLK IS (CONTINUED) -29.00 168.0 NI 63!

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1971					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1975					ABA AAA AAA AAA	12	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	12	
1977					AAA AAA AAA AAA	12	
1978					AAA AAA AAA AAA	13	
1979					AAA AAA AAA AAA	13	
1980					AAA AAA AA AAA	13	
1981					AAA AAA	13	

NORILSK 69.4 88.1 NO 369

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1968		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1969		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1970		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1971		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1972		QQQ QQQ AAQ QQQ	X		QQQ QQQ AAQ QQQ	14	
1973		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1974		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1975		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1976		QQQ Q			QQQ QQ		

NOVOKAZALINSK 45.77 62.12 NK 246

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964					A AAA AAA AAA	14	M MMM MMM MM
1965					AAA AAA AAA AAA	14	M M MMM MMM MMM
1966					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1972		AAA AAA AAA AQQ	X		AAA AAA AAA AQQ	14	MMM MMM MMM M
1973		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1974							
1975		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1976		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1977		QQQ QQ			QQQ QQ		

NOVOSIBIRSK 54.6 83.2 NS 355

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1969		QQ QQQ QQ QQQ			QQ QQQ QQQ QQQ		
1970		QQQ QQQ QQQ QNQ			QQQ QQQ QQQ QNQ		
1971		Q Q Q			Q Q Q		
1972		Q QQQ QBQ	X	B	Q QQQ QQQ	14	
1973		QQ QQQ QQQ			QQ QQQ QQQ		
1974							
1975		QQQ Q Q QQQ Q Q			QQQ Q Q QQQ Q Q		
1976		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1977		QQ QQ			QQ QQ		

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60.50 24.60 NU 159

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957										AAA	AAA	AAA	AAA	10				
1958										AAA	AAA	AAA	AAA	10				
1959										AAA	AAA	AAA	AAA	10				
1960										AAA	AAA	AAA	AAA	10				
1961										AAA	AAA	AAA	AAA	11				
1962										AAA	AAA	AAA	AAA	11				
1963										AAA	AAA	AAA	AAA	11				
1964										AAA	AAA	AAA	AAA	11				
1965										AAA	AAA	AAA	AAA	11				
1966										AAA	AAA	AAA	AAA	11				
1967										AAA	AAA	AAA	AAA	11				
1968										AAA	AAA	AAA	AAA	11				
1969										AAA	AAA	AAA	AAA	11				
1970										AAA	AAA	AAA	AAA	11				
1971										AAA	AAA	AAA	AAA	11				
1972										AAA	AAA	AAA	AAA	12				
1973										AAA	AAA	AAA	AAA	12				
1974										BBA	AAA	AAA	AAA	12				
1975										AAA	AAA	A	A	12				
1976										AAA	AAA	AAA	AAA	12				
1977										AAA	AAA	AAA	AAA	12				
1978										AAA	AAA	AAA	AAA	12				
1979										AAA	AAA	AAA	AAA	12				
1980										AAA	AAA	AAA	AAA	12				
1981										AA				12				

OKINAWA

26.30 127.80 OK 426

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946										AAA	AAA	AAA	AAA	5				
1947										AAA	AAA	AAA	AAA	5				
1948										AAA	AAA	AAA	AAA	5				
1949										AAA	AAA	ANN	NAA	5				
1950										AAA	NNN	NNA		12				
1951										AAA	AAA	AAA	AAA	12				
1952										AAA	AAA	AAA	AAA	12				
1953										AAA	AAA	AAA	AAA	12				
1954										AAA	AAA	AAA	AAA	13				
1955										AAA	AAA	AAA	AAA	13				
1956										AAA	AAA	AAA	AAA	11				
1957										AAA	AAA	AAA	AAA	13				
1958										AAA	AAA	AAA	AAA	13				
1959										AAA	AAA	AAA	AAA	13				
1960										AA				13				
1961										AAA	AA	AAA	AA	13				
1962										AA	AAA	AAA	AAA	13				
1963										AAA	AAA	ABA	AAA	13				
1964										BBA	AAA	AAA	AAA	13				
1965										AAA	AAA	AAA	AAA	13				
1966										AAA	AAA	AAA	AAA	13				
1967										AAA	AAA	AAA	AAA	13				
1968										AAA	ABA	AAA	AAA	13				
1969										NNB	NNN	NNN	NNN	13				
1970										NNB	NNN	NNN	NNN	13				
1971										NNB	NNN	NNN	NNN	13				
1972										NNB	NNN	NNN	NNN	13				
1973										NNB	NNN	NNN	NNN	13				
1974										NNB	NNN	NNN	NNN	13				
1975										NNB	NNN	NNN	NNN	13				
1976										NNB	NNN	NNN	NNN	13				
1977										NNB	NNN	NNN	NNN	13				
1978										NNB	NNN	NNN	NNN	13				
1979										NNB	NNN	NNN	NNN	13				
1980										NNB	NNN	NNN	NNN	13				
1981										NNB	NNN	NNN	NNN	13				

OTTAWA

45.4 284.10 OT 945

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1942														AAA	AAA	AAA	AAA	10				
1943														AAA	AAA	AAA	AAA	11				
1944														AAA	AAA	AAA	AAA	11				
1945														NNA	AAA	AAA	AAA	11				
1946														AAA	AAA	AAA	AAA	11				
1947														AAA	AAA	AAA	AAA	14				
1948														AAA	AAA	AAA	AAA	15				
1949														AAA	AAA	AAA	AAA	12				
1950				A	AAA									AAA	AAA	AAA	AAA	13				
1951	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	14				
1952	A													AAA	AAA	AAA	AAA	13				
1953														AAA	AAA	AAA	AAA	11				
1954														MAA	MMA	AAA	AAA	11				
1955														AAA	AAA	AAA	AAA	11				
1956														AAA	AAA	AAA	AAA	9				
1957			AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10	MMM	MMM	MMM	MMM
1965	AAA	AAA	AAA	AAA	BAA	AAA	AAA	AAA						BAA	AAA	AAA	AAA	10	TTT	TTT	TTT	TTT
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1968	BAA	AAA	AAA	AAA	BAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1969	AAA	AAA	BAA	AAA	AAB	AAA	BAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1970	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1971	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1972	AAA	BAA	BAA	ABA	AAA	BAA	BAA	BBB	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1973	AAB	BBA	AAB	AAB	BAB	BBA	AAB	AAB	X					AAA	BAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1974	BBB	BBA	AAA	AAA	BBB	BBB	BBB	BAA	X					BBB	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1976	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AA	AAA	AAA	AAA
1978	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1979	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1980	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1981					AAA	AAA	A							AAA	AAA	AAA		12	TTT	TT	TT	

OUAGADOUGOU

12.37 358.47 OU 012

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1966														B	BBA	AAA		12		M	MMM	MMM
1967														BBA	BBA	AAB	NBA	12	MMM	MMM	MMM	MM
1968														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1969														BAA	ABA	AAA	AAA	12	MMM	MMM	MMM	MMM
1970														AAA	BAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1971														AAA	AAA	ABB	AAB	14	MMM	MMM	MMM	MMM
1972														BAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973														ABA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1974														BAA	AAA	AAA	AAA	14		MM	MMM	
1975														AAA	AAA	ABN	AAA	14	MMM	MMM	MM	MMM
1976														AAA	AAA	AAA	AAA	14				
1977														AAA	AAA	AAA	AAA	14				
1978														AAA	AAA	AAA	AAA	14				
1979														AAA	AAA	AAA	AAA	14				
1980														AAA	AAA	AAA	AAA	14				

PARIS SACLAY

48.10 02.3 SC 047

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1960														A	AAA	AAA	12					
1961														AAA	AAA	AAA	12					
1962														AAA	AAA	AAA	12					
1963														AAA	AAA	AAA	12					
1964														AAA	AAB	BAB	12	MMM	MMM	MMM	MM	
1965														AAA	AAA	AAA	12	MMM	MMM	MMM	MM	
1966														BBA	AAA	BAA	12	MMM	MMM	MMM	MMM	
1967														AAA	AAA	AAN	12	MMM	MMM	MM	MM	
1968														BAA	AAA	AAA	12	MMM	MMM	MMM	MMM	
1969														AAB	AAA	AAA	12	MMM	MMM	MMM	MMM	
1970														AAA	AAA	AAB	12	MMM	MMM	MMM	MMM	
1971														S				S				

REPLACED BY LANNION

PEIPING

39.9 116.4 37 440

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946															AAA	ABA	AAA	2				
1947															AAA	AAA	AAA	2				
1948															AAA	AAA	AAA	1				

PENANG

5.5 100.4 38 305

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944															B	BBB	BBB	6				
1945															BBB	BBS		6				

PESHAWAR

34.0 71.5 39 234

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945																A	AAA	3				
1946															AAA	AAA	AAA	3				
1947															AAA	AS		3				

PITCAIRN IS

-25.0 230.0 40 82N

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944																		10				
1945															AAA	AAA	AAA	10				

PLATTEVILLE

40.01 254.70 PV 842

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1970																						
1971		BB	B	B																		

INTERMITTENT OPERATION

PALAU IS 7.3 134.5 34 407

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1939					BNM MMM	1	
1940					MMM MMB MMM MMM	1	
1941					MMM MMM BBM MMM	5	
1942					MMM MMM MMM MNM	5	
1943					MMM MMM BMM BMM	5	
1944					MMM MMS	5	

PALMYRA 05.38 197.82 35 705

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1946	AA				AA	12	
1947	A A AAA A A AAA				AAA AAA AAA AAA	12	
1948	AAA AAA AAA AAA				AAA AAA AAA AAA	12	
1949	AAA AAA AAA AAS				AAA AAA A A AAS	12	

PANAMA 9.40 280.10 PN 909

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1951	A AAA AAA			A AAA AAA		12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA		12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA		13	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA		13	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	10	
1957	AAA AAA AAA AAA	AAA AAA	X	AAA AAA AAA AAA	AA AA AAA AAA	13	TTT TTT TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	S	S		S	S		S

PARAMARIBO 5.80 304.80 PM J06

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957		WWW WWW			AAA AAA	15	
1958		WW WW WWW WWW			AAA AAA BAA AAA	12	
1959					AAA AAB NAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA ABA	12	
1962					AAA AAN NNN NNN	12	
1964		NW WWW WN WWW	X	NAA AAA AAN AAA	BAA AAA AAB AAA	14	MMM MMM MMM MMM
1965		NNW NNW WWW WNW			NNA NAA AAA AAA	14	M MM MM MMM
1966		W	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967	BB				BAA ABA AAA AAA	14	MMM MMM MMM MMM
1968					ABB AAB BNN NNN	14	MMM MMM M
1969					NNN NNN NNN NNN	14	
1970					NNN NNN NNN AAB	14	MMM

PARAMUSHIRO 50.1 155.3 36 550

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1943					BB	3	
1944					BBB BBB BBB S	3	

POINT ARGUELLO

35.60 239.40 PA 836

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1963									X													
1964	AAA	ABA	AAA	AAA	ABA	ABA	ABB	BBA	X								A					
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	ABB	X													
1966	AAA	AAA	AAA	AAA	BAA	AAA	AUA	AAA	X													
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA									
1968	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA									
1969	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA									
1970	AAA	AAB	AAA	AAA						AAA	AAA	AAA	AAA									
1971	AAA	AAA	AAA	AAA				WWW		AAA	AAA	AAA	AAA							CAA		
1972	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		
1973	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AAA	AA				AA		
1974	AAA	AAA	AAA	AAA	WWW	WS				AAA	AAA	BBB	AAA							AA		
1975	AAA	A	AAA	AAA						AAA	BAA	AAA	AAA							CC		
1976	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA									
1977	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA									
1978	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA						A	A		
1979	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	A	AA							
1980	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA							ACC AA		
1981	AAA	AAA	AA							AAA	AAA	AA										

POITIERS

46.57 .35 PT 046

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1948																						
1949																						
1950																						
1951																						
1952																						
1953																						
1954																						
1955																						
1956																						
1957								WWW WWW	X													
1958					WWW	WWW	WWW	WWW	X													
1959																						
1960																						
1964																						
1968																						
1969																						
1970																						
1971																						
1972																						
1973																						
1974																						
1975																						
1976																						
1977																						
1978																						
1979																						
1980																						
1981																						

POPAYAN

2.45 283.38 PP 902

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1970	BB	BBA	AAB	AA																		
1971		B	BB	BBA																		
1972	BB		B	BBB									B	BBB								
1973	BBB	BBB	B	B									BBB	BB	B	B	BBB					
1974	BBB	B	B										BBB	B	B							

REPLACED BOGOTA

PORTAGE LA PRAIRIE

49.90 261.70 41 950

YEAR	IONOGRAMS				F-PLOTS	M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND			JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946													A	AAA	12				
1947													AAA	AAA	13				
1948													AAA	AAA	13				
1949													AAA	AAA	13				
1950													AAA	AAA	13				
1951													AAA	S	12				

PORT MORESBY

-09.40 147.10 PY 50R

YEAR	IONOGRAMS				F-PLOTS	M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND			JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1961													BB	AAA	11		TT	TTT	TTT
1962			B										AAA	AAA	7	TTT	TTT	TTT	TTT
1963													AAA	AAA	7	TTT	TTT	TTT	TTT
1964													AAA	AAA	11	TTT	TTT	TTT	TTT
1965													AAA	AAB	11	TTT	TTT	TTT	TTT
1966			A										AAA	AAA	5	TTT	TTT	TTT	TTT
1967													AAA	AAA	5	AAA	ATT	TTT	TTT
1968													AAA	AAA	5	TTT	TTT	TTT	TTT
1969													AAA	NBN	7	TTT	TT	TTT	TTT
1970													AAA	AAA	7	TTT	TTT	TTT	T T
1971													AAA	AAA	7	TTT	TTT	TTT	TTT
1972													BAA	AAB	7	TTT	TTT	TS	

PORT STANLEY

-51.70 302.20 PS J5J

YEAR	IONOGRAMS				F-PLOTS	M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND			JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945													A		4				
1946													AA	AAA	2				
1947													AA	AAA	2				
1948													AAA	AAA	4				
1949													BAA	AAA	4				
1950													AAA	AAA	4				
1951													AAA	AAA	4				
1952													AAA	AAA	4				
1953													AAA	AAA	4				
1954													AAA	AAA	4				
1955													AAA	AAA	4				
1956													AAA	AAA	4				
1957			WWW	WWW					WWW	WWW			AAA	NNN	8				
1958	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW		AAA	AAA	8				
1959	WWW	WWW	WWW	WWW	W								AAA	AAA	8				
1960	WWW	WWW	WWW	WWW									AAA	AAA	8				
1961	WWW	W											AAA	AAA	8				
1962													AAA	AAA	8				
1963	B												AAA	AAA	12				
1964	WWW	WWW	WWW	WWW					WWW	WWW			AAA	AAA	12	MMM	MMM	MMM	MMM
1965	WWW	WWA	AWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW			AAA	AAA	14	MMM	MMM	MMM	MMM
1966	WWW	WWW	WWW	WBB	WWW	WWW	WWW	WWW	WWW	WWW			AAA	AAA	14	MMM	MMM	MMM	MMM
1967	P	WWW	W		WWW	WWW	WWW	WWW	WWW	WWW			AAA	AAA	13	TTT	TTT	TTT	TTT
1968	WWW	WWW	WWW	WW	NWW	WN	WWW	WWW	WWW	WWW			NAA	ANB	13	TTT	TTT	TTT	TTT
1969	WWW	WWN	WWW	WWW	WWW	WWN	WWW	WWW	WWW	WWW			AAA	AAB	14	TTT	TTT	TTT	TTT
1970	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW			AAA	AAA	14	TTT	TTT	TTT	TTT
1971	WW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW			AAA	AAA	14	TTT	TTT	TTT	TTT
1972	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW			AAA	AAA	14	TTT	TTT	TTT	TTT
1973	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW			AAA	AAA	14	TTT	TTT	TTT	TTT
1974	WWW	WWW	WWW	WWW	WW	WW	WWW	WWW	WWW	WWW			AAA	AAA	14	TTT	TTT	TTT	TTT
1975	W	W	WWW	WWW	WWW	WWW	WWW	WWW	W				AAA	AAA	14	TTT	TTT	TTT	TTT
1976	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW			AAA	AAA	14	TTT	TTT	TTT	TTT
1977	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW			AAA	AAA	14				
1978	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WW				AAA	AAA	14				
1979	WWW	WWW	WWW	WWW	WWW	WW	W						AAA	AAA	14				
1980	WWW	WWW	WWW	WWW									AAA	AAA	14				
1981	WWW	WW											AAA	A	14				

