NOAA Environmental Services Data Directory

Quick Reference Guide

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LIBRARY

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N.O.A.A. U.S. Dept. of Commerce

802 03 **Table of Contents** 1993 3 15 Example of a Simple Search Session on the DALI/SPOT-IMAGE System 19 Connecting to the NOAA Environmental Services Data Directory 21 List of Internet Addresses for Various Directories Quick Reference Guide Summary of Commands and Menus/Screens 29 Table of Valid Entries for "discipline" 33 Table of Valid Entries for "location" Sorted by "discipline" 37 Table of Valid Entries for "location" Sorted Alphabetically 39 Table of Valid Entries for "parameter group" and "parameter" Sorted by "parameter group" 41 Table of Valid Entries for "parameter group" and "parameter" Sorted by "parameter" 47

Introduction

The NOAA Environmental Services Data Directory uses the Global Change Master Directory software and Directory Interchange Format (DIF) to document descriptions of data sets available within NOAA. All data set descriptions in the NOAA Directory are supplied to the Global Change Master Directory. This network is composed of various directory systems that use the Directory Interchange Format (DIF) for the exchange of global change data descriptions between the systems. Once you have connected to one of the Directory systems, a series of menus and prompts will lead you to perform the desired search of the database. On-line help is available for most steps. However, by knowing a little bit about the format of the DIF, one can perform searches more easily.

The directory software was designed to allow users to easily search for datasets that meet their particular needs. Datasets are stored in the DIF, which is a format that was designed to describe datasets from a wide variety of sciences. Within the DIF, there are fields which are derived from predefined tables. These fields are the "discipline," "subdiscipline," "parameter group," "parameter," and "location." To use one of these fields as a search parameter, you must look up the field in a list of valid entries. The other fields in the DIF are not generally constrained. For further information on the DIF see the "Directory Interchange Format Manual."

The most common searches involve the first two menu selections-"DATA SET information search" and "DATA SYSTEM/ARCHIVE descriptions." The first selection steps you through searches of available datasets. The second allows you to search for information about various Data Centers. Certain Data Centers and datasets will give you the option to directly connect with the computer system where datasets reside. This option is called the "link" command. For example, the European Node allows you to automatically link with the SPOT/IMAGE system in Toulouse, France. Links may be added or deleted over time, so it is best to check for available links regularly.

Access to the various Master Directories is easiest if your system is connected to the Internet. The addresses and user names required to access the different Directory systems are given in the tables following the examples.

The following examples step you through some searches and linking (or connecting) to other systems. Following the examples, some reference information is given to help you form your own queries. For more detailed information on the DIF, refer to the "Directory Interchange Format Manual" available from NASA's National Space Science Data Center (NSSDC) by calling Angelia Bland at (301)513-1687.

Example of a Typical Data Set Search

The following is an example of a search through the NOAA Environmental Services Data Directory for data on water vapor in North America from 1950 to the present. Although this particular search was run on the directory at NOAA, the search method is identical on all of the systems using the Master Directory software.

Connect to the NOAA directory using one of the methods listed in the appendix. Type in the username "NOAADIR" to enter the NOAA directory. Follow the instructions on the screen until you read the MAIN_MENU screen shown below.

MAIN_MENU NOAA Environmental Services Data Directory Page 1 of 1

The NESDD is an information resource for identification, location, and overview descriptions of Earth Science Data Sets.

1. DATA SET information search.

Supplementary Information available on:

2. DATA SYSTEM/ARCHIVE descriptions.

3. CAMPAIGN/PROJECT descriptions.

4. SOURCE (Spacecraft, Platform, ...) descriptions.

5. SENSOR (Instrument) descriptions.

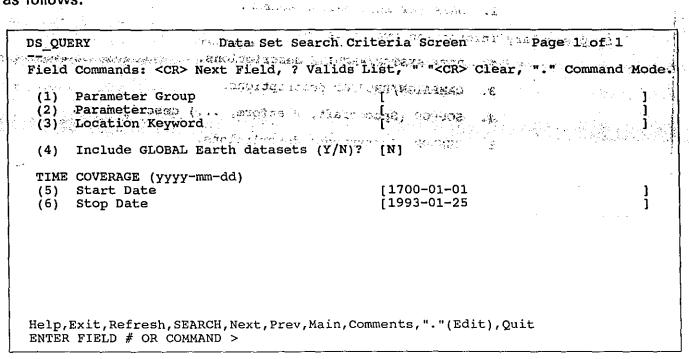
Help,Refresh,Comments,Quit
ENTER OPTION # or COMMAND > 1

Note that various parts of the screen are reserved for information about the screen, menu or available commands. The top line gives you the screen/menu name and the page number. The bottom line gives you the commands available at this step in the directory. Instructions can be found on the screen and on-line help is usually available at any point.

Type a "1" to select the "DATA SET information search." The SEARCH_SEL (search selection) menu will appear.

SEARCH SEL Data Set Search Key Selection Page 1 of 1 Enter one or more search key numbers from the list below (ex: 2,4,5). 1. DISCIPLINE 2. PARAMETER 3. LOCATION 4. TIME COVERAGE 5. GEOGRAPHIC COVERAGE (lat,lon) SOURCE NAME (Spacecraft, Platform, ...) 7. SENSOR NAME (instrument) 8. CAMPAIGN/PROJECT 9. INVESTIGATOR 10. DATA CENTER 11. OTHER KEYWORD The option below searches all keyword classes for arbitrary words or phrases. DO NOT combine with above options. WARNING your word choice may not match ours. 12. MULTIPLE KEYWORD SEARCH Help, Exit, Refresh, Comments, Quit Dir ENTER SEARCH KEY #s or COMMAND >2,3,4

Type in "2,3,4"; "2" to search on parameter, "3" to search on location, and "4" to select the date range for the data. The criteria you select are used to create the DS_QUERY form as follows:



Fill in the fields with the desired entries. Valid entries for "Parameter Group", "Parameter", and "Location Keyword" can be found by typing a "?" in each field or by referring to the tables included with this document.

DS_QUERY Data Set Search Cri	teria Screen	Page 1 of 1	
Field Commands: <cr> Next Field, ? Valids L</cr>	ist, " " <cr> Clear,</cr>	"." Command	Mode.
(1) Parameter Group(2) Parameter(3) Location Keyword	[[water vapor [north america]
(4) Include GLOBAL Earth datasets (Y/N)?	[Y]		
TIME COVERAGE (yyyy-mm-dd) (5) Start Date (6) Stop Date	[1950-01-01 [1993-01-25]
<pre>Help,Exit,Refresh,SEARCH,Next,Prev,Main,Comments,"."(Edit),Quit ENTER FIELD # OR COMMAND >s</pre>			

Since the tables of valid entries show that the parameter "water vapor" belongs to two parameter groups ("Atmospheric Composition" and "Hydrologic Parameters") we will leave the parameter group blank, so that data sets from both of these groups will be retrieved. Type "water vapor" in the parameter field and "north america" in the location field. To include data collected world-wide, type "Y" in answer to question 4. Fill in the start date field with "1950-01-01" and press return for the stop date field. The stop date field defaults to today's date (which was "1993-01-25" when this example was run). After filling out all the fields, type "s" at the command prompt to start the search.

```
QUERY_RESULT Titles Menu Page 1.of 3
19 directory entries selected
```

- 1. SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Atmosphere, Rain Rate and Wind Speed (Level 2)
- 2. SEASAT SMMR Sea Surface Temperature, Wind Speed, Water Vapor, Atmospheric Liquid Water and Rain Rate (Level 2.5)
- 3. Atmospheric Data from the NOAA Series Satellites TOVS Sounding Product
- 4. SEASAT Scanning Multichannel Microwave Radiometer (SMMR) Geophysical Data Record Geophysical Files and Sensor Files
- 5. SEASAT Scanning Multichannel Microwave Radiometer (SMMR) Geophysical Data RecordGeophysical File
- 6. Surface Marine Observations

Help,Exit,Refresh,Next,Prev,Page #,Output,SearchSel,Main,Comments,Quit ENTER SELECTION # or COMMAND > The QUERY RESULT menu will appear, displaying a list of all the titles found for the data sets that met the input criteria. In this case, there were 19 data sets found. Only the first page of the results is shown below. To view all the titles, press the <enter> or <return> kev at the COMMAND prompt.

