Technical Memorandum ERL MESA-31

SURFACE DRIFTER MOVEMENTS OBSERVED IN PORT ANGELES HARBOR AND VICINITY, APRIL 1978

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Marine Ecosystems Analysis Program
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MESA
Puget Sound Project

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UNITED STATES DEPARTMENT OF COMMERCE
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Richard A. Frank, Administrator

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by

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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF PLATES

SURFACE DRIFTER MOVEMENTS OBSERVED IN PORT ANGELES HARBOR AND VICINITY, APRIL 1978

C.C. Ebbesmeyer, J.M. Cox, and J.M. Helseth

Described is a field experiment in which movements of surface drifters were observed nearshore within a fjord-like estuary, the Inner Strait of Juan de Fuca, Washington. The study area (~10 x 30 km) straddles a major sill (Green Point to Victoria) terminating between two prominant spits (Ediz Hook and Dungeness Spit). Reported herein for 23-30 April 1978 are positions and trajectories for three types of drifting objects released primarily in the vicinity of Port Angeles Harbor (behind Ediz Hook): 1) 123 drift sheets (~1.3 x 1.3 x 0.0032 m flexible plastic sheets) - 10 to 15 each positioned several times per hour during daylight using a small aircraft; 2) 700 drift cards (~ 0.087 x 0.065 x 0.0024 m rigid plastic cards) - 240 shore recoveries tabulated; and 3) 46 drogues (~2.4 x 24 x 1.1 m near surface biplane drogues) - 4 to 5 each positioned several times per hour during daylight using a small craft. Preliminary analysis indicates complex patterns of tidal eddies and a tendency for westerly winds to drive floatable materials onshore.

1. INTRODUCTION

An oceanographic experiment was conducted in Port Angeles Harbor and vicinity within the Inner Strait of Juan de Fuca during 23-30 April 1978 (Figure 1). The experiment's purpose was to observe movements of surface drifters which approximate movements of potential oil slicks in Port Angeles Harbor and vicinity. A similar experiment was conducted previously in the Outer Strait of Juan de Fuca (see Ebbesmeyer et al., 1977).

The experiment is necessarily of an exploratory nature because: 1) a surface drifter which simulates oil slick movement cannot, at present be designed with certainty because dependencies of movement on currents, winds, and waves are poorly understood (see Stolzenbach, et al., 1977); 2) the present observations span brief temporal and spatial intervals which are too few to be considered as representative samples. We use the word experiment as one in the process of trying or testing.

The present report is intended primarily as a summary of observations with some discussion based on preliminary analysis. Synthesis of these data with results of other investigations will be the subject of another report.

2. EXPERIMENT DESCRIPTION

Three types of drifting objects were used in the experiment: 1) flexible plastic sheets; 2) rigid plastic cards; and 3) near surface drogues. In the experiment primary emphasis was given to the drift sheets as most closely fulfilling the experiment's purpose.

2.1 Drift Sheets

The drift sheets are flexible polyethylene foam measuring approximately 1.3 x 1.3 x 0.0032 m, reinforced and weighted on bottom with venetian slats and lead weights; and painted on top with a black alphameric code superimposed on a fluorescent red background (see Figure 2a and Table 1). The present design is quite similar to that previously used by Ebbesmeyer et al. (1977) but more weight was added on the peripher to counteract overturning by winds.

When observed from a small boat a drift sheet is seen to follow close ly the shape of the wavy sea surface. There is a tendency a few minutes after release for a film of water to form on the sheet's topside, and also for the sheet to become waterlogged, both tendencies acting to further the sheet's capacity to conform to the sea surface. However even with added weight there is still a critical wind speed above which the sheets overtur

A total of 123 drift sheets were deployed during 23-29 April (Table 2 Positions of each drifter were periodically recorded using a Mini-Ranger III System (abbreviated MRS) manufactured by Motorola Inc. The MRS operat on the principle of pulse radar and uses a mobile transmitter to interrogate two transponders within line-of-sight located onshore at known positions. The transmitter's position is displayed as ranges to the transponders. As used in this experiment, within the MRS' 37 km maximum range, the probable accuracy of the range measurement is three meters (Motorola Inc., 1974)

For this experiment the MRS transmitter was connected through an inspector plate on the belly of a Cessna 172 aircraft; wired to the MRS display console; and the ranges read manually with the aircraft. Transponders were positioned as shown in Figure 1c. With the aircraft suitably oriented above a drift sheet it was determined that reasonably accurate positions could be obtained from 100-200 m altitude at speeds of 30-40 m/s Positions were determined geometrically from the two ranges and the aircraft's altitude. Eighty test runs over fixed objects gave a standard deviation in position of approximately 23 meters.

In the morning and afternoon drift sheets were deployed in varied patterns within the study area (Figure 3a). Initially the positions of each drifter were obtained at 10-15 minute intervals when patterns were regular. As the patterns dispersed, the frequency decreased. Moreover during some afternoons winds exceeded roughly 25 knots overturning many drift sheets.

2.2 Drift Cards

The drift cards deployed in this experiment were provided by NOAA. They were constructed of rigid plastic colored fluorescent red, and measured approximately 0.087 x 0.065 x 0.0024m (Figure 2b). Seven groups of 100 were released on selected days in Port Angeles Harbor and vicinity (Figure 3b; and Table 2b).

2.3 Drogues

The drogues were of biplane configuration measuring approximately 2.4 x 2.4 x 1.1 m (Figure 2c). They were suspended within two meters of surface by a small float, and subsequently tracked using sextants from a small craft. Auxiliary positions were obtained from the aircraft using the MRS system (see section 2.1).

Groups of three to five drogues were deployed one to three times per day mostly within Port Angeles Harbor. Subsequently positions were obtained several times per hour.

3. DATA REDUCTION AND PRESENTATION

The observations for drift sheets and drogues were digitized and the following computations performed (Plates 5 and 6): 1) latitude and longitude (degrees and minutes); 2) speed and direction; and 3) speed components in a coordinate system reckoned positive toward true north and east. With a standard deviation in position of 23 meters and 20 minutes between positions, the estimated error of drift sheet speed is close to 2 cm/sec.

From these tabulations were obtained trajectories of each drift sheet and drogue (Plates 1 and 2), and spatial vector diagrams at hour intervals (Plate 3). Recoveries of drift sheets onshore were tabulated (Table 3) and shown in Figure 5a. Recoveries of drift cards onshore were tabulated (Table 2b) and shown in Figure 5b.

Winds recorded at selected shore stations (Figure 1c) have been tabulated in Plate 4 and displayed in Figure 4 together with tidal currents predicted 1.2 miles north of Ediz Hook.

4. DISCUSSION

While it is beyond the scope of this report to give detailed interpretations, some preliminary analyses illustrate the tendency for shoreward dispersion of floatable materials. This tendency occurs in association with complex patterns of tidal currents (see Crean, 1978) and westerly winds. The latter prevailed during most of the experiment, and tend to drive floatable materials eastward and southward toward shore.

4.1 Shore Recoveries of Drift Sheets

Of 123 deployments of drift sheets, 34% (42) were sighted or recover ashore within the study area (Table 2a; Figures 4, 5a, 6a). The locatio of shore recovery depends critically on phasing of deployment time with respect to tidal currents and strength of westerly wind.

4.2 Shore Recoveries of Drift Cards

As of mid June 1978, 34% of 700 drift cards released in Port Angeles Harbor and vicinity were recovered ashore (Table 2b; Figures 3b, 5b, 6b) Of those recovered 97% were found landward and 3% seaward of release; .65 ashore in the study area; 23% on Whidbey Island; 6% in or landward of Deception Pass; and a few in the San Juan Islands, Strait of Georgia, an coasts of the Pacific Ocean. These percentages may be compared with thos of Pashinski and Charnell (1978) based on several thousand releases in various seasons in the Strait of Juan de Fuca. They reported 69% ashore in the vicinity of release; 7% landward of release; and 24% seaward of release.

5. ACKNOWLEDGEMENTS

This work was performed under contract No. 03-78-B01-49 from NOAA, EP MESA Puget Sound Project Office, located at 7600 Sand Point Way NE, Seattl Washington, 98115. The following participated in the field work reported herein.

U.S. Army Corps of Engineers, Seattle District, Planning Branch perso nel and equipment: Aboard the Motor Vessel Davies, William H. Lucas and Harold L. Maresh assisted with launching of the drift sheets and tracking of the drogues.

MESA Puget Sound Project Office personnel: Ronald Kopenski released the drift cards. Pacific Marine Environmental Laboratory personnel tabulated recoveries of the drift cards.

Evans-Hamilton, Inc. personnel and equipment: The drift sheets and drogues were constructed by Linda D. Helseth and Beth Chiodo, respectively The drift sheets were observed with the assistance of Eric Lindstrom from a Cessna 172 aircraft which was supplied by Richard N. Harvey of Snohomish Flying Service, Inc. and piloted by David L. Bell, Jonathan T. Salisbury, and Phillip L. Taylor. We are particularly grateful to the pilots for flying long hours of tight patterns at low altitudes. Aboard the Motor Vessel Davies David W. Thomson and Lynette W. Warren launched drogues and sheets and tracked drogues. Donald R. Doyle, Linda D. Helseth, Laurence A. Hinchey, and David W. Thomson prepared the figures and plates.

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Table 1. Material list for drift sheet.

Item description	Amount used per drift sheet	Mass/drift sheet (kg)	Dimensions	Remarks
Polyethylene foam	1.61 m^2	~ 0.18	1.27 x 1.27 x 0.0032 m	Packaging material known as Ethafoam.
Fluorescent paint	0.114 l			Rocket Red Dayglo Catalogue No.26-67-013-4.
Weights	0.68 - 1.19 kg	0.68[a] - 1.19[a]	I.D. = .022 m O.D. = .057 m Thickness = .003 m	Galvanized Washers.
Underside Reinforcement	11.2 m	0.40	1.2 x 0.05 x 0.0048 m	Aluminum venetian blind slats.
Tape	9.1 m	0.03		Nashua brand filament tape.
Total		1.29 - 1.80		

[a]

Date	Mass (kg)/drift sheet
23-25 April	0.68
26-27 April	0.91
28-29 April	1.19

Table 2a. Summary of drift sheet deployments.

Date	Number of Drift Sheet Deployments	(1) Time (PST) First Position Obtained	(2) Time (PST) Last Position Obtained	(2) -(1) (hours)	Number and % of Onshore Recoveries
23 April	10	1646	1943	3.0	1 (2.4%)
24 April	24	0647	1912	12.4	10 (23.8%)
25 April	25	0628	1822	11.9	3 (7.1%)
26 April	17	0607	1441	8.6	7 (16.7%)
27 April	13	0636	1856	12.3	5 (11.9%)
28 April	16	0708	1903	11.9	10 (23.8%)
29 April	18	0634	1928	12.9	2 (4.8%)
Total	123			73.0	38 (90.5%)
Unidentified recoveries onshore					4 (9.5%)
Total recovered onshore					42 (100%)

Table 2b. Summary of drift card recoveries.

1) Number of Recoveries

Date/time (PST) of Release	No. Released	Number of Recoveries by Area* a	b	c	d	e	f	g	h	i	T
24/1431	100	6	3	1	1	2	7	8	3	1	
25/1219	100	0	3	1	0	8	3	5	1	0	
26/0726	100	0	3	3	4	13	3	1	4	0	
27/1441	100	2	68	1	0	0	0	0	0	0	
30/1015	300	2	71	4	0	0	0	0	3	5	
Total	700	10	148	10	5	23	13	14	11	6	

2) Percentage of Recoveries

Date/time (PST) of Release	% of Total Releases	Percent of Total (240) Recoveries by Area* a	b	c	d	e	f	g	h	i	T
24/1431	14.3	2.5	1.3	0.4	0.4	0.8	2.9	3.3	1.3	0.4	
25/1219	14.3	0	1.3	0.4	0	3.3	1.3	2.1	0.4	0	
26/0726	14.3	0	1.3	1.3	1.7	5.4	1.3	0.4	1.7	0	
27/1441	14.3	0.8	28.3	0.4	0	0	0	0	0	0	
30/1015	42.9	0.8	29.6	1.7	0	0	0	0	1.3	2.1	
Total	100.	4.2	61.7	4.2	2.1	9.6	5.4	5.8	4.6	2.5	

*Area Code (see Figure 5b).

a. Ediz Hook (northern shore only).
b. Bight between Ediz Hook and Dungeness Spit (northern shore only).
c. Dungeness Spit (southern shore) to Admiralty Inlet.
d. Whidbey Island bordering on Admiralty Inlet.
e. Whidbey Island, southern portion bordering on the Inner Strait of Juan de Fuca.
f. Whidbey Island, northern portion bordering on the Inner Strait of Juan de Fuca.
g. Deception Pass and northern part of Whidbey Basin.
h. Approaches to Strait of Georgia.
i. Westward of release sites.

Table 2c. Summary of drogue deployments.

Date	Number of Drogue Deployments	(1) Time (PST) First Position Obtained	(2) Time (PST) Last Position Obtained	(2) -(1) (hours)
23 April	5	0932	1712	7.7
24 April	4	0913	1140	2.5
25 April	8	0849	1610	7.2
26 April	7	0753	1634	8.7
27 April	4	0613	1559	9.8
28 April	11	0619	1751	11.5
29 April	7	0705	1906	12.0
Total	46			59.4

Table 3 . Recoveries of drift sheets onshore during 23-29 April 19

	Drift Sheet No.	Approximate Recovery Date/Time (PST*)	Approximate Recovery Position Latitude	Longitude	Remarks
1.	A3	27/1645	48° 8.6'	123° 11.5'	
2.	A4	27/1700	9.1	10.9	
3.	A5	27/1600	7.7	13.0	
4.	A6	29/1630	7.0	14.2	
5.	A7	27/1600	7.6	13.2	
6.	A9	26/?	7.1	21.1	
7.	AE	26/1600	7.3	13.6	
8.	CO	27/1630	8.3	11.9	
9.	E3	28/1200	7.8	12.9	
10.	E3	29/1645	6.90	23.20	
11.	E5	28/1150	6.90	23.20	Two releases of
12.	E7	28/1500	8.52	24.69	
13.	E8	28/1500	8.52	24.74	
14.	E9	28/1500	8.52	24.54	
15.	HO	24/1624	8.52	27.58	
16.	H3	24/0756	8.47	24.08	
17.	H4	24/1627	8.21	27.51	
18.	H5	24/1631	8.18	27.58	
19.	H6	25/1053	8.48	26.30	
20.	H7	24/1625	8.25	27.53	
21.	H9	24/1628	7.75	27.40	
22.	KO	28/1500	8.52	24.87	
23.	K1	28/1500	8.52	24.60	
24.	K5	31/?	8.2	12.1	
25.	KC	24/1910	8.48	25.77	
26.	NO	29/1650	8.1	12.2	
27.	N2	29/1655	9.3	10.6	
28.	N3	28/1230	7.0	21.3	
29.	N5	28/1215	6.9	21.9	
30.	N8	29/1705	9.8	10.0	
31.	N9	28/1145	6.90	23.83	
32.	T2	29/1653	8.4	11.8	
33.	T7	29/1730	10.6	8.4	
34.	TY	26/0757	8.48	26.64	
35.	V8	25/1643	6.93	23.94	
36.	X1	24/1818	7.9	29.8	
37.	X9	24/1859	10.4	9.2	
38.	Y4	26/1700	8.0	12.5	

*PST = Pacific Standard Time

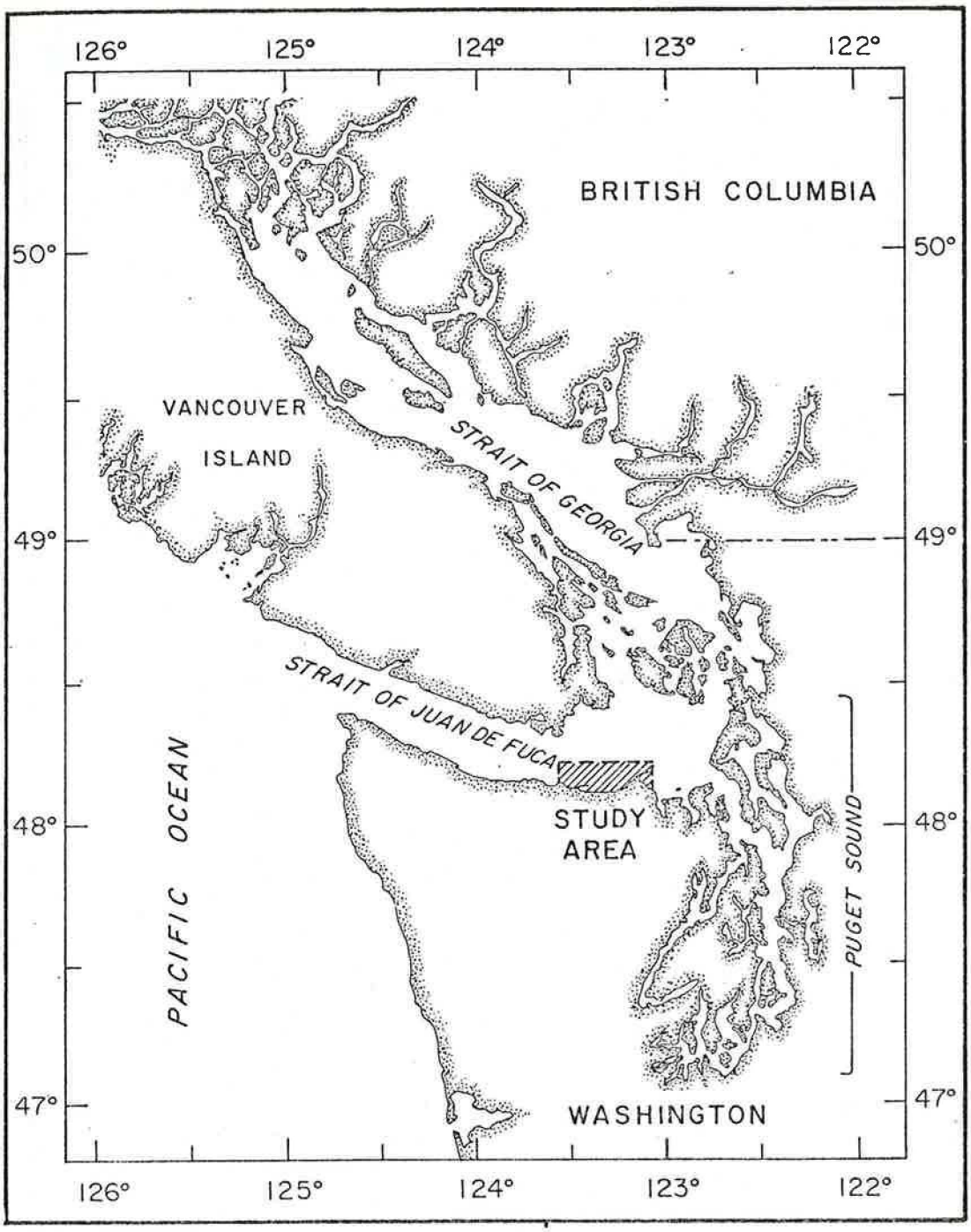


Figure 1a. Study area (hatched) and approaches.

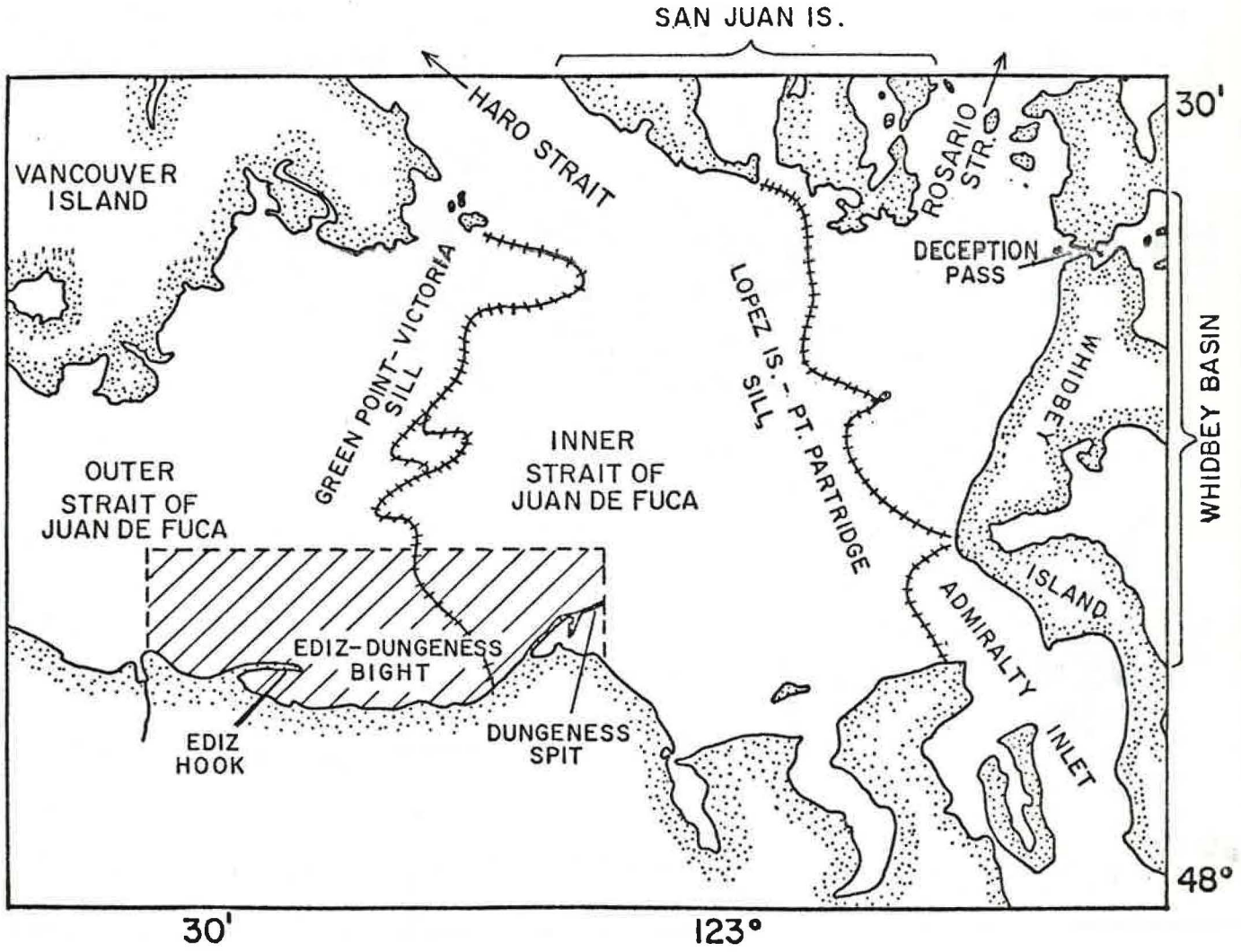


Figure 1b. Study area (hatched), sills (ticks), and constrictions leading to Strait of Georgia, Puget Sound, and Outer Strait of Juan de Fuca.

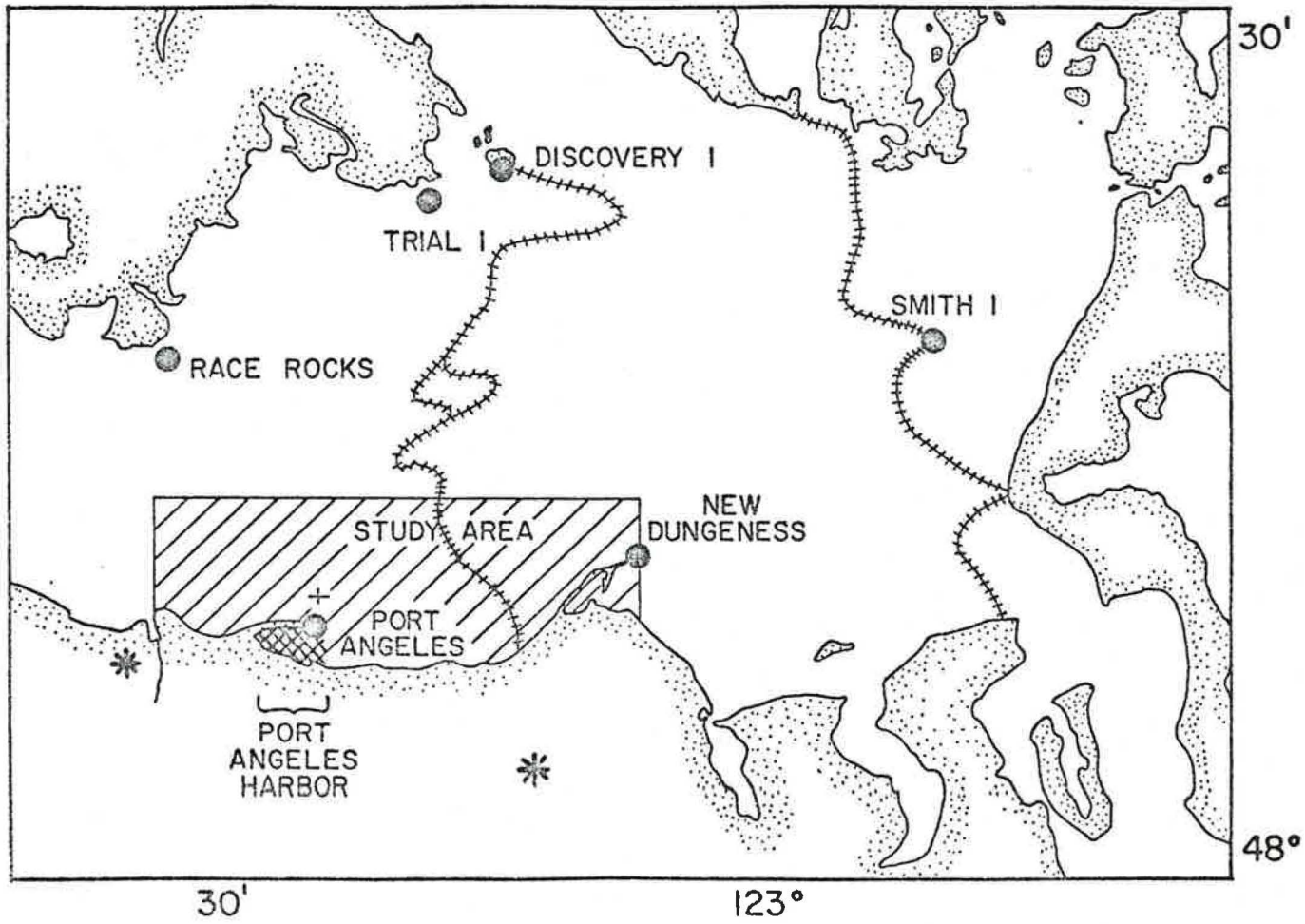


Figure 1c. Study area (hatched); Port Angeles Harbor (cross-hatched); locations of wind recordings (dots); locations of Mini-Ranger System transponders (asterisks); and location of predicted currents (cross).

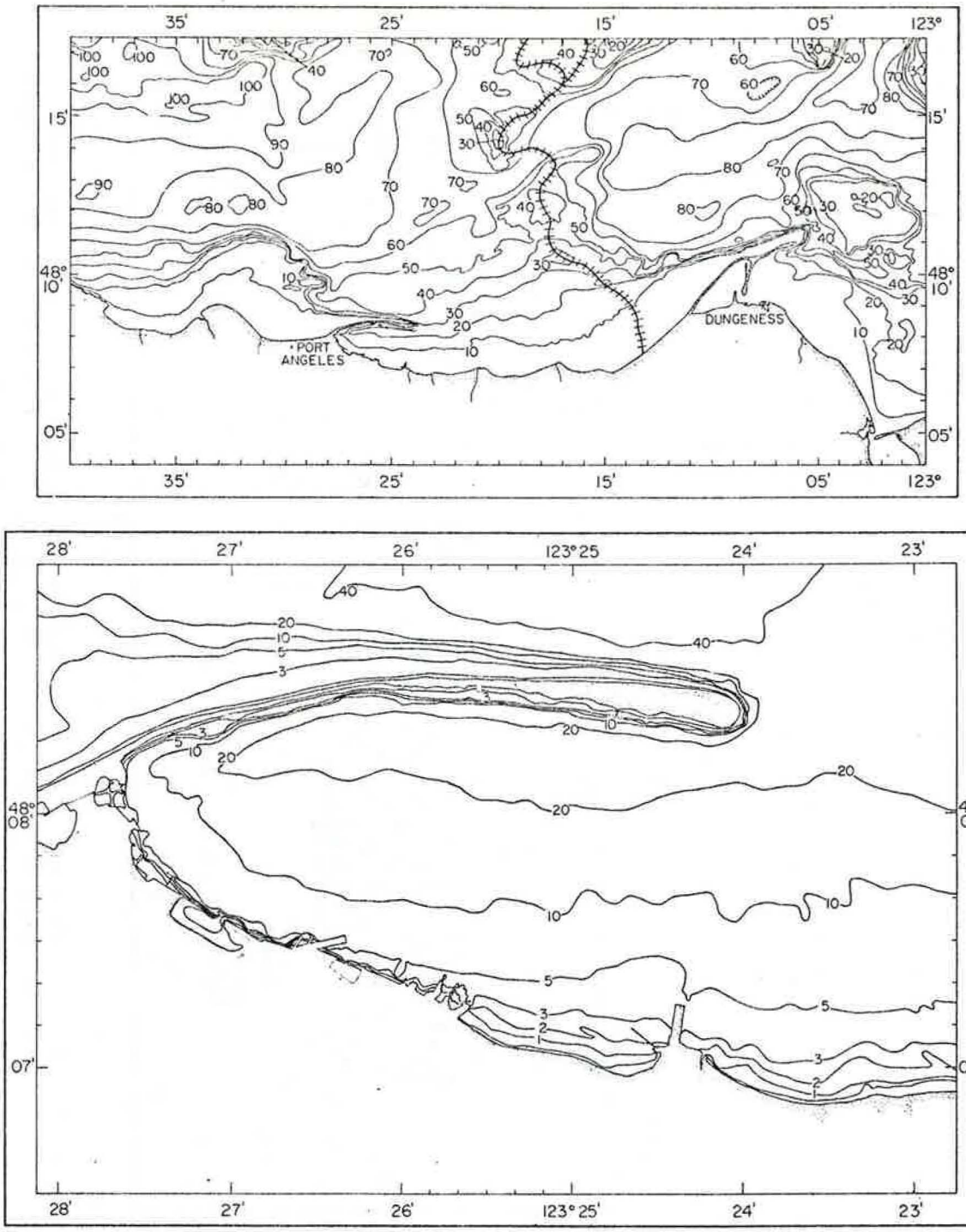


Figure 1d. Bathymetry (contours in fathoms: 1 fathom = 1.83 m) for study area (top) and Port Angeles Harbor (bottom).