PRINCE RUPERT

54.3 229.7 42 854

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945															AAA	AAA	13					
1946															AAA	AAA	13					
1947															A	AAA	13					
1948															AAA	AAA	13					
1949															AAA	AAA	13					
1950															AAA	AAA	13					
1951		AA	AAA	AAA	AAA										AAA	AAA	13					
1952		A													AAA	AAA	12					
1953															AAA	AAA	10					
1954			S												AAA	AAS	10					

PROVIDENYA

64.40 186.60 PD 664

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957				W			WW	WWW	X						MM	AAA	13					
1958						WWW	WWW	WWW	X						AAA	AAA	13					
1959			WW	WWW		WWW	WWW	WWW	X						AAA	AAA	13					
1960	WWW	WWW	WWW	WWW		WW	WWW	WWW	X						BAA	AAA	11					
1961	WWW	WWW	WWW	WWW		WWW	WWW	WWW	X						AAA	AAA	14					
1962	WWW	WWW	WWW	WWW		WWW	WWW	WWW							AAA	AAA	14					
1963	W	W	WWW	WWW		W	W	WWW	AAA	X					AAA	AAA	14					
1964	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X					AAA	AAA	14	MMM	MMM	MMM	MMM	
1965	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X					AAA	AAA	14	MMM	MMM	MMM	MMM	
1966	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X					AAA	AAA	14	MMM	MMM	MMM	MMM	
1967	WW	WWW	WWW	WW		AAA	AAA	AAA	AAA	X					AAA	AAA	14	MMM	MMM	MMM	MMM	
1968	WWW	WWW	WWW	WWW		AAA	AAA	AAB	AAA	X					AAA	AAA	14	MMM	MMM	MMM	MMM	
1969	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X					AAA	AAA	14	MMM	MMM	MMM	MMM	
1970	WW	WW				AA	AA			X					AA	AA	14	MM	MM			
1971						AA				X					AA		14					
1972															MMM			MMM				
1977						AAA				X					AAA		13					
1979						A		AA		X					AAA		14					
1980						AAA	AA	A	AAA	X					AAA	AA	13					
1981															AAA	A	13					

PRUHONICE

50.0 14.56 PQ 052

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958		A	AAA	AAA	AAA										AAA	AAA	5					
1959	AAA	AAA	AAA	AAA											AAA	AAA	11					
1960	AAA	AAA	AAA	AA											AAA	AAA	11					
1961															AAA	AAA	6					
1962															AAA	AAA	6					
1963															AAA	AAA	6					
1964															AAA	AAA	9	MMM	MMM	MMM	MMM	
1965															AAA	AAA	10	MMM	MMM	MMM	MMM	
1966															AAA	AAA	10	MMM	MMM	MMM	MMM	
1967															AAA	AAA	10				M	
1968															AAA	AAA	10	MMM	MMM	MMM	MMM	
1969															AAA	AAA	10	M	M	MMM	M	
1970															AAA	AAA	10	MMM	MMM	MMM	MM	
1971															NNA	AAA	10	M	MMM	MMM	MMM	
1972															AAA	AAA	10	MMM	MMM	MMM	MMM	
1973															AAA	AAA	10	MMM	MMM	MMM	MMM	
1974															AAA	AAA	10	MMM	MMM	MMM	MMM	
1975															AAA	AAA	10	MMM	MMM	MMM	MMM	
1976															AAA	AAA	10					
1977															AAA	AAA	10					
1978															AAA	AAA	10					
1979															AAA		10					

PUERTO RICO

18.50 292.80 PR J18

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1941					A AAA AAA AAA	4	
1942					AAA AAA AAA AAA	13	
1943					AAA AAA AAA AAA	10	
1944					AAA AAA AAA AAA	11	
1945					AAA AAA AAA AAA	11	
1946					AAA AAA AAA AAA	11	
1947					AAA AAA AAA AAA	8	
1948					AAA AAA AAA AAA	8	
1949					AAA AAA AAA AAA	8	
1950					AAA AAA AAA AAA	8	
1951	NNN AAA AAA AAA			NNN AAA AAA AAA	NNN AAA AAA AAA	12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	10	
1957	AAA AAA AAA AAA		WB	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT T T
1958	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAA			A AAA		8	T TTT
1960	AAA AAA AAA AAA						
1961	AAA AAA AAA AAA						
1962	AAA AAA AAB NBA						
1963	AAA AAB S						S

QUETTA

30.20 67.00 QT 230

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957					MMM	12	
1958					MMM MMM MMM MMM	12	
1959					MMN NNN NNN NNN	12	
1960					NNN NNN MMM MNN	12	
1961					NNN NNN NNN MNN	12	
1962					NNN NNN MNN NNN	12	

RABAT

33.90 353.90 RT 034

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958		WW WWW WWW WWW	X		AA AAA AAA AAA	12	
1959			W		AAA NNN AAA AAA	12	
1960		W	X		AAA AAA AAA AAA	12	
1961					QQQ QQQ QQQ QQQ		
1962					QQQ QQQ QQQ S		

RANGOON

16.8 96.5 43 316

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					B BBB AAA	5	
1944					AAA ANB MMM MMM	5	
1945					S		

RAROTONGA

-21.20 200.20 RA 72J

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					AA A AAA	11	
1946					AAA AAA AAA AAA	6	

RAROTONGA (CONTINUED) -21.20 200.20 RA 72J

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL				
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	
1947														AAA	A	A	AAA	AAA	2				
1948														AA	AA	AAA	AAA	13					
1949														AAA	AAA	AAA	AAA	13					
1950														AAA	AAA	AAA	AAA	12					
1951														AAA	AAA	AAA	AAA	16					
1952														AAA	AAA	AAA	AAA	16					
1953														AAA	AAA	AAA	AAA	16					
1954														AAA	AAA	AAA	AAA	16					
1955														AAA	AAA	AAA	AAA	9					
1956														AAA	AAA	AAA	AAA	9					
1957	BBB	BBB	BBB	BBB			WWW	WWW		X				BAA	AAA	AAA	AAA	9					
1958	BB	BB	BBB	BBB	WWW	WWW	WWW	WWW		X				AAA	AAA	AAA	AAA	13					
1959	BBB	BBB	BBB	BBB	WWW	WWW	WWW	WWW		X				AAA	AAA	AAA	AAA	7					
1960	BBB	BBB	BBB	BBB	WWW	WWW	WWW	WWW		X				AAA	AAA	AAA	AAA	7					
1961	BBB	BBB	BBB	BBB	WWW	WWW	WWW	WWW		X				AAA	AAA	AAA	AAA	7					
1962	BBB	BBB	BBB	BBB	WWW	WWW	WWW	WWW		X				AAA	AAA	AAA	AAA	8					
1963				BB	WWW	WWW	WWW	WWW		X				AAA	AAA	AAA	AAA	14					
1964					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM	
1965		BB			WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	S				
1966														AAA	AAA	AAA	ABA	14	MMM	MMM	MMM	M M	
1967														AAA	AAB	BAA	AAA	14	MMM	MMM	MMM	MMM	
1968			BB											AAA	AAA	AAA	AAA	2	MMM	MMM	MMM	M	
1969														AAB	AAA	AAA	AAA	3	MMM	MMM	MMM	MM	
1970														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM	
1971														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM	
1972														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM	
1973														ABA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM	
1974														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM	
1975														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM	
1976														AAA	AAA	AAA	AAA	11					
1977														AAA	AAA	AAA	AAA	11					
1978														AAA	AAA	AAA	AAA	11					
1979														AAA	AAA	AAA	AAA	11					
1980														S					S				

RESOLUTE BAY 74.70 265.10 RB 974

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1949		AAA	AAA	AAA										AA	AAA	AAA	AAA	12				
1950		AAA	AAA	AAA	AAA									AAA	AAA	AAA	AAA	14				
1951		AAA	AAA	AAA	AAA									AAA	AAA	AAA	AAA	16				
1952	A													AAA	AAA	AAA	AAA	13				
1953														AAA	AAA	AAA	AAA	11				
1954														AAA	AAA	AAA	AAA	11				
1955														AAA	AAA	AAA	AAA	11				
1956														AAA	AAA	AAA	AAA	8				
1957			ABA	AAA			ABA	AAA						AAA	AAA	ABA	AAA	10				
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	10				
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11				
1964	AAA	AAA	A B	ABA	AAA	AAA	ABB	BBA						AAA	AAA	AAA	BAA	10	MMM	MMM	MMM	MMM
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10	TTT	TTT	TTT	TTT
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1968	AAA	AAA	ABA	AAA	AAA	AAA	ABA	AAA	X					AAA	AAA	ABA	AAA	11	TTT	TTT	TTT	TTT
1969	AAA	AAB	BNB	NNN	AAA	AAB	BNB	NNN	X					AAA	AAB	BNB	NNN	11	TTT	TTT	TTT	TTT
1970	NAA	AAA	AAA	AAA	NAA	AAA	AAA	AAA	X					NAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1971	AAA	AAA	AAA	ABB	AAA	AAA	AAA	ABB	X					AAA	AAA	AAA	ABB	11	AAA	AAA	AAA	AAA
1972	AAA	BBA	ABA	BAA	AAA	BBA	ABA	AAA	X					AAA	BBA	ABA	AAA	11	TTT	TTT	TTT	TTT
1973	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1974	AAA	BAA	AAA	AAN	AAA	BAB	AAA	AAN	X					AAA	BAB	AAA	AAN	11	AAA	AAA	AAA	AAA
1975	NNB	AAA	AAA	AAA	NNB	AAA	AAA	AAA	X					NNA	AAA	AAA	AAA	11	TMT	TTT	TTT	TTT
1976	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	TT	TTT	TTT	TTT

RESOLUTE BAY (CONTINUED) 74.70 265.10 RB 974

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1978	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1979	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1980	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1981		AAA AAA A			AAA AAA AAA	12	TTT TT TT

REYKJAVIK 64.10 338.20 RK A64

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1944	A AAA AAA AAA				AA AAA AAA AAA	12	
1945	AAA AAA A				AAA AAA A	10	
1950	AAA AAA AAA AAA			AAA BAA AAB BAA	AAA AAA AAA AAA	12	
1951	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA A A AAA	12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			BAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	9	
1957	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	12	TT T TT TT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT T T TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TT TTT TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TT TTT TTT
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	T T TTT TT TTT
1963	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1965	S	S		S	S		

ROME 41.90 12.52 RO 041

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1951					AAA AA	9	
1957					A	8	
1958					AAA AAA AAA ABA	9	
1959					AAA AAA AAA AAA	9	
1960					AAA AAA AAA AAA	9	
1961					AAA AAA AAA AAA	9	
1962					AAA AAA AAA AAA	9	
1963					AAA AAA AAA AAA	9	
1964					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1965					AAB BAA AAA AAA	9	MMM MMM MMM MMM
1966					AAA AAA AAA ABB	9	MMM MMM MMM M M
1967					AAA AAA AAA AAA	9	MM
1968					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1973					NAA AAA AAA AAA	11	MM MMM MMM MMM
1974	B				AAA AAA AAA AAA	11	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1976					AAA ANA AAA AAA	16	MMM MMM MMM MMM
1977					AAA AAA AAA AAA	16	
1978					AAA AAA AAA AAA	16	
1979					AAA AAA AAA AAA	16	
1980					AA AAA AAA AAA	16	
1981					A		

ROSTOV

47.20 39.68 RV 149

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1956														M	M						8	
1957			WWW	WWW					W					M	M	MM	AAA	AAA			10	
1958	WWW	WWW	WWW	WWW	WNW	AAA	AAA	AAA						ANA	AAA	AAA	AAA				14	
1959	WWW	WWW	WWW	WWW	AAA	AAA	NAA	AAA						AAA	AAA	NAA	AAA				14	
1960	WWW	WWW	W	W	WWW	AAA	AAA	ABA	BAA	X				AAA	AAA	ABA	BAA				14	
1961	WWW	WWW	WWW	WWW	AAA	AAB	AAA	AAA		X				AAA	AAB	AAA	AAA				14	
1962	WWW	WWW	WW	WWW	AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA				14	
1963					AAA	AAA	BBA	AAA		X				AAA	AAA	BBA	AAA				14	
1964	WWW	WWW	WWW	WWW	AAA	AAB	AAA	AAA		X				AAA	AAB	AAA	AAA	M	MMM	MMM	MMM	
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1966	WWW	WWW	W	W	W	AAA	AAA	ABA	ABA	X				AAA	AAA	ABA	ABA	MMM	MMM	MMM	MMM	
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1968	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1969	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1970	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1971	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1972	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1973	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	
1974	WW	WWW	WWW	WWW	NAA	AAA	BAA	AAA		X				NAA	AAA	BAA	AAA	MM	MMM	MMM	MMM	
1975	WWW	WWW	WWW	WWW	A	AA	AAA	AAA		X				AAA	AAA	AAA	AAA	MMM	M	M	MM	
1976	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA					
1977	WWW	WW	WWW	WWW	AAA	AA	AAA	AAA		X				AAA	AA	AAA	AAA					
1978					AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA					
1979					AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA					
1980					AAA	AAA	AAA	AAA		X				AAA	AAA	AAA	AAA					

SALEKHARD

66.50 66.70 SD 266

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957				WWW				BAW NN								BAB NNA	10					
1958		W	WWW	WWW	WWW		W	AAA AAA AAA					AAA AAA AAA AAA	14								
1959	A					AAA	ANN NAA AAA		X				AAA ANN NAA AAA	14								
1960	WWW	WWW	WWW	WWW		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14								
1961	WWW	WWW	WWW	WW		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14								
1962	WWW	WWW	WWW	W		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14								
1963	WWW	WWW	WWW				AA AAA ABA		X				AAA AAA AAA ABA	14								
1964			WWW	W	WW	AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14	M	M	MMM	MMM	MMM	MMM		
1965	WWW	W	W	WWW	WWW	AAA	AAB BAA AAA		X				AAA AAA BAA AAA	14	MMM	MMM	MMM	MMM	MMM	MMM		
1966		W	WW	WW		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14	MMM	MMM	MMM	MMM	MMM	MMM		
1967	WWW	WWW	WWW	WWW		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14	MMM	MMM	MMM	MMM	MMM	MMM		
1968	WWW	WWW	WWW	WWW		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14	MMM	MMM	MMM	MMM	MMM	MMM		
1969	WW	WWW	WWW	WWW		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14	MMM	MMM	MMM	MMM	MMM	MMM		
1970	WWW	WWW	W	W	WWW	AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14	MMM	MMM	MMM	MMM	MMM	MMM		
1971	WWW	WWW	WWW	WWW		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14	MMM	MMM	MMM	MMM	MMM	MMM		
1972	WWW	WWW	WWW	WWW		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14	MMM	MMM	MMM	MMM	MMM	MMM		
1973	WWW	WWW	WWW	WWW		AAA	AAA AA AAA		X				AAA AAA AA AAA	14	MMM	MMM	MM	M	M	M		
1974	WWW	WWW	W	W	WWW	AAA	BAA AAA AAA		X				AAA BAA AAA AAA	14	MMM	MMM	MMM	MMM	MMM	MMM		
1975	WWW		WW	WWW		AAA	AAA AAA AAA		X				AAA AAA AA AAA	14	MMM	MM	MM	M				
1976	WWW	WWW	WWW	WWW		AA		AA X					AA A AAA A A	14								
1977		WW	WWW	WWW		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	14								
1978	WWW	WWW	WWW	WWW		A	AAA AAA AAA		X				AAA AAA AAA AAA	14								
1979	WWW	WWW	WWW	WWW		AAA	AAA AAA AAA		X				AAA AAA AAA AAA	13								
1980	WWW	WW				AAA	AAA AA A		X				AAA AAA AA AAA	13								
1981													AAA A	13								

SALISBURY

-34.70 138.60 SR 53M

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1962																AAA					11	
1963														AAA	AAA	AAA	AAA					11
1964														AAA	AAA	AAA	AAA	MMM	MMM	MMM	MMM	11
1965														AAA	AAA	AAA	AAA					11
1966														AAB	AAA	AAA	AAA	MMM	MMM	MMM	MM	11

SALISBURY (CONTINUED) -34.70 138.60 SR 53M

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1967														AAA	ABN	NNN	NNN	10				
1968														BBA	BAB	AAA	BAA	10	MMM	MMM	MMM	MMM
1969		W												AAB	AAA	AAA	BAA	11	MMM	M	MMM	MMM
1970														AAB	AAA	ANB	AAB	10	MMM	MMM	M	MMM
1971														AAA	AAA	AAA	ABA	15	TTT	TTT	TTT	TTT
1972														AAA	AAA	AAA	AAA	10	TTT	TTT	TTT	TTT
1973														BAA	AAA	AAA	AAA	9	TTT	TTT	TTT	TTT
1974														S					S			

SALISBURY/RHOD -17.80 31.00 SY 11P

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958														BBB	BBB	BBB	BBB	12				
1959														S								

SANAE -70.30 357.60 QM 07!