QUERY RESULT

Titles Menu 19 directory entries selected Page 1 of 3

- 1. SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Atmosphere, Rain Rate and Wind Speed (Level 2)
- 2. SEASAT SMMR Sea Surface Temperature, Wind Speed, Water Vapor, Atmospheric Liquid Water and Rain Rate (Level 2.5)
- 3. Atmospheric Data from the NOAA Series Satellites TOVS Sounding Product
- 4. SEASAT Scanning Multichannel Microwave Radiometer (SMMR) Geophysical Data Record - Geophysical Files and Sensor Files
- 5. SEASAT Scanning Multichannel Microwave Radiometer (SMMR) Geophysical Data RecordGeophysical File
- 6. Surface Marine Observations

Help, Exit, Refresh, Next, Prev, Page #, Output, SearchSel, Main, Comments, Quit ENTER SELECTION # or COMMAND >1

To view the data set description, type in the title number that interests you. In this case, we have selected title 1.1 bigg and the title number that interests you. In this case, we have selected title 1.1 bigg and the title number that interests you. In this case, we have selected title 1.1 bigg and the title number that interests you. In this case,

The output is divided into six sections. The first is the BRIEF screen which contains the summary for the data set. As you can see at the top of the screen, this is page 1 of 2 pages.

BRIEF+ regres SECTION 1 of 6 Page 1 SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Page 1 of 2 10 Atmosphere, Rain Rate and Wind Speed (Level 2)

SEASAT was launched on June 28, 1978, carrying a five sensor payload, and operated successfully until a power failure brought transmission to a stop on October 10, 1978. Its height and inclination were 791 km and 108.0 deg., respectively.

The Scanning Multichannel Microwave Radiometer (SMMR) is a passive microwave radiometer measuring dual polarized microwave radiation from the earth's surface and atmosphere in 5 frequencies; 6.63, 10.69, 18.0, 21.0 and 37.0 GHz. SMMR swath width is 600 km.

The parameters derived from SMMR brightness temperatures are sea surface temperature, rain rate, wind speed at the ocean's surface, integrated column density of water vapor and liquid water in the atmosphere. Global coverage was achieved within the orbital extremes: +77/-72 deg. latitude from July 7 - August 17, 1978 with a ground track equatorial spacing of 165 km. From August 18 - October 10, 1978 (the date that SEASAT terminally malfunctioned) the ground track equatorial spacing was 900 km. From July 7 to August 26, 1978, the ground track was repeated every 17 days. From August 27

Help, Exit, Refresh, Next, Prev, Page #, Output, Display, Comments, Quit RETURN TO CONTINUE or COMMAND >

To see page 2, press the enter key.

```
SECTION 1 of 6
                                                                  Page 2 of 2
SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the
Atmosphere, Rain Rate and Wind Speed (Level 2)
to October 10, 1978, the ground track repeated once every 3 days.
                                                                      The measure-
ment temporal resolution is 10/second.
       This data set contains LEVEL 2.0 geophysical parameters corrected for
environm'ental effects. The parameters are sea surface temperature, wind speed,
atmospheric liquid water content, water vapor, rain rate and environmental
corrections. These data are stored on magnetic tape available from the NODS
Inventory, part of the NODS catalog system.
Related Data Sets: SEASAT SMMR (Levels 1, 1.5 and 2.5)
                           Altimeter (levels 1, 1.5, 2 and 2.5), SASS(levels 1, 1.5, 2 and 2.5) and
                           SAR(levels 1 and 1.5)
Data Set Status:
                        Complete
                  Level 2.0 data is available on tape through the NODS inventory
system for the entire 96 day SEASAT mission, with the exception of some data
outages (see, SEASAT Special Issue I, page 3182).
Help, Exit, Refresh, Next, Prev, Page #, Output, Display, Comments, Quit
Return for ATTRIBUTES display or Command>
```

For some data sets, the command "LINK" will appear in the list of available commands shown at the bottom of the screen). Whenever the "LINK" command appears, you can type "LINK" and be automatically connected with the system at the Data Center where the data set resides. The system that you connect to may have a different user interface. An example using the "LINK" command is given later in this manual.

Press the <enter> or <return> key to display the next section. The second section is the ATTRIBUTES screen which contains descriptive keyword information about the data set.

```
ATTRIBUTES+ SECTION 2 of 6 Page 1 of 4 SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Atmosphere Page 1 of 4
                                                                  Depor Bein
Atmosphere, Rain Rate and Wind Speed (Level 2)
                              · 斯斯特· 一下,
                                                                           11/2
Entry ID: SSGDRSMG (MD Identifier: 230)
Temporal Coverage:
                                          To: 1978-10-10
     From: 1978-07-07
Geographic Coverage:
     Southwest Extent: 725,180W
                                       Northeast Extent:
Source:
     SEASAT
Sensor:
     SMMR>Scanning Multifrequency Microwave Radiometer
Storage Media:
      381 magnetic tapes 1600 bpi
Help,Exit,Refresh,Next,Prev,Page #,Output,Display,Comments,Quit
RETURN TO CONTINUE or COMMAND >
```

Press <enter> or <return> to view the next page.

ATTRIBUTES SECTION 2 of 6 Page 2 of 4 SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Atmosphere, Rain Rate and Wind Speed (Level 2) Campaign/Project: CGC>Climate and Global Change Program Discipline, Subdiscipline: EARTH SCIENCE > OCEAN Physical Oceanography Location Keyword: GLOBAL Parameter Group, Parameter: ATMOSPHERIC COMPOSITION · > WATER VAPOR Atmospheric Liquid Water Help,Exit,Refresh,Next,Prev,Page #,Output,Display,Comments,Quit RETURN TO CONTINUE or COMMAND >

Press <enter> or <return> to view the next page.

SECTION 2 of 6 **ATTRIBUTES** Page 3 of 4 SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the SEASAT SMMR Sea Surface Temperature, making the season of Rain Rate ATMOSPHERIC DYNAMICS > WINDS

Wind Speed

OCEAN DYNAMICS > TEMPERATURE OCEAN DYNAMICS > TEMPERATURE Sea Surface Temperature OCEAN DYNAMICS > WINDS Wind Speed General Keywords: AIR-SEA INTERACTION ATMOSPHERIC LIQUID WATER Help, Exit, Refresh, Next, Prev, Page #, Output, Display, Comments, Quit RETURN TO CONTINUE or COMMAND >

Press <enter> or <return> to view the next page.

ATTRIBUTES SECTION 2 of 6 Page 4 of 4 SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Atmosphere, Rain Rate and Wind Speed (Level 2)

PHYSICAL OCEANOGRAPHY RAIN SEA SURFACE TEMPERATURE WATER VAPOR WIND SPEED

Science Review Date: 1988-09-15

Revision Date: 1988-09-15

Help,Exit,Refresh,Next,Prev,Page #,Output,Display,Comments,Quit
Return for DATACENTER display or Command>

Press <enter> or <return> to view the next section. Section three (DATACENTER) contains information about the Data Center, including the address and a person or office to contact for more information.

DATACENTER+
SECTION 3 of 6
SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Atmosphere, Rain Rate and Wind Speed (Level 2).

Archive:
NOAA/NESDIS/NCDC/SDSD>Satellite Data Services Division :0.004

Contact: NOAA/NESDIS/NCDC/SDSD,
Room 100
Princeton Executive Square
Washington, DC 20233
USA

Electronic Mail: TELENET> [AHORVITZ/NESDIS] TELEMAIL
Phone: 301-763-8400

Help, Exit, Refresh, Next, Prev, Page #, Output, Display, Comments, Quit
Return for PERSONNEL display or Command>

Press <enter> or <return> to view the next section. Section 4 is the PERSONNEL information. This section contains names and addresses of the author of the data set description, and if available, the scientific investigators, and technical contacts.

PERSONNEL+ SECTION 4 of 6 Page 1 of 3

SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Atmosphere, Rain Rate and Wind Speed (Level 2)

Investigator: LIU, TIM

Ms 300-323

Jet Propulsion Laboratory 4800 Oak Grove Drive Pasadena, CA 91109

USA

Electronic Mail: SPAN> STANS::WTL

Tech Contact: HILLAND, JEFF

MS 300-319

Jet Propulsion Laboratory 4800 Oak Grove Drive Pasadena, CA 91109

USA

Help,Exit,Refresh,Next,Prev,Page #,Output,Display,Comments,Quit
RETURN TO CONTINUE or COMMAND >

Help, Exit, Refresh, Next, Prev, Page #, Output, Display, Comments, Quit

Press <enter> or <return> to view the next page.