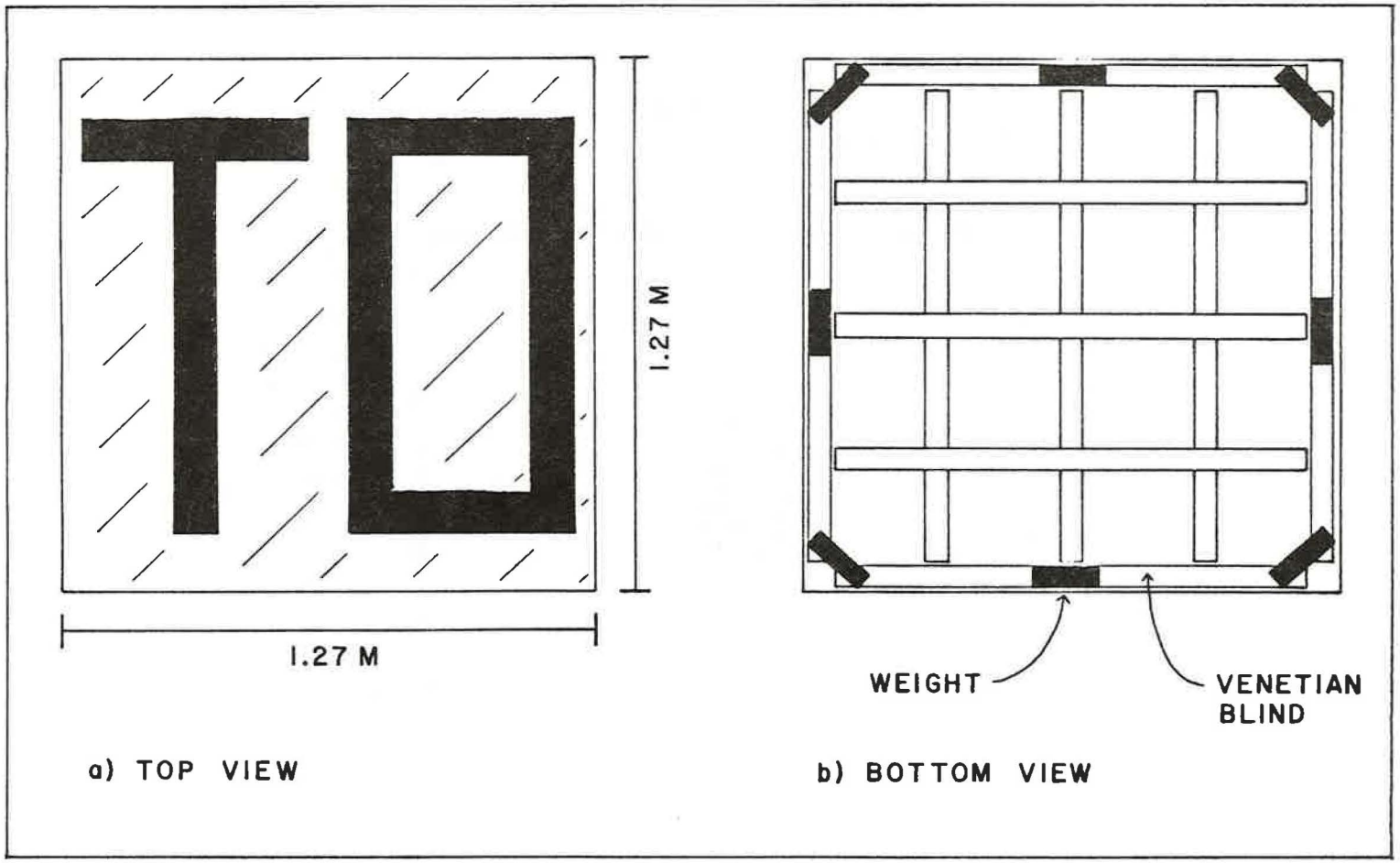


Figure 2a. Schematic of drift sheet, top (a) and bottom (b) views.

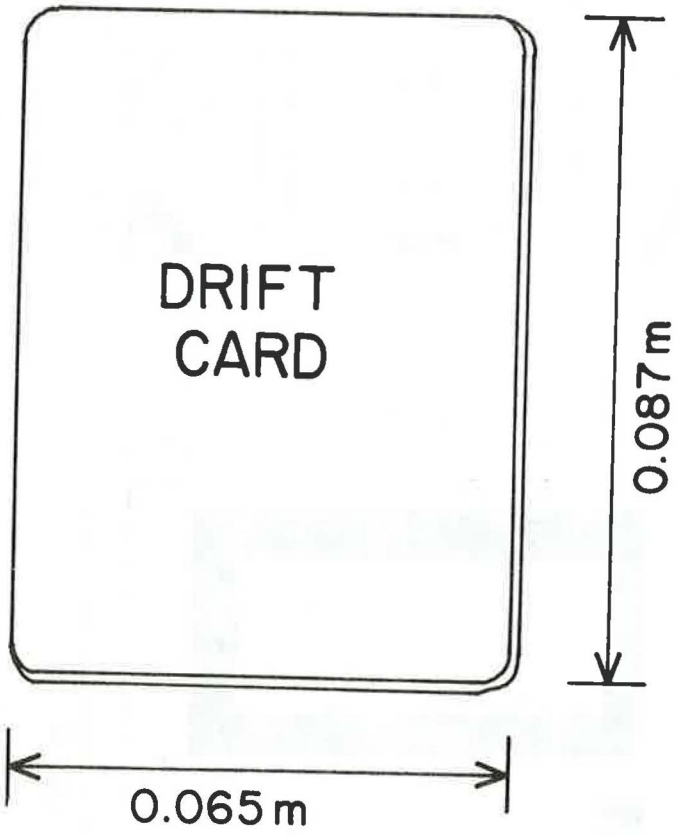


Figure 2b. Schematic of NOAA's drift card. Thickness is approximately 0 0024 m.

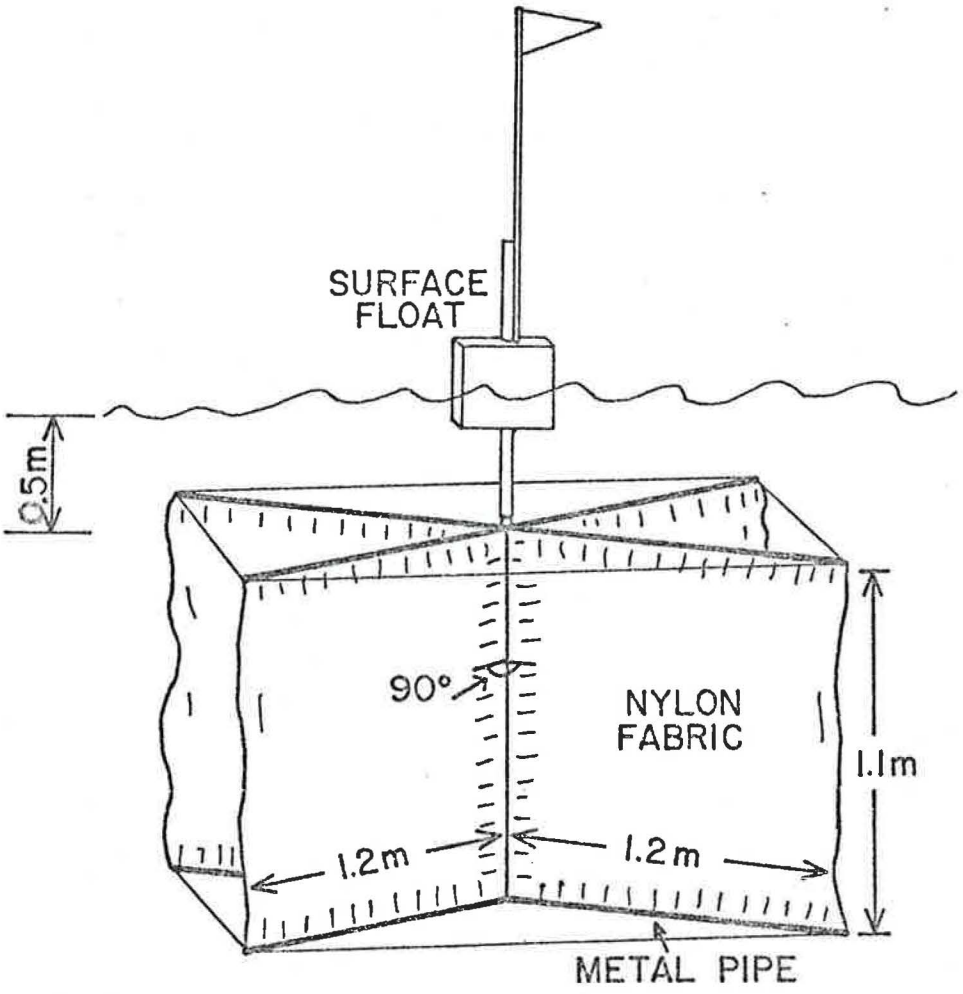


Figure 2c. Schematic of drogue.

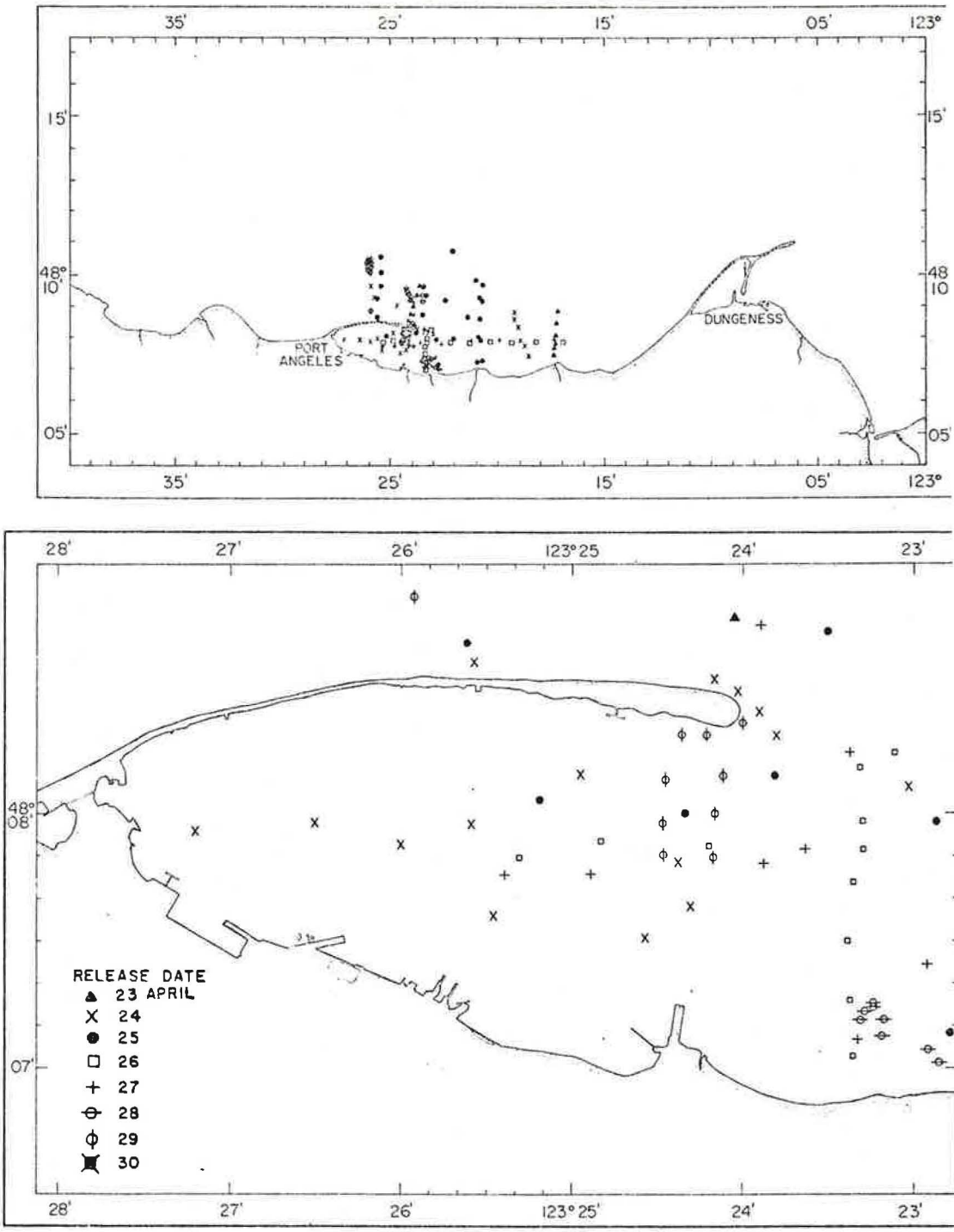


Figure 3a. Release positions of drift sheets for study area (top) and Port Angeles Harbor (bottom).

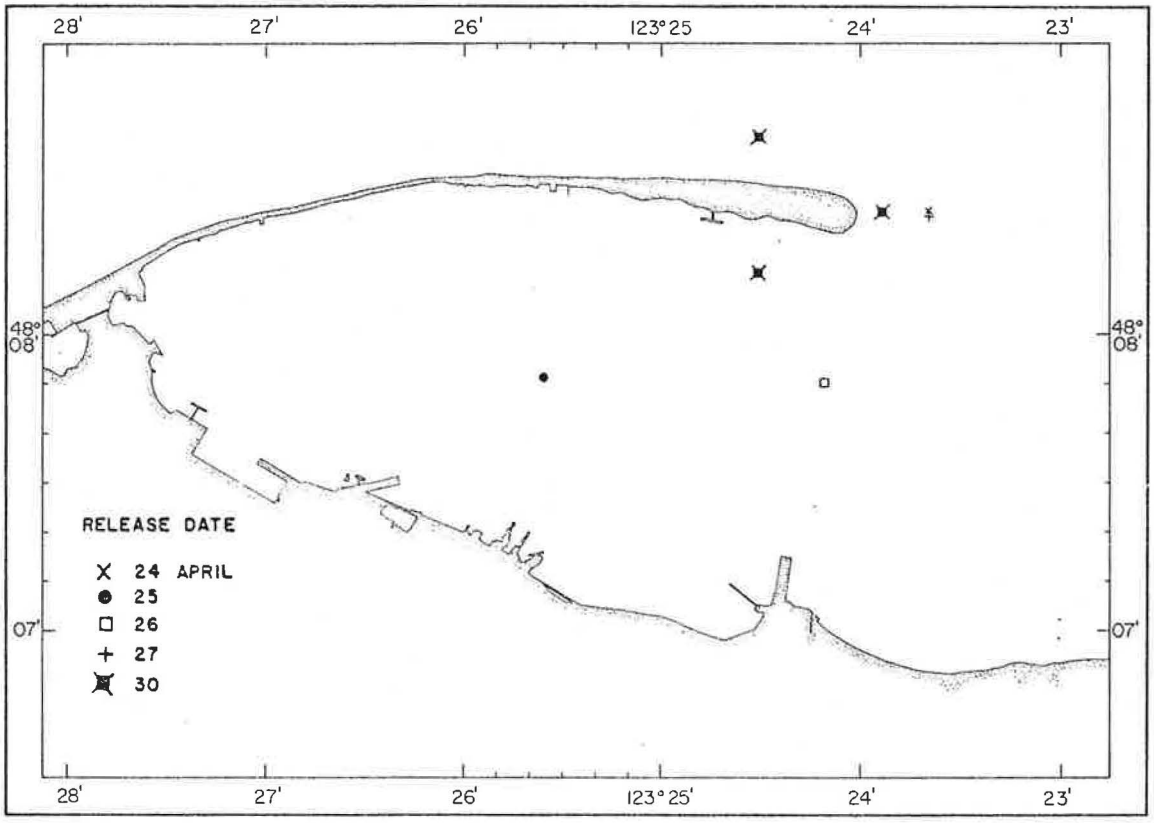


Figure 3b. Release positions of drift cards.

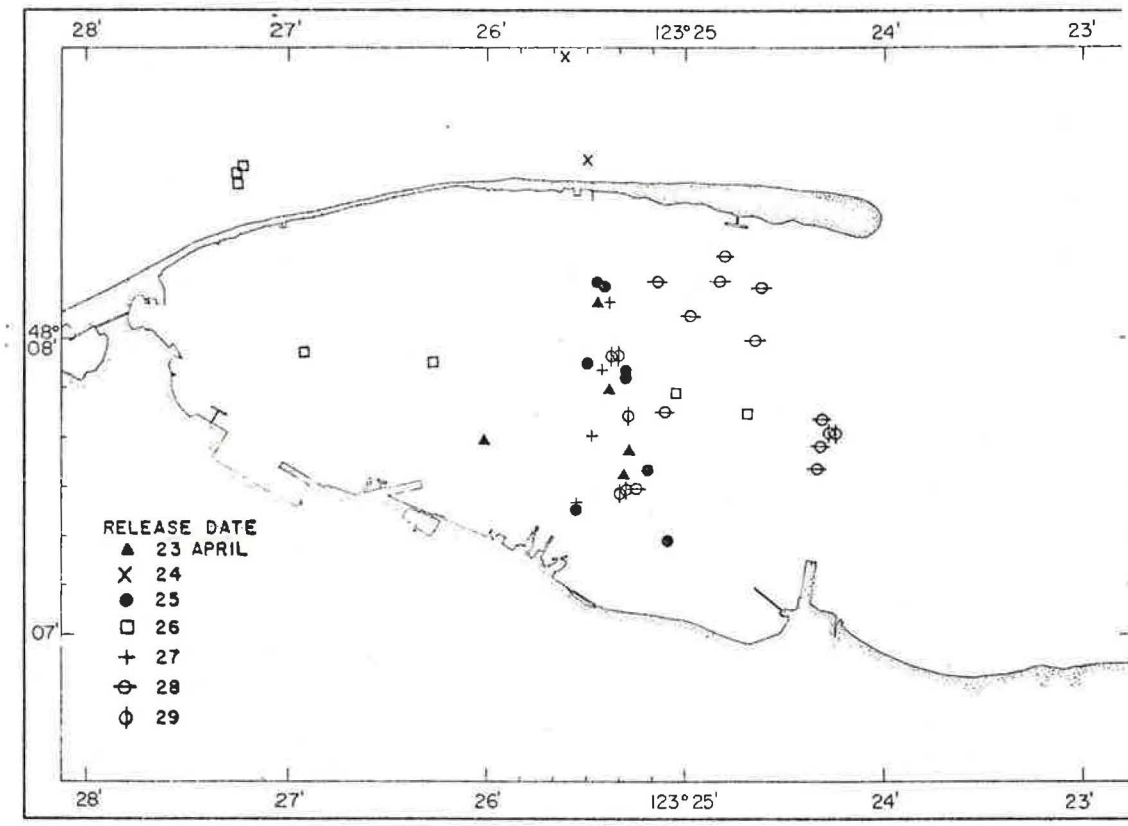


Figure 3c. Release positions of drogues.

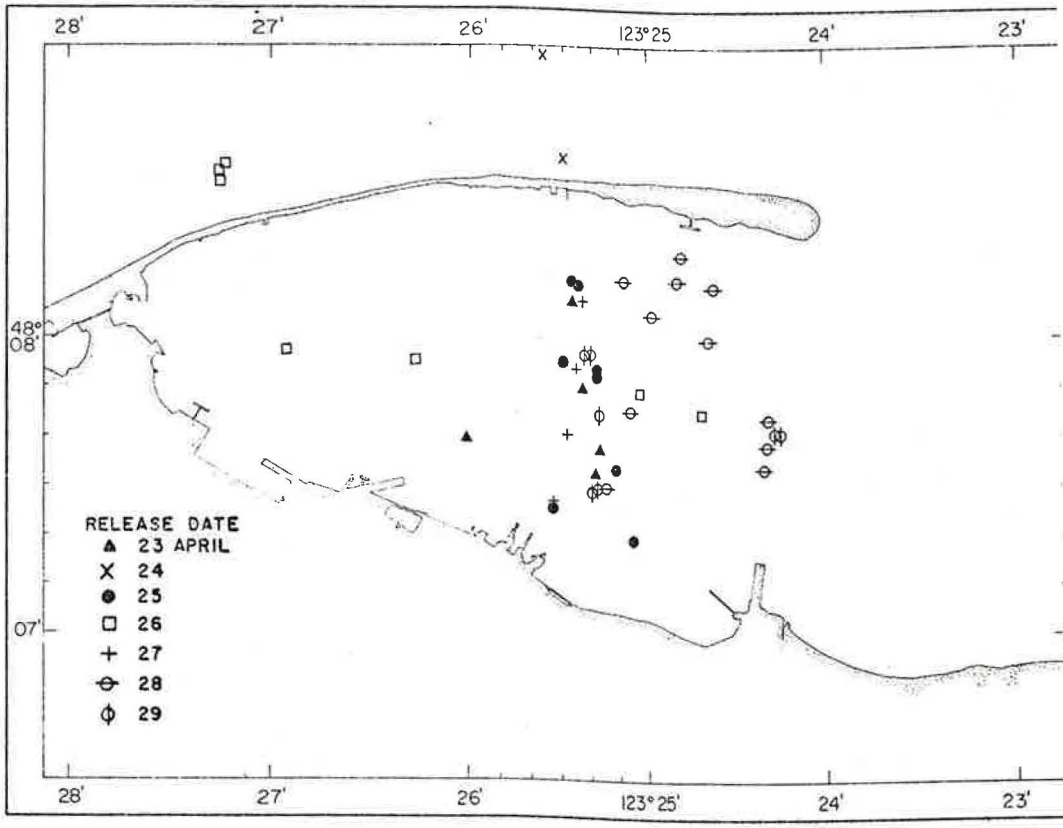


Figure 3c. Release positions of drogues.

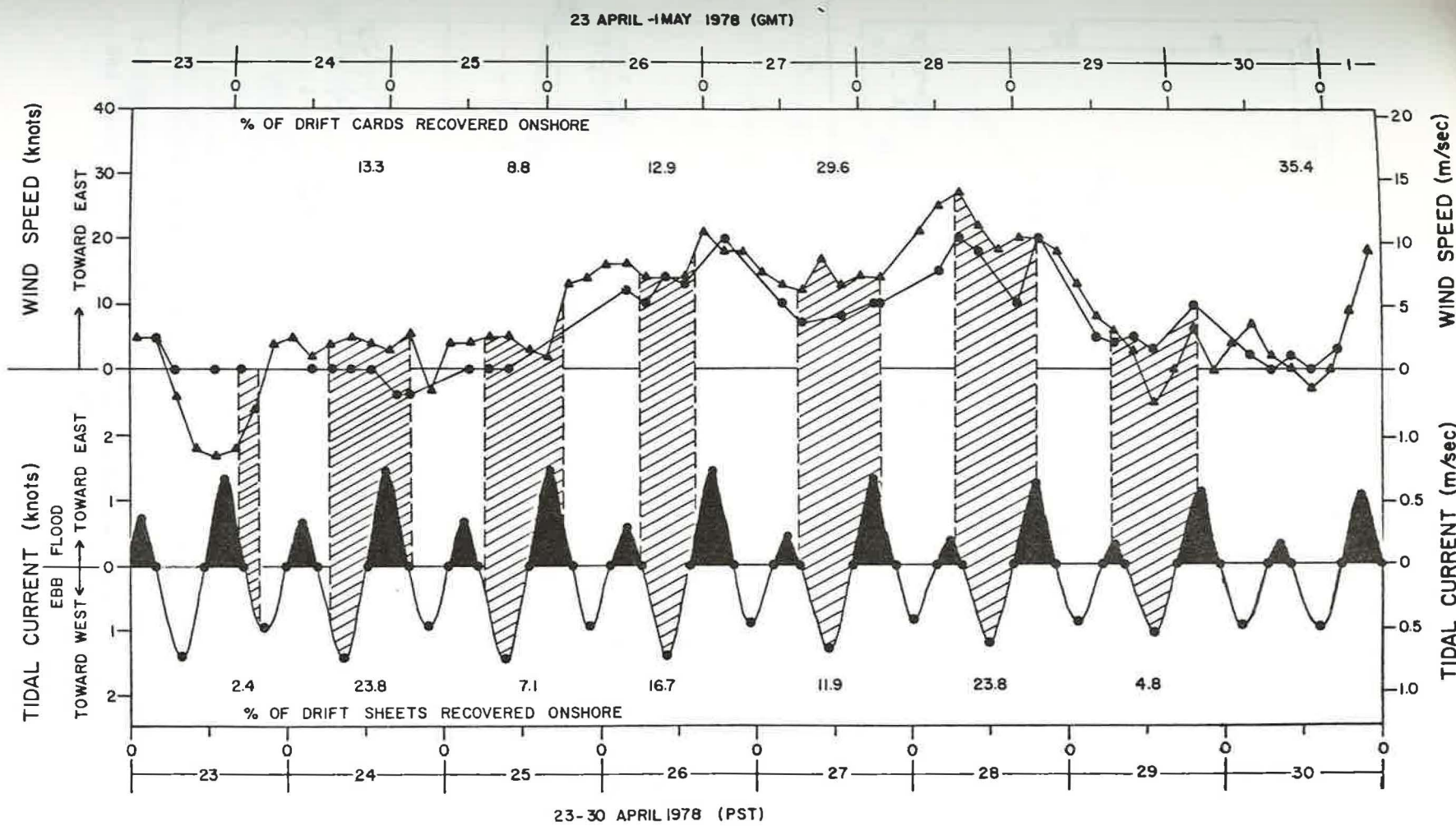


Figure 4. Top: east-west components of wind observed at Port Angeles (●) and New Dungeness (▲). Bottom: tidal current predictions (●) 1.2 nm due north of Ediz Hook Light (Figure 1c) from National Oceanic and Atmospheric Administration (1978). Hatching denotes intervals of drift sheet and drogue observations. Percentage of total recoveries onshore of drift sheets and cards are shown at bottom and top, respectively. For example, 16.7% of all (42) drift sheet recoveries were released on 26 April (4 drift sheet recoveries, i.e., 9.5% were unidentifiable). Similarly for drift cards 12.9% of all (240) drift card recoveries were released on 26 April.