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1962														A	AAA	AAA		6				
1963														AAA	AAA	AAA	ABA	6				
1964														ABA	AAA	AAA	AAA	8	MMM	MMM	MMM	MMM
1965														AAB	BAA	AAA	ABA	8	M	MM		
1966														NAA	AAA	AAA	AAA	10	MM	MM	MMM	MMM
1967														AAA	AAA	AAA	AAA	10				
1968														AAA	AAA	AAA	AAA	10	MMM	MMM	MMM	MMM
1969														BAA	AAA	AAA	AAA	10	MMM	MMM	MMM	MMM
1970														AAA	AAA	ANN	NNN	10	MMM	MMM	M	
1971														NNB	AAA	AAA	AAA	10	M	MMM	MMM	MMM
1972														AAA	ABN	BAA	AAA	11	MMM	M	MM	MMM
1973														ANA	ABA	AAA	AAA	11	M	M	MMM	MMM
1974														BAA	AAA	AAA	ABA	11	MMM	MMM	MMM	MMM
1975														ABA	AAA	AAA	AAA	13	MMM	MMM	MM	M
1976														AAA	AAA	AAA	AAA	13				
1977														AAA	AAA	AAA	AAA	13				
1978														AAA	AAA	AAA	AA	13				
1979														A	AAA	AA		13				

SAN JUAN -31.50 294.50 SN J3J

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1980														A	AAA	AAA		10				
1981														AAA				10				

SAN SALVADOR 24.10 285.50 SS J24

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958				BA				BA	X				BA				BA	13				
1959	AAA	AAA	AAA	AAA	AAA	ABA	AAA	AAA	X	A		B		A				13	T			
1960	AAA	AAA	ABA	AAA	BAB	AAA	AAA	AAA	X													
1961	AAA	AAB	ABA	AAA	AAA	AAA	AAA	AAA	X													
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1965	ABS				ABS				X												S	

SAO PAULO

-23.50 313.50 SP J2L

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1953														AA	AAA	AAA					3	
1954														AAA	AAA	AAA	AAA				12	
1955														AAA	AAA	AAA	AAA				12	
1956														AA	AAA	AAA					11	
1957				AAA	AAA			WWW	W	W					AAA	AAA					10	
1958	AAA	AAA	AAA	AAB		WWW	WWW	WWW	WWW				AAA	AAA	AAA	AAB					10	
1959						WWW	WWW	WWW	WWW				AAA	AAA	AAA	AAA					10	
1960						WWW	WWW	WWW	WWW				AAA	AAA	AAA	AAA					13	
1961						W	W	WWW	WWW	NWW			AAA	AAA	AAA	NAA					13	
1962						WW			W	WWW			AAA	AAA	ABA	BBA					13	
1963									W				BBA	NBB	BAM	MBB					13	
1964																						
1965			S			S				S			S									

SCHWARZENBURG

46.60 6.70 SZ 045

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1950													A	6				
1951											AAA	AAA	AAA	AAA	8			
1952											AAA	AAA	AAA	AAA	9			
1953											AAA	AAA	AAA	AAA	9			
1954											AAA	AAA	AA	AAA	9			
1955											AAA	AAA	AAA	AAA	9			
1956											AAA	ANN	AAA	AAA	9			
1957											AAA	AAA	AAA	AAA	9			
1958	B										AAA	AAA	AAA	AAA	9			
1959											AAA	NNN	AAA	AAA	9			
1960											AAA	AAA	AAA	AAA	10			
1961											AAA	AAA	AAA	AAA	9			
1962											AAA	AAA	AAA	AAA	9			
1963											AAA	AAA	AAA	AAA	9			
1964											AAA	AAA	ANA	BAA	9	MMM	MMM	M M MMM
1965											AAA	AAA	AAA	AAA	9			
1966											AAB	AAA	AAA	AAA	9	MMM	MMM	MMM MMM
1967											AAA	AAA	AAA	AAB	9	MMM	MMM	M
1968											AAA	ABA	BAA	AAA	9	MMM	MMM	MMM MMM
1969											AAA	AAA	BAA	AAA	9	MM	MMM	MM MMM
1970											AAA	BAB	ABB	BAA	9	MMM	MMM	MMM MMM
1971											AAA	AAA	AAA	A	9	MMM	MMM	MMM MMM
1972											BAA	BBA		S	9	MMM	MMM	MMM MS

SCOTT BASE

-77.90 166.80 SB 67Q

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL					
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		
1957			W	WWW	WWW			WWW	WWW	X				A	AAA	AAA	AAA					13		
1958	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	X				AAA	AAA	AAA	AAA					13		
1959	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	X				BBA	BBA	AAA	AAA					7		
1960	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW	X				AAA	AAA	AAA	AAA					7		
1961						WWW	WWW	WWW	WWW	X				AAA	AAA	AAA	AAA					7		
1962				BB		WWW	WWW	WWW	WWW	X				AAA	AAA	AAA	AAB					13		
1963						WWW	WWW	WWW	WWW	X				BAA	AAA	AAA	ABA					14		
1964						WWW	WWW	WWW	WWW					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14	
1965						WWW	WWW	WWW	WWW					AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14	
1966						WWW	WWW	WWW	WWW					AAA	AAA	AAA	ABA		MMM	MMM	MMM	MMM	14	
1967														AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	14	
1968														AAA	AAA	AAA	AAA			M			3	
1969														AAA	AAA	AAA	AAA		MMM	MMM	M	M	MMM	3
1970														AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	4	
1971														AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	4	
1972														BAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	4	
1973														AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	4	
1974														AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	4	
1975														AAA	AAA	AAA	AAA		MMM	MMM	MMM	MMM	4	

SCOTT BASE (CONTINUED) -77.90 166.80 SB 67Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1976					AAA AAA AAA AAA	4	
1977					AAA AAA AAA AAA	11	
1978					AAA AAA AAA AAA	11	
1979					AAA AAA AAA AAA	11	
1980					A AAA	11	

SEATTLE 47.75 237.58 SE 847

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	BAA AAA AAA AB						
1959	AAA AAA AAA						
1960	AAA AS						

SEOUL 37.39 126.95 SU 437

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1967	A AA						
1968							
1969	B BA BBB BB						
1970	BA B	A			AAA	12	MMM
1973					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1974					AAA AAA AAB AAB	12	MMM MMM MMM MMM
1975					BBA AAA ABA AAA	12	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	12	
1977					AAA AAA AAA AAA	12	
1978					AAA AAA AAA AAA	12	
1979					AAA AAA AAA AAA	12	
1980	WWW WWW WWW WWW				A AA AAA AAA	12	
1981					AAA AAA A	12	

SHIBATA 37.9 139.3 44 537

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					AA	10	
1947					AAA AAA AAA AAA	10	
1948					AAA AAA AAA AAA	10	
1949					AAA AAA AAA S	11	

SHIKUKA 49.3 143.0 45 549

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1940					BBM	1	
1941					BBB BBB BBB BBB	3	
1942					S		

SIMFEROPOL 44.80 34.10 SF 144

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AAA AAA	A AAA	X		M M M M A AAA	14	
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1959	A A	BNN NAA AAA AAA	X		BNN NAA AAA AAA	14	
1961	A						

SINGAPORE

1.4 103.7 SI 301

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1943										BM	MMM	MMM	MMM	8				
1944										MMM	MNM	MMM	MMN	8				
1945																		
1946										B	B							
1948													BMM	4				
1949										AAA	AAA	AAA	AAA	4				
1950										AAA	AAA	AAA	AAA	4				
1951										AAA	BAA	AAA	AAA	4				
1952										AAA	AAA	AAA	AAA	4				
1953										AAA	AAA	AAA	AAA	4				
1954										AAA	AAA	AAA	AAA	4				
1955										AAA	AAA	AAA	AAA	4				
1956										AAA	AAA	AAA	AAA	4				
1957			WWW	WWW				W	WWW	WWW				6				
1958	WWW	WWW	WWW	WWW			WWW	WWW	WWW	WWW				6				
1959	W						W							6				
1960										AAA	AAA	AAA	AAA	6				
1961										AAA	AAA	AAA	AAA	6				
1962										AAA	AAA	AAA	AAA	6				
1963										AAA	AAA	AAA	AAA	6				
1964	WWW	WWW	WWW	WWW			WW	W	WW	WW				12	MMM	MMM	MMM	MMM
1965	WWW	WW		W	WWW		WWW	WWW	WWW	WWW			A AAA	13	MMM	MMM	MMM	MMM
1966	WWW	WWW	WWW	WA			WWW	WWW	WWW	WWW			AAA AAA AA	13	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW			WWW	WWW	WWW	WWW			ABB	13	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW			WWW	WWW	WWW	WWW			AAA	13	MMM	MMM	MMM	MMM
1969	WBB	BBB	BBW	WW			WWW	WW	WWW	WWW			AAA	13	MMM	MMM	MMM	MMM
1970	WWW	WNB	BBB	BWW			WWW	WWW	WWW	WWW			AAA	13	MMM	MMM	MMM	MMM
1971	BBB	BBB		S			WWW	WWW	WWS				AAA	13	MMM	MMM	MS	

SLOUGH

51.50 359.43 SL 051

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1930													AA AAA	2				
1931										A A	A		A	1				
1932										AA	A		AAA	5				
1933										AAA	AAA	AA	A	6				
1934										AAA	AAA	AAA	AAA	6				
1935										AAA	AAA	AAA	AAA	6				
1936										AAA	AAA	AAA	AAA	6				
1937										AAA	AAA	AAA	AAA	6				
1938										AAA	AAA	AAA	AAA	6				
1939										AAA	AAA	AAN	AAA	6				
1940										AAA	AAA	AAA	AAA	8				
1941										AAA	AAA	AAA	AAA	8				
1942										AAA	AAA	AAA	AAA	10				
1943										AAA	AAA	AAA	AAA	10				
1944			W	WWW	WWW	WWW				AAA	AAA	AAA	AAA	8				
1945	WWW	WWW	WWW							AAA	AAA	AAA	AAA	11				
1946										AAA	AAA	AAA	AAA	11				
1947										AAA	AAA	AAA	AAA	4				
1948										AAA	AAA	AAA	AAA	4				
1949										AAA	AAA	AAA	AAA	4				
1950										AAA	AAA	AAA	AAA	4				
1951										AAA	AAA	AAA	AAA	4				
1952										AAA	AAA	AAA	AAA	4				
1953										AAA	AAA	AAA	AAA	4				
1954										AAA	AAA	AAA	AAA	4				
1955										AAA	AAA	AAA	AAA	4				
1956										AAA	AAA	AAA	AAA	4				
1957			WWW	WWW					WWW	WWW				6				
1958	ABW	WWW	WBW	WWW			WWW	WWW	WWW	WWW				6				
1959	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	6				
1960	W									AAA	AAA	AAA	AAA	6				
1961										AAA	AAA	AAA	AAA	12				
1962										AAA	AAA	AAA	AAA	12				
1963										AAA	AAA	AAA	AAA	12				
1964	WWW	WWW					WWW	WWW	WWW	WWW				12	MMM	MMM	MMM	MMM

SLOUGH (CONTINUED)

51.50 359.43 SL 051

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1965				WWW	WWW	WWW	WWW	WWW					A AAA	AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1966	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAM	M	MMM	
1967	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	13	AAT	TTT	TTT	TTT
1968	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1969	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1970	WWW	WWW	WWW	WWW	WWW	WW	WW	WWW						AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1971	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1972	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1973	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TAA
1974	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1975	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1976	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1977	WWW	WW	WWW	WW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1978	WWW	WWW	WWW	WWW										AAA	AAA	AAA	AAA	14				
1979	WWW	WWW	WWW	WWW										AAA	AAA	AAA	AAA	14				
1980	WWW	WWW	WWW	WWW										AAA	AAA	AAA	AAA	14				
1981	WWW	WWW												AA				14				

SLUTSK

59.70 30.5 46 151

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1939														MMM	MMM	MMM	MMM	6				
1940														MMM	MMM	MMM	MMM	6				
1941														MMM	MMM	MM		6				

SNAINTON

54.2 00.00 47 05D

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														AA				1				

SODANKYLA

67.40 26.60 S0 166

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957														AA	AAA			12				
1958														AAA	AAA	AAA	AAA	13				
1959														AAA	AAA	AAA	AAA	13				
1960														AAA	AAA	AAA	AAA	13				
1961														AAA	AAA	AAA	AAA	13				
1962														AAA	AAA	AAA	AAA	13				
1963								AAA						AAA	AAA	AAA	AAA	13				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1965	WWW	WWW		WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1966	WWW	WWW			AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	M	MMM	MMM	MMM
1967					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	MM		MMM	
1968					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	M
1969					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971				B	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1972					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1974					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1975					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1976					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1977					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1978					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1979					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1980					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1981					AAA	AAA	AAA							AAA	AAA	AAA		14				

SOFIA

42.70 23.40 SQ 143

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	11	MM MMM MMM MMM
1966					AAA AAA AAA ABA	11	MMM MMM MMM MMM
1967					AAA ABA AAA AAA	11	MMM M M MMM MMM
1968					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1971					AAA AAA ABA AAA	11	
1972					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	12	

SOUTH GEORGIA

-54.27 323.50 SG A5M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1970		AAA AAA			AAA AAA	12	MMM MMM
1971					AAA AAA AAA AAA	12	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	12	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1974					AAA AAA AA A	14	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976					AAA AAA AAA AAA	14	
1977					AAA AAA AAA AAA	14	
1978					AAA AAA AA S	14	S

SOUTH POLE

-90.00 00.00 PO 09!