PERSONNEL SECTION 4 of 6 Page 2 of 3 SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Atmosphere, Rain Rate and Wind Speed (Level 2) Electronic Mail: SPAN> STANS: JEH: Lucid bas 3202 2007 (2007) TELEMAIL> [JHILLAND/NASA]NASAMAIL archares : Entry Author: SMITH, ELIZABETH A. (1980) 108/2010 108/100 MS 300-323 40 Connect Jet Propulsion Laboratory was on several such as and -4000 oc woodangen. 4800 Oak Grove Drive Pasadena, CA 91109 USA Electronic Mail: NSI/DECnet> STANS::EAS NSN> EAS@STANS.JPL.NASA.GOV TELEMAIL> NODS.JPL/OMNET

Press <enter> or <return> to view the next page.

RETURN TO CONTINUE or COMMAND >

PERSONNEL
SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Atmosphere, Rain Rate and Wind Speed (Level 2)

Phone: (818) 354-6980

Information in this entry provided by NODS

Help, Exit, Refresh, Next, Prev, Page #, Output, Display, Comments, Quit

Press <enter> or <return> to view the next section. Section 5 contains any references that are considered important. The format is the same used in the Journal of Geophysical Research (JGR).

Return for REFERENCE display or Command>

REFERENCE+
SECTION 5 of 6
Page 1 of 1
SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the
Atmosphere, Rain Rate and Wind Speed (Level 2)

Kirwan, A.D., T.J.Ahrens, and G.H.Born, eds., 'SEASAT Special Issue II:
Scientific Results', JGR, 88(c3), February, 1983.

Weissman, D.E., ed., 'Special Issue on the SEASAT-1 Sensors' IEEE J.
Oceanic Engineering, OE-5(2), April 1980.

Wind, B.B. and G.H. Born, SEASAT Geophysical Data Record (GDR) User's
Handbook: Scanning Multichannel Microwave Radiometer (SMMR).
NASA < Cal. Inst. of Tech., Jet Propulsion Laboratory, Pasadena, CA,
[JPL-622-205-A], [JPL-D-110], August 1982, 87 pages.

Help,Exit,Refresh,Next,Prev,Page #,Output,Display,Comments,Quit
Return for SUP_MENU display or Command>

Press <enter> or <return> to view the next section. The last display is section 6 called SUP_MENU for supplementary information. If there is descriptive information about the data center, campaign/project, sensors, and/or sources, it will be listed in this section. To view a description you simply type the line number. The descriptions in this section are the same as those accessed by options 2 through 5 in the MAIN_MENU.

SUP_MENU SECTION 6 of 6 Page 1 of 1 SEASAT SMMR Sea Surface Temperature, Water Vapor, Liquid Water in the Atmosphere, Rain Rate and Wind Speed (Level 2)

1. Source: SEASAT

Help,Exit,Refresh,Next,Prev,Page #,Output,Display,Comments,Quit
ENTER OPTION # or COMMAND > 1

Type "1" at the COMMAND prompt to view the supplementary information on SEASAT.

SOURCE_DISP Source Information Display Page 1 of 6 SEASAT-SEASAT THE TARK HER STREETS TOYOU BERIEF, WALLS CLOSE, TARROUT TO THE the second of the second property and SEASAT was the first satellite devoted entirely to sensing the ocean. It is what is generally know as as proof-of-concept mission, one whose major objective is to assess the merit of a new concept - in this case, microwave sensing of the ocean.
SEASAT-1 was launched on 6/6/78 and began collecting data almost pinesso immediately. Unfortunately, the main power supply on the satellite failed on October 10, 1978 (after about 100 days of operation) and no further data was collected. All of the sensors operated within specifications during the 100 days except for the visible and infrared radiometer. Originally, there was to be a SEASAT-B (or 2) to follow the first SEASAT. It was decided, however, to drop SEASAT-B in favor of the planned NOSS (National Oceanic Satellite System). That, too, was subsequently abandoned. Help, Exit, Refresh, Next, Prev, Page #, Output, Display, Comments, Quit COMMAND >

Only the first page is shown here, but you can press the <return > or <enter > key to scroll though all the pages if you wish.

You have now seen all of the sections regarding the data set that was selected. One of the options available to you now is to use the "Display" command which allows you to select options from various menus and screens. Press the <enter> or <return> key to access the DS MENU (display menu).

ds_menu	Available Display Options and Menus Page 1 of 1
	 Main Menu (MAIN MENU) Search Field Selection Menu (SEARCH_SEL) Query Criteria Form (FORM)
	DATA SET INFORMATION DISPLAY SCREENS
	4. Titles Selection Menu (QUERY_RESULT) 5. Brief Summary Display (BRIEF) 6. Data Set Attributes Display (ATTRIBUTES) 7. Data Center Contact and ID Display (DATACENTER) 8. Personnel Information Display (PERSONNEL) 9. Bibliographic Reference Display (REFERENCE) 10. Supplementary Information Menu (SUP_MENU)
	efresh,Comments,Quit N # or COMMAND >1

The "DATA SET INFORMATION DISPLAY SCREENS" (options 4 through 10) allow you to redisplay the list of titles retrieved during the last search, or to redisplay the various sections for the last data set that you viewed.

Option 3 displays the DS_QUERY screen so that you can change the parameters in the search FORM you have already created.

Option 2 takes you back to the SEARCH_SEL (search selection) menu allowing you to create a new DS_QUERY FORM.

Option 1 takes you back to the MAIN_MENU. We will select this option now and show you an example of using the LINK command by searching for a data center.

Example Using the "Link" Command

The MAIN MENU screen is shown below.

MAIN_MENU NOAA Environmental Services Data Directory Page 1 of 1

The NESDD is an information resource for identification, location, and overview descriptions of Earth Science Data Sets.

1. DATA SET information search.

Supplementary Information available on:

2. DATA SYSTEM/ARCHIVE descriptions.

3. CAMPAIGN/PROJECT descriptions.

4. SOURCE (Spacecraft, Platform, ...) descriptions.

5. SENSOR (Instrument) descriptions.

Help,Refresh,Comments,Quit ENTER OPTION # or COMMAND >2

Select option 2 "DATA SYSTEM/ARCHIVE descriptions." The DC_QUERY menu appears.

DC_QUERY	Data Cent	er Search Criteria	Screen	Page 1 of 1	
Field Commands:	<pre><cr> Next Field % % W % Lygne.</cr></pre>	, 2 Valids List, "	" <cr> Clear,</cr>	"." Command Mo	de.
		rectory contains in ion to those descri			1
(1) Disciplin	€	ι	•	1	
Data System / 2 (2) Short Nam		ſ		1	
Help,Exit,Refre		Comments,"."(Edit),	Quit		

To see a list of all the Data Systems, leave the Discipline field blank and put a "?" in file 2 "Short Name (Acronym)." The VALIDS list appears. In this example, we will select the European Space Agency Directory (ESAPID) by typing "1" after the command prompt.

NOTE: A list of some of the data centers which allow you to link to their systems is included in the table of Internet addresses later in this document.

VALIDS Valid Value Selection Page 1 of 1 1. ESAPID>European Space Agency Directory (IDN Node) 2. GCMD>GLobal Change Master Directory 3. HYDROSENSCNTR>National Operational Hydrologic Remote Sensing Center 4. NASDADIR>National Space Development Agency Directory of Japan (IDN Node) 5. NCAAS>NOAA Coastwatch Archive and Access System 6. NEDRES>National Environmental Data Referral Service (NEDRES) 7. NOAA/NESDIS>National Environmental Satellite, Data and Information Service 8. NOAA/NESDIS/NCDC>National Climatic Data Center (NCDC) 9. NOAA/NESDIS/NGDC>National Geophysical Data Center (NGDC) 10. NOAA/NESDIS/NODC>National Oceanographic Data Center (NODC) 11. NOAA/NMFS>National Marine Fisheries Service 12. NOAA/NOS>National Ocean Service 13. NOAA/NWS>NATIONAL WEATHER SERVICE 14. NOAA/OAR>Office of Oceanic and Atmospheric Research 15. NOAADIR>NOAA Environmental Services Data Directory 16. OCEANPRODCNTR>NOAA Ocean Products Center Help, Exit, Refresh, Next, Prev, Page ENTER OPTION # or COMMAND > 1

The word "ESAPID" is automatically placed in field 2.