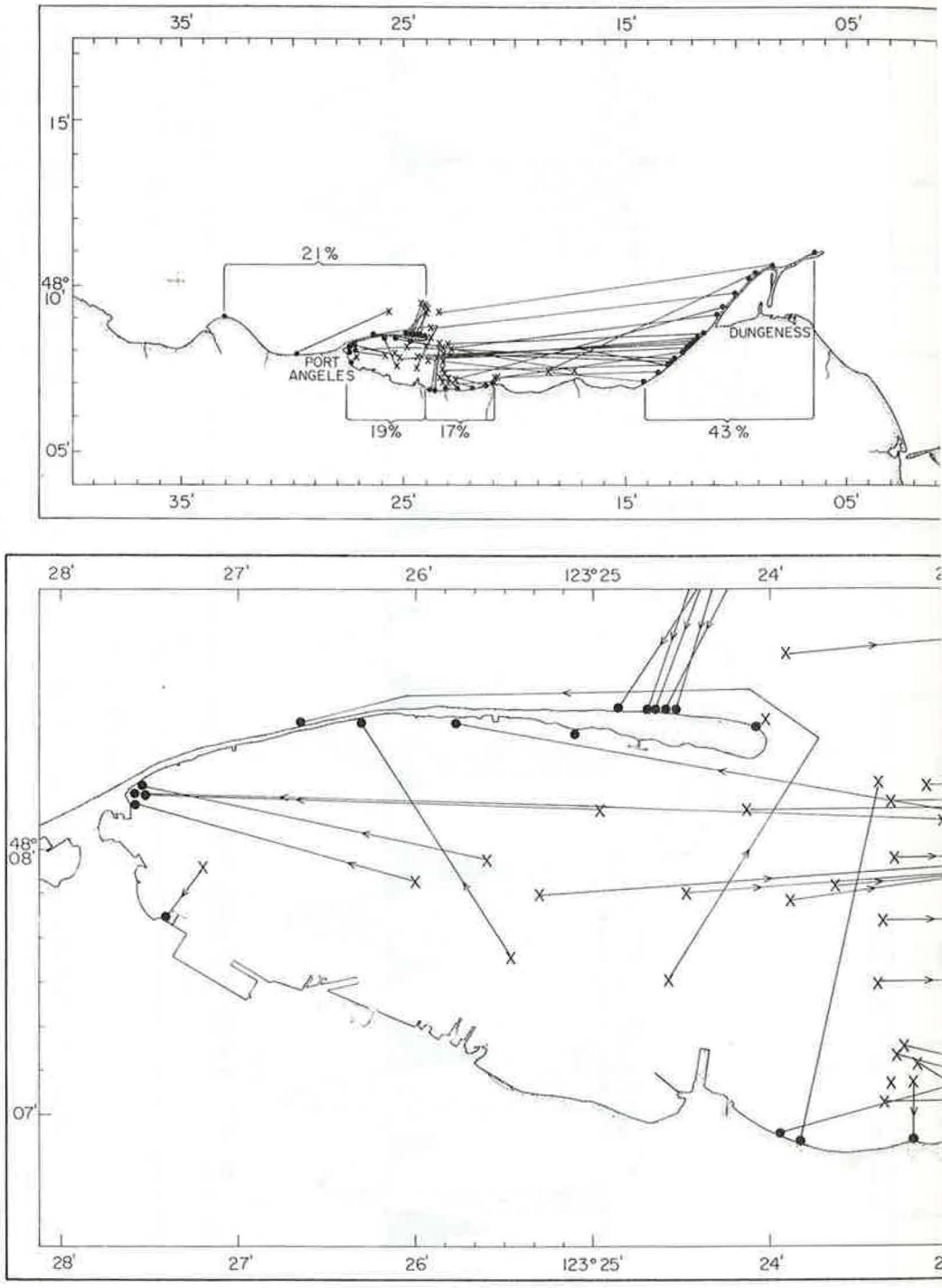


Figure 5a. Recoveries of drift sheets onshore (dots) relat
to release positions (x) for study area (top) a
Port Angeles Harbor (bottom).

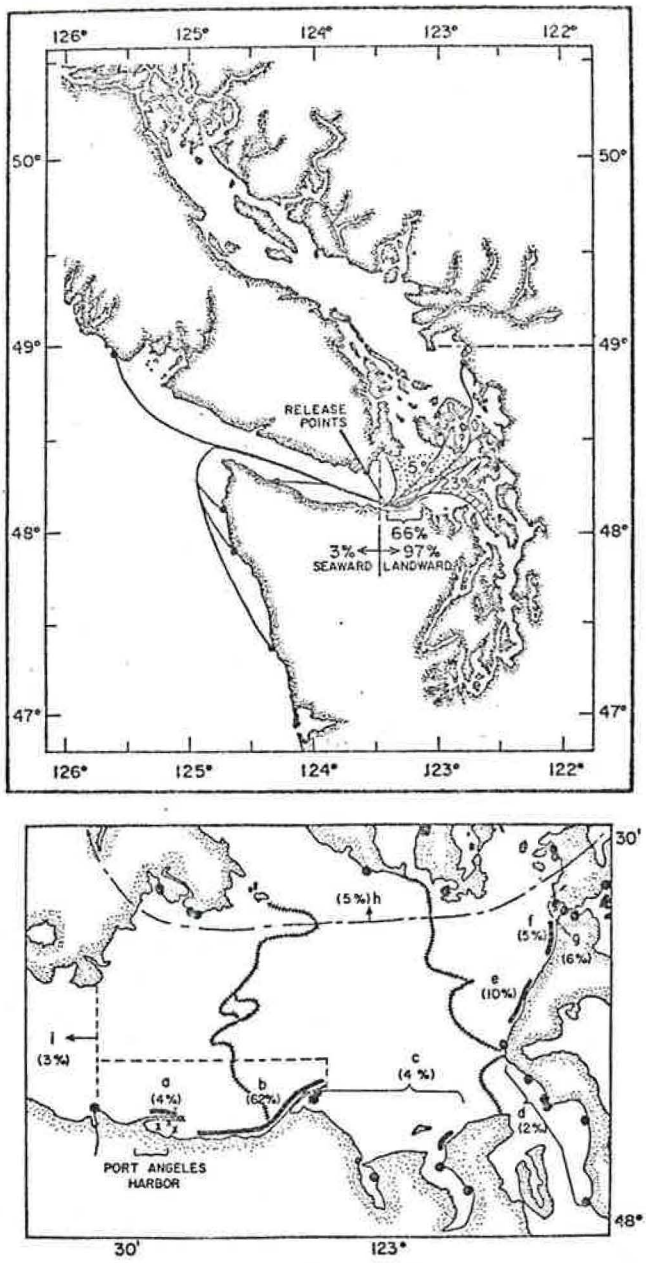


Figure 5b. Drift cards recovered onshore as of mid-June 1978 expressed as percentage of total recoveries (i.e., percentage of 240). Top: schematic of drift card dispersion where 66% were found within the study area (darkened); 23% on Whidbey Island (hatched); 5% in San Juan Islands, Strait of Georgia, Deception Pass, and Whidbey Basin; 3% seaward. Bottom: dispersion in the Inner Strait of Juan de Fuca where letters and percentage correspond to Table 2b; dots denote single recoveries; heavy lines denote multiple recoveries; and x denotes a release site (see Figure 3b).

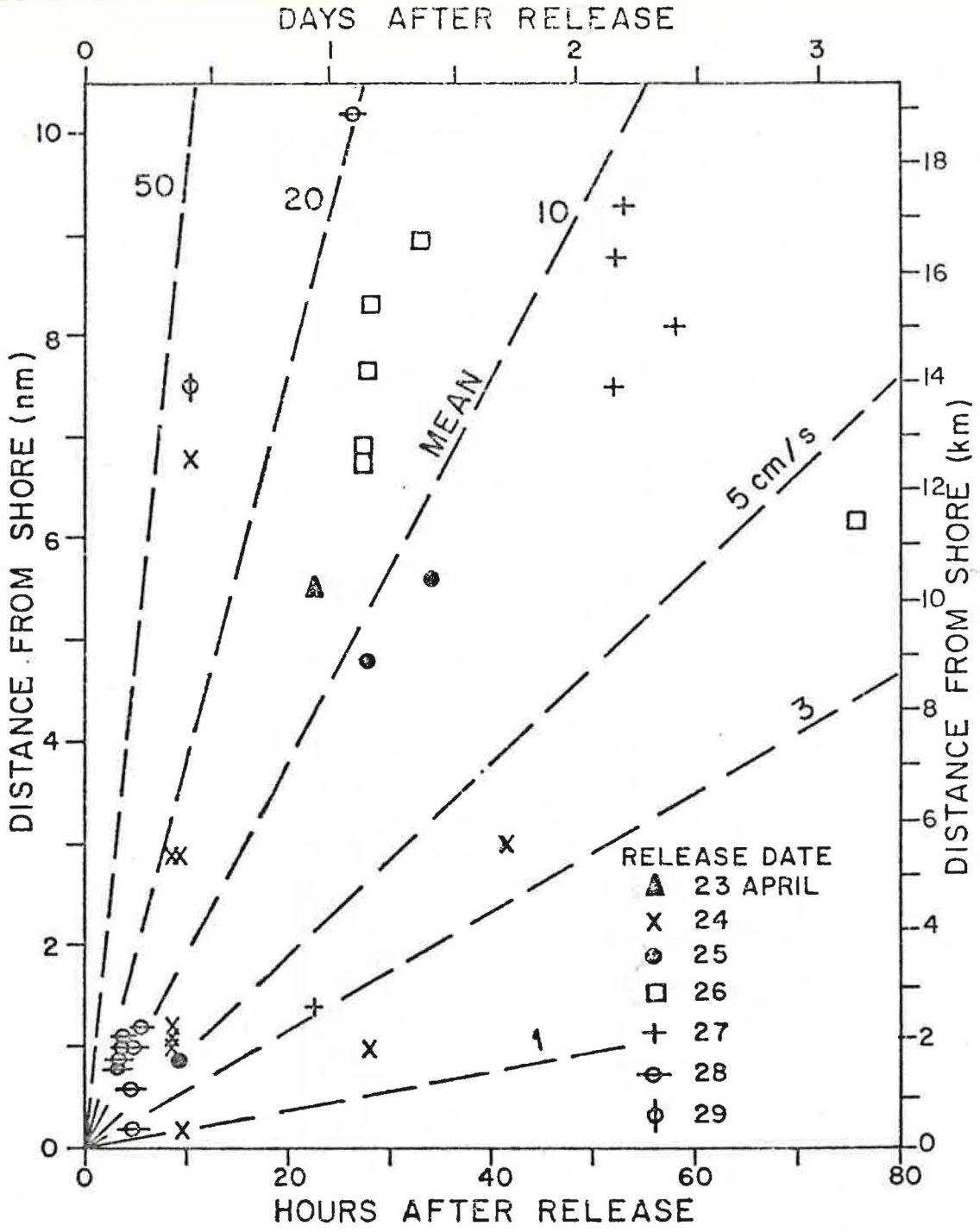


Figure 6a. For drift sheets: estimated time versus distance between release and recovery onshore.

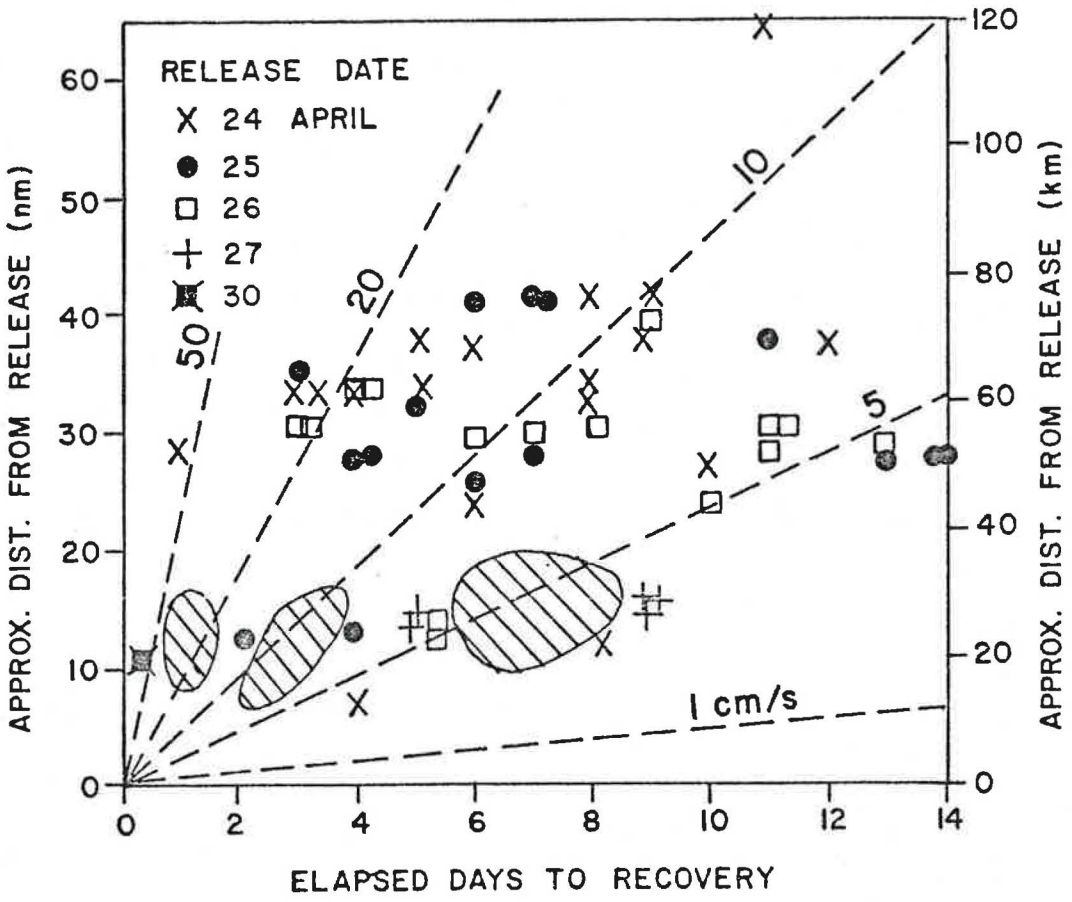
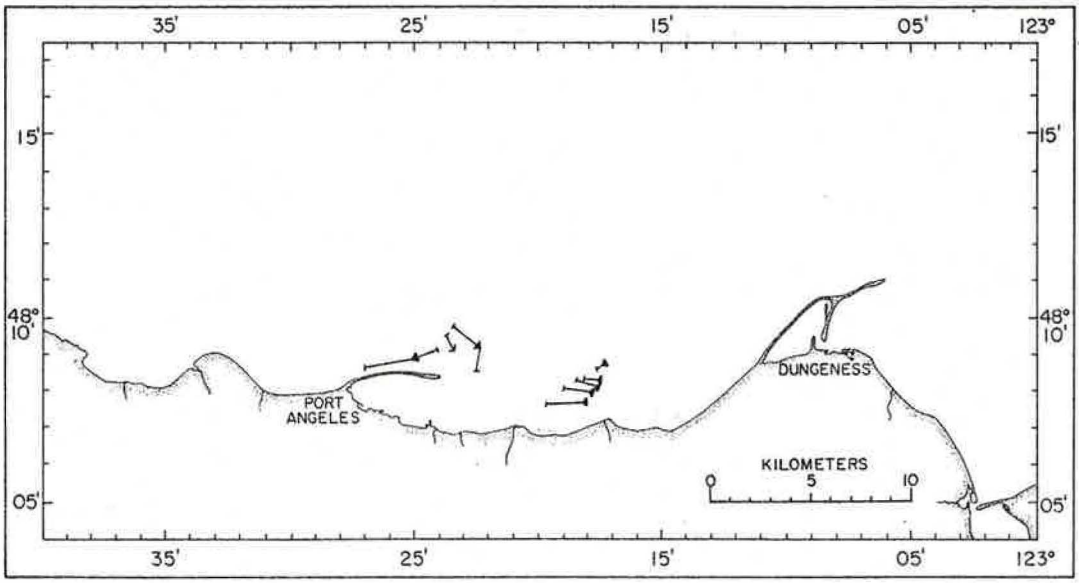


Figure 6b. For drift cards: estimated time versus distance between release and recovery onshore. Hatched areas denote many recoveries onshore in study from releases on 27 and 30 April 1978.

Plates 1a - 1g. Drift sheet and drogue trajectories. Each plate consists of an upper frame of the study area and a lower frame of Port Angeles Harbor. Object positions are denoted every hour on trajectories by ticks for drift sheets, and by dots at 1 m and 'x' at 9 m depths for drogues. Arrows show direction, and are placed on trajectories at common times (Pacific Standard Time; + 8 time zone) during each day. Letters a-g in plate code correspond to 23-29 April, respectively.



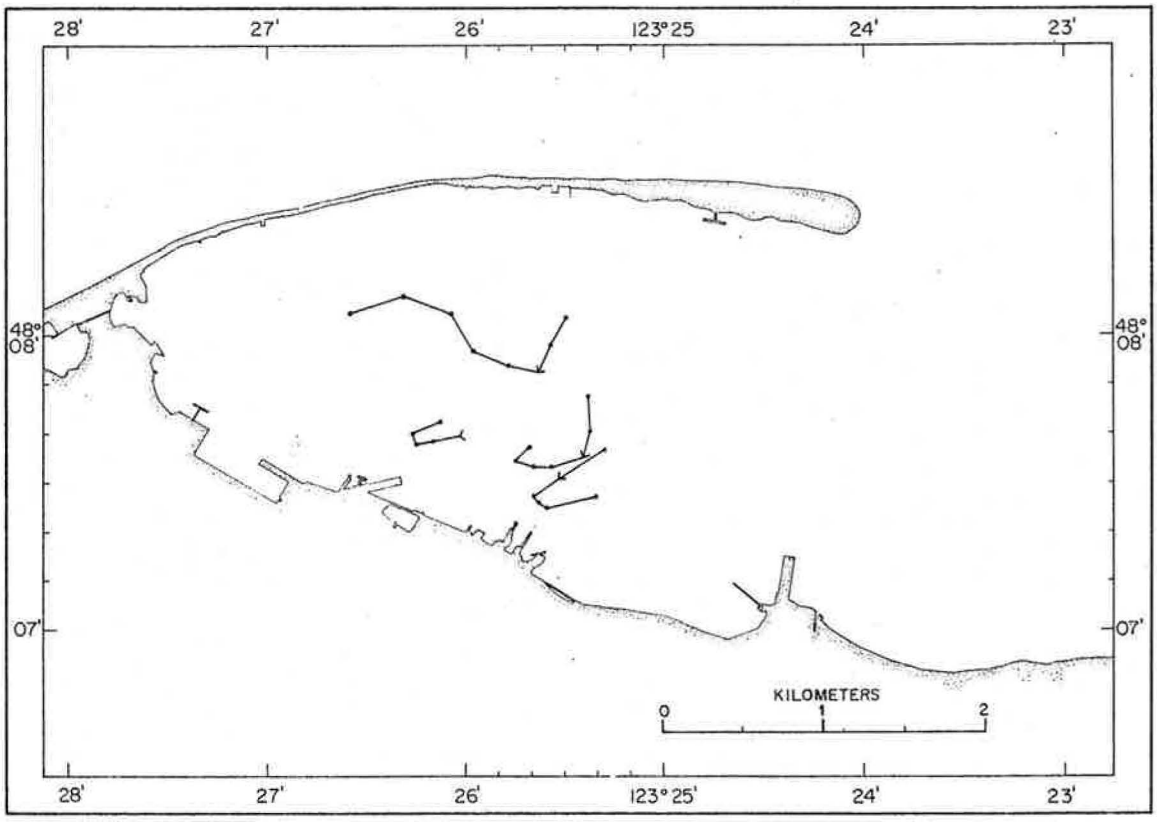
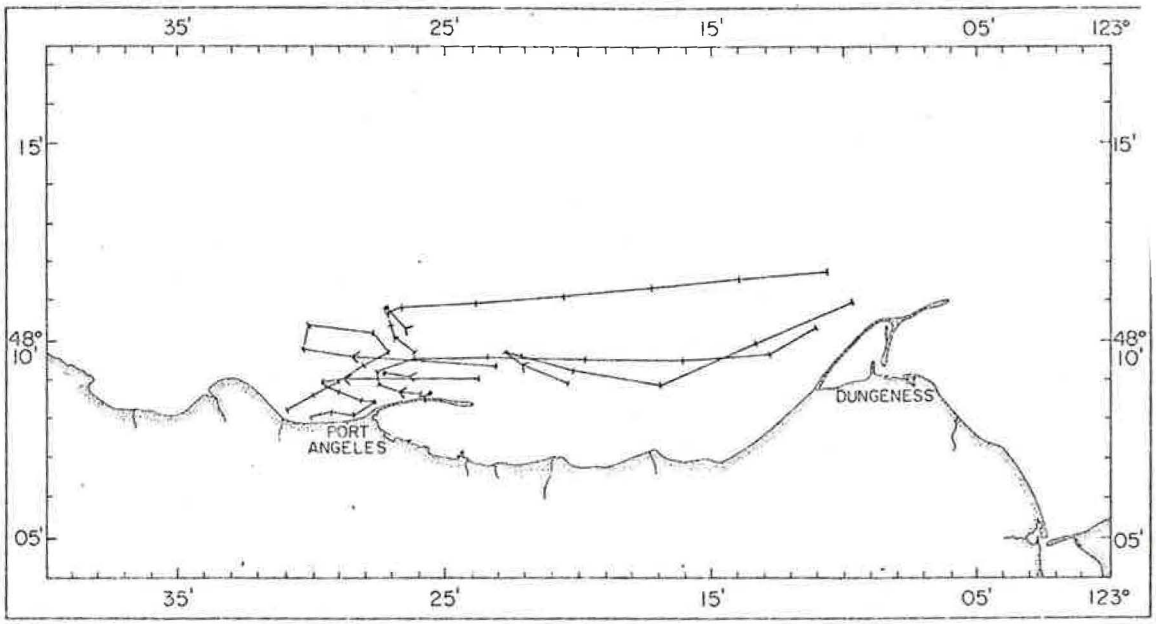


Plate 1a1. Trajectories, 1000-1700, 23 April 1978. Arrows at 1200 (open) and 1800 (solid).

9 hrs to reach spit



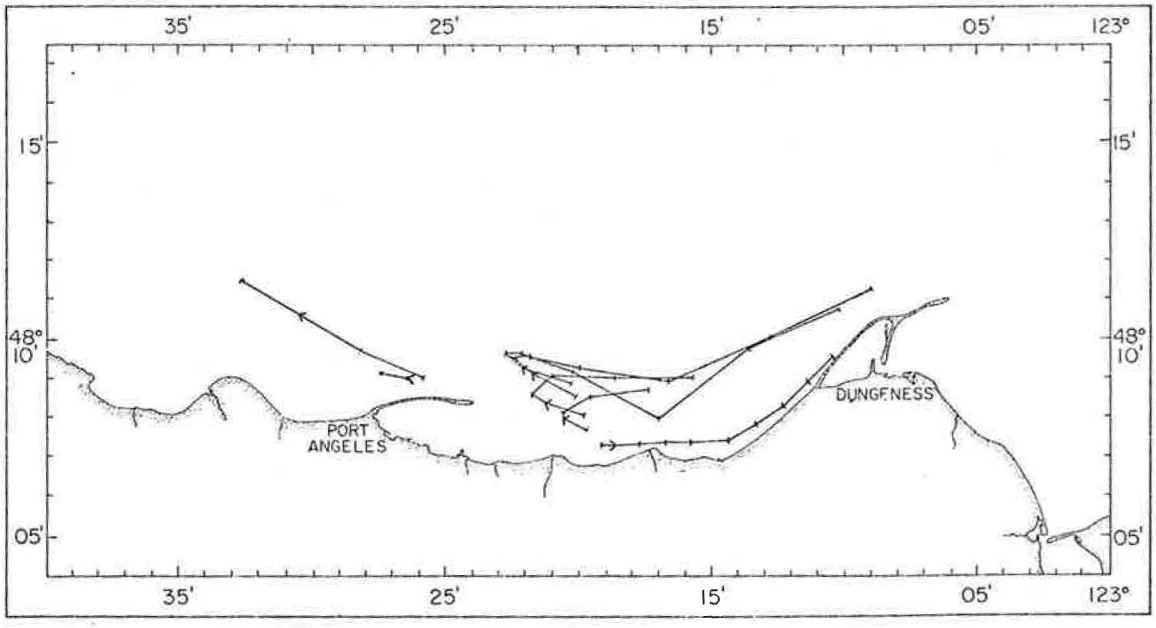


Plate 1b1. Trajectories, 0900-1800, 24 April 1978. Arrows at 1000.

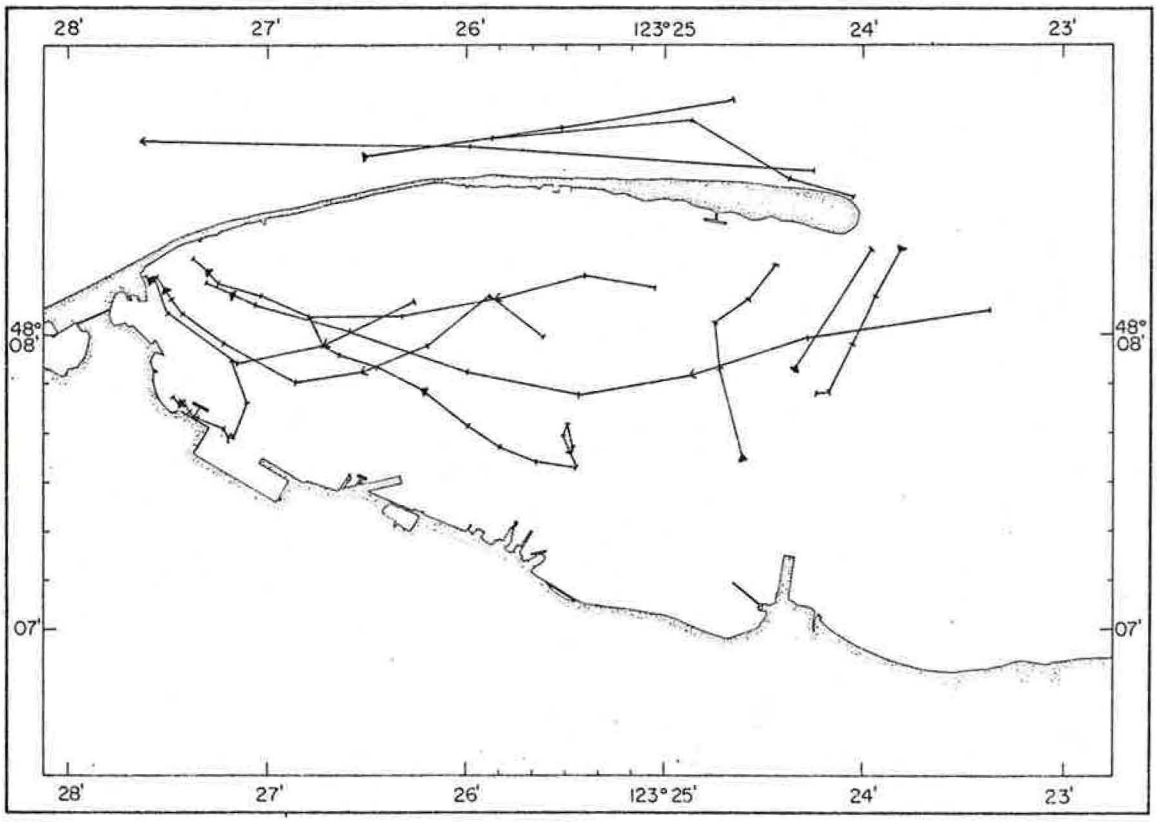


Plate 1b2. Trajectories, 0700-1900, 24 April 1978.
Arrows at 1000 (open) and 1500 (solid).

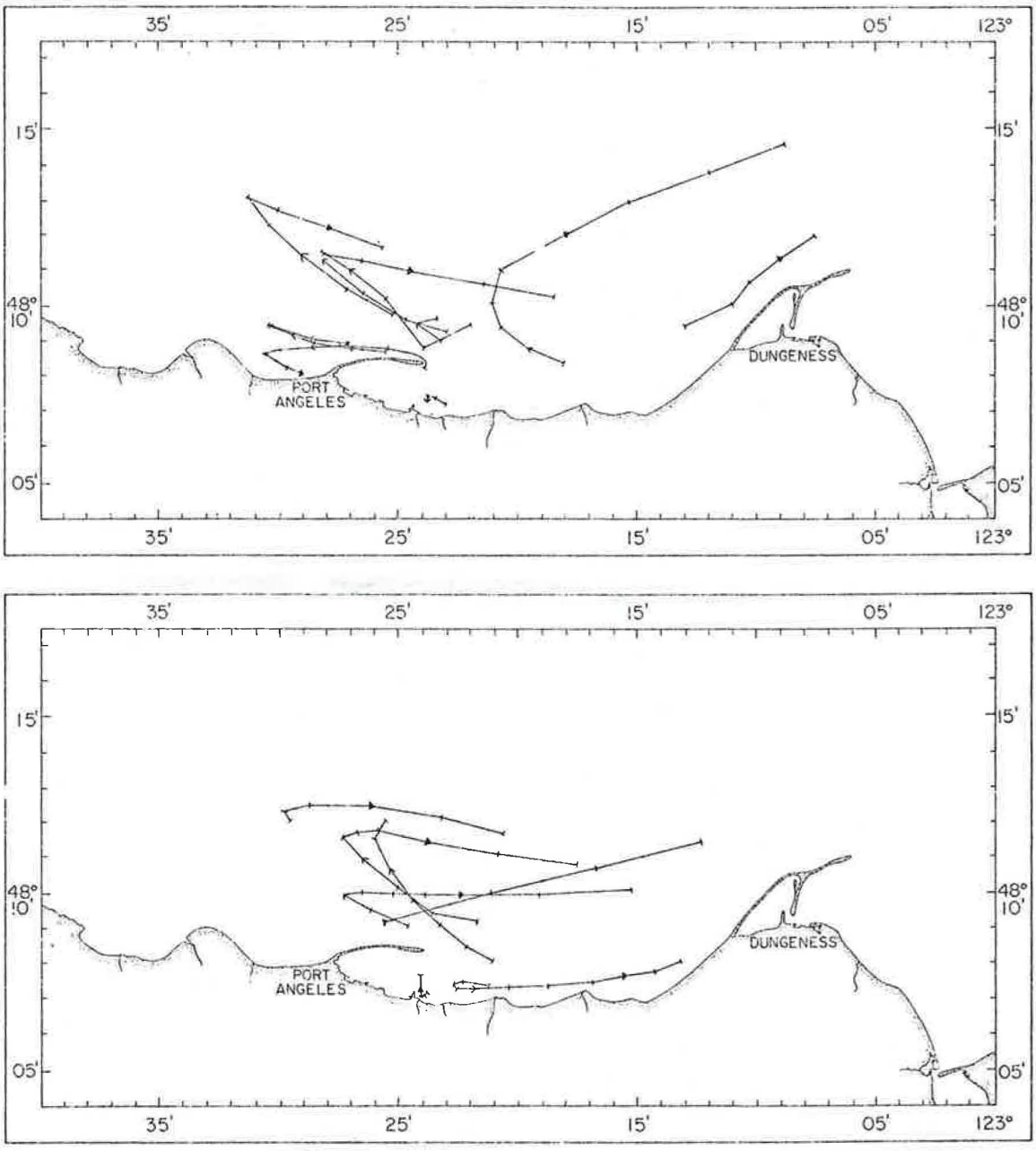


Plate 1c1. Trajectories, 0800-1800, 25 April 1978. Arrows at 1100 (open) and 1500 (solid).