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	B AAA AAA AAA	AAA AAA	X	AAA AAA	AAA AAA	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1961	AAA AAA AAA AAA	BBA AAA AAA AAA	X	BBA AAA AAA AAA	BBA AAA AAA AAA	13	TTT TTT TT TT
1962	AAA AAA AAA AAA	AAA AAA AAA AB	X	AAA AAA AAA AB	AAA AAA AAA A	13	TTT TTT TTT T
1963	AAN NNB AAA ANA	AAN NNB AAA ANB	X	AAN NNB AAA ANB	AAN NNB AAA AN	13	AA A AAA A
1964	AAA AAA AAA ABA	B AAA AAB BA	X	BBB AAA AAA BBA	BBB AAA AAA BAA	15	AAA AAA AAA AAA
1965	AAA AAA AAA AAA	AAA AA AAA AAA		AAA AA AAA AAA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AAA AAA AAA A		AAA AAA AAA AAA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1967	AAA AAA AAA BAA			AAA AAA AAA BAA		7	
1968	ABB B BBS						S

SOYA SHIP

-60.00 00.00 XD

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956					BA	10	
1957					AAA B	9	
1958					BA	9	
1959					B AA	9	
1960					BAA B BA	9	
1961					AAB B	9	
1962					BBA BS	9	

STANFORD

37.40 237.80 ST 837

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1942					AA AAA AAA AAA	10	
1943					AAA AAA AAA AAA	11	

STANFORD (CONTINUED) 37.40 237.80 ST 837

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														AAA	AAA	AAA	AAA	14				
1945														AAA	AAA	AAA	AAA	15				
1946														AAA	AAA	AAA	AAA	15				
1947														AAA	AAA	AAA	AAA	15				
1948														AAA	AAA	AAA	AAA	11				
1949			AAA	AAA										AAA	AAA	AAA	AAA	11				
1950	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	11				
1951	AAA	A	AAA	AAA							A	AAA	AAA	AAA	AAA	AAA	AAA	13				
1952	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1953	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA							AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1956	AAA	AAA	AAB	BNA							AAA	AAA	AAA	BAA	AAA	AAA	AAA	10				
1957	AAA	AAA	AAA	AAA			WBW	WWW	X		AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1958	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X		AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TT	TTT	TTT	TTT
1959	AAA	AAA	NNA	AAA	W				X	A				A				13	T			
1963	BAA	AAA	AAA	AAA																		
1964	AAA	AAA	AAA	AAA																		
1965	AAA	AAA	AAA	AAA																		
1966	BAA	AAA	AAA	AAA																		
1967	ABN	BAA	AAA	AAA			B	AAA	AAA									1				
1968	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA									1				
1969	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA									1				
1970	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA									1				
1971	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA									1				
1972	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA									1				
1973	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA									1				
1974	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA									1				
1975	AAS				AAS													1	S			

CLOSED, MAR. 1975

ST JOHNS 47.60 307.30 SJ J47

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														A								
1945														AAA	AAA	AAA	AAA	12				
1946														AAA	AA	AAA	AAA	13				
1947														AAA	AAA	AAA	AAA	13				
1948														AAA	AAA	AAA	AAA	13				
1949														AAA	AAA	AAA	AAA	12				
1950														AAA	AAA	AAA	AAA	12				
1951	AA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	13				
1952	A													AAA	AAA	AAA	AAA	12				
1953														AAA	AAA	AAA	AAA	10				
1954														AAA	AAA	S		10				
1957	BAA	AAA	AAA	AAA	AA	AAA	AAA	AAA		BAA	AAA	AAA	AAA	AA	AAA	AAA	AAA	13	T	TTT	TTT	TTT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TT
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AA			AAA	AAA	AAA	AAA	12	TTT	TT		
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1964	AAA	AAB	AAA	AAA	AAA	AAB	AAA	AAA						AAA	AAA	AAA	AAA	10	MMM	MMM	MMM	MMM
1965	AAA	AAA	ABA	AAA	AAA	AAA	ABA	AAA						AAA	AAA	ABA	AAA	10	TTT	TTT	TTT	TTT
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1968	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1969	AAA	ABA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1970	AAA	BBA	AAA	AAA	AAA	BBA	AAA	AAA	X					AAA	BBA	AAA	AAA	11	TTT	TTT	TTT	TTT
1971	BBA	AAA	ABA	AAA	BBA	AAA	ABA	AAA	X					AAA	AAA	ABA	AAA	11	AAA	AAA	AAA	AAA
1972	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1973	AAA	BAA	AAA	AAA	AAA	BAA	AAA	AAA	X										AAA	AAA	AAA	AAA
1974	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1976	AAA	AAA	AAA	AAA	AAA	AAA	BAA	AAA	X					AAA	AAA	BAA	AAA	11	AAA	AAA	AAA	AAA
1977	AAA	AAA	S		AAA	AAB	S							AAA	AAB	S		12	AA	AAA	S	

ST JOHNS (CONTINUED) 47.60 307.30 SJ J47

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1980	AAA	AAA	AAA	AAA	AAB	BAA	AAS							AAB	BAA	AAS		12	TTT	TTT	TTT	S

SVERDLOVSK 56.70 61.10 SV 256

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														AA	AAA	AAA		1				
1945														AAA	AAA	AAA	AAA	8				
1946														MMM	MMM	MMM	MMM	8				
1947														MM				5				
1956														M	M			8				
1957			WWW	WWW			WWW	WWW	X					M	M	MMM	AAA	AAA	14			
1958	WWW	WWW	WWW	WWW		WWA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14				
1959	A	A		A		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14				
1960			W	WWW	WWW		AAA	AAA	AAA	AAA	X			AAA	AAA	AAA	AAA	14				
1961	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14				
1962	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14				
1963	W	W	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X			AAA	AAA	AAA	AAA	14				
1964	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1966	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	WWW	WW	WW	W	W		AAA	AAA	AAA	AAA	X			AAA	AAA	AAA	AAA	14	MMM	MMM	MM	MMM
1968	WWW	W		WWW	WWW		AAA	AAA	AAA	AAA	X			AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1969	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970	WWW	WWW	W	W	GW		AAA	AAA	AAA	AAA	X			AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971	WWW	WWW	WWW	WW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1972	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1974	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14	MM	MMM	MMM	MMM
1975	WWW	W	W	WWW	WWW		AA	AAA	AAA	AAA	X			AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MM
1976	WWW	WWW	WWW	WW		AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AA	14				
1977						A	AAA	AAA	AAA	X				AAA	AAA	A	A	AAA	14			
1978						AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14				
1979						AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14				
1980						AAA	AAA	AAA	AAA	X				AAA	AAA	AAA	AAA	14				
1981						AA				X				AA				14				

SWAN RIVER 52.10 258.80 48 952

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946														A	AS			12				

SYOWA BASE -69.00 39.60 SW 16R

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1959	WW	WWW	WWW	WWW		BA	AAA	AAA	AAA					BA	AAA	AAA	AAA	10				
1960	WWW	WWW	WWW	WWW		A								AAA	AAA	AAA	AAA	10				
1961	WWW	WWW	WWW	WWW										AAA	AAA	AAA	AAA	10				
1962														B				9				
1966	PP	PPP	PPP	PP										NAA	AAA	AAA	AAA	9	MM	MMM	MMM	MMM
1967	PPP	PPP	PPP	PPP										ABA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1968	PPP	PPP	PPP	PPP										AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1969	PPP	PPP	PPP	PPP										AAA	AAA	AAA	AAA	9	MMM	MMM	M	M
1970	PPP	PPP	PPP	PPP										AAA	AAA	AAA	AAA	10	MMM	MMM	MMM	MMM
1971	PPP	PPP	PPP	PPP				WWW	WWW					AAA	AAA	AAA	AAA	10	MMM	MMM	MMM	MMM
1972	PPP	PPP	PPP	PPP		WWW	WWW	WWW	WWW					AAA	AAA	AAA	AAA	10	MMM	MAA	AAA	AAA
1973	PPP	PPP	PPP	PPP		WWW	WWW	WWW	WWW					AAA	AAA	AAA	AAA	10	AAA	AAA	AAA	AAA
1974	PPP	PPP	PPP	PPP		WWW	WWW	WWW	WWW					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1975	PPP	PPP	PPP	PPP		WWW	WWW	WWW	WWW					AAA	AAA	AAA	AAA	11	MMM	MMM		
1976	PPP	PPP	PP	PPP		WWW	WWW	WWW	WWW					AAA	AAA	AAA	AAA	11				

SYOWA BASE (CONTINUED) -69.00 39.60 SW 16R

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1977	PPP PPP PPP PPP	WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1978	PPP PPP PPP PPP	WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1979	PPP PPP PPP PPP						
1980	P						

TAHITI -17.70 210.70 TT 71P

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957					A	12	
1958	BBA AAA AAA AAA				AAA AAA AAA AAA	12	
1959	B				AAA AAA AAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA AAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					AAB ABN ABB BBB	12	MMM MM MMM MMM
1965	B				BBB BBB AAA AAA	12	MMM MMM MMM MMM
1966	A				ABB AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1969		BB			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1970	B				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1977					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1978					AAA AAA BBA AAA	14	TTT TTT TTT TTT
1979					AAA AAA AAA AAA	14	
1980					AAA AAA	14	

TAIPEI 25.0 121.20 TP 424

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1950					A AAA AAA AAA	14	
1951					AAA AAA AAA AAA	14	
1952					AAA AAA AAA AAA	13	
1953					AAA AAA AAA AAA	13	
1954					AAA AAA AAA AAA	13	
1955					AAA AAA AAA AAA	13	
1956					AAA AAA AAA AAA	13	
1957	WWW WWW	WWW WWW			AAA AAA AAA AAA	11	
1958	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1959	WWW WWW WWW WBW	WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1960	WWW W	AAA AAA AAA AAA			AAA AAA AAA AAA	13	
1961		BAA AAA AAA AAA			BAA AAA AAA AAA	13	
1962	BB	AAA A A AAA AAA			AAA AAA AAA AAA	13	
1963		AAA AAA AAA AAA			AAA AAA AAA AAA	13	
1964	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	15	MMM MMM MMM MMM
1965	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	15	MMM MMM MMM MMM
1966	WWW WAA AAA AAA	AAA AAA AAA AAA	X	BA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1967	AAA AAA WWW WWW	AAA AAA AAA AAA	X	AAA AAA	AAA AAA AAA AAA	15	MM M M
1968	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM M
1969	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970	W	AAA AAA AAA AAA	X	A AAA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1971		AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1972		AAA AAA AAA AAA	X	AAA AAA AA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1973		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1974		AAA AAA AAA AAA	X	AAA A AAA	AAA AAA AAA AAA	15	MM MMM MMM MMM
1975		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1976		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	

TAIPEI (CONTINUED)

25.0 121.20 TP 424

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1977					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	15				
1978					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	15				
1979					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	15				
1980					AAA	AAA	AAA	AA						AAA	AAA	AAA	AA	15				

TALARA

-04.60 278.70 TA 90M

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1954				B									B					13				
1955	B	A	AAA	AAA						AAA	MAA	AAA	AAA	BAA	AAA	AAA	AAA	13				
1956	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	10				
1957	AAA	AAA	AAA	AAA			AAA	AAA	X	AAA	A	A	AAA	AAA	AAA	AAA	AAA	13	TTT	TT	TTT	TTT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	T	TTT
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TT	TT
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	T
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AA
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1966	S				S					S				S					S			

TAMANRASSET

22.80 5.53 TN 022

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1956														AAA				10				
1957														AAA	A	AAA	NAN	10				
1958														NAA	AAA	AAA	AAN	12				
1959														AAA	AAA	AAA	BNN	12				
1960														BAA	ABA	AAA	AAA	12				
1961		B	A	B										AAB	ABB	BBA	AAA	12				
1962														BAB	NNN	NNN	BAB	12				
1963														AAA	AAA	NNA	BBA	12				
1964														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1965														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1966														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1967														AAA	AAA	AAA	AAB	12	MMM	MMM	MMM	MMM
1968														BBB	BBB	BBB	BBB	12	MMM	MMM	MMM	MMM
1969														AAA	AAB	BBA	AAA	12	MMM	MMM	MMM	MMM
1970														BS				13	MS			

CLOSED, DATE UNKNOWN

TANANARIVE

-18.80 47.50 IV 21Q

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1951																	AA	20				
1952														AAA	AAA	AAA	AAA	21				
1953														AAA	AAA	AAA	AAA	21				
1954														AAA	AAA	AAA	AA	17				
1955																						
1956														AAA	AAA	AAA	AAA	12				
1957														AAA	AAA	AAA	AAA	12				
1958														BAA	AAA	AAA	AAA	12				
1959														AAA	AAA	AAA	AAA	12				
1960														AAA	AAA	AAA	AAA	12				
1961														AAA	AAA	AAA	AAA	12				
1962														AAA	AAA	AAA	AAA	12				
1963														AAA	AAA	AAA	AAA	12				

TANANARIVE (CONTINUED) -18.80 47.50 IV 21Q

YEAR	IONOGRAMS				M	WORKSHEETS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1964										12	AAA	AAA	AAA	AAA
1965		B	AB							12	AAA	AAA	AAA	AAA
1966										12	AAA	AAA	AAA	AAA
1967										12	AAA	AAA	AAA	AAA
1968										12	AAA	AAA	AAA	AAA
1969										12	AAA	AAA	AAA	ABB
1970										12	AAA	AAA	AAA	AAA
1971										12	AAA	A		
1972										12		S		S

TASHKENT 41.33 69.62 TQ 241

YEAR	IONOGRAMS				M	WORKSHEETS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1961				A	AAA	X				15				
1962				ANN	NNN	NNN	NNN			15				
1963				NNN	NNN	NNN	NNN	NNA		15				
1964				ABA	AAN	BAA	AAA			15	M	M	MM	MMM
1965				AAA	AAA	AAA	AAA			15	M	M	MMM	MMM
1966				AAA	AAA	AAA	AAA			15	MMM	MMM	MMM	MMM
1967				AAA	AAA	AAA	AAA			15	MMM	MMM	MMM	MMM
1968				AAA	NNA	AAA	AAA			15	MMM	M	MMM	MMM
1969				AAA	AAA	AAA	AAA			15	MMM	MMM	MMM	MMM
1970				AAA	AAA	AAA	AAA			15	MMM	MMM	MMM	MMM
1971				AAA	AAA	AAA	AAA			15	MMM	MMM	MMM	MMM
1972				ANA	NNA	AAA				15	M	M	M	MMM
1978										8				
1979										8				

TBILISI 41.70 44.80 TB 142

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1963						A	AA	N	X						A	AA	N	14				
1964	WWW	WWW	WWW	WWW	AAB	AAA	AAA	AAA	X						AAB	AAA	AAA	14	MMM	MMM	MM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	BBA	X						AAA	AAA	AAA	14	M	M	MMM	MM
1966	WWW	WWW	WWW	W W	AAA	BAB	ABB	AAA	X						AAA	BAB	ABB	14	MMM	MMM	MMM	MMM
1967					AAA	BBB	BAA	AAB	X						AAA	BBB	BAA	14	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW	AAA	BBB	BBB	BBB	X						AAA	BBB	BBB	14	MMM	MMM	M	M
1969					AAA	BAA	AAA	ANA	X						AAA	AAA	AAA	14	MMM	MMM	MMM	M
1970		N	WWW	WWW	AAN	AAA	AAA	AAA	X						AAN	AAA	AAA	14	MM	MMM	MMM	MMM
1971	WW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X						AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1972	WWW	WWW	WWW		AAA	AAA	AAA	AAA	X						AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973		W	WWN	WWW	AAA	AAN	AAA	AAA	X						AAA	AAN	AAA	14	MMM	MM	MMM	MMM
1974	WW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X						AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1975	WWW	WWW	WWW	WWW	AAA	AA	AAA	AAA	X						AAA	AA	AAA	14	MMM	MM	MMM	MM
1976	WWW	WWW	WWW	WWW	AA	AAA	A	A	X						AA	AAA	AAA	14				
1977	WWW	WW	WWW	WWW	AA	AA	AAA	AAA	X						AAA	AAA	AA	14				
1978			W	WW	AA	A	AAA	AAA	X						AA	A	AAA	14				
1979		WW	W	W	AAA	AA	AAA	A	X						AAA	AA	AAA	14				

TEHRAN 35.70 51.40 TE 236

YEAR	IONOGRAMS				M	WORKSHEETS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1963										8				
1964										2		MMM		MMM
1965										2	MMM	MMM	MMM	MMM
1966										2	M	M	MMM	MM

TERRE ADELIE

-66.66 140.02 DU 560

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1949							
1950							
1951					BA AAA AAA AAA	8	
1952					B	8	
1956					AAA AAA	12	
1957					A A AAA AAA AAA	12	
1958					AAA AAA AAA AAA	12	
1959					AAA AAA AAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA BAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966					ABA AAB AAA AAA	12	MMM MMM MMM MMM
1967					AAA BAA AAA AAA	12	M MMM MMM MMM
1968					AAA AAA BAA AAA	12	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	13	MMM MMM M M MMM
1970					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	14	M MMM MMM MMM
1972					AAA ANN NNN NNN	14	MMM M
1973					NNA AAA AAA NAA	14	
1974					AAA AAA AAA AAA	14	
1975					AAA AAA AAA AAA	14	
1976					ABA AAA AAA AAA	14	
1977					AAA AAA AAA AAA	14	

THE PAS

54.0 259.0 49 954

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					M M	12	
1950	AAA AAA AAA				AAA AAA AAA	13	
1951	AAA AAA AAA AAA				AAA AAA AAA AAA	13	
1952	AAA AAA				BBB BBB BBB BBB	13	
1953					AAA ANN BBN NNB	13	