Construction of the second control of the se		e Proposition (Contraction of the Contraction of th
DC QUERY OM YABUD Dibata Center;	Search Criteria Scree	Page 1 of 1
Field-Commands: <cr> Next Field, ?</cr>	Walida Tiet " "ZOD	Close # # Gommand Mada
	Particular de Promoto de la ligação de translativa La Maria de Particular de la la California de la	· 사람들의 기계
Please be aware that the direction data centers in addition	tory contains informa	ation on data sets
(1) Discipline		10 00 00 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0
Data System / Archive (2) Short Name (Acronym)	[esapid	3
		,
Help,Exit,Refresh,SEARCH,Main,Comm ENTER FIELD # OR COMMAND >s	ents,"."(Edit),Quit	

Type "s" at the COMMAND prompt to start the search.

The DC_DISPLAY screen displays the description of the Data Center. There are four pages of data in this example. Usually, you should read all the pages to find out how the system works. In this case, we will just go ahead and type the "LINK" command.

DC_DISPLAY Data Center Information Display Page 1 of 4
European Space Agency Directory (IDN Node)-ESAPID

Description:

IDN Directories are on-line computer guides to space and environmental data held by government agencies and universities throughout the world.

The ESAPID is the International Directory Network (IDN) Coordinating Node located at the European Space Agency in Frascati, Italy. The IDN is sponsored by the Committee on Earth Observation Satellites, and has three Coordinating Nodes, the Global Change Master Directory at the Goddard Space Flight Center in the USA, the NASDA Directory in Japan, and the ESAPID Directory in Italy. It serves two major purposes:

- 1. It provides government agencies with a common system for documenting data held in these agency offices.
- 2. It provides the general research and scientific community with a way to

Help,Exit,Refresh,Next,Prev,Page #,Output,Display,Comments,Quit,LINK
COMMAND > link

31.452

You are now connected to the European Space Agency directory. This directory uses the same software as the NOAA directory. From this system you can link to the SPOT IMAGE system (DALI) and perform a search of their satellite imagery. An example of a simple search session on DALI is given later in this document.

Once you have logged out of the foreign system, you will be returned to the DC_DISPLAY screen.

DC_DISPLAY Data Center Information Display Page 1 of 4
European Space Agency Directory (IDN Node)-ESAPID

Description:

IDN Directories are on-line computer guides to space and environmental data held by government agencies and universities throughout the world.

The ESAPID is the International Directory Network (IDN) Coordinating Node

located at the European Space Agency in Frascati, Italy. The IDN is sponsored by the Committee on Earth Observation Satellites, and has three Coordinating Nodes, the Global Change Master Directory at the Goddard Space Flight Center in the USA, the NASDA Directory in Japan, and the ESAPID Directory in Italy. It serves two major purposes:

- 1. It provides government agencies with a common system for documenting data held in these agency offices.
- 2. It provides the general research and scientific community with a way to

Help,Exit,Refresh,Next,Prev,Page #,Output,Display,Comments,Quit,LINK
COMMAND >quit

Select any of the available commands that you wish. We are done with the two examples and will type "quit" to exit the NOAA directory. You will have to type "quit" again. Finally, you will be asked if you wish to leave comments. All comments, questions and/or corrections are welcome and appreciated.

one software as the indead fracesty, chook this system you can too to take highest sweet file in the analysis of their society. An example of a simple scarch session on DAM is given later in this document.

Once you have logged out of the luxelyn system, you will be returned to the DC DISPLAY

Do misplay Sand Garler Information Display Pages Lof. 4

Example of a Simple Search Session on the DALI/SPOT-IMAGE System
The following example takes you through a very simple search sequence. If you plan on using the DALI system, you need to get a copy of the user manual, as it is a complex system with many options available.
You may access the DALI system through the European Space Agency Directory (ESAPID). The fastest way to link to DALI is to choose option 2 "DATA SYSTEM/ARCHIVE descriptions" from the MAIN_MENU of the ESAPID.
Fill in the field labelled "(2) Short Name (acronym)" with the word "DALI". Type "s" at the command prompt to search for the description of DALI.
After the search is completed, the command "LINK" will appear on the bottom line of your screen. Type in "link" at the command prompt.
You will be automatically connected to DALI. Use the following account information to log into the system: account: QLEMASTER passwd: MASTER
At the command prompt ">", type
con cat. to connect to the catalog. Make sure you type the space and period "." at the end of the command.
You can now perform searches of the database. A simple example of a search is given below. For other information, refer to the "Type 3 Consultation Station User's Manual" for SPOT IMAGE. To perform the example search, type: SE GEO KJ 066/316 CRI DA FR 1991/07/01 TI 10:18 TO 1991/07/01 TI 10:19.
 Again, you must put a period "." at the end of the search command. The above command is an example from the SPOT IMAGE Manual and means "SElect GEOgraphic KJ k/j CRIteria FRom YYYY/MM/DD TIme HH:MM TO YYYY/MM/DD TIme HH:MM."
There are many other ways to search the database that are outlined in the manual. The search results will be displayed on the screen. The user manual explains the various output parameters.
Exit from the DALI system by typing: DIS.

which is short for DISconnect. You will be returned to the Data Center description screen

in the ESAPID Master Directory.

Connecting to the NOAA Environmental Services Data Directory

You can access the directory via EITHER:

- A. Internet:
 - 1. type "telnet esdim1.nodc.noaa.gov" OR "telnet 140.90.235.168"
 - 2. at the "Login:" prompt, type "noaadir"
- B. By phone:
 - 1. use the settings: full duplex, 8 bits, no parity, one stop bit, 300 to 9600 baud (preferred terminal type is vt100)
 - 2. dial (202) 606-4666, (202) 606-5082 or (202) 606-5085
 - 3. at "Xyplex>" prompt, type "c esdim1" (press
break> key several times if "Xyplex>" prompt does not appear)
 - 4. at "Login:" prompt, type "noaadir"
 - 5. at the end of your session, press the
break> key
 - 6. at "Xyplex>" prompt, type "dis"
 - 6. hang up your phone

List of Internet Addresses for Various Directories

INTERNATIONAL DIRECTORY NETWORK

COORDINATING NODES:

1. American Coordinating Node -- Global Change Master Directory (NASA GCMD)

telnet nssdca.gsfca.nasa.gov OR

telnet 128,183,36,23

Username: nssdc (To use the usual Master Directory interface)

Username: dir demo (To use the demonstration copy of the new Master

Directory)

From GCMD links (connections) are available to other systems including:

Astronomical Data Catalog ADC

University of Alaska Fairbanks/Geodata Center ALI

AMPTE Ampte CCE Investigator Info Account NASA/RECON ARIN Database System ARIN

BATSE GRO/BATSE Solar Database BBSO Big Bear Solar Observatory BRUNET Request Catalog 13 1,173 BRUNET

Canadian Centre for Remote Sensing CCRS

DALI SPOT IMAGE DALI n DE WATS Catalog File DEWATS1

Energetic Ion Composition Spectrometer File EICS EINSTEIN

SAO Einstein Data Center

Space Environment Information Service ENVIRONET

Earthnet Catalog EPOCAT EROS Data Center EROS

European Space Information System ESIS ESO Space Telescope Information Service ESO-INFO

ESO/ST-ECF STARCAT System ESO/ST-ECF STARCAT

EUMETSAT EUMETSAT

EXOSAT EXOSAT at ESTEC EXOSAT at GSFC EXOSATGSFC

Goddard Institute for Space Studies GISS GLIS Global Land Information System

GOLDIS Geophysics On-Line Data & Info System

Goddard Pilot Land Data System **GPLDS**

Gamma Ray Observertory Science Support Center **GRONEWS**

IRIS Incorporated Research Institutions for Seismology

IUE International Ultraviolet Explorer

JAPAN World Data Center - C2, Kyoto, Japan

LANG LANGMUIR Probe Catalog
LPI Lunar Planetary Institute

MEES Solar Observatory, Univ. Hawaii

MULTIWAVELINK Multiwavelink Database

NACS Neutral Atmosphere Composition Spectrometer File

NCDC National Climate Data Center (NCDC)

NCDS NASA Climate Data System

NDADS NASA Distributed Archive Data System NED NASA/IPAC Extragalactic Database

NOAO National Solar Observatories

NSEL NOAA Space Environment Laboratory

NSSDCREQ Request data and/or information from NSSDC

OCEANIC Ocean Network Information Center

OMNIFILE OMNI Tape File

PDS Planetary Data System

PDS_ATMOS Planetary Data System Atmospheres Node

PDS_GEO Earth and Remote Sensing Lab
PDS_PPI PDS Planetary Plasma Interactions
PLDSAMES Pilot Land Data System at AMES
PLDSJPL Pilot Land Data System at JPL