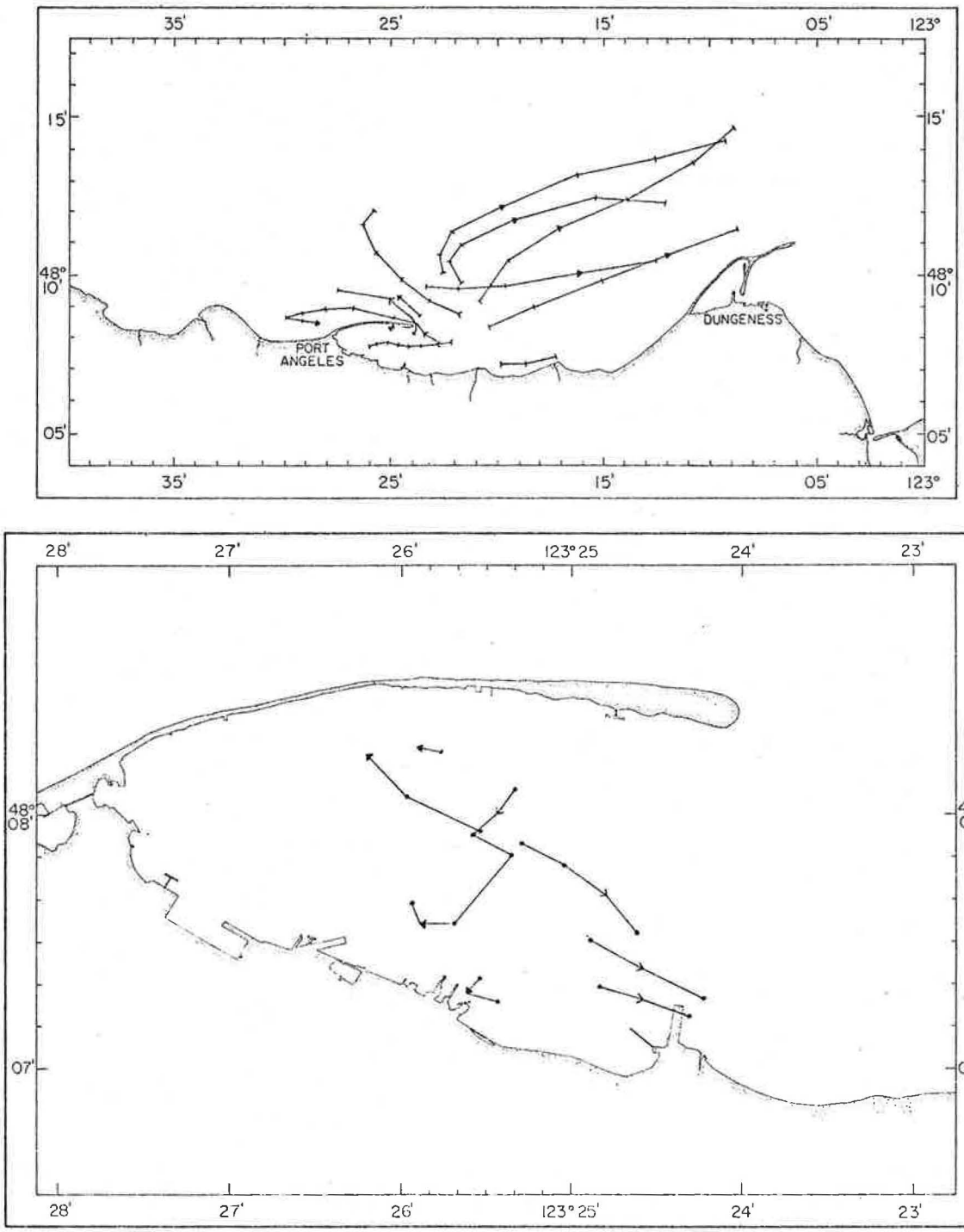


Plate 1c2. Trajectories, 0800-1800, 25 April 1978.
Arrows at 1100 (open) and 1500 (solid).

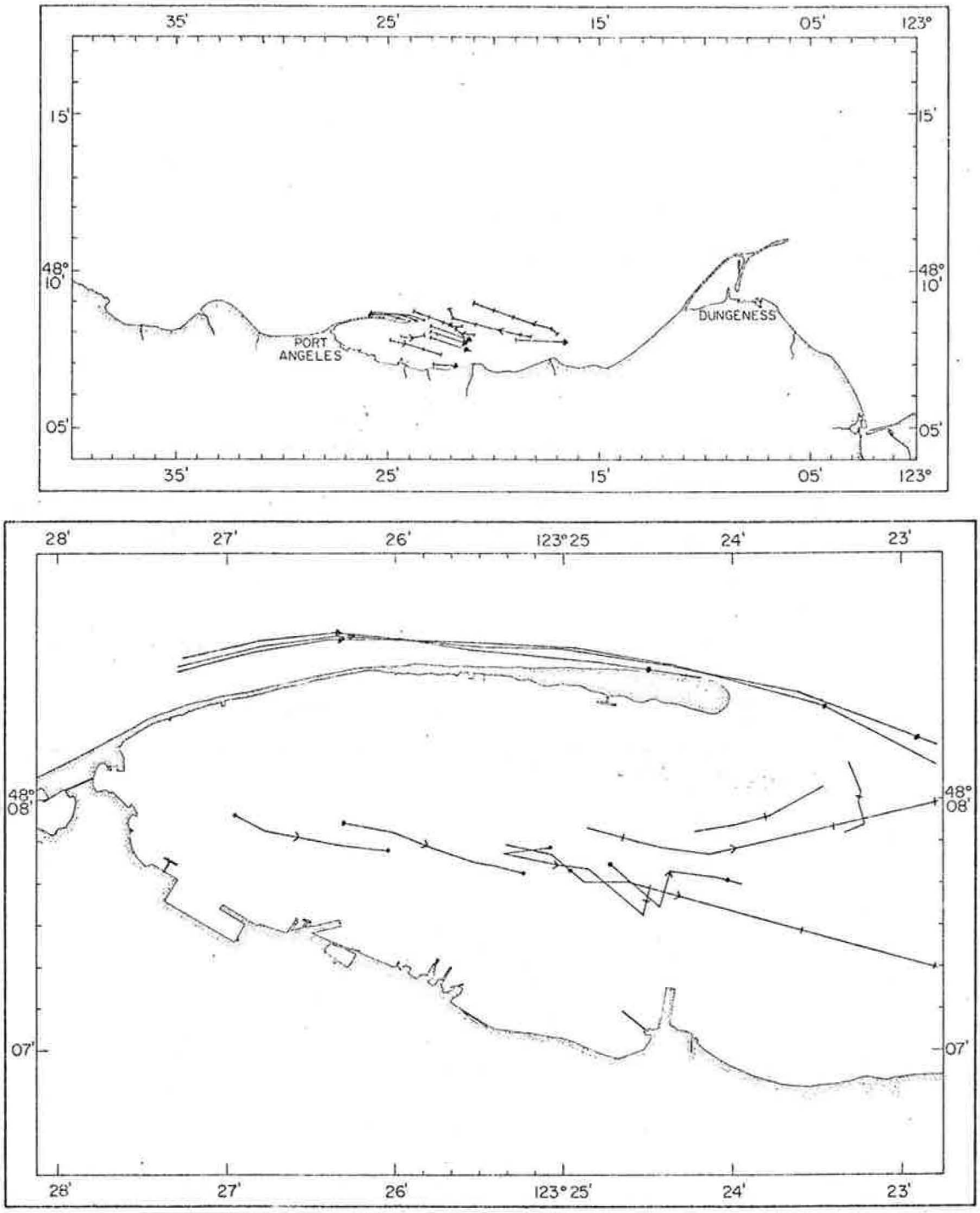


Plate 1d1. Trajectories, 0700-1600, 26 April 1978.
Arrows at 0900 (open) and 1500 (solid).

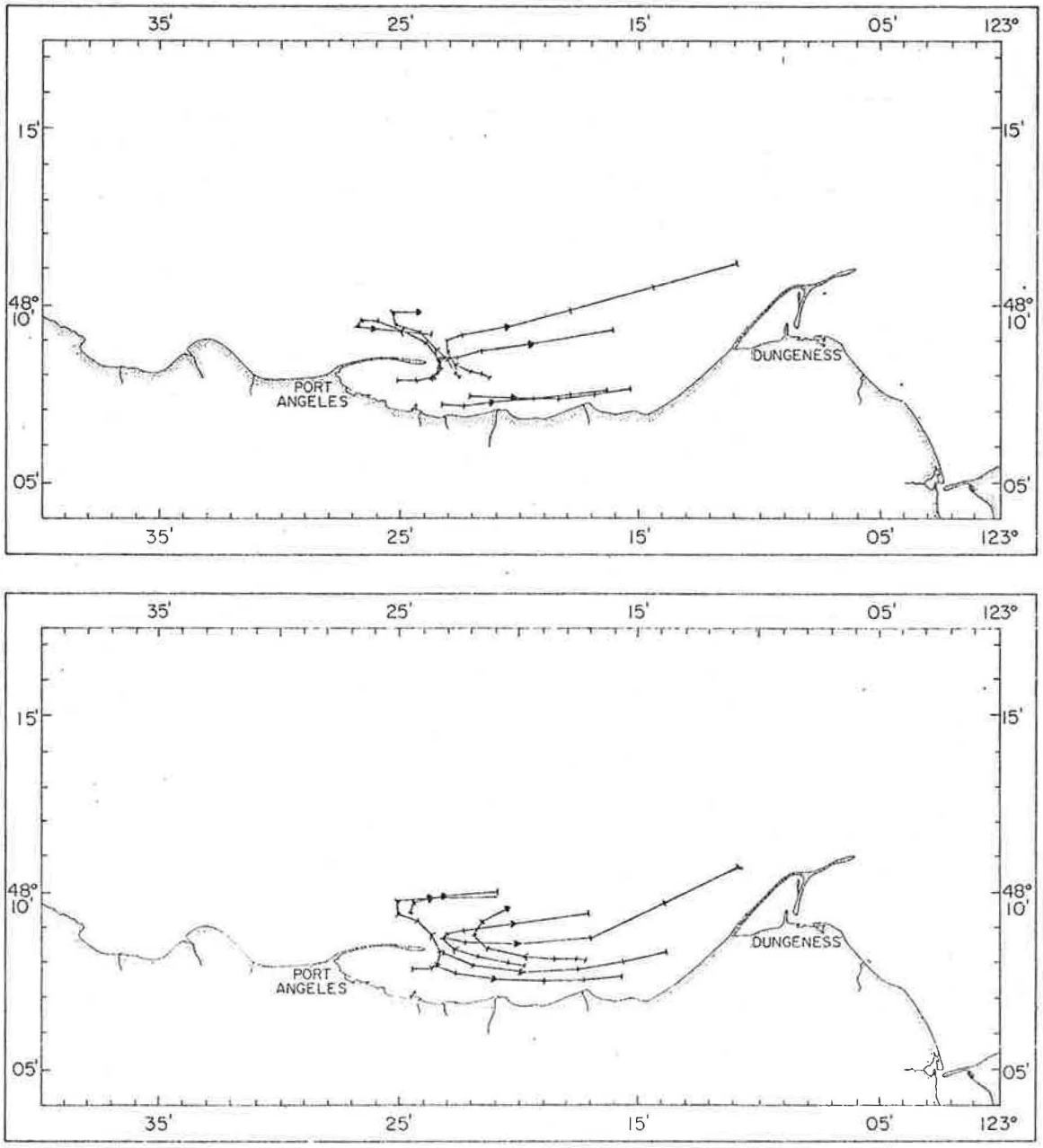


Plate 1e1. Trajectories, 0700-1800, 27 April 1978. Arrows at 1100 (open) and 1500 (solid).

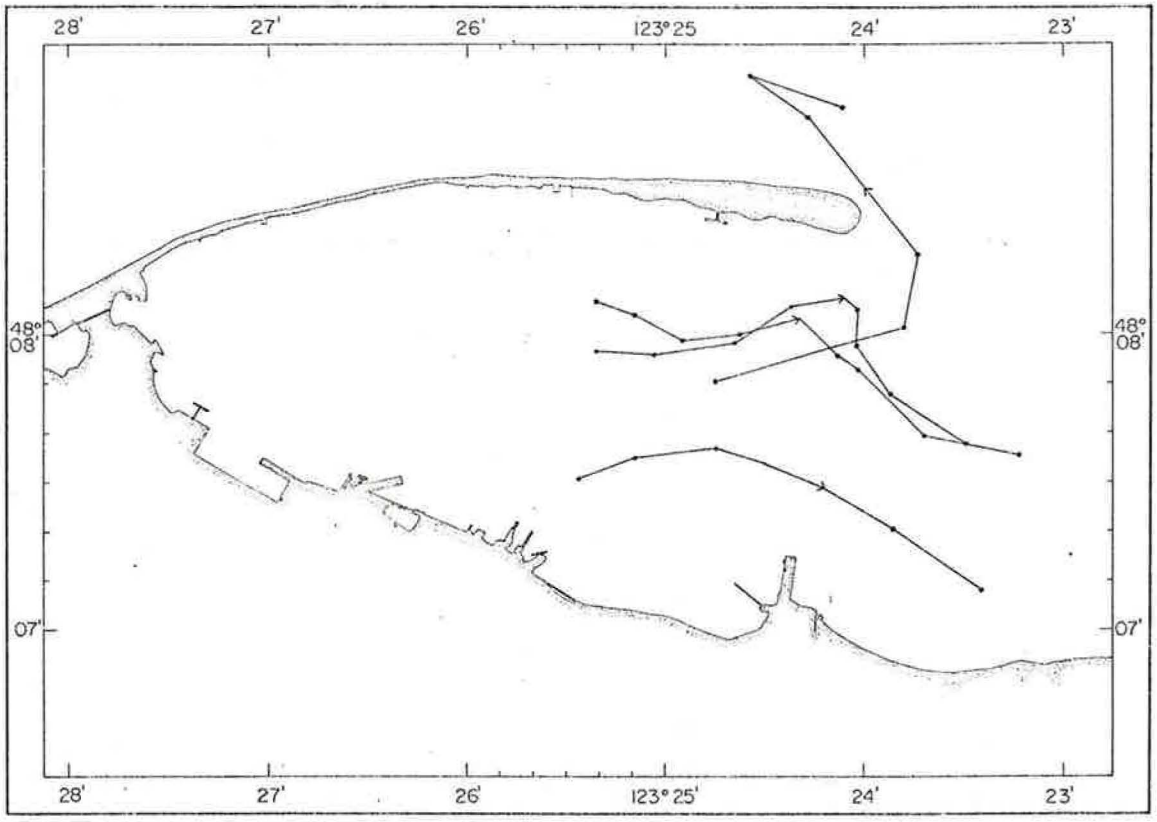
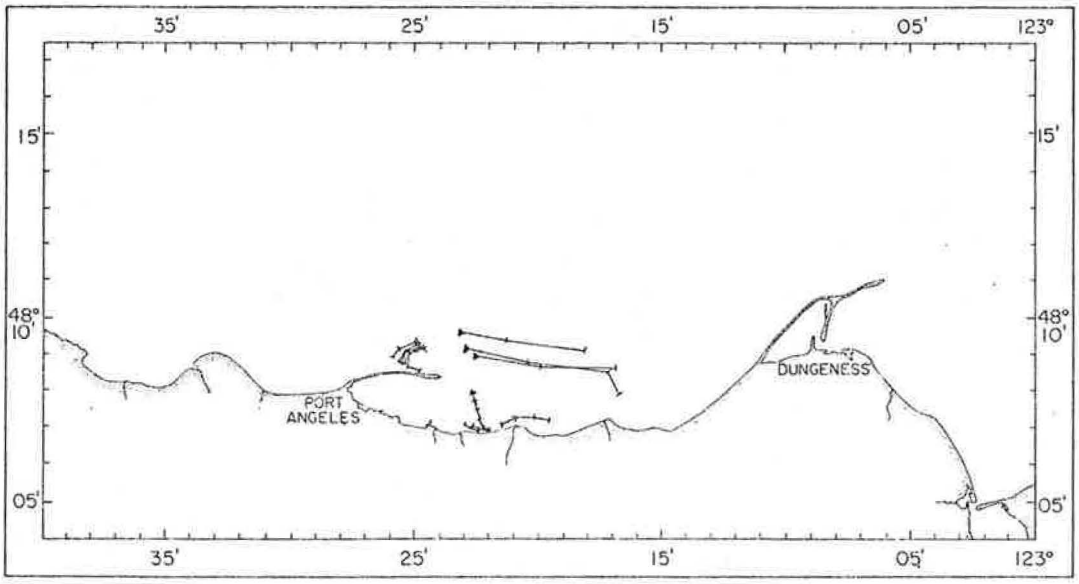


Plate 1e2. Trajectories, 0700-1500, 27 April 1978.
Arrows at 1100.



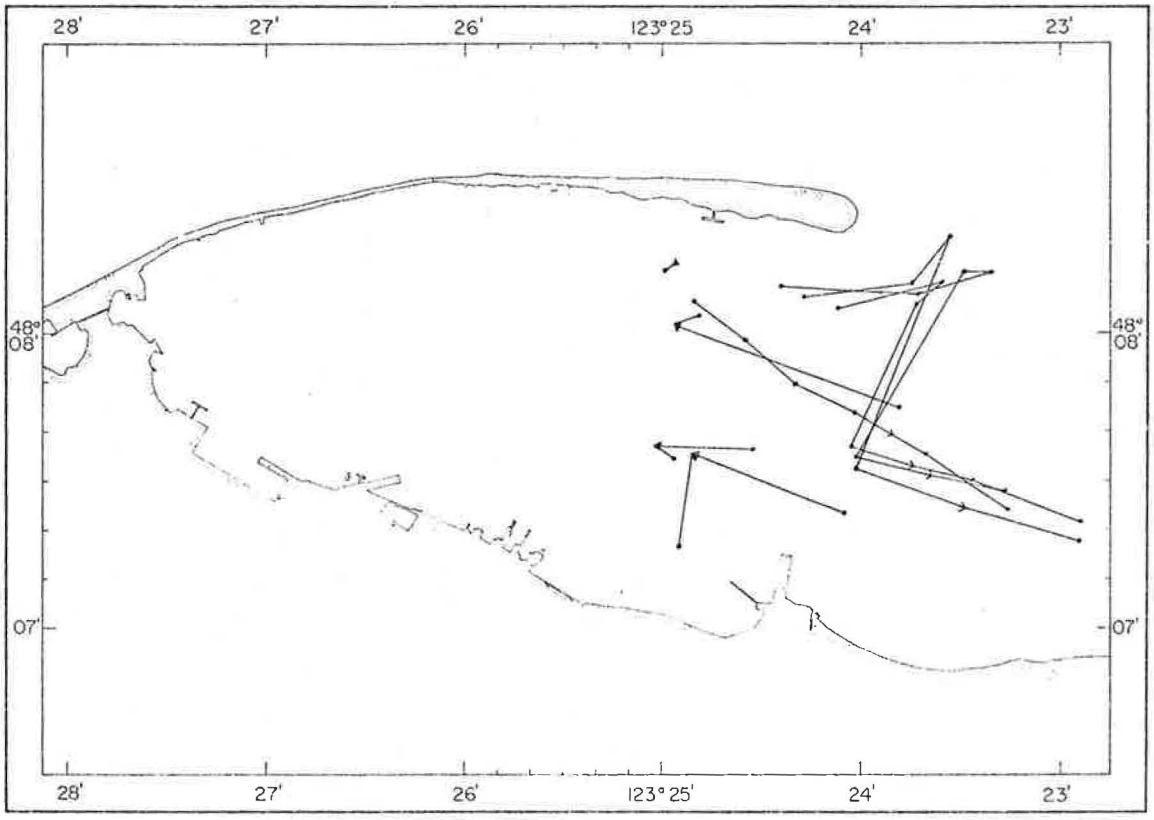


Plate 1f1. Trajectories, 1000-1900, 28 April 1978.
Arrows at 1200 (open) and 1600 (solid).

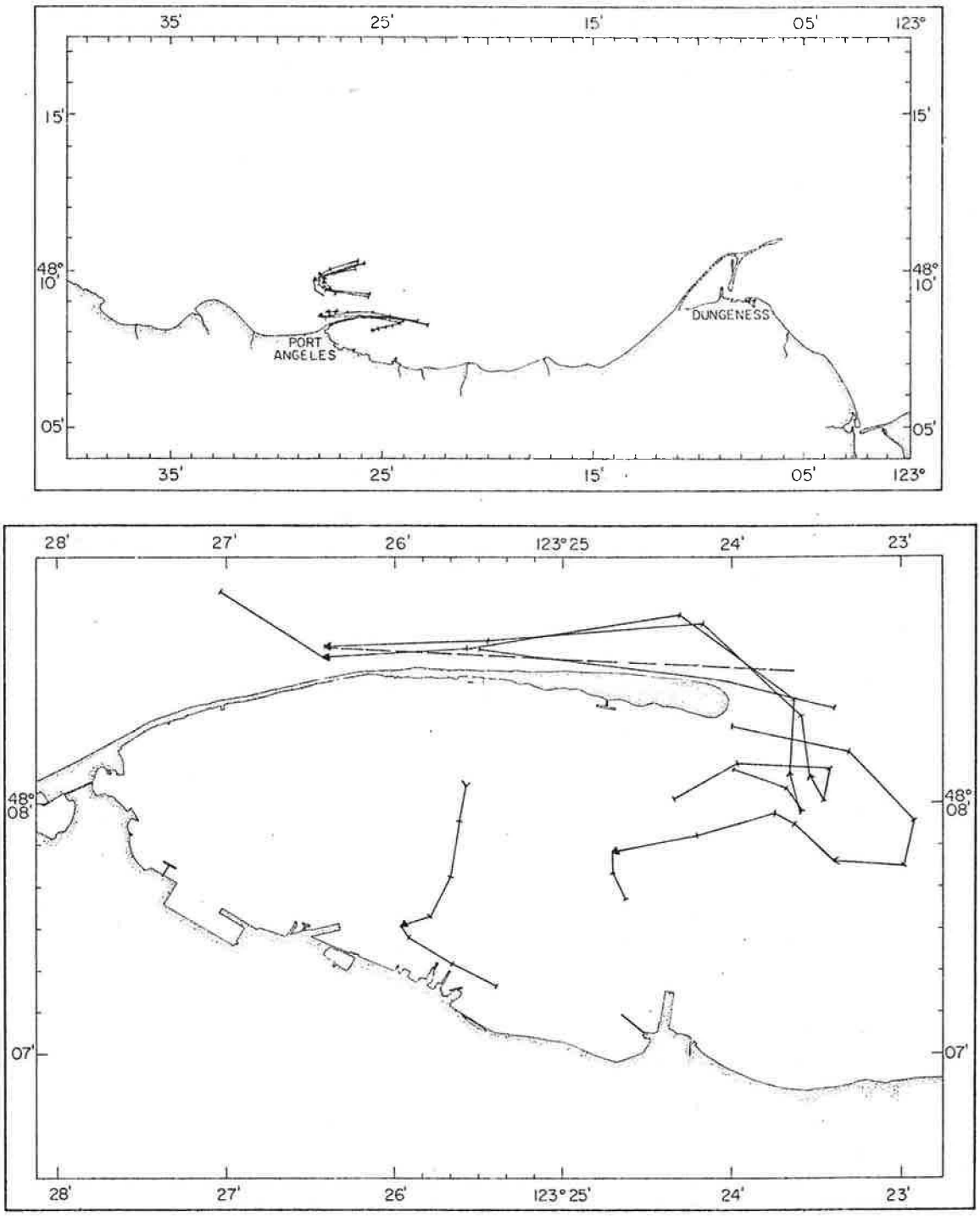
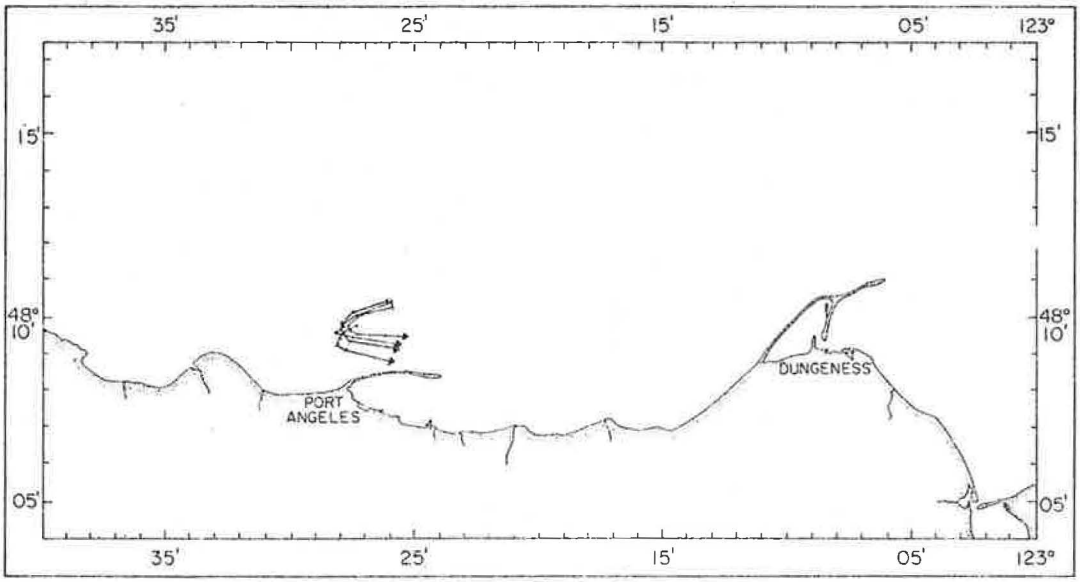


Plate 1g1. Trajectories, 0700-1900, 29 April 1978. Arrows at 1100 (open) and 1500 (solid).



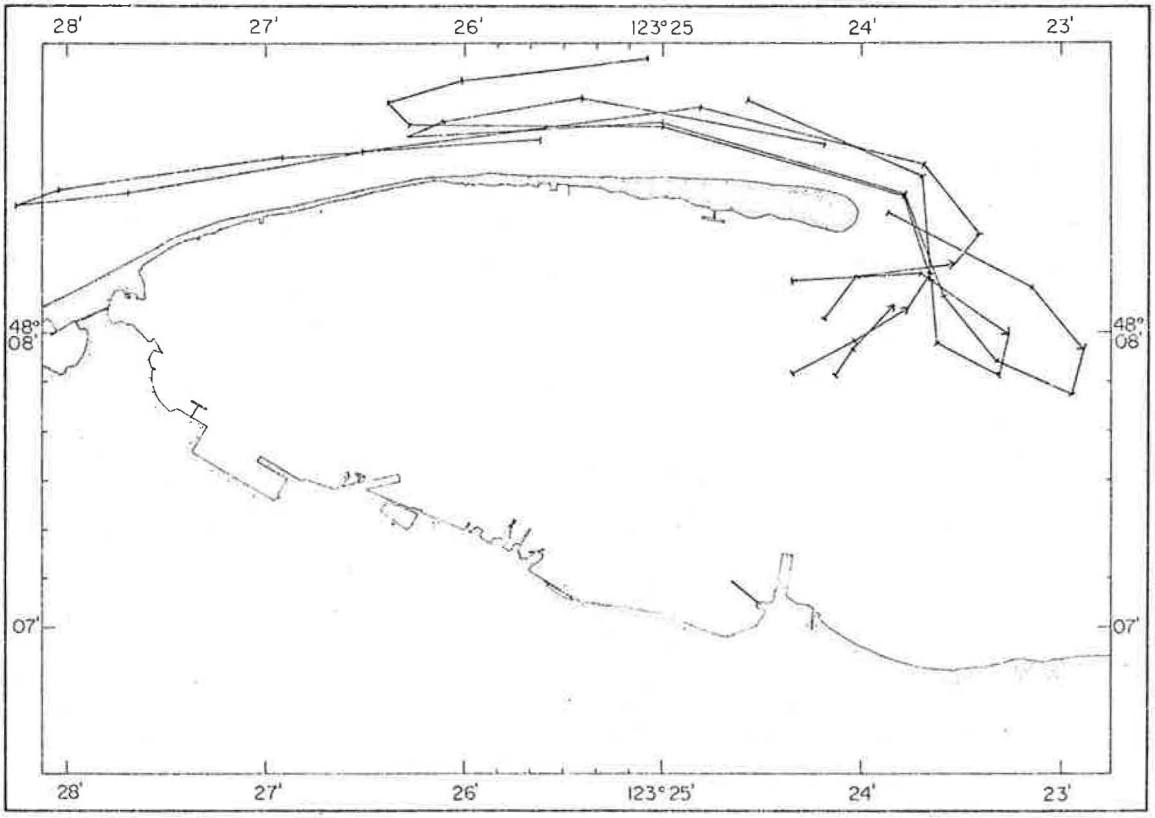


Plate 1g2. Trajectories, 1300-1900, 29 April 1978.
Arrows at 0900 (open) and 1900 (solid).