THULE

77.50 290.80 TH J77

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956	AA AAA AAA AAA	AAA AAA AAA AAA		AA AAA AAA AAA	AA AAA AAA AAA	8	
1957	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA	11	TT TTT TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1960	AAA AAA BBA AAA	AAA AAA BBA AAA	X	AAA AAA BBA AAA	AAA AAA AAA AAA	13	TTT TTT T T TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TTT
1963	ABA AAA ABB AAA	ABA AAA ABB AAA	X	ABA AAA ABB AAA	AAA AAA AAA AAA	13	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1965	AAA AAA AAA AAA	AAA UAA AAA AAA	X	AAU AAA AAA AAA	AAU AAA AAA AAA	13	TTM TTT TTT TTT
1966	AAA AAA S	AAA AAA S	X	AAA AAA S	AAA AAA S	13	MMM MMM
1969	BBB BBB BBB BBB						
1970	AAA AAA AAA AAA						
1971	BAA AAA AAA AAA	BAA AAA AAA AAA	X	BAA AAA AAA AAA		16	AAA AAA AAA AAA
1972	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	A AAA	16	AAA AAA AAA AAA
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	AAA AAA AAA AAA
1974	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	AAA AAA AAA AAA
1975	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	AA
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1977	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1978	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	A A
1979	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1980	AAA AAA A	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1981		AAA AAB NNN N	X	AAA AAB NNN N		16	

THUMBA

8.60 76.90 TC 309

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1964													AAA	8				MMM
1965										BAA	BAN	AAA	AAA	8	MMM	MM	MMM	MMM
1966			A							ABA	BBN	BAA	AAA	8	MMM	MM	MMM	MMM
1967										AAA	ABB	BAA	AAB	8	MM			
1968										AAA	BAA	AAB	AAA	9	MMM	MMM	MMM	MMM
1969										ABA	BAA	NBA	AAA	9	MMM	MMM	MMM	MMM
1970										AAA	AAA	ABA	AAA	9	MMM	MMM	MMM	MMM
1971										AAB	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1972										AAA	BBA	AAA	AAA	9	MMM	MMM	MMM	MM
1973										AAB	AAA	AAA	ANA	9	MM	M	MM	M M
1974										AAA	NAA	AAA	AAA	9	MMM	MM	MMM	MMM
1975										AAA	A A	NAA	AAA	9	MMM	MMM	M	
1976										AAA	A			9				

REPLACED TRIVANDRUM

TIRUCHIRAPALLI

10.80 78.70 TI 311

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1949										BA	AAA	AAA	AAA	2				
1950										AAA	AAA	AAA	AAA	2				
1951										AAA	AAA	AAA	AAA	2				
1952										AAA	AAA	AAA	AAA	2				
1953										AAA	AAA	AAA	AAA	2				
1954										AAA	AAA	AAA	AAA	2				
1955										AAA	AAA	AAA	AAA	3				
1956										AAA	AAA	AAA	AAA	3				
1957							W		WW	AAA	AAA	AAA	AAA	3				
1958							WWW	WWW	WWW	AAA	AAA	AAA	AAA	5				
1959										AAA	AAA	AAA	AAA	5				
1960										AAA	AAA	AAA	AAA	5				
1961										AAA	AAA	AAA	AAA	5				
1962										AAA	BAA	BAA	BBB	5				
1963										BBB	BBB	BBB	BBB	5				
1964										BBN	AAA	ABA	AAA	5	MM	MMM	MMM	MMM
1965										AAA	AAA	AAA	AAA	5	MMM	MMM	MMM	MMM
1966										AAA	AAA	AAA	AAA	5	MMM	MMM	MMM	MMM
1967										AAA	AAA	AAA	AAA	5	M	MMM	MMM	MMM
1968										BAA	AAA	AAA	AAA	5	MMM	MMM	MMM	MMM
1969										AAA	AAA	AAA	AAB	5	MMM	MMM	MMM	MMM
1970										AAA	AAA	AAA	AAA	5	MMM	MMM	MMM	MMM
1971										AAA	BAA	AAA	AAA	5	MMM	MMM	MM	MMM
1972										AAA	ABA	AAA	AAA	5	MMM	MMM	MMM	MMM
1973										BAA	AAA	ABA	AAA	5		M	MM	MMM
1974										AAA	AAA	AAA	AAA	5	MMM	MMM		
1975										AAA	AAA	AAA	AAA	5				
1976										AAA	AAA	AAA	AAA	5				
1977										AAA	AAA	AAA	AAA	5				
1978										A	A A	ABA	ABA	5				
1979										AAB	B A	AAA	AAA	5				
1980										AB	BBA			5				

TIXIE BAY

71.6 129.8 TX 471

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957			WWW	NNN									AAA	NNN				
1958	NNN	WWN	WW	WWW		NNN	AAN	AAA	AAB	X	NNN	AAN	AAA	AAA	13			
1959	NWW	WWW	WWW	WWW		NAA	AAA	AAA	AAA	X	NAA	AAA	AAA	AAA	13			
1960	WWW	BBW	WWW	WWW		AAA	ANN	AAA	AAA	X	AAA	ANN	AAA	AAA	13			
1961	WWW	WNN	NNN	NNW		AAA	ANN	NNN	NNB	X	AAA	ANN	NNN	NNB	13			
1964	NNN	NNW	WW			NNN	NNA	AAA	AAA	X	NNN	NNA	AAA	AAA	13		M	MMM
1965		W	WWW	WW		AAA	AAA	BAB	ABB	X	AAA	AAA	BAB	ABB	13	M	M	MMM
1966	NNN	NNN	NNN	NN		NNN	NNN	NNN	NNA	X	NNN	NNN	NNN	NNA	10			M

TIXIE BAY (CONTINUED) 71.6 129.8 TX 471

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1967	WWW	NWW	NNN	WWW	ABA	NAA	NNN	BAA	X					ABA	NAA	NNN	BAA	13	MMM	MM	MMM	
1968	WWW	WWW	W		AAA	AAA	ABA	AAA	X					AAA	AAA	ABA	AAA	13	MMM	MMM	MMM	
1969					NNN	NAA	AAA	AAA	X					NNN	NAA	AAA	AAA	13		MM	MMM	
1970					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1971					AAA	A			X					AAA	A			14				
1974					AAA	AAA			X					AAA	AAA	AAA	AAA	8				
1976														AAA				14				

TOGO 10.80 0.40 TG 011

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1965																BAB	NBB	16			MMM	MM
1966														BBB	BBB	BBB	ABB	17	MMM	MMM	MMM	MMM
1967														AS				16	S			

TOKYO 35.70 139.50 TO 535

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945																	AAA	2				
1946														AAA	AAA	AAA	AAA	8				
1947														AAA	AAA	AAA	AAA	10				
1948														A	A	AAA	AAA	10				
1949														AAA	AAA	AAA	AAA	11				
1950														AAA	AAA	AAA	AAA	11				
1951														AAA	AAA	AAA	AAA	12				
1952														AAA	AAA	AAA	AAA	12				
1953														AAA	AAA	AAA	AAA	12				
1954														AAA	AAA	AAA	AAA	12				
1955														AAA	AA	A	AAA	12				
1956														AAA	AAA	AAA	AAA	12				
1957					AAA	AAA								AAA	AAA	AAA	AAA	14				
1958	AAB	ABB	BBB	WBW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1959	BWW	BBB	WBB	BBB	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1960	WWW	WWW	WWW	WWP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1961	BWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1962	WWW	WWW	WWW	WWB	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1966	PPP	PP	PPP	P	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	PPP	PPP	PPP	P P	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MM	MM		
1968					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMA	AAA	AAA
1969	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAM
1970	P P	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1971	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1972	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1973	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1974	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1975	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MM
1976	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1977	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1978	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1979	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1980	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1981					AAA	AAA								AAA	AAA	AAA		14				

REPLACED KOKUBUNJI

TOMSK

56.50 84.90 TK 356

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL				
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	
1937														M	MMM	MMM	MMM	1					
1938														MMM	MMM	MMM	MMM	6					
1939														MMM	MMM	MMM	MMM	6					
1940														MMM	MMM	MMM	MMM	6					
1941														MMM	MMM	MMM	MMM	6					
1942														MMM	MMM	MMM	NNM	6					
1943														MMM	MMM	MM	MMM	6					
1944														AAA	AAA	AAM	MMM	1					
1945														MMM	MMM	MMM	MMM	6					
1946														MMM	MMM	MMM	MMM	6					
1947														MM				4					
1949														AAA	AAA	AAA	AAA	3					
1950														AAA	AAA	AAA	AAA	3					
1951														AAA	AAA	AAA	AAA	3					
1956														AAA	AAA	AAA	AAA	3					
1957				WWW	WWW			AAA	AAA	X				M	M	MMM	AAA	AAA	14				
1958	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14					
1959	WW	WW	WWW	WWW	NAA	AAA	AAA	AAA	X					NAA	AAA	AAA	AAA	14					
1960	WWW	WWW	WWW	WWW	AAA	AAA	ABA	AAA	X					AAA	AAA	ABA	AAA	14					
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14					
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14					
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14					
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14					
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MM	MMM	
1966	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM	
1967	WWW	WWW			AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM	
1968			WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	M	M	
1969	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM	
1970	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM	
1971	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	M					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM	
1972	WWW	WWW	WWW	WWW		AAA	AAA	AAA	X						AAA	AAA	AAA	14	MMM	MMM	MMM	MMM	
1973	WWW	WWW	WWW	WWW	AAA	ANA	AAA	AAA	X					AAA	ANA	AAA	AAA	14	MMM	MMM	MMM	MMM	
1974	WWW	WWW	WWW	WWW	AA	AA	AAA	AAA	X					AA	AA	AAA	AAA	14	MMM	MMM	MMM	MMM	
1975	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	M		
1976	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	A	AAA	AAA	14					
1977	WWW	WWW	WWW	WWW		AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14					
1978	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13					
1979	WWW				AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13					
1980	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	A	AA	13					
1981	WWW	W			A	AA			X					AAA	A			13					

TORTOSA

40.80 0.3 EB 040

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957														AA	AAA	ABA		12				
1958														AAA	AAA	AAA	AAA	12				
1959														AAA	ABB	AAN	AAB	12				
1960														AAA	AAA	AAA	AAA	12				
1961														AAA	AAA	AAA	AAN	12				
1962														AAA	AAA	AAA	AAA	12				
1963														AAA	AAA	AAA	AAB	12				
1964														BNN	NBA	AAN	BAA	12	M	MM	MM	MMM
1965														AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1966														AAA	AAB	NNN	NNN	13	MMM	MMM		
1967			BB	BB										AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1968			B											AAA	AAB	AAA	AAA	13	MMM	MMM	M	M
1969			B	BB										AAA	AAA	AAA	AAA	13	MMM	MMM	M	M
1970														AAA	ANN	AAA	AAA	13	MMM	M	MMM	MMM
1971														AAA	AAN	NNA	AAN	13	MMM	M	M	MM
1972														NNN	AAN	NNN	NAA	13		MM		MM
1973														AAA	NNN	AAA	AAA	13	MMM		MMM	MMM
1974														AAA	AAA	AAA	AAA	13	MMM	M		
1975														AAA	AAA	AAA	AAA	13				
1976														ABB	B	BAA	AAA	13				
1977														AAA	AAA	AAA	ABA	13				
1978														AAA	NNN	NNN	NNN	13				
1979														AAA	AAA	NAA	AAA	13				

TORTOSA (CONTINUED) 40.80 0.3 EB 040

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1980														AAA	AAA	AAA	AA	13				

TOWNSVILLE -19.63 146.85 TV 51R

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946																	18					
1947														A	A	AAA	AAA	18				
1948														A				18				
1949																						
1950																						
1951														A	A			11				
1952														AAA	AAA	AAA	AAA	11				
1953														AAA	AAA	AAA	AAA	11				
1954														AAA	AAA	AAA	AAA	10			T	
1955														AAA	AAA	AAA	AAA	10				
1956																						
1957														AAA	AAA	AAA	AAB	13	TTT	TTT	TTT	TTT
1958														BAA	ABA	AAA	AAB	13	TTT	TTT	TTT	TTT
1959														BNN	NBB	BBB	ABA	8	T	TT	TTT	TTT
1960														BBB	BAA	BAB	ABB	6	TTT	TTT	TTT	TTT
1961														BAA	AAA	AAA	ANN	6	TTT	TTT	TTT	T
1962			A	B										NNA	ABA	AAA	AAA	6	T	TTT	TTT	TTT
1963	B													AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1964														AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1965														AAA	AAA	AAA	BAA	11	TTT	TTT	TTT	TTT
1966														AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1967														AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1968														AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1969														AAA	AAA	AAA	ABB	7	TTT	TTT	TTT	TTT
1970														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1971														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1972														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1973														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1974														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1975														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1976														AAA	AAA	AAA	AAA	12				
1977														AAA	AAA	AAN	AAA	12				
1978														AAA	AAA	AAA	AAA	13				
1979														AAA	AAA	AAA	AAA	13				
1980														AAA	AAA	AAA	AAA	13				
1981														AAA	AAA			13				

TOYOHARA 46.9 142.8 50 546

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1942																	B	6				
1943														BBB	BBB	BBB	BBB	6				
1944														BBB	BBB	BS		6				

TRELEW -43.20 294.70 TW J4L

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958														AAA	ABA	AAA		11				
1959														BAA	AAN	BAA	BNA	11				
1960														BBB	NBA	BBN	NNA	11				
1961														AAA	AAA	AAA	AAB	12				
1962														AAA	BBB	NBB	BBB	7				
1963														NNN	NNN	NNN	NNN					
1964														BAA				12			MMM	

TRELEW (CONTINUED) -43.20 294.70 TW J4L

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND WW	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND BA AA A A AAA AAA A QQQ QQQ QQQ QQQ	CH	DIGITAL JFM AMJ JAS OND MM
1965						11	
1966						13	
1967						13	
1968							

TRINIDAD 10.75 298.43 51 J10

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND AA AAA AAA AA AAA AAN NNA AAA AAA AAA AAA AAA AA AAA AAA AAA AA AAA AAA AAA AAA AAA AAA AAA ANA AAA AAA AAA AAA AAB S	CH	DIGITAL JFM AMJ JAS OND
1944						25	
1945						14	
1946		AAA AAA				13	
1947	AAA AAA AAA AAA					12	
1948	AAA AAA AAA AAA					12	
1949	AAA AAA AAA AAA					12	
1950	ANA AAA AAA AAA					12	
1951	AAA AAB S					12	

TRIVANDRUM 8.50 77.00 TM 308

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND WWW WVN WWW WWW WWW WWW WWW WWW WWW WWW WWW WW	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND AAA AAN AAA AAA AAA AAA AAA AAA AAA AAA AAA AA AAA AAA BBB BBB ABA AAA AAA AAA AAA AAA AAA AAA BBA AAA AAA AAA AAA AAA BBM S	CH	DIGITAL JFM AMJ JAS OND MMM MMM MMM S
1957						3	
1958						5	
1959						5	
1960						5	
1961						5	
1962						5	
1963						5	
1964						5	

REPLACED THUMBA

TROMSO 69.70 19.00 TR 169

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND WWW WWW WWW WWW WWW WWW W	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND A B A NNA AAA AAA AAA AAN NNN NNN NNN AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAM AAM MAA MMM AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA ANN NNA AAA AAA AAA AAA AAA ABA BAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAA AAN NBA AAA AAB AAA AAA AAA AAA AAA AAA AAA AAA BAA AAA AAA AAA ABA AAA AAA AAA AAA AAA NNB AAA	CH	DIGITAL JFM AMJ JAS OND MMM MMM MMM MMM MMM MMM MMM MMM MM MM MMM MMM MM MM MMM MMM MMM MM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM M MMM
1945						3	
1946						5	
1947						4	
1951						8	
1952						9	
1953						9	
1954						8	
1955						9	
1956						9	
1957		WWW WWW				10	
1958		WWW WWW WWW WWW				12	
1959		W				12	
1960						12	
1961						12	
1962						12	
1963						12	
1964						12	MMM MMM MMM MMM
1965						12	MMM MMM MMM MMM
1966						12	MM MM MMM MMM
1967						12	MM MM
1968						12	MMM MMM MMM MM
1969						12	MMM MMM MMM MMM
1970						12	MMM MMM MMM MMM
1971						13	MMM MMM MMM MMM
1972						13	MMM MMM M MMM