PNRA Programma Nazionale Ricerche Antartide

QUEST ESA/Information Retrieval Service

RGO La Palma Archive System

That

MHTONE

Eddied Service

100

SIMBAD ESO/ST-ECF STARCAT SYSTEM

SINFONIA

SMMDAC SMM Data Analysis Center

SSEOP Flight Science Support Office Photographic Datacenter

STEIS Space Telescope Electronic Info Service

STORM System

SWRI Southwest Research Institute

SWRIDE Southwest Research Institute-Dynamic Explorer

TOMS Total Ozone Mapping Spectrometer Data

UARS Upper Atmosphere Research Satellite (UARS) at CDHF

URI Inventory Facility at University of Rhode Island

UTD University of Texas, Dallas

VEFI Vector Electric Field Instrument Catalog

VLA VLA Information System

2. Asian Coordinating Node -- NASDA (Japanese Space Agency) telnet 133.56.72.1 Username: nasdadir The Japanese Directory includes a Bulletin Board service and an inventory system (SINFONIA) on satellite data. Links are available to nearly all of the systems listed above for the American Coordinating Node. 3. European Coordinating Node -- ESAPID (European Space Agency in Frascati, Italy) telnet 192.106.252.160 username: esapid From ESAPID links (connections) are available to other systems including: **BBSO** Big Bear Solar Observatory BRUNET BRUNET **CCRS** Canada Centre for Remote Sensing **CNES-SPOT IMAGE Catalogue** DALI ESA Earthnet online catalogue (formally LEDA) **ESA EARTH IMAGES** ESA EPO AGO DE LO TESES European Space Agency Earthnet Programme Office European Space Agency Information Retrieval Service ESA-IRS -19,060 European Space Information System **ESIS EUMETSAT** European Meteorological Satellite Organisation **GLIS** Global Land Information System Geophysics ON-Line Data and Information System GOLDIS **IUE FACILITIES** International Ultraviolet Explorer NASA Climate Data System NCDS NOAA Space Environment Laboratory NOAA-SEL NASA Ocean Data System NODS National Space Science Data Center NSSDC **OCEANIC** Ocean Network Information Center PDS Planetary Data System **PNRA** Italian Program for Antarctic Researches South-Pole Directory Space Environment Realtime Data Intercommunication SERDIN Network **UARS** Upper Atmosphere Research Satellite URI AVHRR ARCHIVE University of Rhode Island AVHRR Archive

Like

COOPERATING NODES:

GCNet (Canada Centre for Remote Sensing)

telnet gcnet.ccrs.emr.ca OR telnet 132.156.47.218

username: gcnet

This system has a directory service (Master Directory), and Image Inventory of SPOT 1&2, MOS 1&1B and LANDSAT 1-5 images, and a bulletin board about remote sensing activities in Canada. Both French and English interfaces are available.

2. NOAADIR (NOAA Master Directory)

telnet nodc.nodc.noaa.gov OR telnet 140.90.235.10

username: noaadir

From NOAADIR links (connections) are available to other sytems including:

ESAPID

European Space Agency Master Directory

GCMD

NASDADIR

NASDADI

Global Candination and information System

GOLDIS NUE FACILITIES

NILDE

OTHER SYSTEMS WITH GLOBAL CHANGE DATA:

 Consortium for International Earth Science Information Network (CIESIN) — Green Pages

telnet sirius.poly.edu OR telnet 128.238.32.62

Login: gp (no password)

There is an X Windows interface available for this system.

	2.	GLIS (United States Geological Survey (USGS) Global Land Information System)
		telnet glis.cr.usgs.gov OR telnet 152.61.192.54
		Username: glis
		In November, a new PC based image browse program should be available. In January, an image browse program should be available for UNIX workstations.
	3.	KuDA (Kuwait Data Archives at the National Center for Atmospheric Research)
7		telnet 128.117.84.65
_]		user_id: kuda password: science
ר.		There is an X Windows interface available for this system.
	4.	NOAA National Climate Data Center (NOAA/NESDIS/NCDC)
		telnet hurricane.ncdc.noaa.gov OR telnet 192.67.134.72
		Login: storm Password: research
		There is an X Windows interface available for this system.
]	5.	WAIS - Wide Area Information Servers
		telnet quake.think.com OR telnet 192.31.181.1
		userid: wais
		By following the instructions on the screen, the user should be able to search for data from the Global Change Master Directory (GCMD), the NOAA Environmental Services Data Directory (NESDD) and the National Environmental Data Referral System (NEDRES).

Summary of Commands and Menus/Screens Used in the Master Directory

GENERAL INFORMATION

Usually, the menu name is displayed in the upper left hand corner. The page number is displayed in the upper right hand corner. Commands used within the fields are listed on the second line. Directory commands are listed at the bottom of each screen.

The main menu (MAIN_MENU) is separated into two general search categories. The first option allows you to search for datasets of interest. The other options provide supplementary information on Data Centers, projects, sensors and sources. Not all of the Data Centers, projects, sensors or sources referenced in the data set descriptions are included in the supplementary information.

SUMMARY OF COMMANDS

"."(Edit)	By typing a period ("."), you may edit your search requirements
Comments And Special and Special and Special S	Leave comments for the Directory staff
Display	Go to the DS MENU VIII
Exit	Go to the previous screen
Help	On-line help you must "exit" help to get back to the \$
	menus Battellowtac &
 LINK	Connect to another computer system 33445655
Main	Go to the MAIN MENU
Next	Go to the next page of help text
Output	Set your printer to capture information displayed on your
•	screen. The information is displayed in an easy to read
	format.
Page #	Go to the specified (#) page of the section of the search
	result (see the list of sections under DS MENU)
Prev	Go to the previous page of section
Refresh	Redraw the screen
Search	Search the database using the specified fields
SearchSel	Go to the SEARCH SEL menu
Quit	Exit the Master Directory (logout)

DESCRIPTION OF IMPORTANT SCREENS/MENUS

ATTRIBUTES Screen displaying various attributes of the dataset (dates,

sensors, parameters, etc)

BRIEF Screen displaying the summary of the dataset description

DATACENTER Screen displaying information/address of the Data Center

where the dataset resides

DS MENU Menu allowing you to choose between various other

screens/menus

DS_QUERY FORM The query form as per your last search

MAIN MENU First menu in the Directory

PERSONNEL Screen displaying information/address of the author,

technical contact, etc.

QUERY RESULT The list of titles resulting from the search

REFERENCE Screen displaying bibliographic information associated

with the dataset

SEARCH_SEL Field selection menu for dataset searches

SUP_MENU Where available, allows you to access general

information regarding the Data Center, sensors and/or

in the second

sources by selecting the line number of interest.

DESCRIPTION OF SEARCH RESULTS

The description of each dataset is divided up into six sections described above:

1. BRIEF (1981) E LIDIVETO SIT OF OED (1981)

2. ATTRIBUTES on of other Tixe" More poy -- gian enti-no

3. DATACENTER
4. PERSONNEL

5. REFERENCE

6. SUP_MENU THE REST OF SET OF

DESCRIPTION OF THE DS MENU OPTIONS

The DS MENU display menu allows you to select from the available menus:

- 1. MAIN_MENU
- 2. SEARCH_SEL
- 3. FORM

or to display the results of your last dataset search:

- 4. QUERY_RESULT
- 5. BRIEF
- 6. ATTRIBUTES
- 7. DATACENTER
- 8. PERSONNEL
- 9. REFERENCE
- 10. SUP MENU

DESCRIPTION OF THE SEARCH SEL MENU

The SEARCH_SEL menu allows you make a FORM containing those fields you wish to search on. You may later edit this FORM or create a new one. Once a field has been selected, you may type a "?" in the field to see a list of available entries. NOTE: the source and sensor fields have some added intelligence built in. Entries in these fields are often "aliased" to other names for the instrument, satellite, etc. For example, to look for data from the GOES 1 satellite, you can input "GOES1" as the source. The search will return all the sources that are aliased to GOES1. In this case, it will include "GOES 1" and "GOES-1".