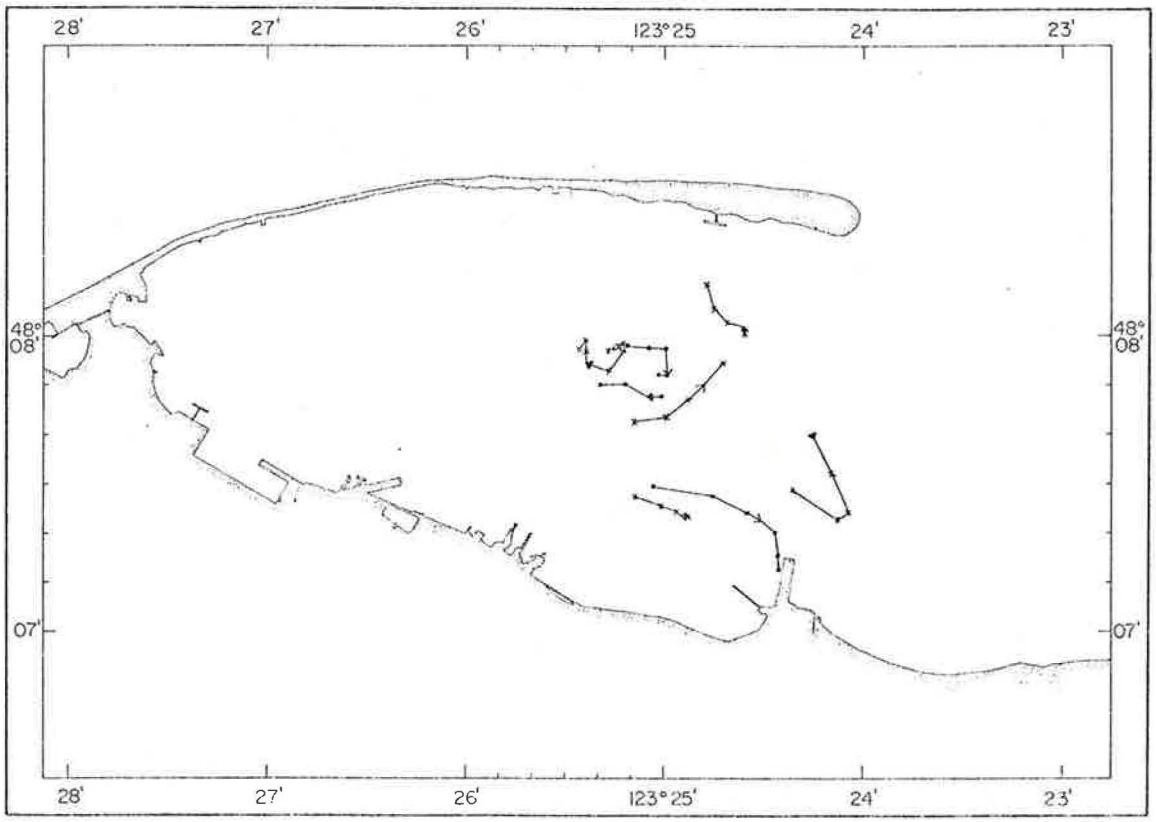
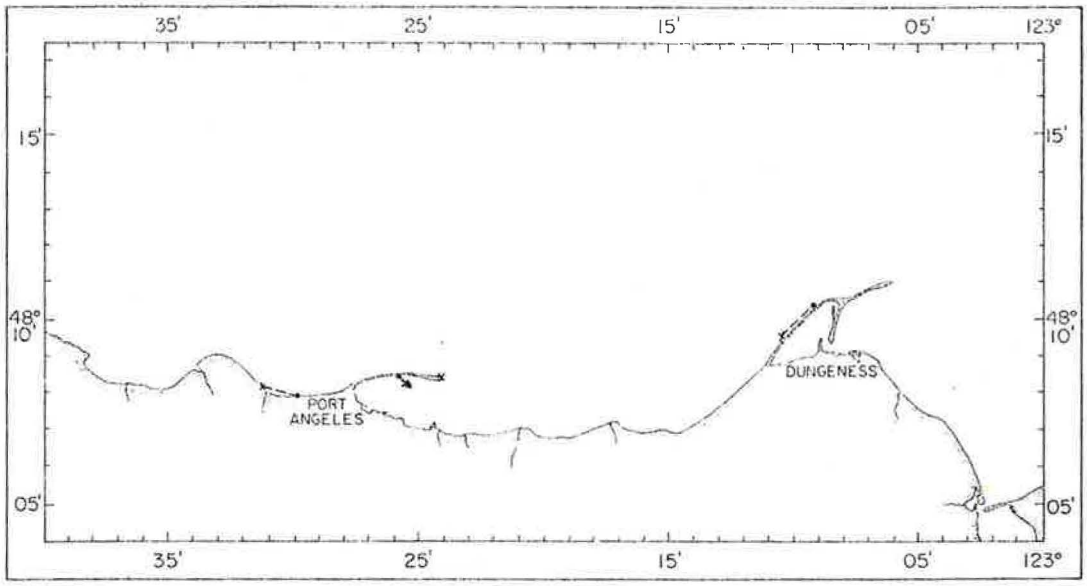
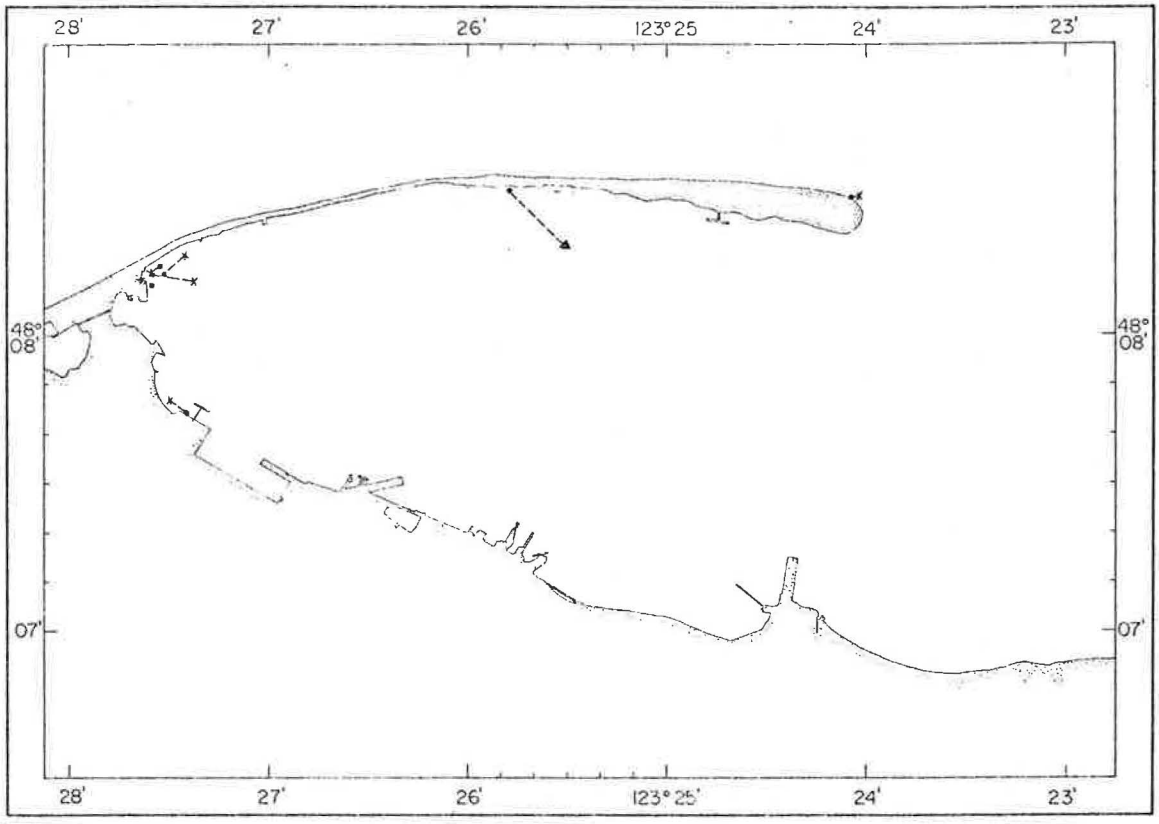


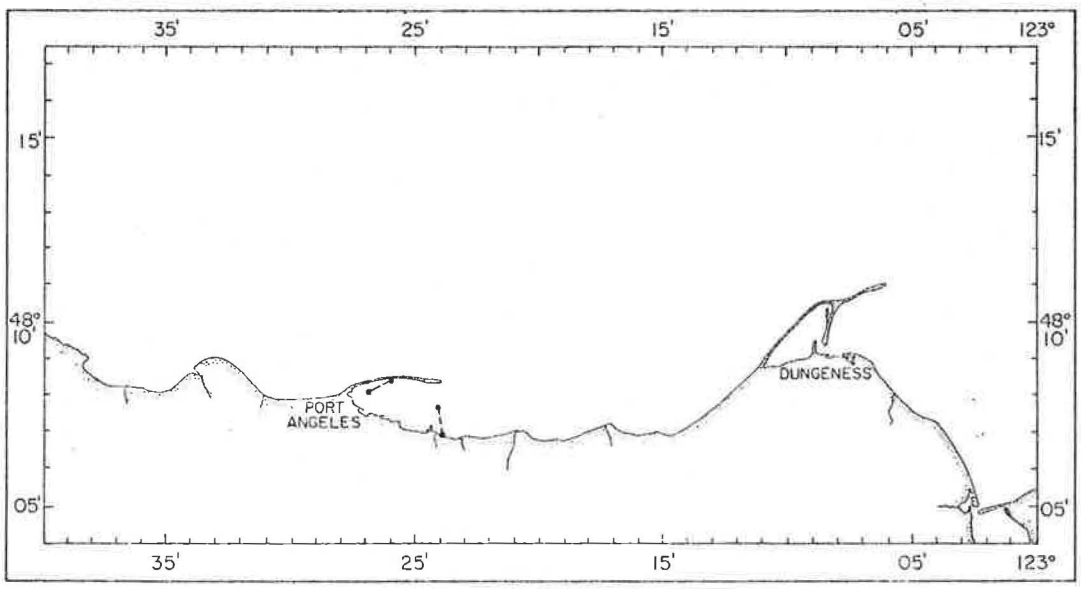
Plate 1g3. Trajectories, 0800-1800, 29 April 1978.
Arrows at 1100 (open) and 1500 (solid).

Plates 2a - 2g. Drift sheet recoveries onshore relative to last known positions. Shore positions listed in Table 3, and shown relative to release positions in Figure 5a. Letters a-g in plate code correspond to 23-29 April, respectively. Symbols offshore denote day of release as shown in Figure 6a.





Plates 2a and 2b. Drift sheet recoveries onshore connected to last known positions for releases on 23 and 24 April 1978.



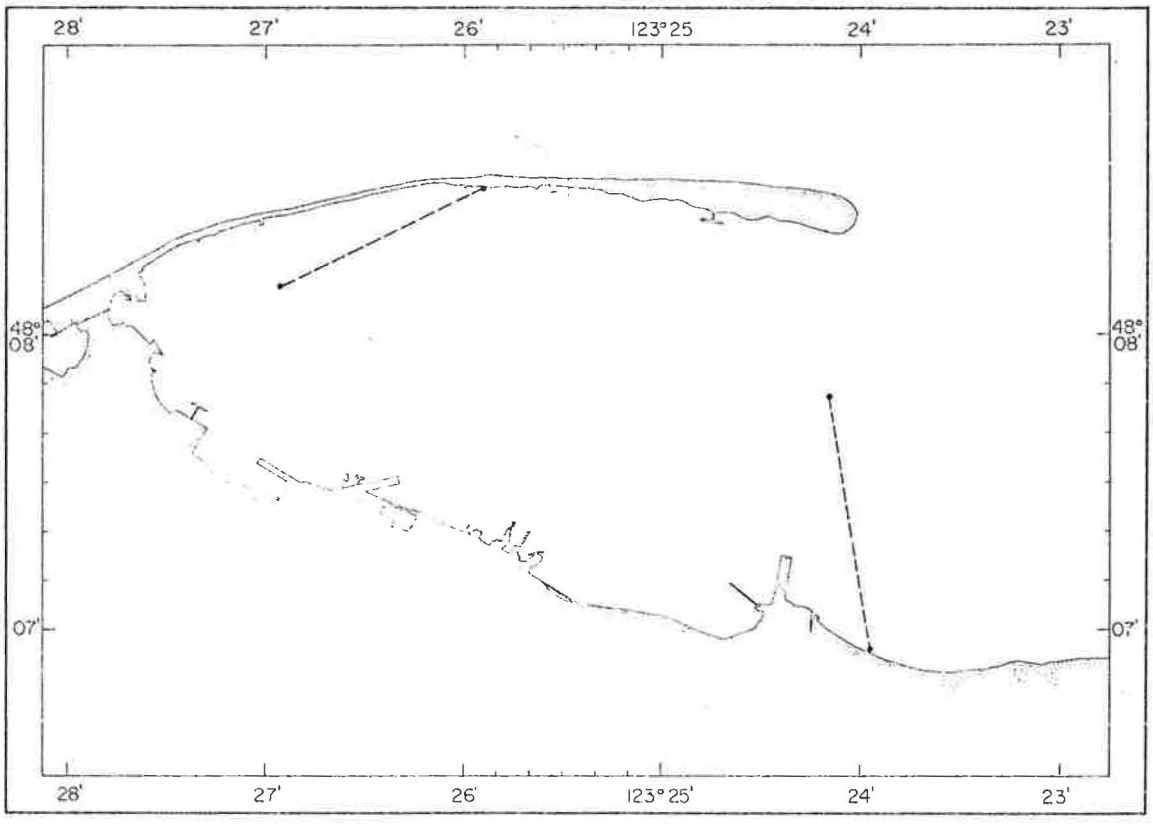


Plate 2c. Drift sheet recoveries onshore connected to last known positions for releases on 25 April 1978.

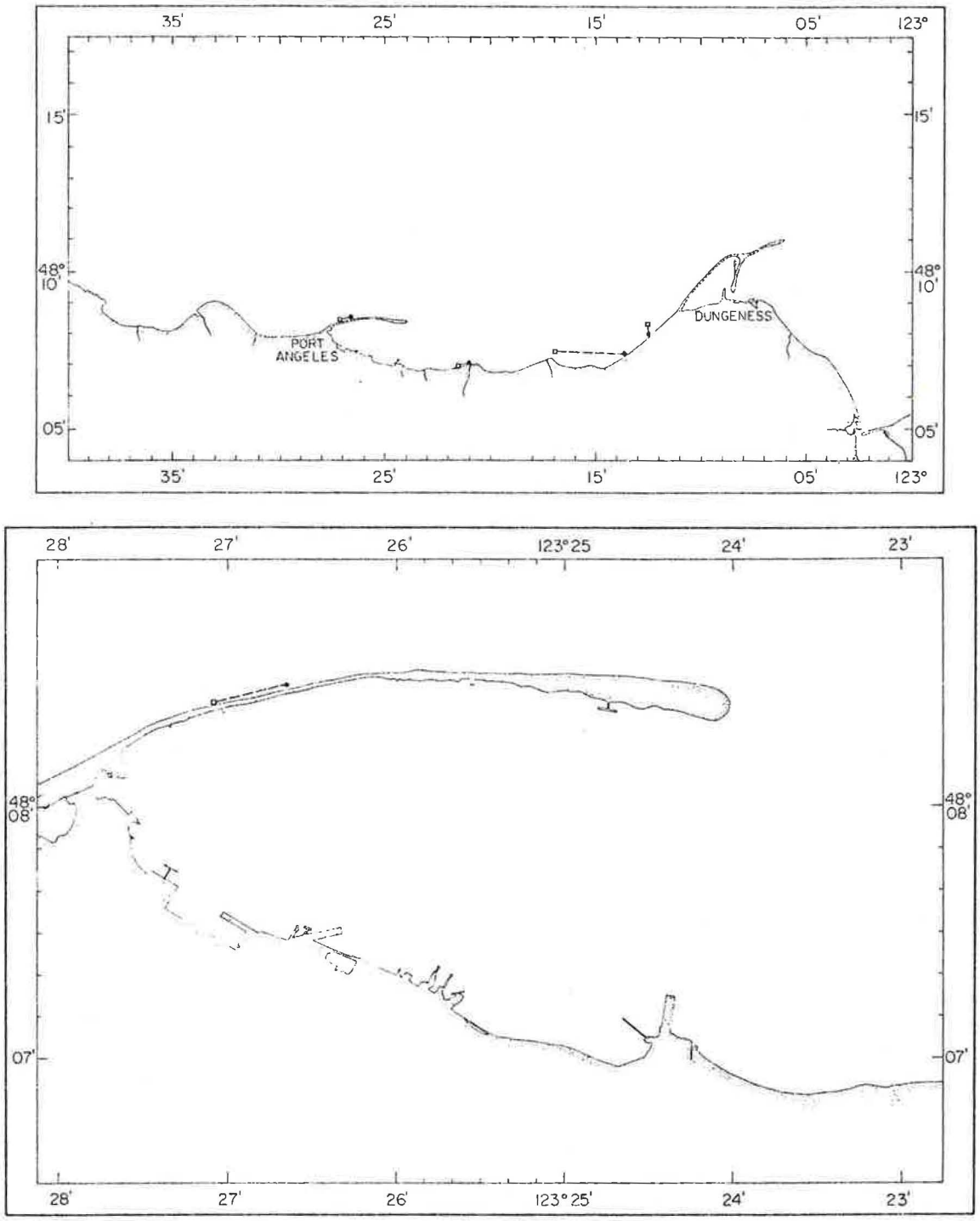


Plate 2d. Drift sheet recoveries onshore connected to last known positions for releases on 26 April 1978.

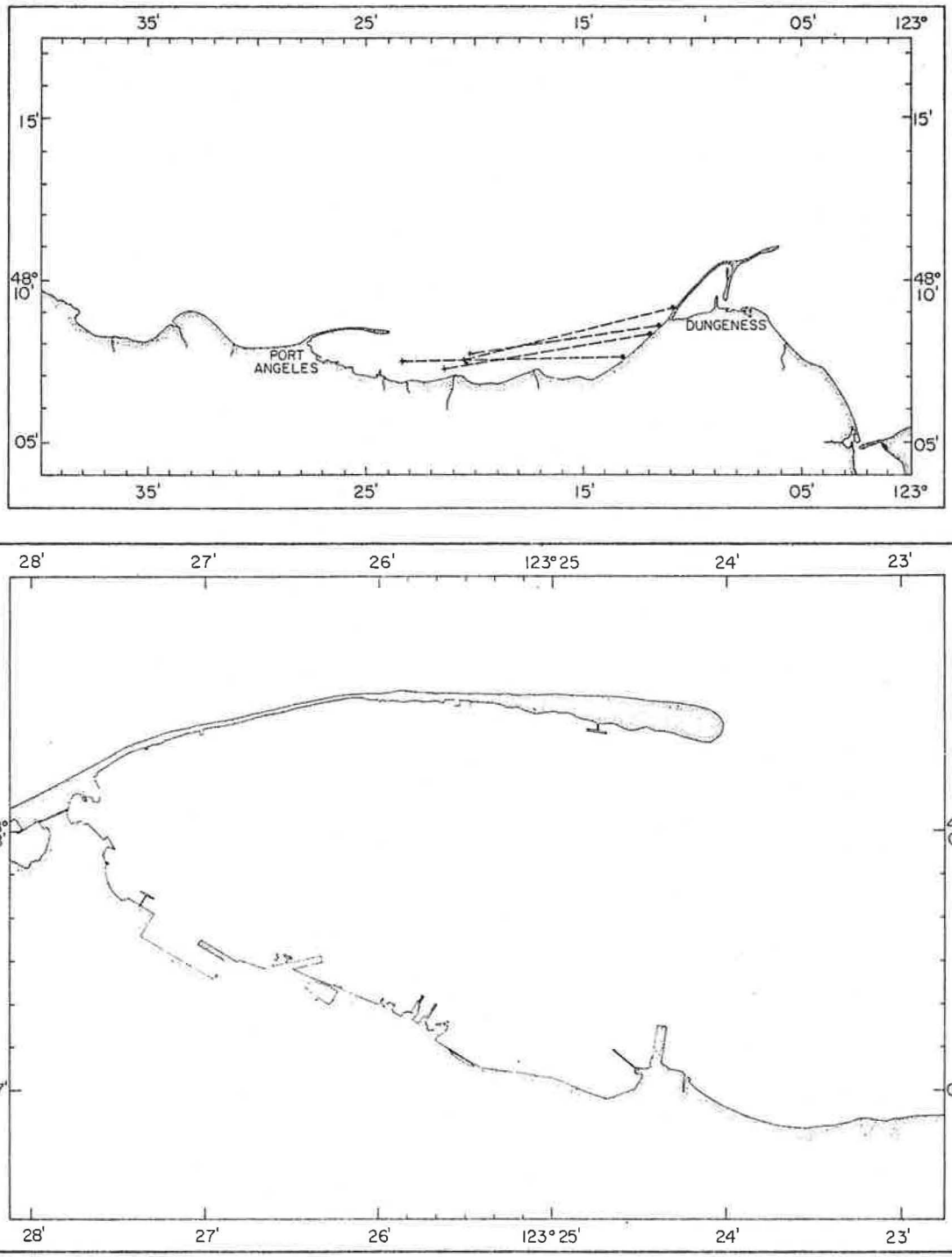


Plate 2e. Drift sheet recoveries onshore connected to last known positions for releases on 27 April 1978.

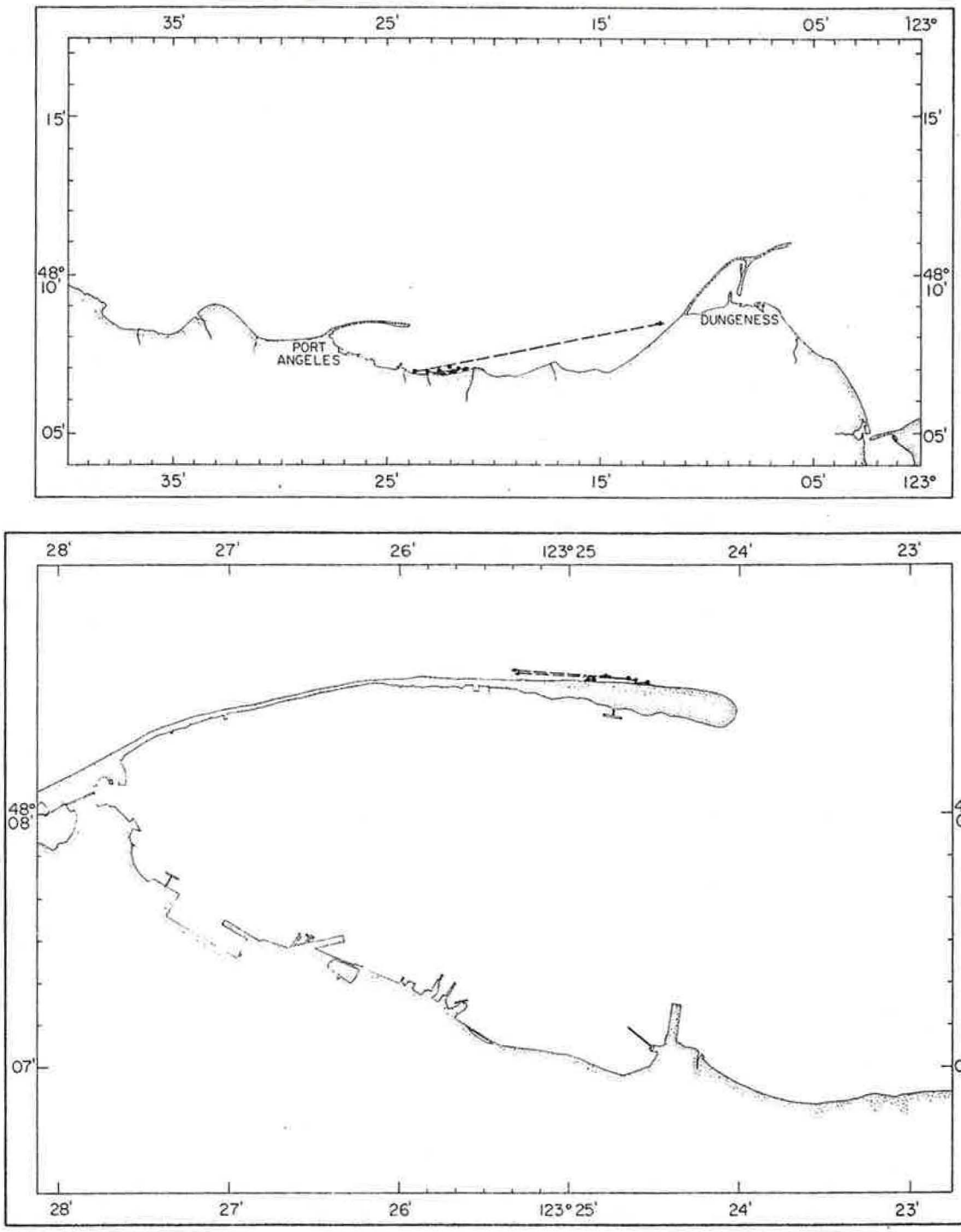
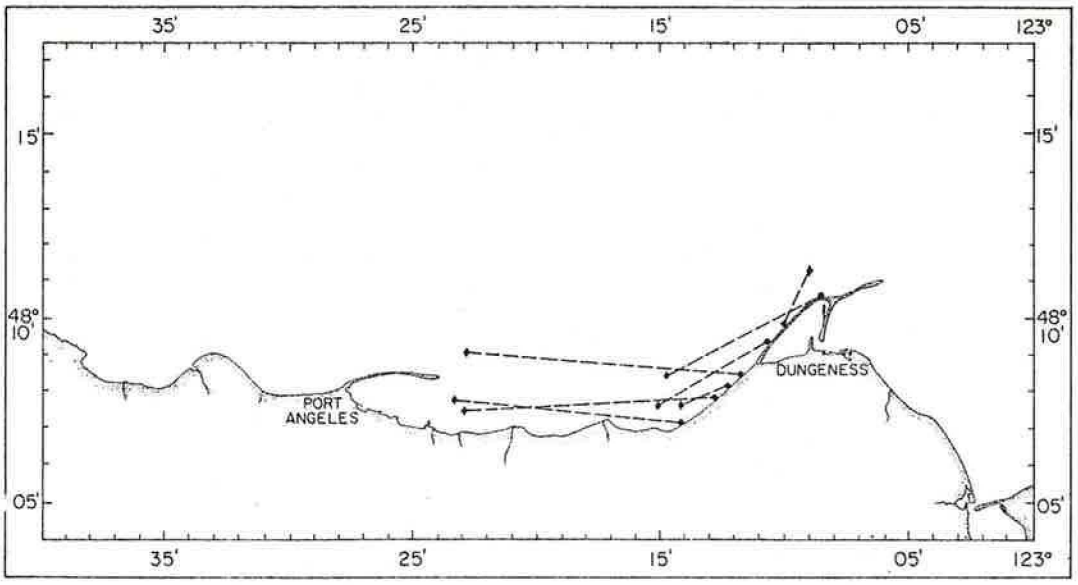


Plate 2f. Drift sheet recoveries onshore connected to last known positions for releases on 28 April 1978.