TROMSO (CONTINUED) 69.70 19.00 TR 169

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1973					AAA AAA AAB NBA	13	
1974					AAA AAA AAA AAB	12	
1975					BAA AAA AAB ABB	12	
1976					BBB BBA AAA	13	
1977					A AAA AAA AAA	12	
1978					AAA AAA AAA AAA	12	

TSITSIHAR 47.3 123.9 52 447

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1940					MMM MMM MMM	6	
1941					MMM MMB BBB BBB	1	
1942					BBB BBM MBB BBB	1	
1943					BBB BBB BBB BBB	1	
1944					BBB BBB BBB BBB	4	
1945					BBB BBB BS	9	

TSUMEB -19.20 17.70 TS 11R

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957		WWW WWW			AAA AAA	12	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1964		NNN NNW WWW WWW			NNN NNA AAA AAA	12	M MMM MMM
1965		WWW WWW WWW WWW			AAA BAA AAA BAB	12	MMM MMM MMM MMM
1966		WWW NNN NNN NNN			BBB NNN NNN NNN	12	MMM
1967		NNN WWW WWW WWW			NNN AAA AAA AAA	12	MMM MMM MMM
1968		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1969		WWW WNN NNN NNN			AAA AAN NNN NNN	12	MMM MM
1970		NNN NWV WWW WWW			NNN NAA AAA AAA	12	MM MMM MMM
1971		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1972					Q QQQ		
1973		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1974		WWW WWW WWW NNN			AAA AAA AAA NNN	12	MMM
1975		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1976					S		

TUCUMAN -26.90 294.60 TU J20

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957		AAA B A			AAA AAA	12	
1958	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	12	
1959	B	BAB AAB AAA AAA			AAB AAB AAA BAA	11	
1960		AAB BBA AAB NNN			AAA AAA AAB NNB	12	
1961		AAA BBB BBB NNN			AAA AAA BBB NNN	12	
1962	A	NNN NNN NN			NNN NNN NNB ABA	10	
1963		NNN NAA AAA AAA			ABA AAA AAA AAA	12	
1964		BNN BAA AAA AAN			BNN BAA AAA AAN	12	M MMM MMM MM
1965		NNN NNN NAA AAA			NNN BAA AAA AAA	12	MM MMM MMM
1966					BAA BBA BAA AAA	13	MMM MM MMM MMM
1967					AAA AAA ABB ABA	3	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	3	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	3	MMM MMM
1970					AAA AAA AAA AAA	3	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	3	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	3	MMM MMM MMM MMM
1973	BB	B			AAA AAA AAA AAA	3	MMM MMM M
1974					AAA AAA A A	13	
1975					AAA AAA AAA BAA	13	

TUCUMAN (CONTINUED) -26.90 294.60 TU J20

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1976														UUU	AAA	AAA	AAA	13				
1977														AAA	AAA	AAA	AAA	13				
1978														AAA	AAA			13				

TUNGUSKA 61.6 90.0 TZ 362

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1968	QQ	Q	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	QQQ	QQQ					
1969	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	QQQ	QQQ					
1970	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	QQQ	QQQ					
1971	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	QQQ	QQQ					
1972	QQQ	QQQ	QQ	QQQ	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	BBQ	QQQ	12				
1973					QQQ									QQQ								
1976																M	MMM	7				
1977														MMM	MMM	MMM	MMM	7				
1978														M	MM	MMM	M	7				
1979														MM	MMM	MM	M	7				

UPPSALA 59.80 17.60 UP 158

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1952														AAA	AAA	AAA	AAA					
1953														AAA	AAA	AAA	AAA					
1954														AA	AA	AA						
1955														AAA	AAA	AAA	AAA					
1956														AAA	AAA	AAA	AA					
1957							WWW	WWW						AAA	AAA	AAA	AAA	10				
1958					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	10				
1959					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	11				
1960					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	12				
1961														AAA	AAA	AAA	AAA	12				
1962														AAA	AAA	AAA	AAA	13				
1963					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	13				
1964					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1965								W W						AAA	AAA	AAA	AAA	13	MTT	TTT	TTT	TAA
1966														AAA	AAA	AAA	AAA	13	AAA	AAA	AMM	MMM
1967														AAA	AAA	AAA	AAA	13	MM	M	MMM	
1968														AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	M
1969														AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1970														AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1971														AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1972														AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1973														AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1974														AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1975														AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1976														AAA	AAA	AAA	AAA	18	MMM	MMM	MMM	MMM
1977														AAA	AAA	AAA	AAA	18				
1978														AAA	AAA	AAA	AAA	18				
1979														AAA	AAA	AAA	AAA	18				
1980														AAA	AAA	AAA	AAA	18				
1981														AAA	AAA	AAA		18				

USHUAIA -54.80 291.70 UA J5M

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957																	BN	12				
1958														AAA	NNN	BNA	ABA	12				
1959														BAN	NNN	NNN	NNN	11				
1961														NNN	NBN	NNB	BAN	12				

USHUAIA (CONTINUED) -54.80 291.70 UA J5M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1962		BB			BBA BBA AAA ABA	12	
1963	A AAA	ANN NBB			ANN NBB	12	
1964		W WWW			A AAA	13	M MMM
1966		WWW			AAA AA AA A	13	MMM
1967					AAA AAA AAA AAA	13	
1968					AAA AAA A A A	13	
1974					AA	14	
1975					AA A	14	MM M

VANIMO - 2.70 141.30 VA 50L

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964					BBB AAB	11	TTM TTT
1965					ABA AAA AAB BAA	11	TTT TTT TTT TTT
1966	A				AAA NBA AAA BAA	5	TTT TTT TMT TTT
1967					ABA AAA AAA AAA	5	TTT MM
1968					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1969					AAA BAA ABA BAA	7	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	7	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	7	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	6	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	12	
1977					AAA AAA AAA AAA	12	
1978					AAA AAA AAA AAA	12	
1979					AAA AAA AAA AAA	13	
1980					AAA AAA AAA AAA	13	
1981					AAA AAA	13	

VICTORIA 48.40 236.60 VI 848

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AAA AAA	AAA AAA		AAA AAA	AAA AAA	10	
1958	AAA AAA AAA AAA	BAA AAB AAA AAA		BAA AAB AAA AAA	AAA AAA AAA AAA	8	
1959		AS		AS	AS	8	

YEAR	VICTORIA BEACH IONOGRAMS JFM AMJ JAS OND	50.8 263.95 53 951 F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					AM	7	

CLOSED IN 1945

VOSTOK -78.4 106.9 VO 47P

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	W WWW WWW WWW	A AAA ABA AAB	X		A AAA AAA AAB	12	
1959	WWW WWW WWW WWW	BAA AAA AAA AAA	X		BAA AAA AAA AAA	13	
1960	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1961	WW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1962							
1963							
1964	NNN WWW WWW	NNN BAA AAA BAA	X		NNN AAA AAA AAA	13	MMM MMM MM
1965	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	M M MMM MMM MMM

VOSTOK (CONTINUED) -78.4 106.9 VO 47P

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1966	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1969	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1970		W	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1971																						
1972																						
1973	A																					
1974	AA																					
1975	WWW	W																				
1976		WWW	WWW	WWW	A	AAA	AAA	AAA	X					A	AAA	AAA	AAA	13				

WAKKANAI 45.40 141.70 WK 545

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1947														A	AAA	AAA	AAA	10				
1948														AAA	AAA	AAA	AAA	10				
1949														AAA	AAA	AAA	AAA	11				
1950														AAA	AAA	AAA	AAA	11				
1951														AAA	AAA	AAA	AAA	11				
1952														AAA	AAA	AAA	AAA	11				
1953														AAA	AAA	AAA	AAA	11				
1954														AAA	AAA	AAA	AAA	11				
1955														AAA	AAA	AAA	AAA	3				
1956														AAA	AAA	AAA	AAA	3				
1957			WWW	WWW			AAA	AAA						AAA	AAA	AAA	AAA	12				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1959	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1961					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1966	WW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1967	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MM	MM		
1968	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMA	AAA	AAA
1969	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1970	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1971	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1972	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1973	PPP	PPP	PPP	PPP	AAA	AAA	BAA	AAA						AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1974	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1975	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MM
1976	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1977	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1978	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1979	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1980	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1981					AAA	AAA								AAA	AAA	AAA		14				

WALLOPS IS 37.9 284.5 WP 937

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL				
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	
1963			AA	AAA			AA	BBB	X									15					
1964	AAB	AAA	AAA	AAA	BBB	AAA	AAA	AAA	X									15					
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X									15					
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X									15					
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	A	A	MMM	A			15	CCC	CCC	C	C	
1968	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA		AAA	AAA	A	AAA	15	AAA	AAA	AAA	AAA
1969	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1970	AAA	AAB	AAA	AAA	AAA	AAB	AAA	AAA	X	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1971	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA

WALLOPS IS (CONTINUED) 37.9 284.5 WP 937

YEAR	IONOGRAMS				M	WORKSHEETS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1972	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1973	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1974	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1976	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1978	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1979	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1980	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA
1981	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA					

REPLACED WASHINGTON

WASHINGTON 38.70 282.90 WA 938

YEAR	IONOGRAMS				M	WORKSHEETS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1936	AAA	AAA	AAA	AAA						6				
1937	AAA	AAA	AAA	AAA						6				
1938	AAA	AAA	AAA	AAA						6				
1939	AAA	AAA	AAA	AAA						6				
1940	AAA	AAA	AAA	AAA						6				
1941	AAA	AAA	AAA	AAA						13				
1942	AAA	AAA	ABA	BAA						13				
1943	BAA	AAA	AAA	AAA						13				
1944	AAA	AAA	AAA	AAA						13				
1945	AAA	AAA	AAA	AAA						12				
1946	AAA	AAA	AAA	AAA						12				
1947	AAA	AAA	AAA	AAA						12				
1948	AAA	AAA	AAA	AAA						12				
1949	AAA	AAA	AAA	AAA						12				
1950	AAA	AAA	AAA	AAA						12				
1951	AAA	AAA	AAA	AAA		BA	A			12				
1952	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12				
1953	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	12				
1956	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	11				
1957	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1958	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1959	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	T T
1960	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1961	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1962	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1963	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1964	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1966	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1967	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1968	AAA	AAA	ABB	S	X	AAA	AAA	ABB	S	13	CCC	CCC	C	S

REPLACED BY WALLOPS ISLAND

WATHEROO -30.30 115.90 WT 43!

YEAR	IONOGRAMS				M	WORKSHEETS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1937										4				
1938										6				
1939										6				
1940										9				
1941										9				
1942										15				
1943										12				
1944										12				

WATHEROO (CONTINUED) -30.30 115.90 WT 43!

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945										AAA	AAA	AAA	AAA	11				
1946										AAA	AAA	AAA	AAA	10				
1947										AAA	AAA	AAA	AAA	10				
1948										AAA	NNA	AAA	AAA	10				
1949										AAA	AAA	AAA	AAA	10				
1950										AAA	AAA	AAA	AAA	9				
1951										AAA	AAA	AAA	AAA	9				
1952										AAA	AAA	AAA	AAA	9				
1953										AAA	AAA	AAA	AAA	9				
1954										AAA	AAA	AAA	AAA	9				
1955										AAA	AAA	AAA	AAA	9				
1956										AAA	AAA	AAA	AAA	9				
1957							WWW	WWW		AAA	AAA	AAA	AAA	14				
1958						WWW	WWW	WWW	WWW	AAA	AAA	AAA	ABA	13				
1959										AAB	S			8				

REPLACED BY MUNDARING

WHITE SANDS 32.30 253.50 WS 832

YEAR	IONOGRAMS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946		A	AAN	AAA							A	AAN	AAA	9				
1947	NNA	AAA	NNA	AAA						AAA	AAA	AAA	AAA	12				
1948	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	12				
1949	WWW	WNW	WWW	AWW						AAA	AAA	AAA	AAA	12				
1950	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	12				
1951	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1952	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1953	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1956	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	10				
1957	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1958	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1959	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1960	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1961	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1962	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1963	ABA	AAA	BBB	BUA	X	ABA	AAA	BBB	BUA	ABA	AAA	B	A	13	AAA	AAA	AAA	AAA
1964	BBA	AAA	AAA	ABA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1966	BAA	AAA	AAA	AAA	X	BAA	AAA	AAA	AAA	BAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1967	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	CCC	CCC	CCC	CCC
1968	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1969	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	CCC	CCC	CCC	CCC
1970	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	A	A	13	TTT	TTA	AAA	TAT
1971	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA			13	TTT	TTT	TTT	ATT
1972	AAA	AAA	AAN	NNN		AAA	AAA	AU		AAA	AAA	AU	U	13	AAA	AAA	A	
1973	BAN	ABA	BAB	ANB		UU				UU		U		18				M
1974	ABN	BNB	BAA	ABA										18				
1975	AAA	AAA	AAA	ABA														
1976	AAA	AAA	AAA	BAA			A		BB	AAB				17			A	
1977	BAA	AAA	AAA	AAA			WWW	WWW				A		17				A
1978	AAA	AAA	AAA	AAA										17	A		A	A
1979	AAA	A	AA	A										16				
1980	AA													16	A		A	

WILKES

-66.90 110.50 WL 460

YEAR	IONOGRAMS				F-PLOTS	M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957		B	AAA	AAA	AAA			B	AAA	AAA	AAA		AAA	AAA	13			TT	TT
1958	AAA	NBB	AAA	AAA	AAA		AA	NBA	AAA	AAA	AAN	NBA	AAA	AA	13	TT		TTT	TT
1959	AAA	AAA	AAA	AAA	AAA		A				AAA	AAA	AAA	AAA	11	T			
1960	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1961	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1962	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1963	B				AAA						BNN	NNN	NNN	AAA	11				
1964	AAA	AAA	AAA	AAA	AAA						BAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1965	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1966					A						AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1967					AAA						AAA	AAA	AAA	AAA	11		MM	MMM	MMM
1968					AA						AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1969	S										AS				11	MS			

REPLACED BY CASEY

WINNIPEG

49.80 265.60 WI 949

YEAR	IONOGRAMS				F-PLOTS	M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1951			AAA	AAA	AAA						AAA	AAA	AAA	AAA	13				
1952	A										AAA	AAA	AAA	AAA	13				
1953					A						AAA	AAA	AAA	AAA	10				
1954		A									AAA	AAA	AAA	AAA	10				
1955											AAA	AAA	AAA	AAA	10				
1956											AAA	AA	AAA	AAA	9				
1957			AAA	AAA							AAA	AAA	AAA	AAA	11				
1958	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1959	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1960	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1961	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1962	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1963	ABA	AAA	AAA	AAA	ABA						ABA	AAA	AAA	AAA	10				
1964	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10	MMM	MMM	MMM	MMM
1965	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10	TTT	TTT	TTT	TTT
1966	BAA	BAA	AAA	AAA	BAA					X	BAA	BAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1967	AAA	AAA	AAA	AAA	AAA					X	AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1968	AAA	AAA	AAA	AAA	AAA					X	AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1969	AAA	AAA	AAA	AAA	AAA					X	AAA	ABA	AAA	AAA	11	TTT	TTT	TTT	TTT
1970	AAA	BAA	AAA	AAA	AAA					X	AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1971	AAA	AAA	AAB	AAA	AAA					X	AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1972	AAA	AAA	AAA	AAA	ABA					X	ABA	AAB	BAA	AAB	11	TTT	TTT	TTT	TTT
1973	BAA	BBB	AAA	AAB	BAB					X	BAB	BBB	AAA	AAA	11	AAA	AAA	AAA	AAA
1974	AAA	BAB	AAA	AAA	AAA					X	AAA	BAB	AAA	AAA	11	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA	AAA					X	AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1976	AAA	AAA	AAA	AAA	AAA					X	AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1977	S				S					X	S					S			