- 1. DISCIPLINE
- 2. PARAMETER
- 3. LOCATION
- 4. TIME COVERAGE
- 5. GEOGRAPHIC COVERAGE
- 6. SOURCE NAME
- 7. SENSOR NAME
- 8. CAMPAIGN/PROJECT
- 9. INVESTIGATOR
- 10. DATA CENTER
- 11. MULTIPLE KEYWORD SEARCH

must come from a table of valid entries must come from a table of valid entries must come from a table of valid entries

any date from 1 A.D. to present latitude and longitude of interest

platform where sensor is located (satellite, observatory, etc.)

name of instrument

name of project data was gathered under

last name of the investigator

Data Center acronym

miscellaneous keywords, where available

	Table of Valid Entries for	or "discipline"
Discipline	Subdiscipline	Third Level
Astronomy	Cosmic Ray Astronomy Gamma Ray Astronomy	
	Infrared Astronomy Microwave Astronomy Radio Astronomy Ultraviolet Astronomy	
	Visible Astronomy X-Ray Astronomy	
Earth Science	Atmosphere Interior and Crust	
	Land Ocean	
Life Sciences	Anatomy	Cytology Embryology Histology Neuroanatomy
	Biochemistry	Histocytochemistry Immunochemistry Neurochemistry
A STATE OF THE STA	Biology North	Botany Developmental
	A STATE OF THE STA	Ecology Genetics Immunology
	er en en en filosofie. En en	Marine Microbiology Molecular
		Neurobiology Parasitology
	Biophysics	Radiobiology Zoology Biomechanics Bionics
		Electrophysiology

(Life Sciences)	Chemistry	Agricultural Analytical Biochemistry Clinical Inorganic Organic Pharmaceutical Physical
	Medical Science	Adolescent Medicine Allergy Anesthesiology Behavioral Medicine Chronic Diseases Clinical Medicine Communicable Diseases Community Medicine Dermatology Emergency Medicine Epidemiology Forensic Medicine Gerontology
	्राची कार्य २ - १८८३ स्टार्वकार्यकारम् ।	Gynecology Immunology
	en e	Internal Medicine
	September 1997 - William Control	Medical Genetics
	Dovelapmental	Neurology
	Lewise	Nuclear Medicine
	Central Control	Nürsing Nütrition
	Aco, comman	Obstetrics
		Oncology
		Ophthalmology
		Optometry
		Orthopedics
	•	Orthoptics Osteopathic Medicine
•		Otolaryngology
		Pathology
		Pediatrics
		Pharmacology
		Pharmacy Physical Madicine
		Physical Medicine Podiatry
		Psychiatry
		, o joinad j

	(Life Sciences)	(Medical Science)	Psychology
			Radiology
			Serology
			Social Medicine
П			Toxicology
			Urology
			Venereology
П			Veterinary Medicine
		Neuroscience	Neuroanatomy
			Neurobiology
			Neurochemistry
			Neuroendocrinology
			Neuropharmacology
			Psychophysiology
		Physiology	Electrophysiology
_			Endocrinology
			Neurophysiology
L.J			Psychophysiology
		Psychology	Adolescent Psychology
			Behavioral
Li			Child
r			Clinical
			Comparative
نـــا			Educational
П			Ethnopsychology
			Experimental
<u></u>	· ·	-	Industrial
[]		,	Medical
			Social
_		Public Health	Biostatistics
П			Chronic Disease
			Communicable Disease
			Demography
			Environmental Health
			Epidemiology
	•		Health Behavior
			Health Education
			Health Management and Policy
			Health Services Administration
			International Health
			Nutrition
			Occupational Health
			Population Dynamics

Microgravity

Planetary Science Atmospheres

Fields and Particles

Geosciences Small Bodies

Rings

Solar Physics Gamma-Ray Observations

Infrared Observations
Microwave Observations
Radio Observations
Ultraviolet Observations
Visible Observations
X-Ray Observations

Space Physics Interplanetary Studies

Ionospheric Science Magnetospheric Science

Isroinoulia Isroinoulia Isportuisia Indualia Isroina

Table of Valid Entries for "location"

<u></u>	Sorted by "discipline"		
	ASTRONOMY	Sea Surface	
- 1	7.0 (1.01.01.7)	South America	
	Clusters of Galaxies	Southern Ocean	
()	Extended Objects (Astronomy)	Stratosphere	
	Galaxies	Troposphere	
1 1	Interstellar Medium	,	
	Local Group of Galaxies	PLANETARY SCIENCE	
Π	Milky Way Galaxy		
	Novae	Asteroids	
	Quasars	Comets	
	Radio Sources	Jupiter	
	Star Clusters	Mars	
	Stars	Mercury	
	Supernova Remnants	Meteoroids	
	Supernovae	Moon (Earth)	
~ ,		Moons (other)	
	EARTH SCIENCE	Neptune	
		Pluto	
	Africa	Rings (planetary)	
	Antarctica	Saturn	
	Arctic Ocean	Uranus	
-	Asia	Venus	
	Atlantic Ocean		
	Australia	SOLAR PHYSICS	
7	Boundary Layer		
	Core	Chromosphere	
	Crust	Corona	
\neg	Equatorial	Photosphere	
	Europe	Solar Interior	
	Global	Transition Region	
	Indian Ocean		
	lonosphere	SPACE PHYSICS	
-	Mantle		
	Mediterranean Sea	High Latitude Magnetosphere	
	Mesosphere	Inner Magnetosphere	
¬	Mid-Latitude	Interplanetary (deep space)	
	North America	Interplanetary (near Earth)	
_}	Pacific Ocean	lonosphere	
]	Polar	Magnetosphere (other)	
	Sea Floor	Magnetotail	

Table of Valid Entries for "location" Sorted Alphabetically

Africa Antarctica Arctic Ocean

Asia Asteroids Atlantic Ocean

Australia

Boundary Layer Chromosphere Clusters of Galaxies

Comets Core Corona Crust Equatorial

Extended Objects (Astronomy)

Galaxies Global

Europe

High Latitude Magnetosphere

Indian Ocean

Inner Magnetosphere

Interplanetary (deep space) Interplanetary (near Earth)

Interstellar Medium

Ionosphere Jupiter

Local Group of Galaxies Magnetosphere (other)

Magnetotail Mantle Mars

Mediterranean Sea

Mercury Mesosphere Meteoroids Mid-Latitude

Milky Way Galaxy

Moon (Earth) Moons (other) Neptune

North America

Novae

Pacific Ocean Photosphere

Pluto Polar Quasars

Radio Sources Rings (planetary)

Saturn Sea Floor Sea Surface Solar Interior South America Southern Ocean Star Clusters

Stars

Stratosphere

Supernova Remnants

Supernovae

Transition Region

Troposphere

Uranus Venus

Table of Valid Entries for "parameter group" and "parameter" Sorted by "parameter group"

Anatomical Parameters

Body Regions Musculoskeletal System

Nervous System Cardiovascular System Cells Reproductive System

Digestive System Respiratory System **Embryonic Structures** Sense Organs

Endocrine System Stomatognathic System Fluids and Secretions Tissue types

Hemic and Immune Systems **Urogenital System**

Astronomical Parameters

Oscillations **Abundances** Parallaxes Bibliography Photometry **Binaries** Colors Polarization **Cross Identifications Positions**

Proper Motions **Ephemerides** Radial Velocities Imagery

Reddening Magnetic Fields Redshifts Magnitudes

Rotational Velocities Masses Space Velocities Models

一名时为什么可以知识的原本等。 Spectra Morphology

Alphy Per Mos may Adduct Object Counts Spectrophotometry ಗಳು ಇತ್ತುವರಿ College College Variability Occultations

Atmospheric Composition

Nitric Acid Aerosols Air Quality Nitrogen

Nitrogen Dioxide Ash

Carbon Dioxide Oxygen Chlorofluorocarbons Ozone

Trace Elements Clouds Contaminants Trace Gases Humidity Tracers

Water Vapor Methane

e de la companya del companya de la companya del companya de la co

VienoC

Office Same Same

Atmospheric Dynamics

Altitude

Atmospheric Temperature

Cloud Types Evaporation

Evapotranspiration Geopotential Height

Heat Flux Humidity

Paleoclimate Indices

Precipitation Pressure

Solar Radiation

Storms Visibility Winds

Biological Entities

Birds

Domesticated Animals Domesticated Plants Endangered Species

Land Wildlife

Microorganisms Minor Species Ocean Vegetation Ocean Wildlife Surface Vegetation

Biotechnology

Cells

Cell Cultures

Crystal Growth

Proteins

Separations

2000000

Alpha Particles

Specie

villdshay

Reddoning

nslintaber?