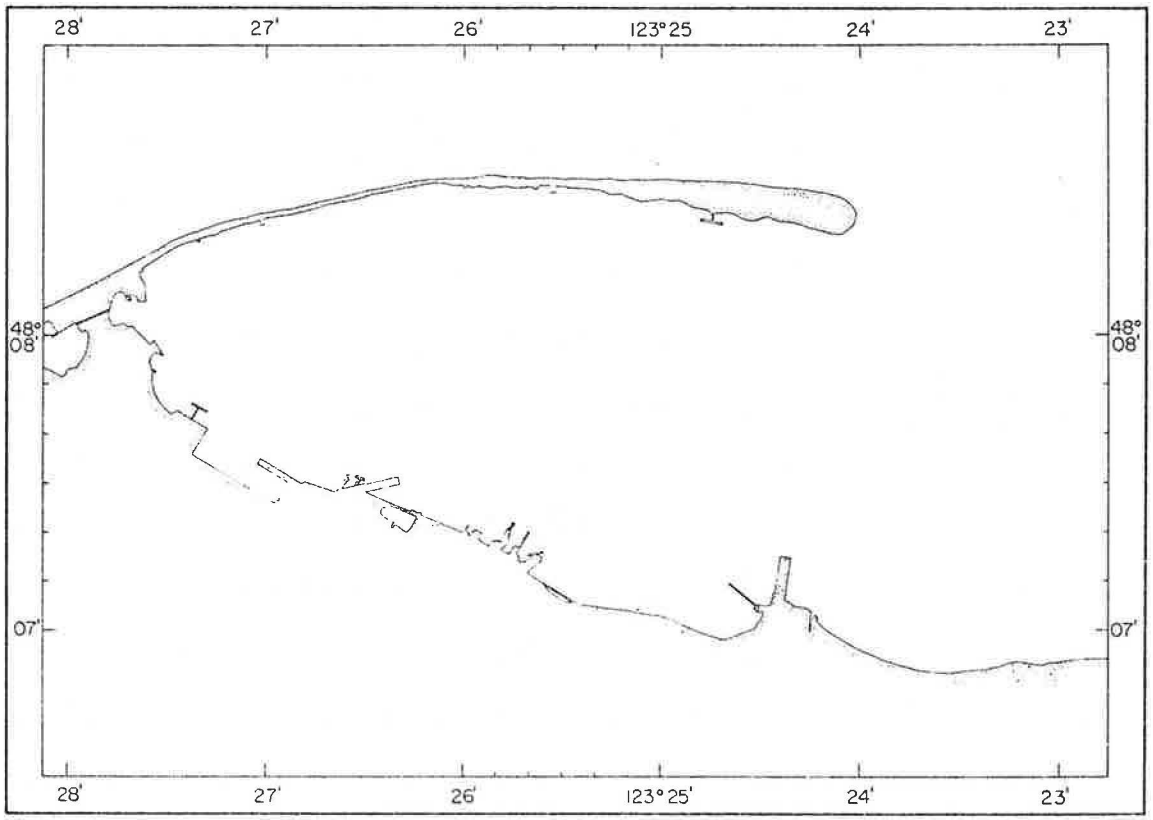


Plate 2g. Drift sheet recoveries onshore connected to last known positions for releases on 29 April 1978.

Plates 3a - 3g. Spatial vector diagrams for drift sheets and drogues. There is one plate for each hour (Pacific Standard Time; + 8 time zone) during the observations. Each plate consists of an upper frame of the study area and a lower frame of Port Angeles Harbor. Some frames are blank because there was no data at that hour. For editorial reasons, in some plates, there is data in one frame that is not shown in the other frame. Object positions are denoted on vectors by ticks for drift sheets, and by dots at 1 m and 'x' at 9 m depths for drogues. Speeds are listed in Plates 5 and 6 and scaled as shown on Plate 3a1. Tidal phase for each diagram is shown in Figure 7. For example, Plate 3b3 occurs at position b3 on Figure 7. Letters a-g in plate code correspond to 23-29 April, respectively.

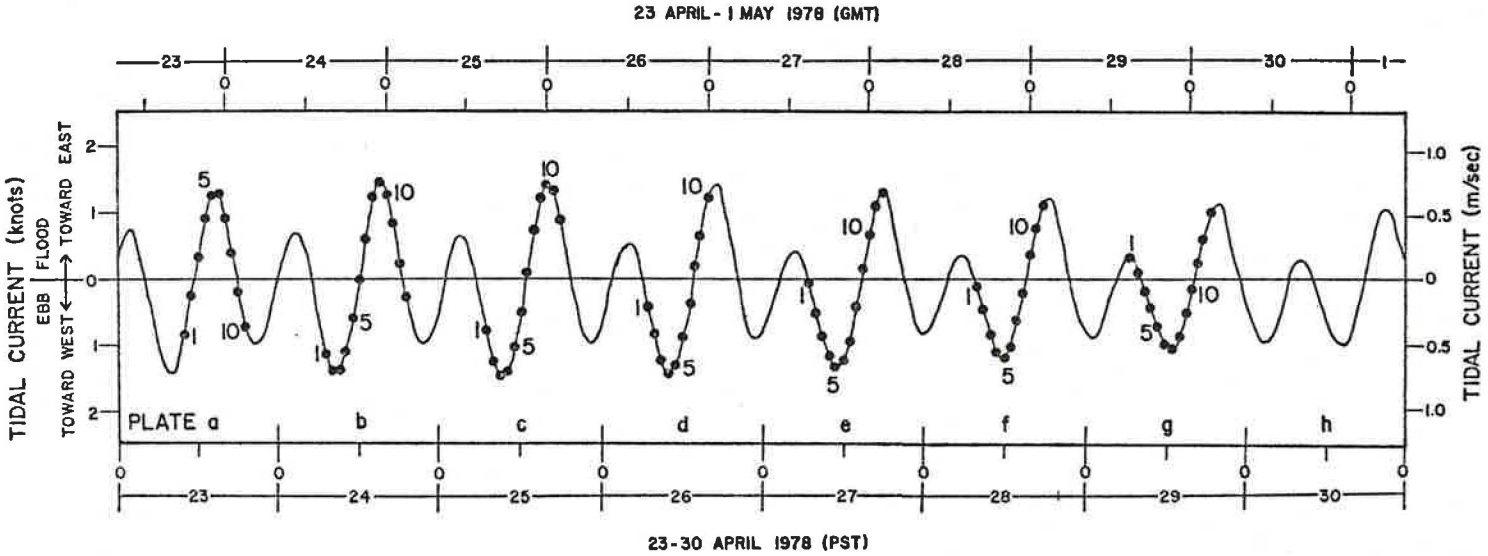


Figure 7. Times of spatial vector diagrams relative to tidal currents predicted north of Ediz Hook Light (see Figure 1c for location). Plates a-h correspond to 23-30 April 1978, and last digit of Plate 3's code corresponds to hours (dots). For example on 23 April, a1 corresponds to Plate 3a1.

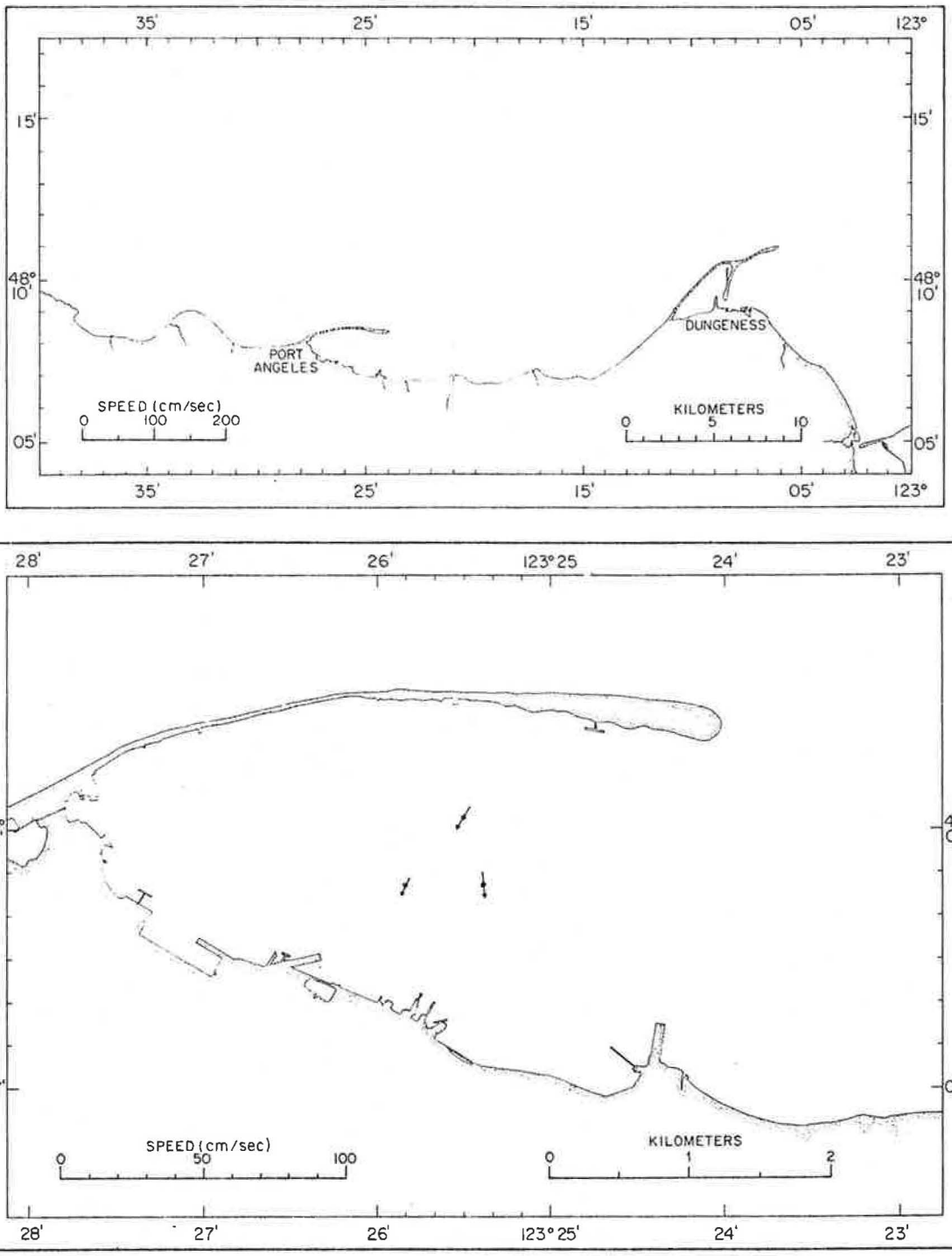


Plate 3a1. Spatial vector diagram at 1000, 23 April 1978.

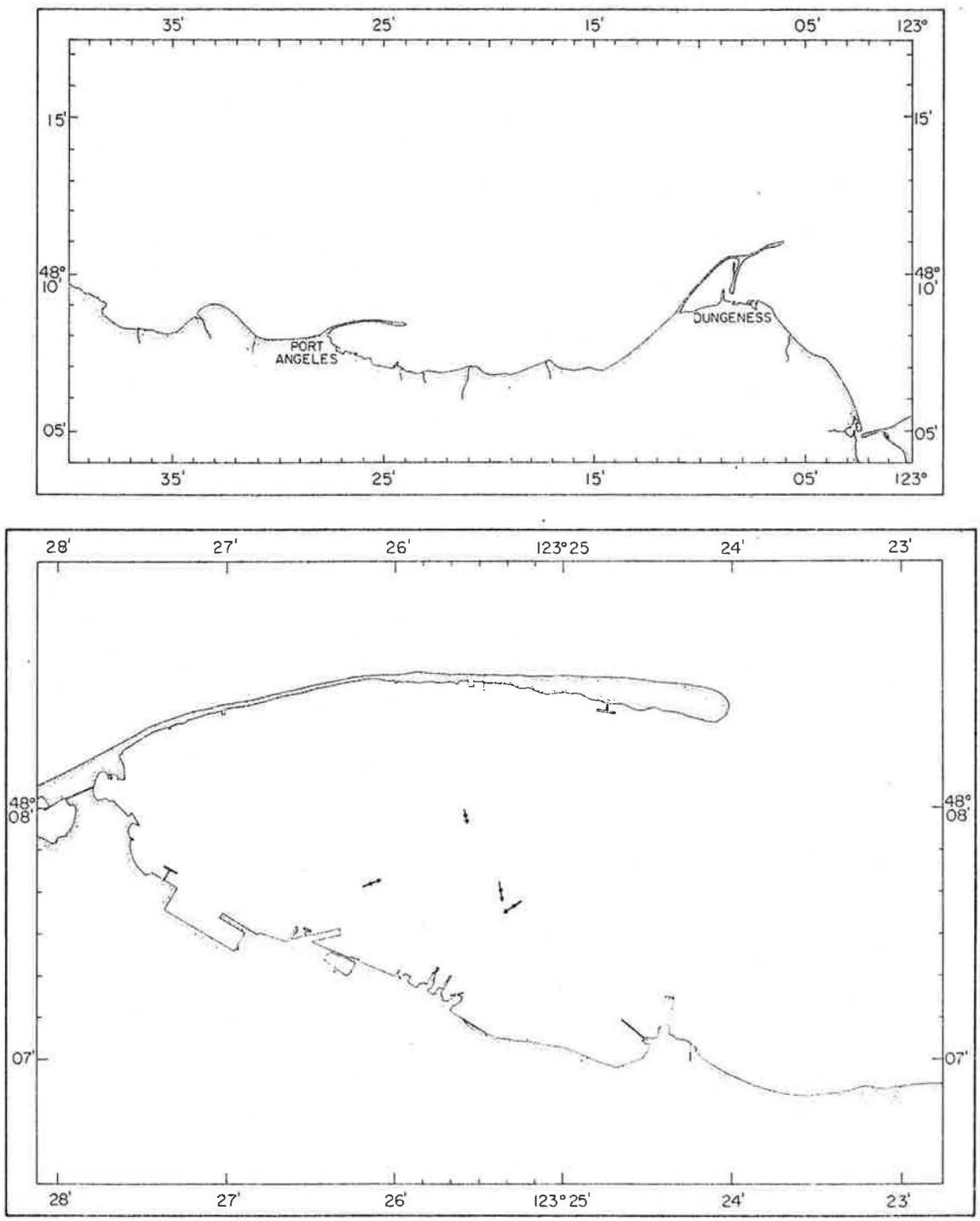
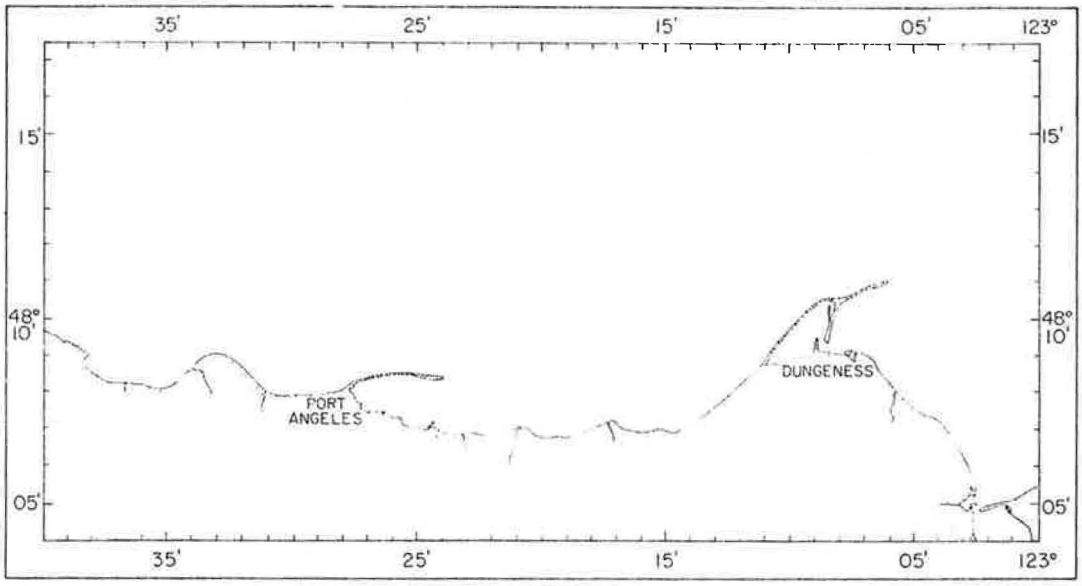


Plate 3a2. Spatial vector diagram at 1100, 23 April 1978.



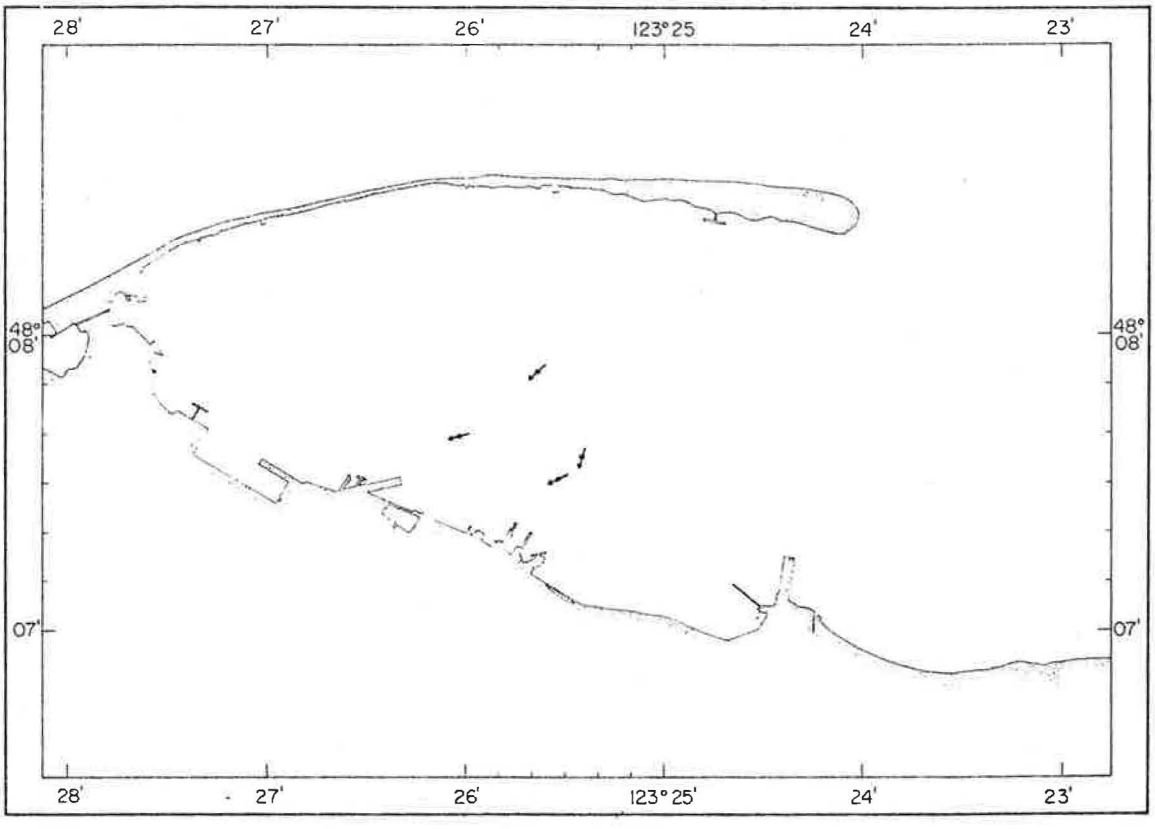


Plate 3a3. Spatial vector diagram at 1200, 23 April 1978.

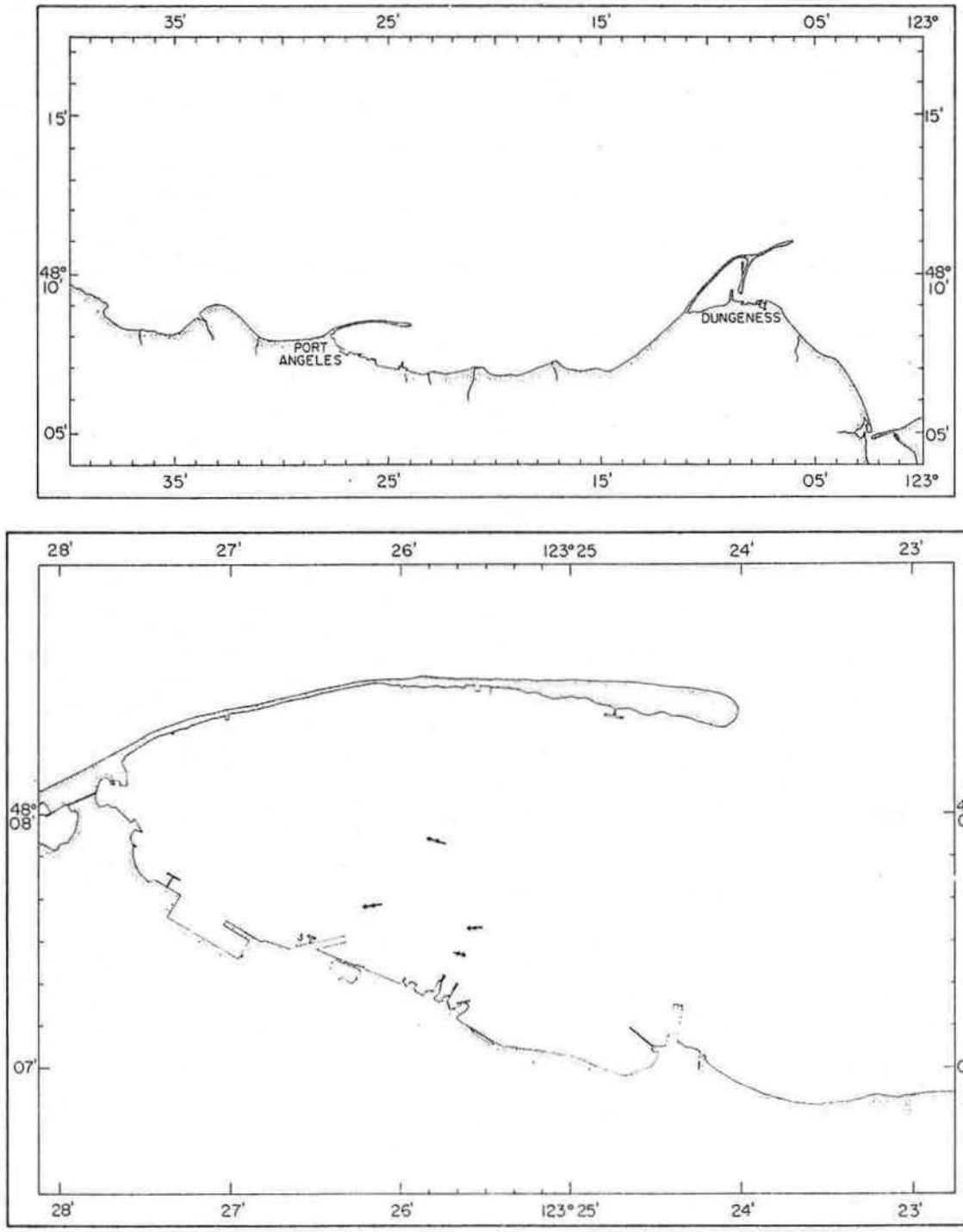


Plate 3a4. Spatial vector diagram at 1300, 23 April 1978.

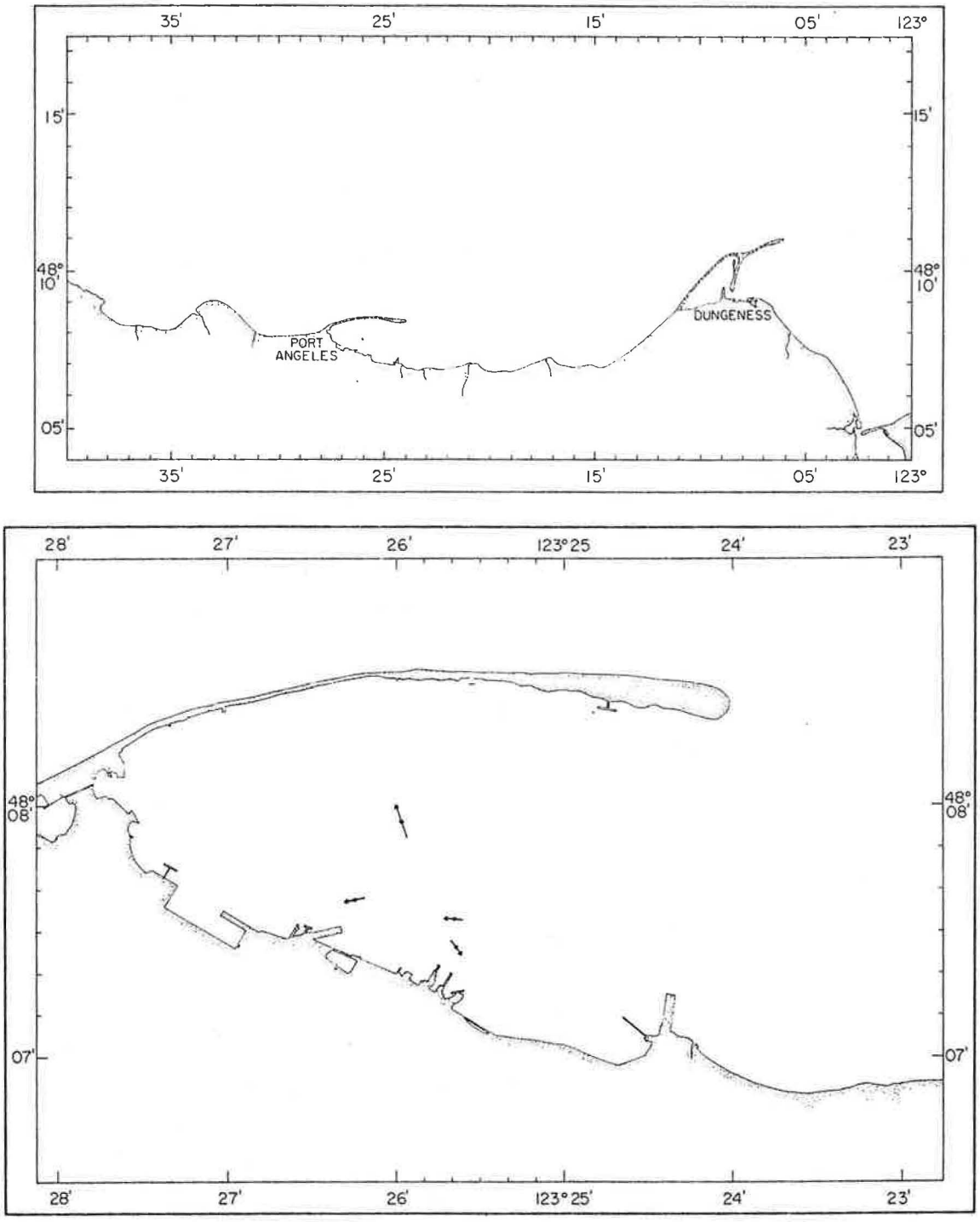


Plate 3a5. Spatial vector diagram at 1400, 23 April 1978.

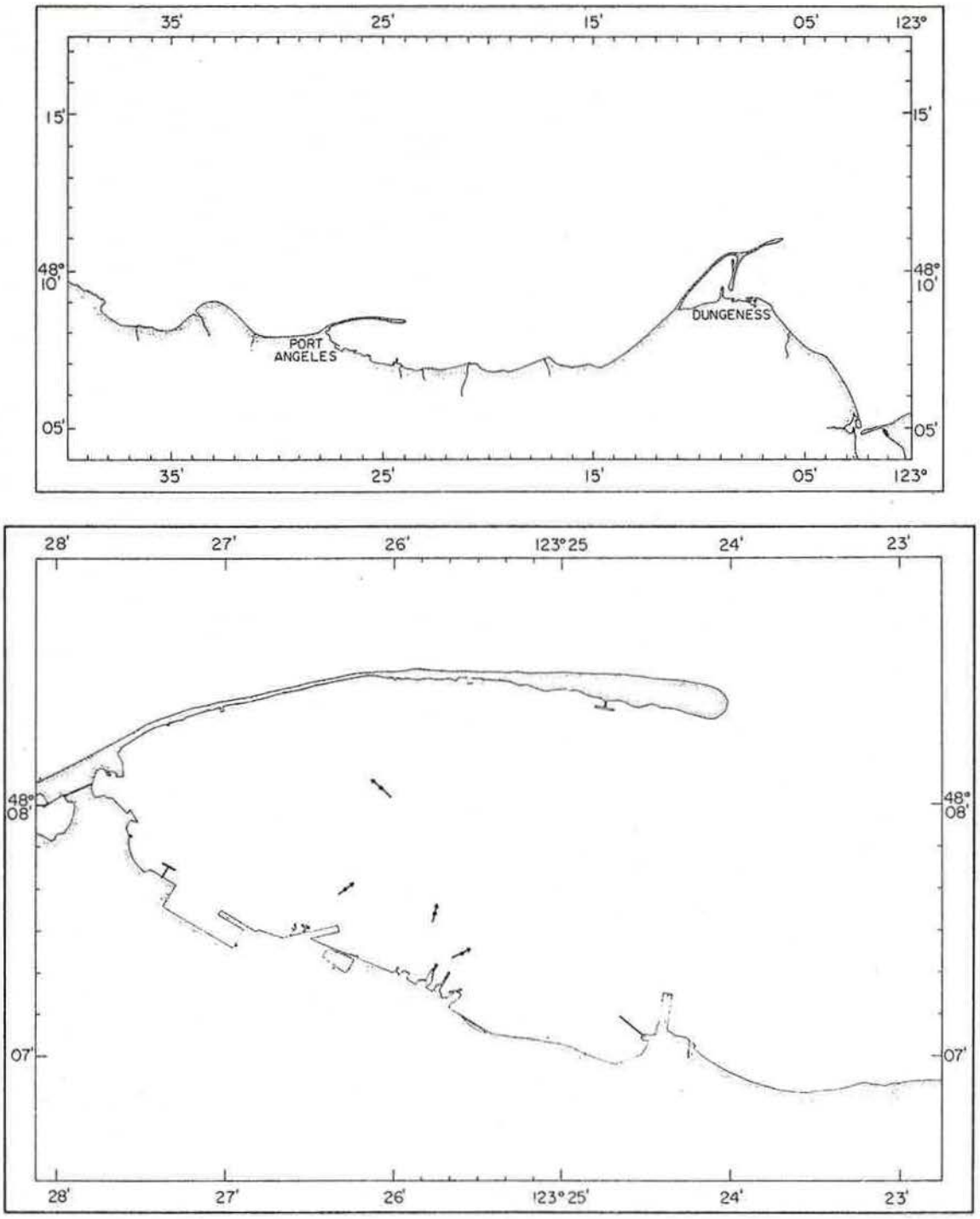


Plate 3a6. Spatial vector diagram at 1500, 23 April 1978.