WOOMERA

-31.00 138.6 WO 53J

YEAR	IONOGRAMS				F-PLOTS	M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1961		B												A	10				
1962											AAA	AAA	AAA	AAA	10				
1963											AAA	AAA	AAA	AAA	10				
1964											AAA	AAB	AAA	AAA	12	MMM	MMM	MMM	MMM
1965											AAA	AAA	AAA	AAB	12	MMM	MMM	MMM	MMM
1966											BAA	AAA	AAA	AAA	10	MMM	MMM	MMM	MMM
1967					B						AAA	AAA	AAA	AAA	10			M	M
1968											AAA	AAA	AAA	ABA	10	MMM	MMM	M	MMM
1969					B						QQQ	QQQ	QQQ	QQS					S

WUCHANG

30.60 114.40 54 430

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946																AA	AAA	10				
1947														AAA	AAA	AAA	AAA	10				
1948														AAA	AAA	AAA	AAA	10				
1949														AAA	AS			10				

YAKUTSK

62.0 129.60 YA 462

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1957								W WWW	X					MM	MMM	AAA	AAA	10				
1958			WW	WWW	WW	WW	WWW	WWW	X					WWW	WAA	AAA	AAA	13				
1959	WWW	WWW	WWW	WWW	AA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAB	X					AAA	AAA	AAA	AAB	14				
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1966	WWW	W	W	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1968	WWW	WWW			AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1969	W	W	WW		AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1972					AAA	ANA	ANA	AAA	X					AAA	ANA	ANA	AAA	14	MMM	MMM	MMM	MMM
1973					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1974					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1975					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1976					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1977					AAA	AAA	A	A AAA	X					AAA	AA	A	AAA	14				
1978					AAA	AAA	AAA	AA	X					AAA	AAA	AAA	AA	14				
1979					AAA	AAA			X					AAA	AAA			13				

YAMAGAWA

31.20 130.60 YG 431

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1946																	A	8				
1947														AAA	AAA	AAA	AAA	10				
1948														AAA	AAA	AAA	AAA	10				
1949														AAA	AAA	AAA	AAA	11				
1950														AAA	AAA	AAA	AAA	11				
1951														AAA	AAA	AAA	AAA	11				
1952														AAA	AAA	AAA	AAA	11				
1953														AAB	AAA	AAA	AAA	11				
1954														AAA	AAA	BBB	BBB	11				
1955														AAA	AAA	AAA	AAA	3				
1956														AAA	AAA	AAA	AAA	3				
1957			WWW	WWA			AAA	AAA						AAA	AAA	AAA	AAA	12				
1958	AWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1959	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1966	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1967	P	P	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MM	MM		
1968	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MA	AAA	AAA
1969	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1970	PPP	PPP	PBP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1971	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1972	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1973	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA

YAMAGAWA (CONTINUED) 31.20 130.60 YG 431

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1974	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MM
1976	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1977	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1978	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1979	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1980	PPP PPP PPP PPP	AAA AAA AAA AA			AAA AAA AAA AAA	14	
1981		AAA AAA			AAA AAA AAA	14	

YELLOW KNIFE 62.40 245.60 YE 862

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	A AAA AAW	NBA		NBA	NBA	6	
1958	AAA WW AAA AAA	AAA BNB AAA AAA		AAA BNB AAA AAA	AAA NB AAA AAA	6	
1959	S	BS		BS	BS	6	

YUZHNO SAKHALI 47.0 143.0 SA 547

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1956					MM	8	
1957	W	WWW WWW	X		M MM BAA AAA	13	
1958		WWW WWW WWW WWW	X		AAA AAA AAA AAA	12	
1959		WWW WWW WWW WWW	X		ABA AAA BAB AAA	13	
1960	W W	WNW WWW WWW WWW	X		ANB BAA ABA AAA	13	
1961	WWW WWW WWW WWW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1962	WWW W W WWW WW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1963		WWW WWW WWW WWW	X		AAA AAA AAA AAN	13	
1964	W WWW WWW WWW	NNW WWW WWW WWW	X		NNA AAA AAA BAA	13	M MMM MMM MMM
1965	WWW WWW WWW WWW	AAA AAA AAA AAB	X		AAA AAA AAA AAB	14	MMM MMM MMM MMM
1966	WWW WWW WWW WWW	AAA AAB AAA ABA	X		AAA AAB AAA ABA	14	MMM MMM MMM MMM
1967	W W WWW WWW WWW	AAA AAB AAA AAA	X		AAA AAB AAA AAA	14	M M MMM MMM MMM
1968	WW WWW WWW W W	NAA BAA AAB AAA	X		NAA BAA AAB AAA	14	MMM MMM MMM MMM
1969	NWW W	NAA AAA AS	X		NAA AAA AS	14	MM MMM MS

ZARYA SHIP

XF

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1959	BB BBB	BB BBB	X	BB BBB		13	
1960	BBB BBN NNN BBB	BBB BBN NNN BBB	X	BBB BBN NNN BBB		13	
1961	BBB BNN NBB BNN	BBB BNN NBB NNN	X	BBB BNN NBB NNN		13	
1962	NNN NNN NNB BBB	NNN NNN NNB BBB	X	NNN NNN NNB BBB		14	
1963	BBA BBN NNN NNN	BBA BBN NNN NNN	X	BBA BBN NNN NNN		14	
1964	NNN NNN NBB BBN	NNN NNN NBB BBN	X	NNN NNN NBB BBN		14	
1965	NNN NNN NNB ABB	NNN NNN NNB ABB	X	NNN NNN NNB ABB		14	
1966	BBB	BBB	X	BBB		14	

VI. DATA PUBLICATIONS

1. Ionospheric Data was a monthly publication of NOAA and its predecessors for 30 years, 1944-1974, and back issues are available as indicated below. A complete index of stations and dates of observations published in Ionospheric Data is available free of charge. The basic data which comprised Ionospheric Data continue to be available on an individual request basis. The monthly issues provided monthly median data, by hour, of the ionospheric vertical soundings stations. In 1973-1974 the publication also included detailed monthly data from a single representative station, including daily-hourly values of all measured characteristics, f-plots for Regular World Days, and an N(h) contour graph. When appropriate, selected ionospheric data for a period of major ionospheric disturbance (Retrospective World Interval) were also included. Note that the date of issue does not signify the date of the month or months during which the observations were taken.

Back issues in booklet form are available as long as stocks exist (for most months 1964 to September, 1974) at \$1.50 per booklet. Back issues on 35 mm microfilm are available for 1944-1974 at \$20.00 per year. Orders should be sent to World Data Center A for Solar Terrestrial Physics, NOAA, D63, 325 Broadway, Boulder, CO, 80303, USA. Orders must include checks or money orders payable in U.S. currency to Department of Commerce, NOAA/NGDC.

2. AFCLR Geophysics and Space Data Bulletin was a quarterly publication containing ionospheric data from Maynard and Goose Bay. These data consisted of height plots of monthly median values of h'F₂, h'F, h'E, h'E_s and frequency plots of foF₂, foF₁, foE, foE_s. In addition to the plots, tables of hourly values and their medians were published from both of these stations for each characteristic scaled.

The publication of this Bulletin by the Space Physics Laboratory, Air Force Cambridge Research Laboratories*, L. G. Hanscom Field, Massachusetts, began with the first quarter of 1964 and was terminated at the end of the fourth quarter of 1974. Copies are available from the National Technical Information Service, Springfield, VA, 22151.

3. USSR Cosmic Data is published monthly and lists ionospheric data from the USSR network of ionospheric stations. Data published from Moscow (IZMIRAN) are hourly values of the basic ionospheric characteristics: critical frequency of the F₂ layer (foF₂), maximum usable frequency factor (M(3000)F₂), critical frequency of the E_s layer (foE_s), minimum frequency of reflection (f-min), and the variation of the foF₂ around the median (Δ foF₂). Also, three-hourly Δ foF₂ values are plotted on a solar synoptic chart.

Observations from the remaining USSR stations are published only as monthly median values of selected ionospheric characteristics.

The monthly Bulletin is published by IZMIRAN, Academy of Sciences of the USSR, and any remarks or requests should be sent to the following address: 142092, IZMIRAN, p/o Akademgorodok, Moscow, USSR.

4. UAG-Reports are a series of reports which are published on an irregular schedule. They cover a variety of subjects, including ionospheric phenomena. A limited free distribution is made to contributors to the reports and to others under data exchange agreements; otherwise, these reports are sold, either individually or on an annual subscription basis. Subscriptions or single issues may be ordered from: WDC-A for STP, NOAA D63, 325 Broadway, Boulder, CO 80303, USA.

* Now Air Force Geophysics Laboratory.

VII. DATES OF SPECIAL OBSERVATIONAL INTERVALS

Special World Intervals and Retrospective World Intervals (Relative to Ionospheric Programs)

Listed below are the Special World Intervals and Retrospective World Intervals announced for ionospheric programs from the IGY onward. These were periods for which special data reductions were requested. The selections were made by the International Ursigram and World Days Service (IUWDS), or in recent years by the Monitoring of the Sun-Earth Environment (MONSEE) program of the Special Committee on Solar-Terrestrial Physics.

1957
June 30 - July 3
Aug. 24, 29-30
Sept. 2-4, 12-13
Oct. 22-23
Nov. 26-27

1958
Mar. 5, 15, 23-25, 30-31
June 6-8, 20-22
July 8-9, 30-31
Aug. 17-18, 24, 27-28
Oct. 23-25
Nov. 26-27
Dec. 13-14

1959
Jan. 24-25
Feb. 11-12, 25-26
Mar. 26-28
Apr. 10-11
May 12-13
June 11-12
July 15-16
Sept. 4-5, 20-21
Nov. 23-24, 28-29
Nov. 30 - Dec. 2

1960
Feb. 5-6
Mar. 31 - Apr. 3
Apr. 28-30
May 1, 7-9
June 4-6
Aug. 16-18
Sept. 4-6
Oct. 6-8
Nov. 12-17

1961
Mar. 6-7, 27-28
May 6-7
July 12-18, 27-28
Aug. 30-31
Sept. 24-26, 29-30
Oct. 1-2, 28-29
Nov. 3-4
Dec. 1-3

1962
Jan. 10-11
Feb. 16-17
Mar. 2-3
Apr. 7-8, 22-23
July 26-27
Aug. 1-2, 22-23
Sept. 12-13
Oct. 8-9
Dec. 18-21

1963
Jan. 13-15, 30 - Feb. 1
May 1-3
Aug. 18-19
Sept. 13-30
Oct. 28-31

1964
Jan. 3-4
Mar. 4-5, 27 - Apr. 3
Sept. 6-9, 21-24

1965
Feb. 5-9
June 14-18

1966
Mar. 12-31
July 7-11
Aug. 28 - Sept. 6

1967
Jan. 28-30
May 24-31

1968
June 9-13
Oct. 24 - Nov. 6
Nov. 18-20

1969
Mar. 21-26
Nov. 2, 8-10

1970
Jan. 24
Mar. 6-10
Sept. 1
Nov. 6-8

1971
Jan. 24
Sept. 1

1972
July 26 - Aug. 14

1973
June 30 - July 3

1974

1975
Sept. 1 - Oct. 31

1976
Mar. 15 - May 15

1977
Mar. 15 - May 15
Sept. 7 - 24
Oct. 15 - Dec. 15

1978
June 1 - July 31

1979
Apr. 15 - June 15
Aug. 1 - Sept. 30
Oct. 15 - Dec. 15

1980
Feb. 15 - Mar. 16
Apr. 26 - June 27
Oct. 1 - Nov. 30

1981
Apr. 10 - June 21
Dec. 1 - Jan. 31

1982
May 20 - July 20

NOTE: These are the dates related to the symbol W in the main catalog, section V.

Regular World Days

A table of the Regular World Days for each year since 1957, selected first by CSAGI and now by IUWDS, is presented below. Beginning in 1961 these are sequences of three days, with the middle day, the Priority Regular World Day, always on a Wednesday.

	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>	<u>1963</u>
J		3,4,19,20	3,4,9,10	12,13,14	17,18,19	16,17,18	22,23,24
F		10,18,19,26	17,18,19	16,17,18	14,15,16	13,14,15	19,20,21
M		20,21,28	17,18,19	15,16,17	21,22,23	20,21,22	19,20,21
A		18,19,20	14,15,16	19,20,21	18,19,20	17,18,19	16,17,18
M		5,18,19	12,13,14	17,18,19	16,17,18	15,16,17	14,15,16
J	27,28,29	9,17,18,24	16,17,18	14,15,16	20,21,22	19,20,21	18,19,20
J	4,26,27	16,17,27	14,15,16	12,13,14	18,19,20	17,18,19	16,17,18
A	12,25,26	7,12,14,15	11,12,13	9,10,11	15,16,17	14,15,16	13,14,15
S	1,23,24,30	6,13,14,20	15,16,17	20,21,22	19,20,21	18,19,20	17,18,19
O	22,23,24	10,11,12,13	1,2,3,9,10,11	18,19,20	17,18,19	16,17,18	15,16,17
N	14,21,22	4,10,11,18	17,18,19	15,16,17	14,15,16	13,14,15	19,20,21
D	13,16,21,22	10,11,13,17	14,15,16,17	13,14,15	19,20,21	18,19,20	17,18,19
	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
J	14,15,16	12,13,14	11,12,13	17,18,19	16,17,18	14,15,16	13,14,15
F	18,19,20	16,17,18	15,16,17	14,15,16	13,14,15	11,12,13	10,11,12
M	17,18,19	16,17,18	15,16,17	14,15,16	12,13,14	18,19,20	10,11,12
A	14,15,16	20,21,22	12,13,14	11,12,13	16,17,18	15,16,17	14,15,16
M	19,20,21	18,19,20	17,18,19	9,10,11	14,15,16	13,14,15	12,13,14
J	16,17,18	15,16,17	14,15,16	13,14,15	11,12,13	17,18,19	16,17,18
J	14,15,16	20,21,22	12,13,14	18,19,20	16,17,18	15,16,17	14,15,16
A	18,19,20	17,18,19	16,17,18	15,16,17	13,14,15	12,13,14	18,19,20
S	22,23,24	14,15,16	13,14,15	19,20,21	17,18,19	9,10,11	15,16,17
O	20,21,22	19,20,21	11,12,13	17,18,19	15,16,17	14,15,16	13,14,15
N	17,18,19	16,17,18	15,16,17	14,15,16	12,13,14	18,19,20	17,18,19
D	15,16,17	14,15,16	13,14,15	12,13,14	17,18,19	16,17,18	15,16,17
	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
J	12,13,14	18,19,20	16,17,18	15,16,17	14,15,16	20,21,22	18,19,20
F	9,10,11	15,16,17	13,14,15	12,13,14	11,12,13	17,18,19	15,16,17
M	16,17,18	14,15,16	20,21,22	19,20,21	11,12,13	16,17,18	15,16,17
A	13,14,15	18,19,20	17,18,19	16,17,18	15,16,17	13,14,15	19,20,21
M	11,12,13	16,17,18	15,16,17	14,15,16	13,14,15	18,19,20	17,18,19
J	15,16,17	13,14,15	19,20,21	18,19,20	10,11,12	22,23,24	14,15,16
J	20,21,22	11,12,13	17,18,19	16,17,18	15,16,17	13,14,15	19,20,21
A	17,18,19	15,16,17	14,15,16	13,14,15	12,13,14	10,11,12	16,17,18
S	14,15,16	19,20,21	18,19,20	17,18,19	16,17,18	21,22,23	13,14,15
O	19,20,21	17,18,19	16,17,18	15,16,17	14,15,16	19,20,21	11,12,13
N	16,17,18	14,15,16	13,14,15	12,13,14	11,12,13	16,17,18	15,16,17
D	14,15,16	19,20,21	18,19,20	10,11,12	16,17,18	21,22,23	6,7,8
	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>		
J	17,18,19	16,17,18	15,16,17	13,14,15	19,20,21		
F	7,8,9	13,14,15	12,13,14	17,18,19	16,17,18		
M	7,8,9	20,21,22	18,19,20	17,18,19	16,17,18		
A	11,12,13	17,18,19	15,16,17	14,15,16	20,21,22		
M	9,10,11	22,23,24	13,14,15	12,13,14	18,19,20		
J	6,7,8	19,20,21	10,11,12	9,10,11	15,16,17		
J	11,12,13	17,18,19	8,9,10	14,15,16	13,14,15		
A	15,16,17	21,22,23	12,13,14	11,12,13	17,18,19		
S	5,6,7	18,19,20	9,10,11	15,16,17	14,15,16		
O	17,18,19	16,17,18	7,8,9	13,14,15	19,20,21		
N	14,15,16	20,21,22	11,12,13	17,18,19	16,17,18		
D	12,13,14	18,19,20	9,10,11	15,16,17	14,15,16		

NOTE: These are the dates related to the Symbol W in the main catalog, Section V.