DELICATE NESS

Space Velocites

Composition viscourage of the Composition

Density

Differential Flux

Distribution Functions

Electron Flux

Energetic Particles

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Morphonogy

-Oniset Counts

\$000 (\$411.10Q)

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Heavy lons

Proton Flux

Speed

Temperature

Diseases

Addiction Neoplasms Bacterial Nervous System Cardiovascular Nutritional and Metabolic Chronic Occupational Communicable Ophthalmic Dermatologic Otorhinolaryngologic Digestive System Parasitic Endocrine Poisoning Eve **Pregnancy Complications Fungal** Respiratory **Immunologic** Skin

Infection Injury Musculoskeletal

Neonatal

Earth Radiative Processes

Stomatognathic

Urologic Virus

Albedo Radiance
Brightness Temperature Solar Activity
Heat Flux Temperature
Irradiance Thermal Inertia

Geodynamic Features

Earthquakes
Polar Motion
Seismic
Geodesy
Structures
Geothermal
Gravity Fields
Magnetic Fields
Polar Motion
Seismic
Structures
Tectonophysics
Terrain Elevation
Volcanoes

Geography and Land Cover

Albedo Rivers
Cultural Features Snow
Elevation Soils
Fires Surface Vegetation
Glaciers Surface Water
Ice Topographic Data
Lakes Wetlands
Landforms

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Geological Parameters

Age Determinations

Coal

Economic Minerals

Geochemical Analysis

Igneous and Metamorphic Rocks

Lithology

Mineralogy and Crystallography

Paleontology Petroleum

Petrology

Sedimentary Rocks

Soils

Stratigraphy

Health Care

Clinical Care

Community Care

Institutional Care

Hydrologic Parameters

in in the

Coma speciment

Suisil karroyl

Contamination

Deposition

Erosion

Evaporation

Glaciers

Ground Water

Infiltration

Oxygen Demand

Precipitation

Rivers

Runoff

Sedimentation

Solids

Surface Water

Temperature

Turbidity

Regulated Convert Water Vapor

Wetlands

Magnetic and Electric Fields

Activity Indices

Electric Fields (DC)

Electric Wave Spectra (AC)

Magnetic Fields (DC)

Magnetic Wave Spectra (AC)

(MUSEC) TE

Material Science

Containerless Processing

Crystal Growth

Electronic and Photonic Materials

Glasses and Ceramics

Metals and Alloys

Solidification

Thermophysical Properties

Neutral Particles

Composition

Density

Distribution Functions

Flux

Speed

Temperature

Ocean Composition

Alkalinity **Aquatic Plants** Biomass Carbon Dioxide Chemical Tracers Chlorophyll Conductivity **Dissolved Solids** Light Transmission **Major Elements** Minor Species **Nitrate** Nitric Acid Nitrite Nitrogen

Ocean Wildlife Organic Matter Oxygen рН

Phosphates Phytoplankton

Pigment Concentration

Pollutants Salinity Sea Ice Sediments Silicate

Suspended Solids Trace Elements Upwelling

Sea Surface Height

Zooplankton

Ocean Dynamics

Bathymetry Brightness Temperature Sedimentation Currents Evaporation with the property of the property Geopotential Height Heat Flux Pressure -**Primary Production** Sea Ice

Nitrogen Dioxide

Nutrients

Sea Level

Swell Temperature
Tides
Turbidity
Upwelling Waves Winds

Physiological Parameters

Adaptation Aging

Body Constitution

Body Temperature Cell Count

Cell Physiology Chronobiology

Circulatory Physiology Digestive Physiology Electrophysiology

Eye Physiology

Growth and Development

Hematology Homeostasis

Musculoskeletal Physiology

Neural Physiology Oral Physiology

Reproduction Physiology Respiratory Physiology

Skin Physiology

Urogenital Physiology

Public Health

Accidents Behavior

Disease Outbreaks **Drug Contamination Environmental Health** **Epidemics**

Epidemiologic Measurements

Food Poisoning

Nutrition

the state of the second of the second HOWAR Radiance and Imagery Registration of access that

Gamma Ray

News.

Infrared Cobit Visible Higher teleproperty Infrared

Microwave

Radio Wave

Solar Properties

Active Regions Coronal Holes Coronal Properties

Events Filaments Flares

Imagery Oscillations Prominences Sunspots

Synoptic Maps Velocity Fields

Vital Statistics

Demography Morbidity

Mortality

	Table of Valid Entries for "parameter group" and "parameter" Sorted by "parameter"	
<u></u>)	PARAMETER	PARAMETER GROUP
	Abundances	Astronomical Parameters
	Accidents	Public Health
	Active Regions	Solar Properties
	Activity Indices	Magnetic and Electric Fields
	Adaptation	Physiological Parameters
	Addiction	Diseases
	Aerosols	Atmospheric Composition
	Age Determinations	Geological Parameters
	Aging	Physiological Parameters
	Air Quality	Atmospheric Composition
	Albedo	Earth Radiative Processes
	Albedo	Geography and Land Cover
السا	Alkalinity	Ocean Composition
	Alpha Particles	Charged Particles
	Altitude	Atmospheric Dynamics
	Aquatic Plants	Ocean Composition
	Ash	Atmospheric Composition
	Atmospheric Temperature	Atmospheric Dynamics
	Bacterial	Diseases
	Bathymetry	Ocean Dynamics
<u> </u>	Behavior	Public Health
	Bibliography	Astronomical Parameters
	Binaries	Astronomical Parameters
	Biomass	Ocean Composition
\neg	Birds	Biological Entities
	Body Constitution	Physiological Parameters
	Body Regions	Anatomical Parameters
1		

Body Temperature

Brightness Temperature

Brightness Temperature

Carbon Dioxide

Carbon Dioxide

Cardiovascular

Cardiovascular System

Cell Count

Cell Cultures

Cell Physiology

Cells

Cells

Chemical Tracers

Chlorofluorocarbons

Chlorophyll

Chronic

Chronobiology

Clinical Care

Cloud Types

Clouds

Coal

Colors

Communicable

Community Care

Composition

Composition

Conductivity

Containerless Processing

Contaminants

Physiological Parameters

Earth Radiative Processes

Ocean Dynamics

Atmospheric Composition

Ocean Composition

Diseases

Anatomical Parameters

Physiological Parameters

Biotechnology

Physiological Parameters

Anatomical Parameters

Biotechnology

Ocean Composition

Atmospheric Composition

Ocean Composition

Bridge Conservation Conservation

ASSOCIATION Physiological Parameters

Circulatory Physiology Physiological Parameters

Health Care

Atmospheric Dynamics

Atmospheric Composition -

Geological Parameters

Astronomical Parameters

Diseases

Health Care

Charged Particles

Neutral Particles

Ocean Composition

Material Science

Atmospheric Composition

L_j	Contamination	Hydrologic Parameters
	Coronal Holes	Solar Properties
	Coronal Properties	Solar Properties
	Cross Identifications	Astronomical Parameters
L_1	Crystal Growth	Biotechnology
	Crystal Growth	Material Science
	Cultural Features	Geography and Land Cover
	Currents	Ocean Dynamics
	Demography	Vital Statistics
	Density	Charged Particles
	Density	Neutral Particles
	Deposition	Hydrologic Parameters
<u></u>	Dermatologic	Diseases
	Differential Flux	Charged Particles
	Digestive Physiology	Physiological Parameters
	Digestive System	Anatomical Parameters
<u>. </u>	Digestive System	Diseases
	Disease Outbreaks	Public Health
	Dissolved Solids	Ocean Composition
	Distribution Functions	Charged Particles
	Distribution Functions	Name Destate
	Domesticated Animals	Biological Entities
	Domesticated Plants	Biological Entities
	Drug Contamination	Public Health
	Earthquakes	Geodynamic Features
	Economic Minerals	Geological Parameters
	Electric Fields (DC)	Magnetic and Electric Fields
_]	Electric Wave Spectra (AC)	Magnetic and Electric Fields
	Electron Flux	Charged Particles
d	Electronic and Photonic Materials	Material Science
7		

Electrophysiology Physiological Parameters

Elevation Geography and Land Cover

Embryonic Structures Anatomical Parameters

Endangered Species Biological Entities

Endocrine **Diseases**

Endocrine System Anatomical Parameters

Energetic Particles Charged Particles

Public Health **Environmental Health**

Ephemerides Astronomical Parameters

Epidemics Public Health **Epidemiologic Measurements** Public Health

Erosion Geodynamic Features **Erosion Hydrologic Parameters** Atmospheric Dynamics