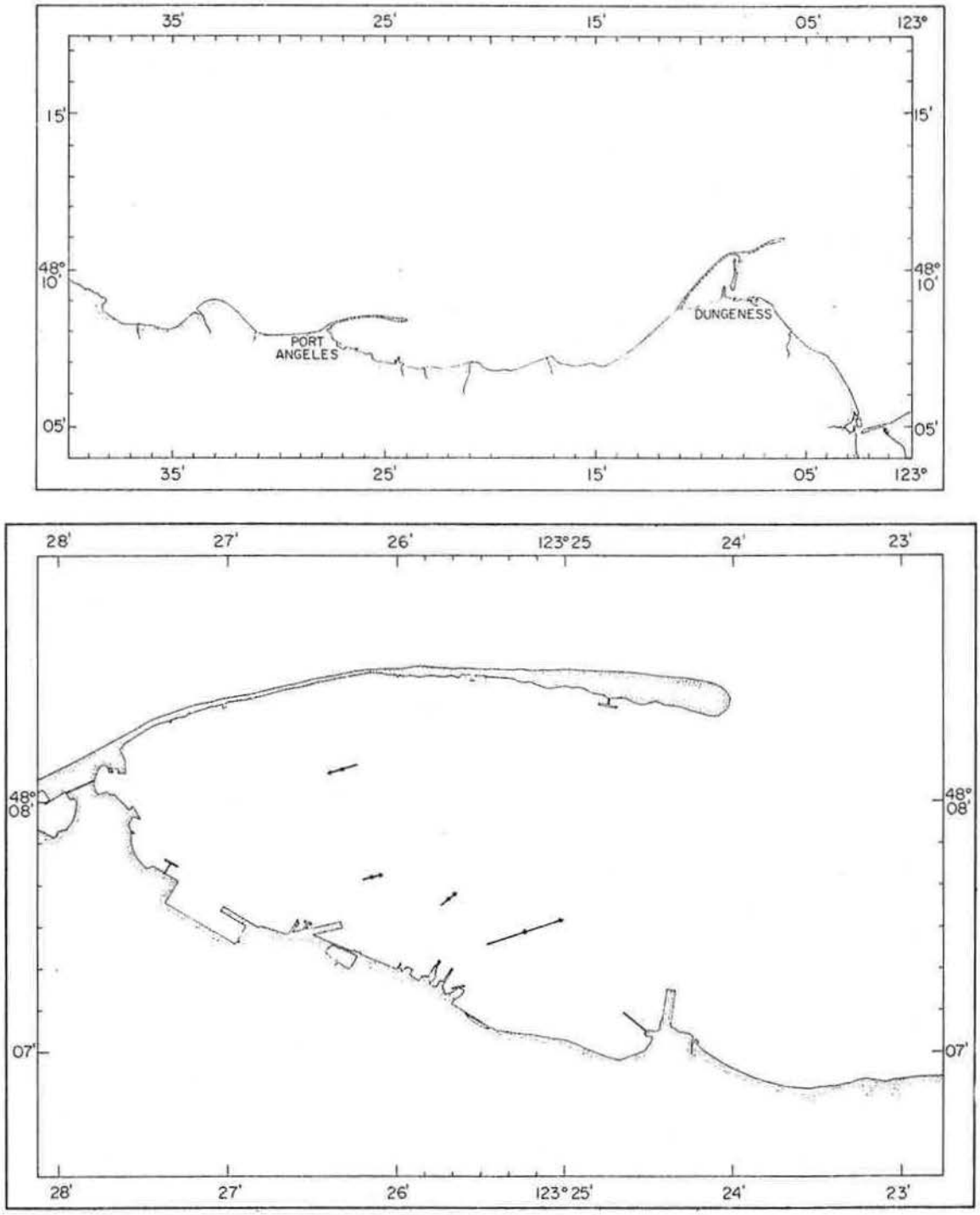


Plate 3a7. Spatial vector diagram at 1600, 23 April 1978.

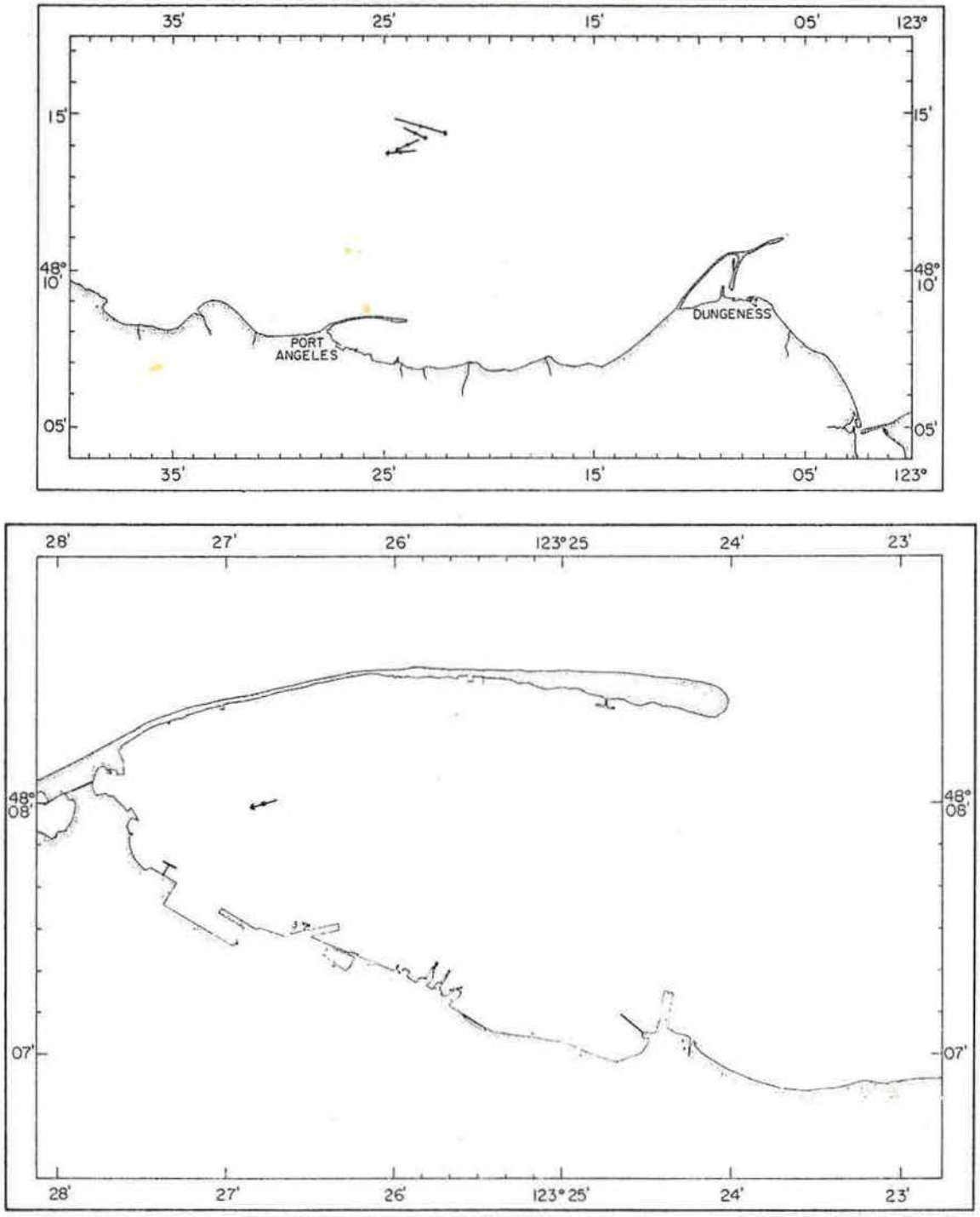


Plate 3a8. Spatial vector diagram at 1700, 23 April 1978.

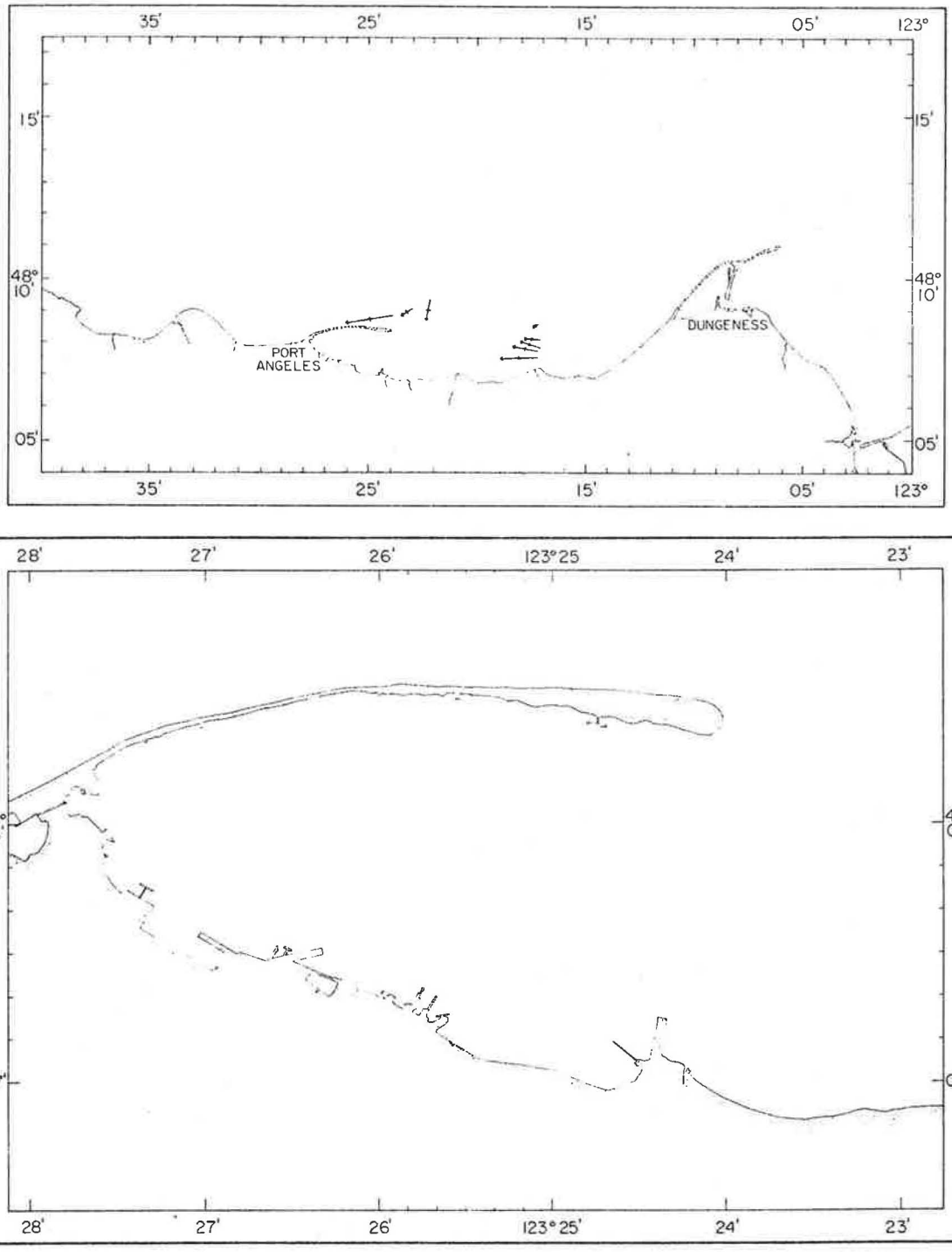


Plate 3a9. Spatial vector diagram at 1800, 23 April 1978.

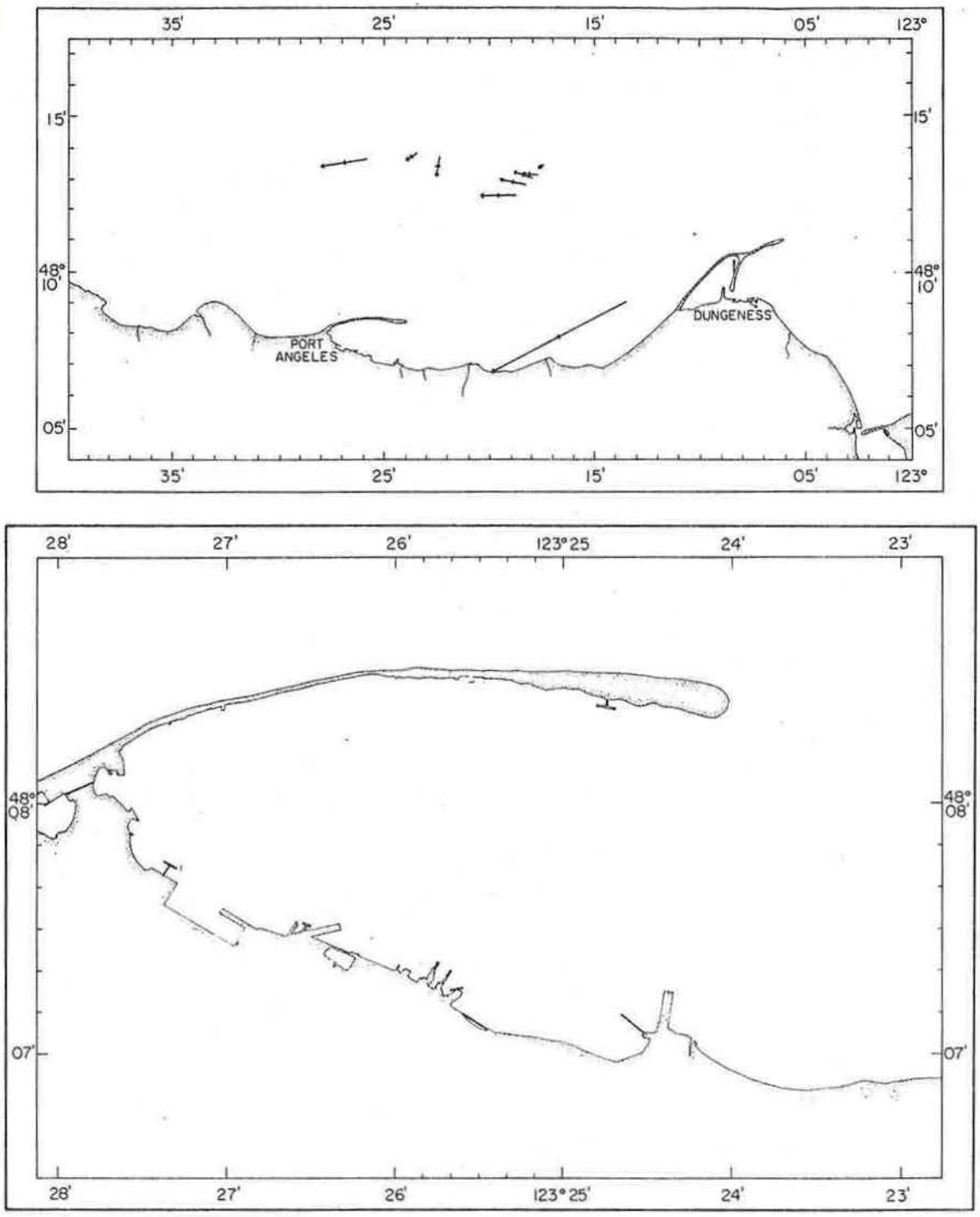


Plate 3a10. Spatial vector diagram at 1900, 23 April 1978.

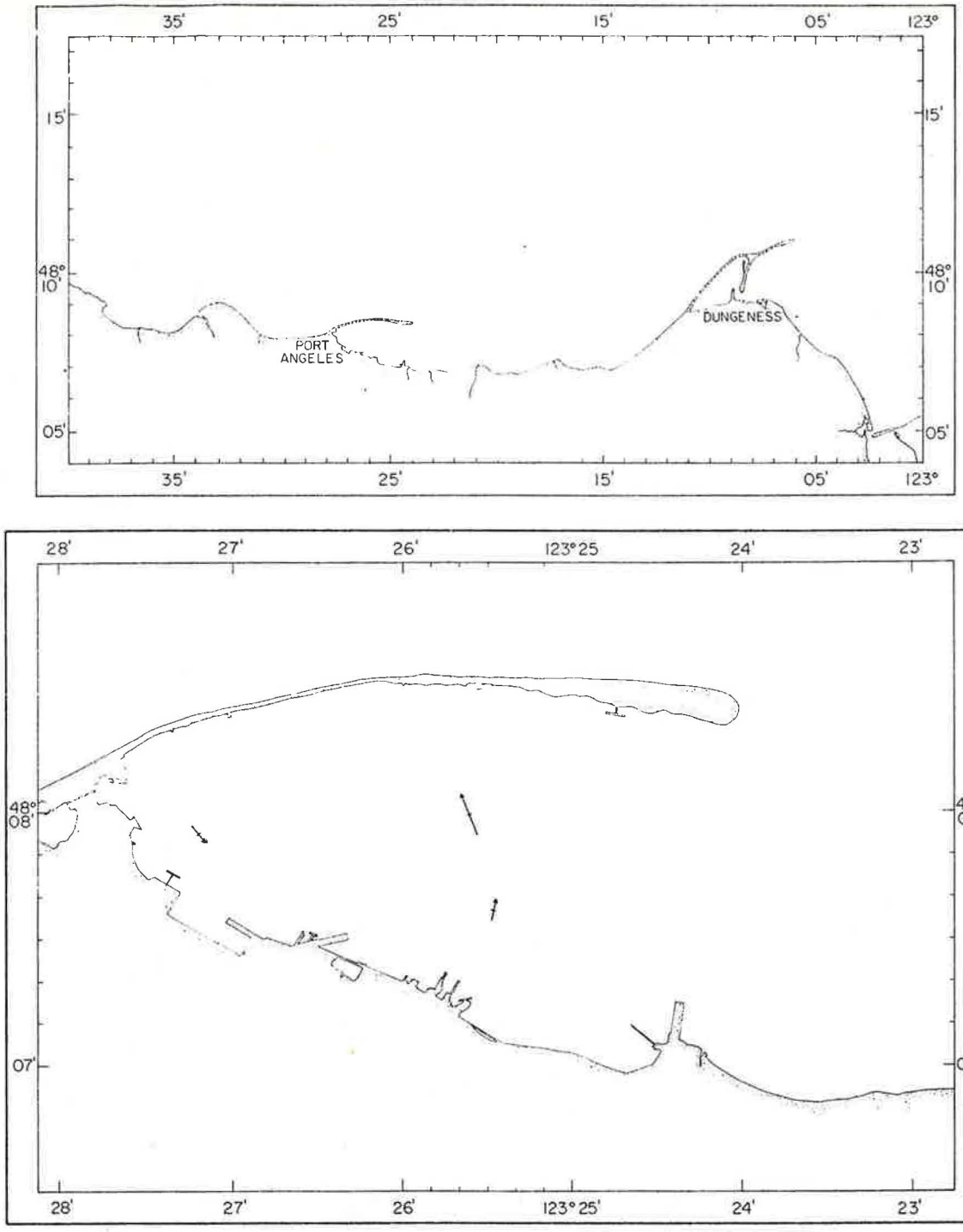


Plate 3b1. Spatial vector diagram at 0700, 24 April 1978.

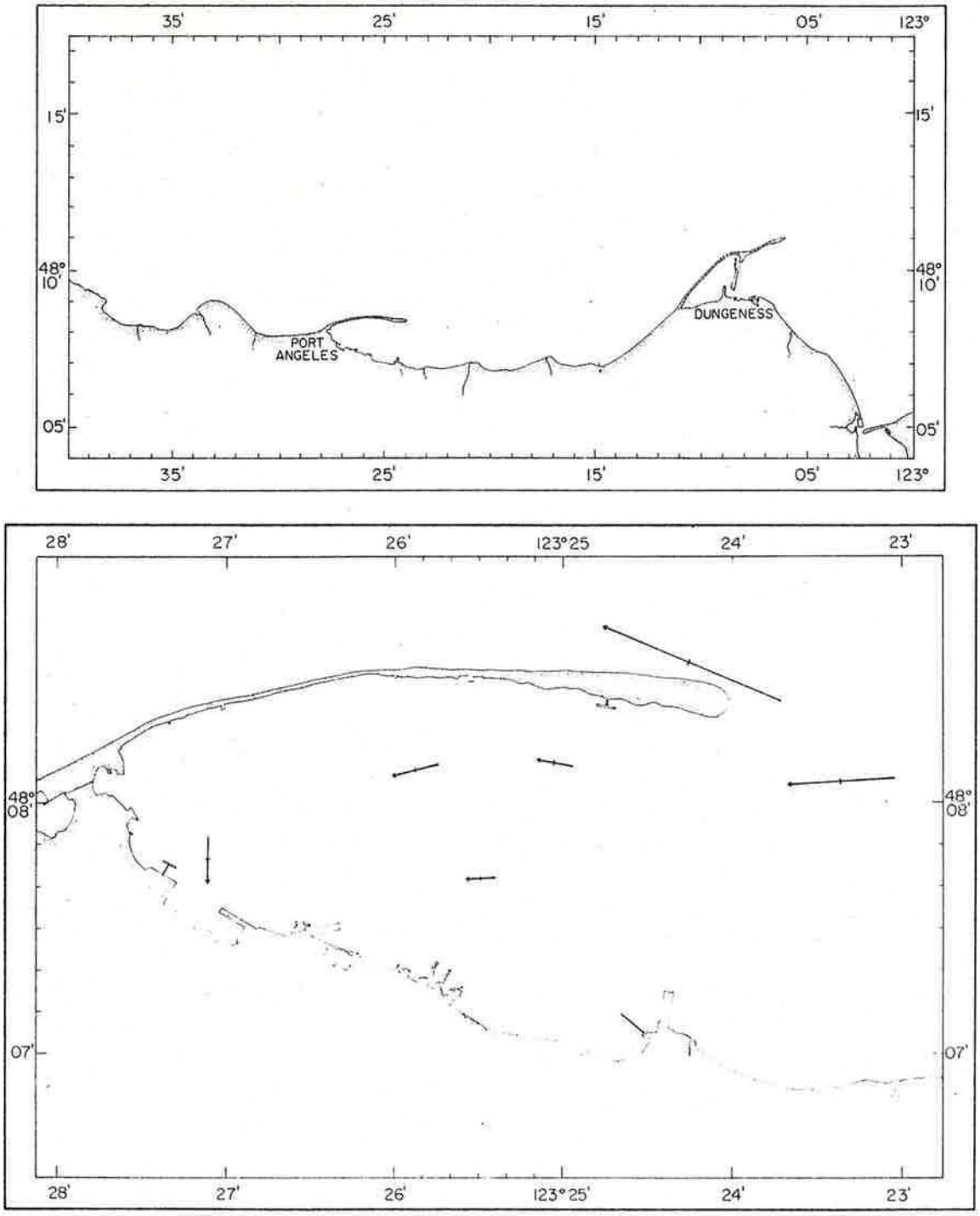


Plate 3b2. Spatial vector diagram at 0800, 24 April 1978.

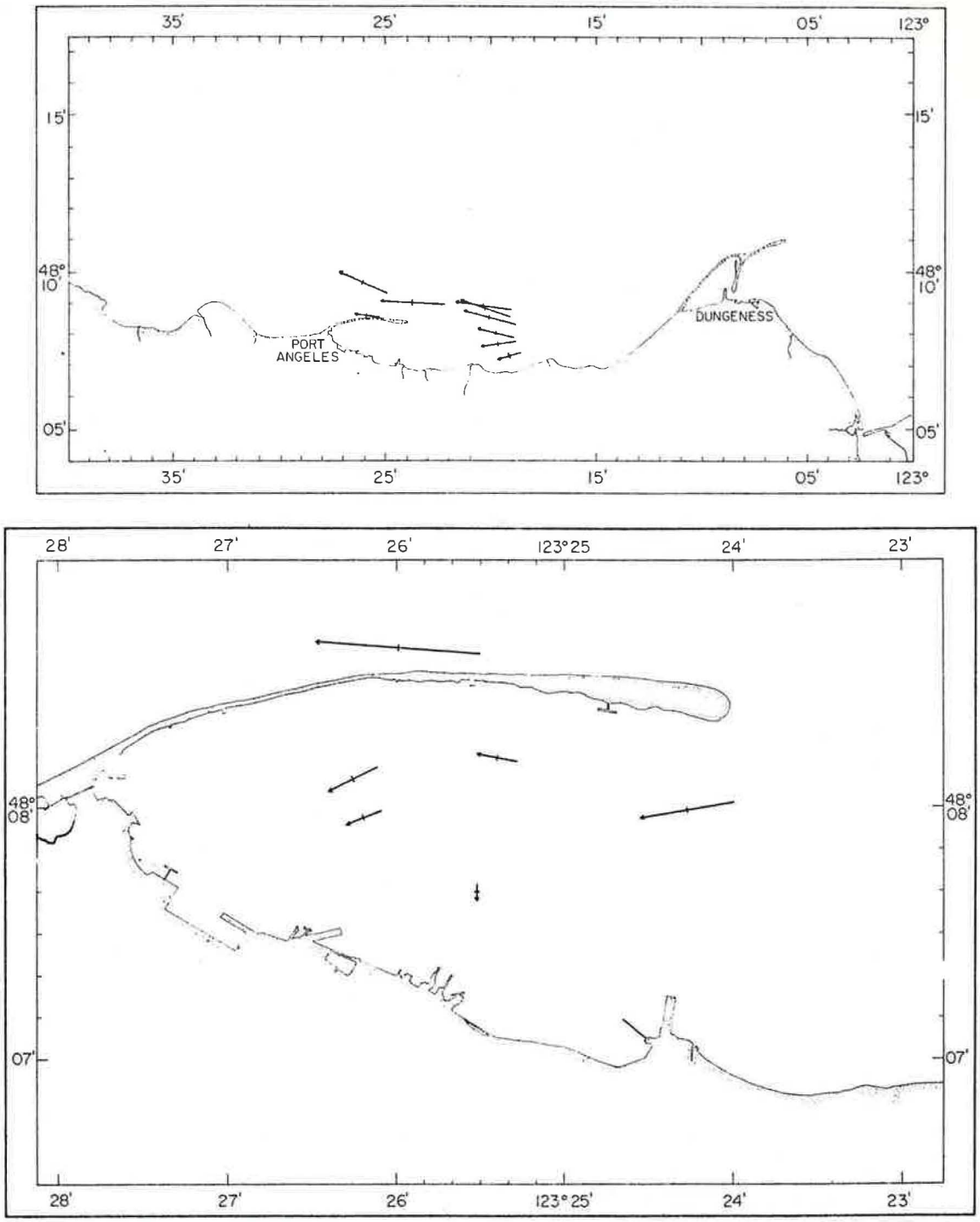


Plate 3b3. Spatial vector diagram at 0900, 24 April 1978.

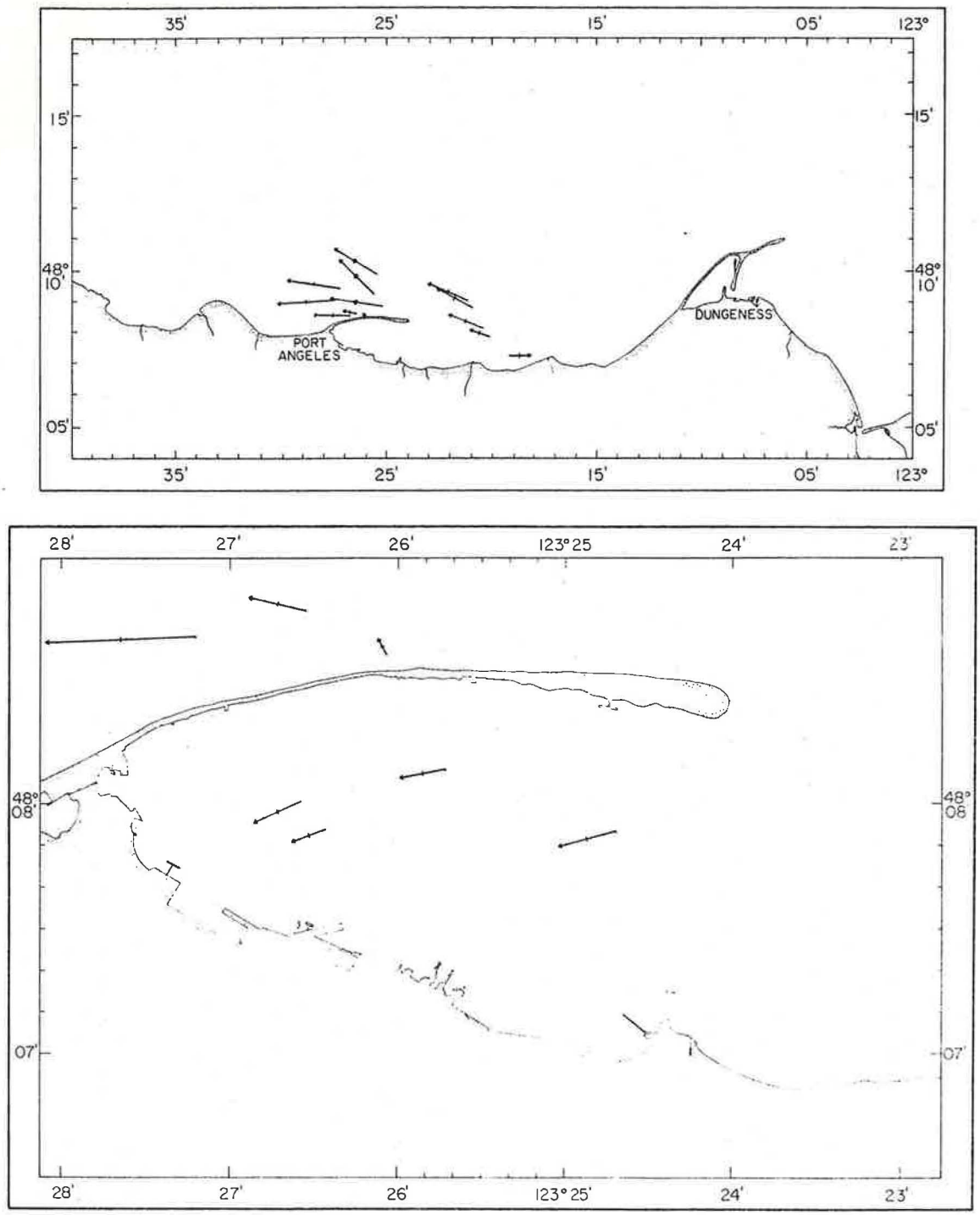


Plate 3b4. Spatial vector diagram at 1000, 24 April 1978.