UAG SERIES OF REPORTS

Fewer than four UAG Reports are published at irregular intervals each year. Copies of these publications may be purchased through World Data Center A for Solar-Terrestrial Physics, Environmental Data and Information Service, NOAA, D63, 325 Broadway, Boulder, Colorado 80303, USA. A \$4.00 handling charge per order will be added to the single-copy prices listed below. Please note, too, that some reports are available on microfiche only. Orders must include check or money order payable in U.S. currency to the Department of Commerce, NOAA/NGDC.

- UAG-1 "IQSY Night Airglow Data," by L.L. Smith, F.E. Roach, and J.M. McKennan, ESSA Aeronomy Laboratory, Boulder, CO, July 1968, 305 pp, \$1.75.
- UAG-2 "A Reevaluation of Solar Flares, 1964-1966," by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, University of Michigan, Pontiac, MI, August 1968, 28 pp, \$0.30.
- UAG-3 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-41 MHz, 6 July 1966 through 8 September 1968," by James W. Warwick and George A. Dulk, University of Colorado, Boulder, CO, October 1968, 35 pp, \$0.55.
- UAG-4 "Abbreviated Calendar Record 1966-1967," by J. Virginia Lincoln, Hope I. Leighton and Dorothy K. Kropp, ESSA now NOAA, Aeronomy and Space Data Center, Boulder, CO, January 1969, 170 pp, \$1.25.
- UAG-5 "Data on Solar Event of May 23, 1967 and its Geophysical Effects," compiled by J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA now NOAA, Boulder, CO, February 1969, 120 pp, \$0.65.
- UAG-6 "International Geophysical Calendars 1957-1969," by A.H. Shapley and J. Virginia Lincoln, ESSA Research Laboratories, now NOAA, Boulder, CO, March 1969, 25 pp, \$0.30.
- UAG-7 "Observations of the Solar Electron Corona: February 1964 - January 1968," by Richard T. Hansen, High Altitude Observatory, NCAR, Boulder, CO, and Kamuela, HI, October 1969, 12 pp, \$0.15.
- UAG-8 "Data on Solar-Geophysical Activity October 24 - November 6, 1968," Parts 1 and 2, compiled by J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA now NOAA, Boulder, CO, March 1970, 312 pp, \$1.75 (includes Parts 1 and 2).
- UAG-9 "Data on Cosmic Ray Event of November 18, 1968 and Associated Phenomena," compiled by J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA now NOAA, Boulder, CO, April 1970, 109 pp, \$0.55.
- UAG-10 "Atlas of Ionograms," edited by A.H. Shapley, ESSA Research Laboratories now NOAA, Boulder, CO, May 1970, 243 pp, \$1.50.
- UAG-12 "Solar-Geophysical Activity Associated with the Major Geomagnetic Storm of March 8, 1970," Parts 1, 2 and 3, compiled by J. Virginia Lincoln and Dale B. Bucknam, World Data Center A, Upper Atmosphere Geophysics, ESSA now NOAA, Boulder, CO, April 1971, 466 pp, \$3.00 (includes Parts 1-3).
- UAG-13 "Data on the Solar Proton Event of November 2, 1969 through the Geomagnetic Storm of November 8-10, 1969," compiled by Dale B. Bucknam and J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA now NOAA, Boulder, CO, May 1971, 76 pp, \$0.90.
- UAG-14 "An Experimental, Comprehensive Flare Index and Its Derivation for 'Major' Flares, 1955-1969," by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, University of Michigan, Pontiac, MI, July 1971, 25 pp, \$0.30.
- UAG-16 "Temporal Development of the Geophysical Distribution of Auroral Absorption for 30 Substorm Events in each of IQSY (1964-65) and IASY (1960)," by F.T. Berkey, University of Alaska, Fairbanks, AK; V.M. Driatskiy, Arctic and Antarctic Research Institute, Leningrad, USSR; K. Henriksen, Auroral Observatory, Tromsø, Norway; D.H. Jelly, Communications Research Center, Ottawa, Canada; T.I. Shchuka, Arctic and Antarctic Research Institute, Leningrad, USSR; A. Theander, Kiruna Geophysical Observatory, Kiruna, Sweden; and J. Yliniemi, University of Oulu, Oulu, Finland, September 1971, 131 pp, \$0.70 (microfiche only).
- UAG-17 "Ionospheric Drift Velocity Measurements at Jicamarca, Peru (July 1967 - March 1970)," by Ben B. Balsley, NOAA Aeronomy Laboratory, Boulder, CO, and Ronald F. Woodman, Jicamarca Radar Observatory, Instituto Geofisico del Peru, Lima, Peru, October 1971, 45 pp, \$0.55 (microfiche only).
- UAG-18 "A Study of Polar Cap and Auroral Zone Magnetic Variations," by K. Kawasaki and S.-I. Akasofu, University of Alaska, Fairbanks, AK, June 1972, 21 pp, \$0.20.

- UAG-19 "Reevaluation of Solar Flares 1967," by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, University of Michigan, Pontiac, MI, and Marta Rovira de Miceli, San Miguel Observatory, Argentina, June 1972, 15 pp, \$0.15.
- UAG-21 "Preliminary Compilation of Data for Retrospective World Interval July 26 - August 14, 1972," by J. Virginia Lincoln and Hope I. Leighton, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, November 1972, 128 pp, \$0.70.
- UAG-22 "Auroral Electrojet Magnetic Activity Indices (AE) for 1970," by Joe Haskell Allen, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, November 1972, 146 pp, \$0.75.
- UAG-23 "U.R.S.I. Handbook of Ionogram Interpretation and Reduction," Second Edition, November 1972, edited by W.R. Piggott, Radio and Space Research Station, Slough, UK, and K. Rawer, Arbeitsgruppe fur Physikalische Weltraumforschung, Freiburg, GFR, November 1972, 324 pp, \$1.75.
- UAG-23A "U.R.S.I. Handbook of Ionogram Interpretation and Reduction," Second Edition, Revision of Chapters 1-4, edited by W.R. Piggott, Radio and Space Research Station, Slough, UK, and K. Rawer, Arbeitsgruppe fur Physikalische Weltraumforschung, Freiburg, GFR, November 1972, 135 pp, \$2.14.
- UAG-24 "Data on Solar-Geophysical Activity Associated with the Major Ground Level Cosmic Ray Events of 24 January and 1 September 1971," Parts 1 and 2, compiled by Helen E. Coffey and J. Virginia Lincoln, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, December 1972, 462 pp, \$2.00 (includes Parts 1 and 2).
- UAG-25 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-41 MHz, 9 September 1968 through 9 December 1971," by James W. Warwick, George A. Dulk and David G. Swann, University of Colorado, Boulder, CO, February 1973, 35 pp, \$0.35.
- UAG-26 "Data Compilation for the Magnetospherically Quiet Periods February 19-23 and November 29 - December 3, 1970," compiled by Helen E. Coffey and J. Virginia Lincoln, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, May 1973, 129 pp, \$0.70.
- UAG-27 "High Speed Streams in the Solar Wind," by D.S. Intriligator, University of Southern California, Los Angeles, CA, June 1973, 16 pp, \$0.15.
- UAG-28 "Collected Data Reports on August 1972 Solar-Terrestrial Events," Parts 1, 2 and 3, edited by Helen E. Coffey, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, July 1973, 932 pp, \$4.50.
- UAG-29 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1968," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, October 1973, 148 pp, \$0.75.
- UAG-30 "Catalogue of Data on Solar-Terrestrial Physics," prepared by NOAA Environmental Data Service, Boulder, CO, October 1973, \$1.50. Supersedes UAG-11, 15, and 20 catalogs.
- UAG-31 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1969," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, February 1974, 142 pp, \$0.75.
- UAG-32 "Synoptic Radio Maps of the Sun at 3.3 mm for the Years 1967-1969," by Earle B. Mayfield, Kennon P. White III, and Fred I. Shimabukuro, Aerospace Corp., El Segundo, CA, April 1974, 26 pp, \$0.35.
- UAG-33 "Auroral Electrojet Magnetic Activity Indices AE(10) for 1967," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, May 1974, 142 pp, \$0.75.
- UAG-34 "Absorption Data for the IGY/IGC and IQSY," compiled and edited by A.H. Shapley, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO; W.R. Piggott, Appleton Laboratory, Slough, UK; and K. Rawer, Arbeitsgruppe fur Physikalische Weltraumforschung, Freiburg, GFR, June 1974, 381 pp, \$2.00.
- UAG-35 "Catalogue of Digital Geomagnetic Variation Data at World Data Center A for Solar-Terrestrial Physics," prepared by NOAA Environmental Data Service, Boulder, CO, July 1974, 20 pp, \$0.20.
- UAG-36 "An Atlas of Extreme Ultraviolet Flashes of Solar Flares Observed via Sudden Frequency Deviations During the ATM-SKYLAB Missions," by R.F. Donnelly and E.L. Berger, NOAA Space Environment Laboratory; Lt. J.D. Busman, NOAA Commissioned Corps; B. Henson, NASA Marshall Space Flight Center; T.B. Jones, University of Leicester, UK; G.M. Lerfald, NOAA Wave Propagation Laboratory; K. Najita, University of Hawaii; W.M. Retallack, NOAA Space Environment Laboratory and W.J. Wagner, Sacramento Peak Observatory, October 1974, 95 pp, \$0.55.
- UAG-37 "Auroral Electrojet Magnetic Activity Indices AE(10) for 1966," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, December 1974, 142 pp, \$0.75.

- UAG-38 "Master Station List for Solar-Terrestrial Physics Data at WDC-A for Solar-Terrestrial Physics," by R.W. Buhmann, World Data Center A for Solar-Terrestrial Physics, Boulder, CO; Juan D. Roederer, University of Denver, Denver, CO; and M.A. Shea and D.F. Smart, Air Force Cambridge Research Laboratories, Hanscom AFB, MA, December 1974, 110 pp, \$1.60.
- UAG-39 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1971," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, February 1975, 144 pp, \$2.05.
- UAG-40 "H-Alpha Synoptic Charts of Solar Activity for the Period of Skylab Observations, May 1973 - March 1974," by Patrick S. McIntosh, NOAA Space Environment Laboratory, Boulder, CO, February 1975, 32 pp, \$0.56.
- UAG-41 "H-Alpha Synoptic Charts of Solar Activity During the First Year of Solar Cycle 20 October 1964 - August 1965," by Patrick S. McIntosh, NOAA Space Environment Laboratory, Boulder, CO and Jerome T. Nolte, American Science and Engineering, Inc., Cambridge, MA, March 1975, 25 pp, \$0.48.
- UAG-42 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-80 MHz, 10 December 1971 through 21 March 1975," by James W. Warwick, George A. Dulk and Anthony C. Riddle, University of Colorado, Boulder, CO, April 1975, 49 pp, \$1.15.
- UAG-43 "Catalog of Observation Times of Ground-Based Skylab-Coordinated Solar Observing Programs," compiled by Helen E. Coffey, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, May 1975, 159 pp, \$3.00.
- UAG-44 "Synoptic Maps of Solar 9.1 cm Microwave Emission from June 1962 to August 1973," by Werner Graf and Ronald N. Bracewell, Stanford University, Stanford, CA, May 1975, 183 pp, \$2.55.
- UAG-45 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1972," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, May 1975, 144 pp, \$2.10 (microfiche only).
- UAG-46 "Interplanetary Magnetic Field Data 1963-1964," by Joseph H. King, National Space Science Data Center, NASA Goddard Space Flight Center, Greenbelt, MD, June 1975, 382 pp, \$1.95.
- UAG-47 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1973," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, June 1975, 144 pp, \$2.10 (microfiche only).
- UAG-48A "Synoptic Observations of the Solar Corona during Carrington Rotations 1580-1596 (11 October 1971 - 15 January 1973)," [Reissue of UAG-48 with quality images], by R.A. Howard, M.J. Koomen, D.J. Michels, R. Tousey, C.R. Detwiler, D.E. Roberts, R.T. Seal, and J.D. Whitney, U.S. Naval Research Laboratory, Washington, DC, and R.T. Hansen and S.F. Hansen, C.J. Garcia and E. Yasukawa, High Altitude Observatory, NCAR, Boulder, CO, February 1976, 200 pp, \$4.27.
- UAG-49 "Catalog of Standard Geomagnetic Variation Data," prepared by NOAA Environmental Data Service, Boulder, CO, August 1975, 125 pp, \$1.85.
- UAG-50 "High-Latitude Supplement to the URSI Handbook on Ionogram Interpretation and Reduction," edited by W.R. Piggott, British Antarctic Survey, c/o Appleton Laboratory, Slough, UK, October 1975, 294 pp, \$4.00.
- UAG-51 "Synoptic Maps of Solar Coronal Hole Boundaries Derived from He II 304A Spectroheliograms from the Manned Skylab Missions," by J.D. Bohlin and D.M. Rubenstein, U.S. Naval Research Laboratory, Washington, DC, November 1975, 30 pp, \$0.54.
- UAG-52 "Experimental Comprehensive Solar Flare Indices for Certain Flares, 1970-1974," by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, University of Michigan Pontiac, MI, November 1975, 27 pp, \$0.60.
- UAG-53 "Description and Catalog of Ionospheric F-Region Data, Jicamarca Radio Observatory (November 1966 - April 1969), by W.L. Clark and T.E. Van Zandt, NOAA Aeronomy Laboratory, Boulder, CO, and J.P. McClure, University of Texas at Dallas, Dallas, TX, April 1976, 10 pp, \$0.33.
- UAG-54 "Catalog of Ionosphere Vertical Soundings Data," prepared by NOAA Environmental Data Service, Boulder, CO, April 1976, 130 pp, \$2.10.
- UAG-55 "Equivalent Ionospheric Current Representations by a New Method, Illustrated for 8-9 November 1969 Magnetic Disturbances," by Y. Kamide, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, CO; H.W. Kroehl, Data Studies Division, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO; M. Kanamitsu, Advanced Study Program, National Center for Atmospheric Research, Boulder, CO; Joe Haskell Allen, Data Studies Division, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO; and S.-I. Akasofu, Geophysical Institute, University of Alaska, Fairbanks, AK, April 1976, 91 pp, \$1.60 (microfiche only).

- UAG-56 "Iso-intensity Contours of Ground Magnetic H Perturbations for the December 16-18, 1971, Geomagnetic Storm," Y. Kamide, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, CO, April 1976, 37 pp, \$1.39.
- UAG-57 "Manual on Ionospheric Absorption Measurements," edited by K. Rawer, Institut fur Physikalische Weltraumforschung, Freiburg, GFR, June 1976, 302 pp, \$4.27.
- UAG-58 "ATS6 Radio Beacon Electron Content Measurements at Boulder, July 1974 - May 1975," by R.B. Fritz, NOAA Space Environment Laboratory, Boulder, CO, September 1976, 61 pp, \$1.04.
- UAG-59 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1974," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, December 1976, 144 pp, \$2.16.
- UAG-60 "Geomagnetic Data for January 1976 (AE(7) Indices and Stacked Magnetograms)," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, July 1977, 57 pp, \$1.07.
- UAG-61 "Collected Data Reports for STIP Interval II 20 March - 5 May 1976, edited by Helen E. Coffey and John A. McKinnon, World Data Center A for Solar-Terrestrial Physics, Boulder, CO, August 1977, 313 pp, \$2.95.
- UAG-62 "Geomagnetic Data for February 1976 (AE(7) Indices and Stacked Magnetograms)," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, September 1977, 55 pp, \$1.11.
- UAG-63 "Geomagnetic Data for March 1976 (AE(7) Indices and Stacked Magnetograms)," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, September 1977, 57 pp, \$1.11.
- UAG-64 "Geomagnetic Data for April 1976 (AE(8) Indices and Stacked Magnetograms)," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, February 1978, 55 pp, \$1.00.
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