Evaporation Hydrologic Parameters

Evaporation Ocean Dynamics Atmospheric Dynamics Evapotranspiration

Cheeren Outbrooks **Events** Solar Properties

Disserved Solids

Diseases Eye

Solar Properties

Physiological Parameters नाया नाया । Eye Physiology enochmet make ette

Geography and Land Cover Fires

Solar Properties Flares

Anatomical Parameters Fluids and Secretions

Neutral Particles Flux

Food Poisoning Public Health

Fungal Diseases

Radiance and Imagery Gamma Ray

Geochemical Analysis Geological Parameters

Geodesy Geodynamic Features

Evaporation

Filaments

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i	Geopotential Height	Atmospheric Dynamics
	Geopotential Height	Ocean Dynamics
iI	Geothermal	Geodynamic Features
	Glaciers	Geography and Land Cover
	Glaciers	Hydrologic Parameters
	Glasses and Ceramics	Material Science
	Gravity Fields	Geodynamic Features
	Ground Water	Hydrologic Parameters
	Growth and Development	Physiological Parameters
	Heat Flux	Atmospheric Dynamics
1	Heat Flux	Earth Radiative Processes
	Heat Flux	Ocean Dynamics
_	Heavy Ions	Charged Particles
	Hematology	Physiological Parameters
}	Hemic and Immune Systems	Anatomical Parameters
	Homeostasis	Physiological Parameters
7	Humidity	Atmospheric Composition
_	Humidity	Atmospheric Dynamics
_]	lce.	Geography and Land Cover
	Igneous and Metamorphic Rocks	Geological Parameters
	Imagery	Astronomical Parameters
	Imagery	Solar Properties
	Immunologic	Diseases
_]	Infection	Diseases
	Infiltration	Hydrologic Parameters
_}	Infrared	Radiance and Imagery
	Injury	Diseases
_]	Institutional Care	Health Care
	Irradiance	Earth Radiative Processes
_i	Lakes	Geography and Land Cover
1		

Land Wildlife

Landforms

Light Transmission

Lithology

Magnetic Fields

Magnetic Fields

Magnetic Fields (DC)

Magnetic Wave Spectra (AC)

Magnitudes

Major Elements

Masses

Metals and Alloys

Methane

Microorganisms

Microwave

Mineralogy and Crystallography

a ologic at Parlameters

Minor Species

Minor Species

Models

Morbidity

Morphology

Mortality

Musculoskeletal

Musculoskeletal Physiology

Musculoskeletal System

Neonatal

Neoplasms

Nervous System

Nervous System

Neural Physiology

Biological Entities

Geography and Land Cover

Ocean Composition

Geological Parameters

Astronomical Parameters

Geodynamic Features

Magnetic and Electric Fields

Magnetic and Electric Fields

Astronomical Parameters

Ocean Composition

Astronomical Parameters

Material Science

Atmospheric Composition

Biological Entities

Radiance and Imagery

Geological Parameters

Biological Entities

Ocean Composition

Astronomical Parameters

Vital Statistics

Astronomical Parameters

Vital Statistics

Diseases

Physiological Parameters

Anatomical Parameters

Diseases

Diseases

Anatomical Parameters

Diseases

Physiological Parameters

	Nitrate	Ocean Composition
	Nitric Acid	Atmospheric Composition
_	Nitric Acid	Ocean Composition
	Nitrite	Ocean Composition
-	Nitrogen	Atmospheric Composition
	Nitrogen	Ocean Composition
<u></u>	Nitrogen Dioxide	Atmospheric Composition
	Nitrogen Dioxide	Ocean Composition
	Nutrients	Ocean Composition
	Nutrition	Public Health
r)	Nutritional and Metabolic	Diseases
	Object Counts	Astronomical Parameters
7	Occultations	Astronomical Parameters
_] .	Occupational	Diseases
7	Ocean Vegetation	Biological Entities
_}	Ocean Wildlife	Biological Entities
	Ocean Wildlife	Ocean Composition
	Ophthalmic	Diseases
7	Oral Physiology	Physiological Parameters
_)	Organic Matter	Ocean Composition
	Oscillations	Astronomical Parameters
_]	Oscillations	Solar Properties
7	Otorhinolaryngologic	Diseases
	Oxygen	Atmospheric Composition
	Oxygen	Ocean Composition
	Oxygen Demand	Hydrologic Parameters
	Ozone	Atmospheric Composition
۱	Paleoclimate Indices	Atmospheric Dynamics
	Paleontology	Geological Parameters
	Parallaxes	Astronomical Parameters

Parasitic Diseases **Geological Parameters** Petroleum Petrology Geological Parameters pΗ Ocean Composition **Phosphates** Ocean Composition Astronomical Parameters Photometry Phytoplankton Ocean Composition **Pigment Concentration** Ocean Composition Poisoning Diseases Polar Motion Geodynamic Features Astronomical Parameters Polarization Ocean Composition **Pollutants** Astronomical Parameters **Positions** Precipitation **Atmospheric Dynamics** Hydrologic Parameters Precipitation Diseases **Pregnancy Complications** Atmospheric Dynamics Pressure Ocean Dynamics Pressure ocean Dynamics Tankologi, Timo **Primary Production** ಗಳುಸಿಸುತ್ತವಾದಿ ಗಾತಿಯಿ Solar Properties TERESHOOD SITUATION Prominences Astronomical Parameters **Proper Motions Proteins** Biotechnology Proton Flux Charged Particles Radial Velocities Astronomical Parameters

Radiance Earth Radiative Processes
Radio Wave Radiance and Imagery
Reddening Astronomical Parameters
Redshifts Astronomical Parameters
Reproduction Physiology Physiological Parameters
Reproductive System Anatomical Parameters

	Respiratory	Diseases
	Respiratory Physiology	Physiological Parameters
	Respiratory System	Anatomical Parameters
	Rivers	Geography and Land Cover
	Rivers	Hydrologic Parameters
	Rotational Velocities	Astronomical Parameters
	Runoff	Hydrologic Parameters
	Salinity	Ocean Composition
m	Sea Ice	Ocean Composition
	Sea Ice	Ocean Dynamics
	Sea Level	Ocean Dynamics
	Sea Surface Height	Ocean Dynamics
\Box	Sedimentary Rocks	Geological Parameters
	Sedimentation	Hydrologic Parameters
	Sedimentation	Ocean Dynamics
	Sediments	Ocean Composition
	Seismic	Geodynamic Features
	Sense Organs	Anatomical Parameters
	Separations	Biotechnology
	Silicate	Ocean Composition
7	Skin	Diseases
_]	Skin Physiology	Physiological Parameters
	Snow	Geography and Land Cover
	Soils	Geography and Land Cover
_	Soils	Geological Parameters
_l	Solar Activity	Earth Radiative Processes
-7	Solar Radiation	Atmospheric Dynamics
_]	Solidification	Material Science
	Solids	Hydrologic Parameters
-1	Space Velocities	Astronomical Parameters

Spectra

Spectrophotometry

Speed

Speed

Stomatognathic System

Stomatognathic

Storms

Stratigraphy

Structures

Sunspots

Surface Vegetation

Surface Vegetation

Surface Water

Surface Water

Suspended Solids

Swell

Synoptic Maps

Tectonophysics

Temperature

Temperature

Temperature

Temperature

Temperature

Terrain Elevation

Thermal Inertia

Thermophysical Properties

Tides

Tissue Types

Topographic Data

Trace Elements

Astronomical Parameters

Astronomical Parameters

Charged Particles

Neutral Particles

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Diseases

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Charged Particles

Earth Radiative Processes

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Neutral Particles

Ocean Dynamics

Geodynamic Features

Earth Radiative Processes

Material Science

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Atmospheric Composition

Trace Eleme	nts	Ocean Composition
Trace Gases	3	Atmospheric Composition
Tracers		Atmospheric Composition
Turbidity		Hydrologic Parameters
Turbidity		Ocean Dynamics
Ultraviolet		Radiance and Imagery
Upwelling		Ocean Composition
Upwelling		Ocean Dynamics
Urogenital P	hysiology	Physiological Parameters
Urogenital S	ystem	Anatomical Parameters
Urologic		Diseases
Variability		Astronomical Parameters
Velocity Field	lds	Solar Properties
Virus		Diseases
Visibility		Atmospheric Dynamics
Visible		Radiance and Imagery
Volcanoes		Geodynamic Features
Water Vapo	r	Atmospheric Composition
Water Vapo	r	Hydrologic Parameters
Waves		Ocean Dynamics
Wetlands		Geography and Land Cover
Wetlands		Hydrologic Parameters
Winds		Atmospheric Dynamics
Winds		Ocean Dynamics
X-Ray		Radiance and Imagery
Zooplanktor	n	Ocean Composition