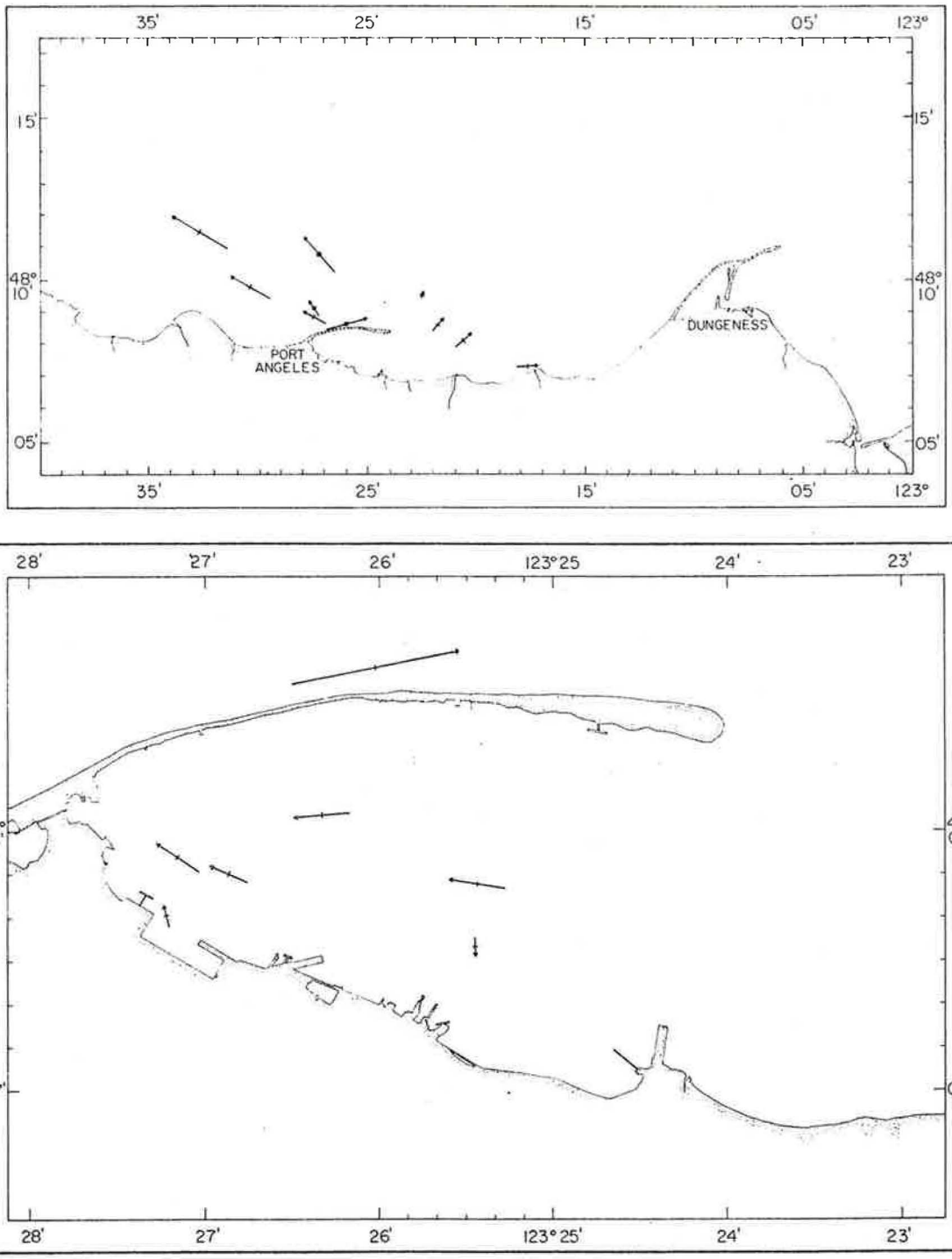
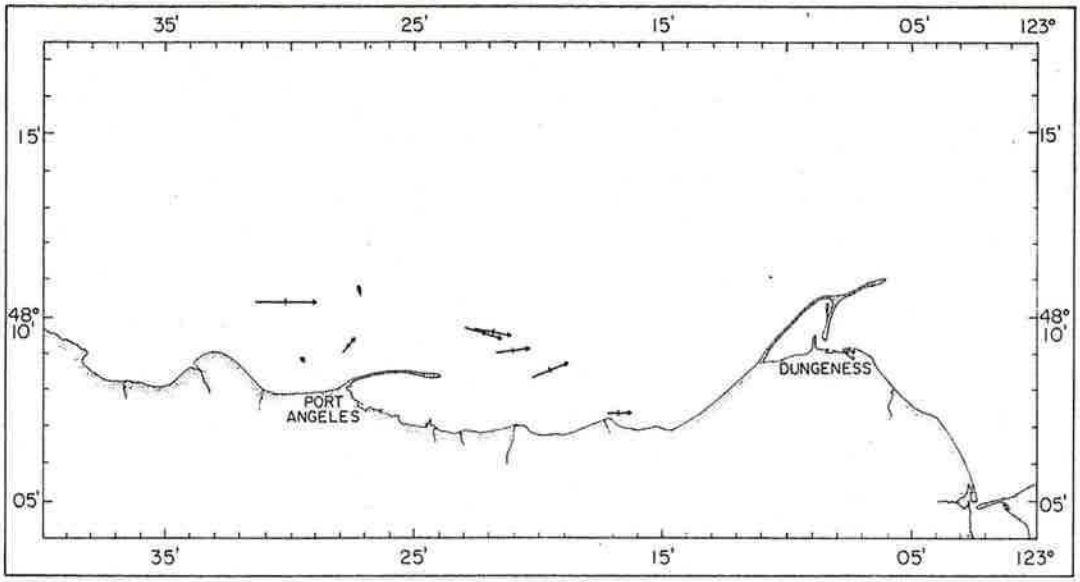


Plate 3b5. Spatial vector diagram at 1100, 24 April 1978.



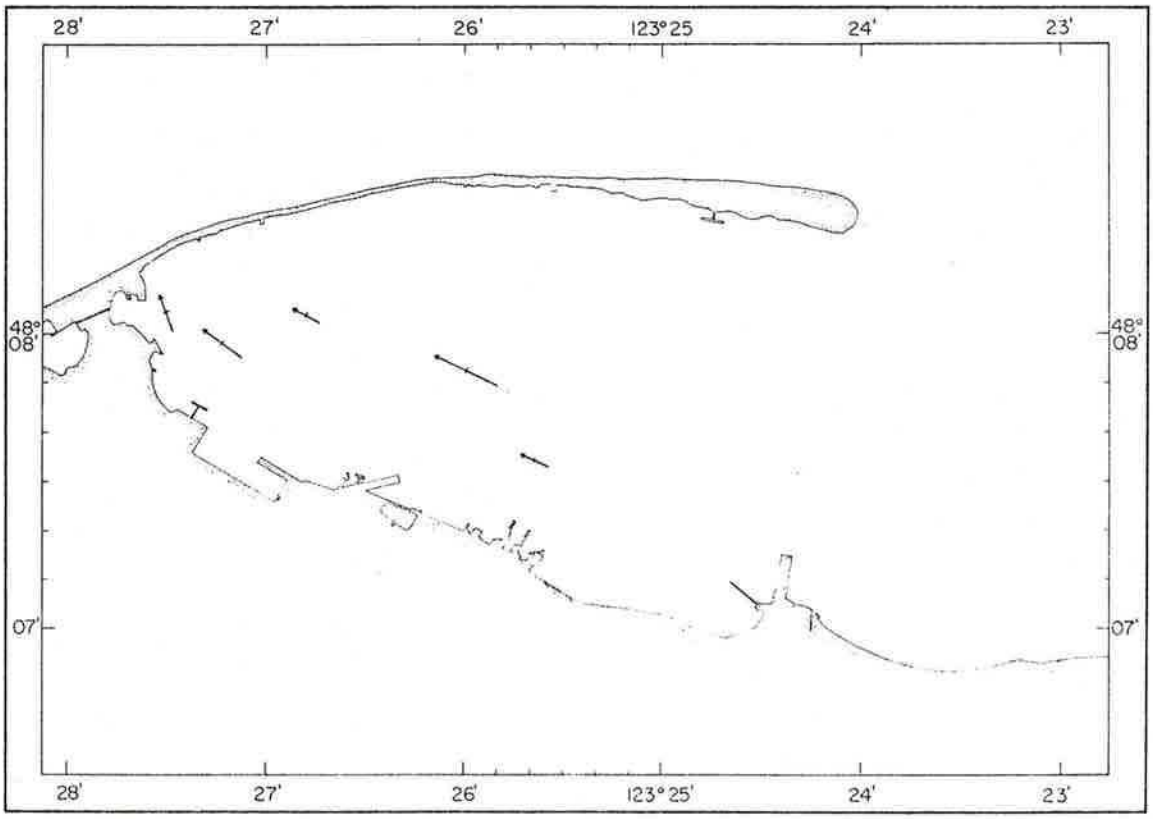


Plate 3b6. Spatial vector diagram at 1200, 24 April 1978.

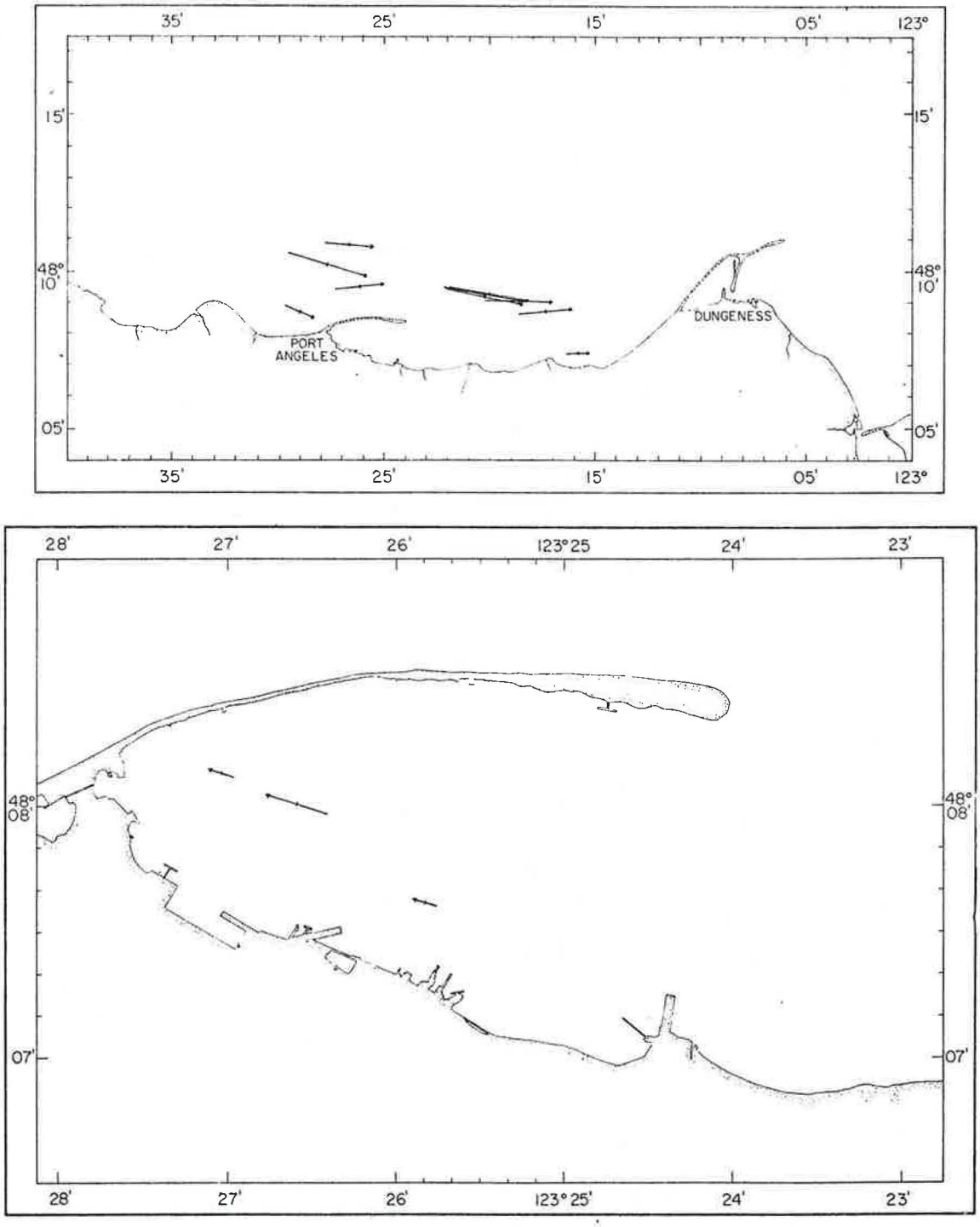


Plate 3b7. Spatial vector diagram at 1300, 24 April 1978.

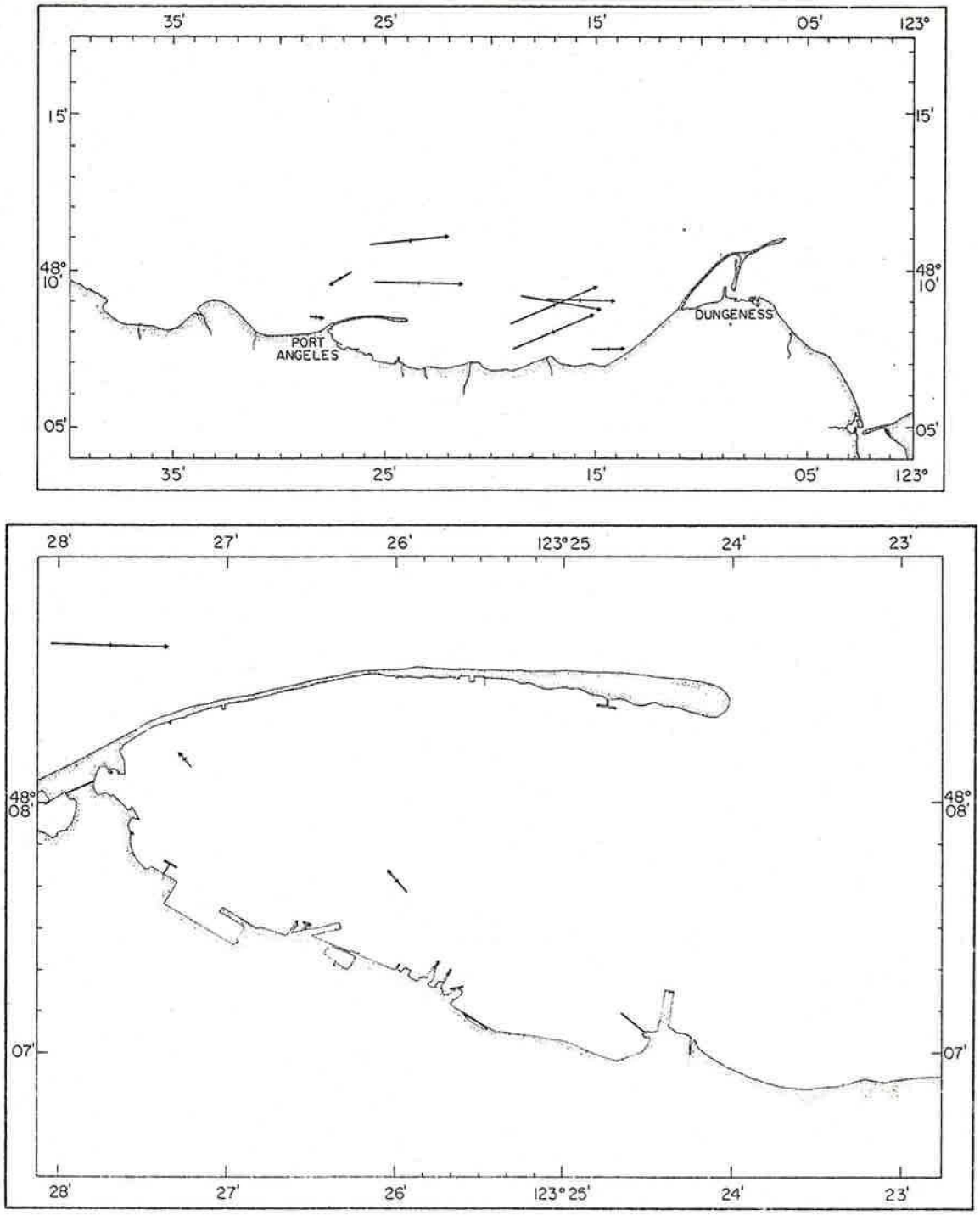


Plate 3b8. Spatial vector diagram at 1400, 24 April 1978.

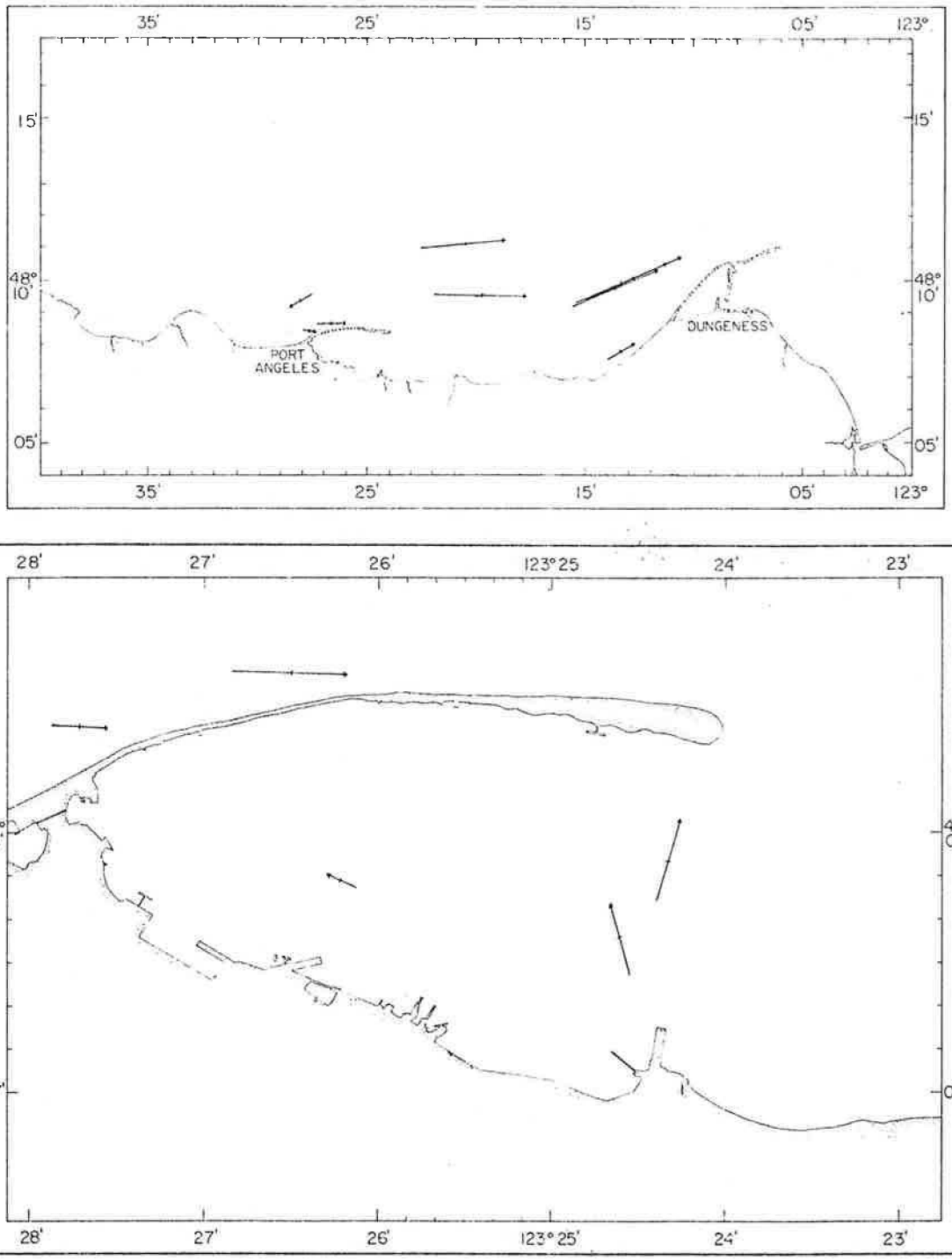


Plate 3b9. Spatial vector diagram at 1500, 24 April 1978.

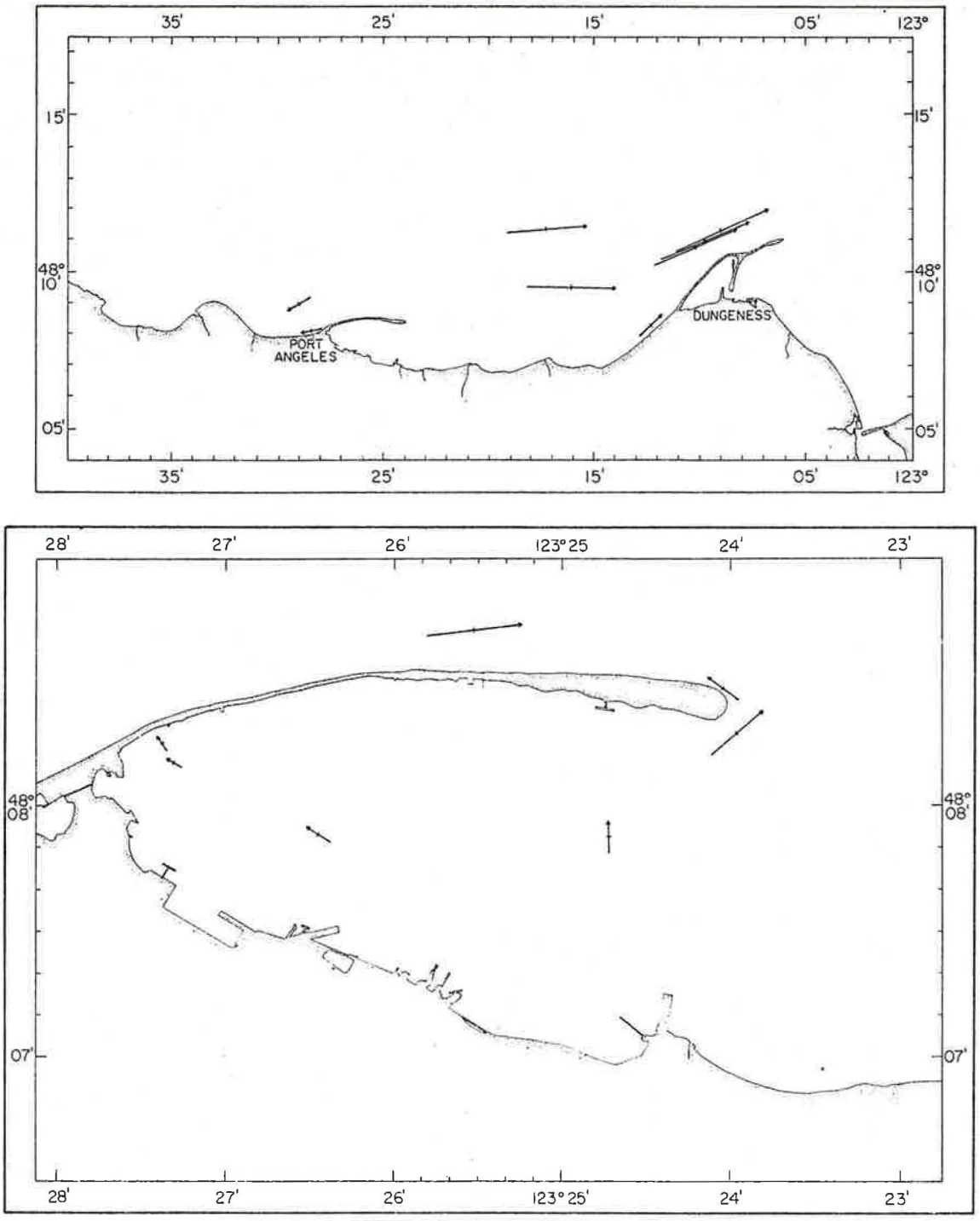


Plate 3b10. Spatial vector diagram at 1600, 24 April 1978.

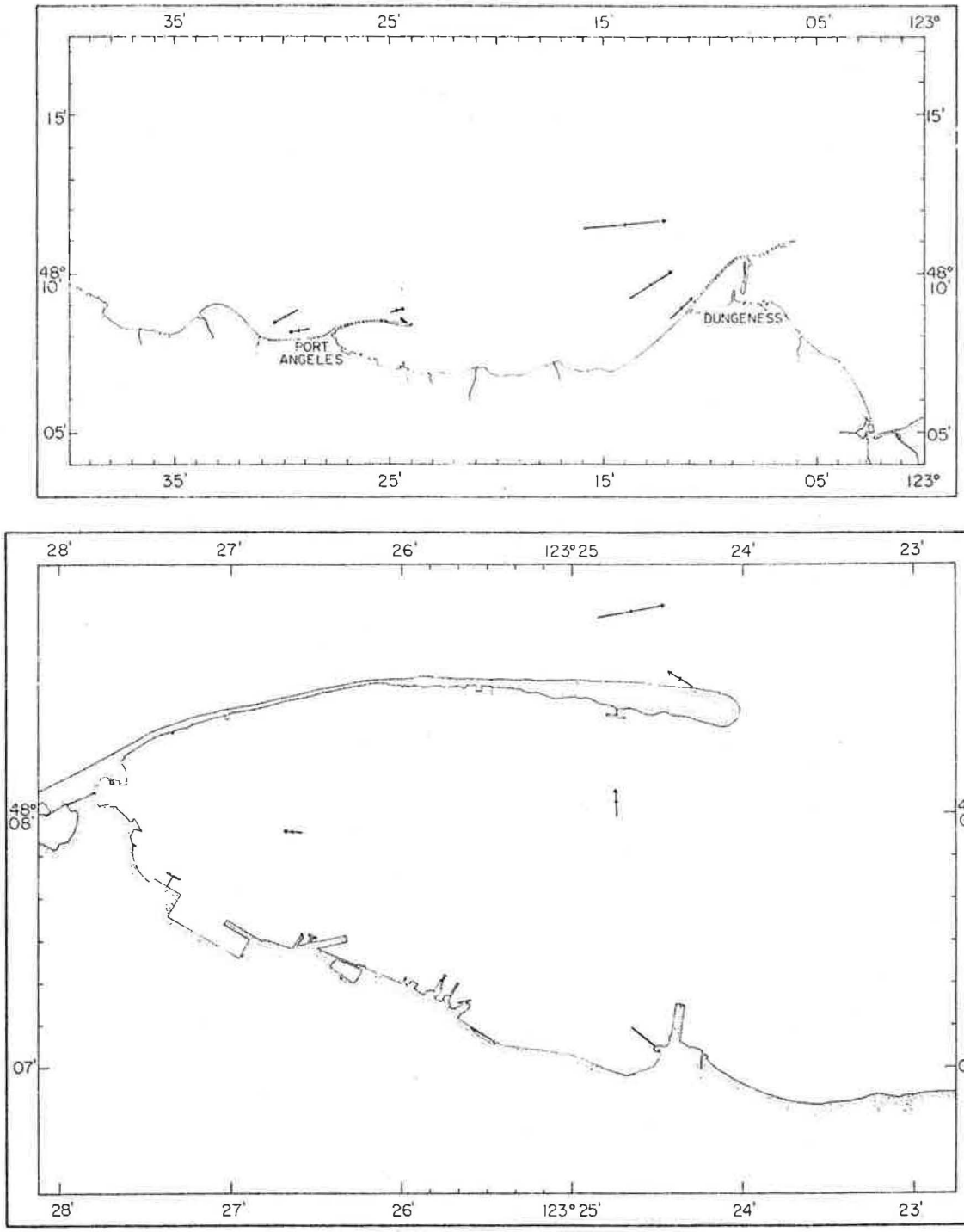


Plate 3b11. Spatial vector diagram at 1700, 24 April 1978.

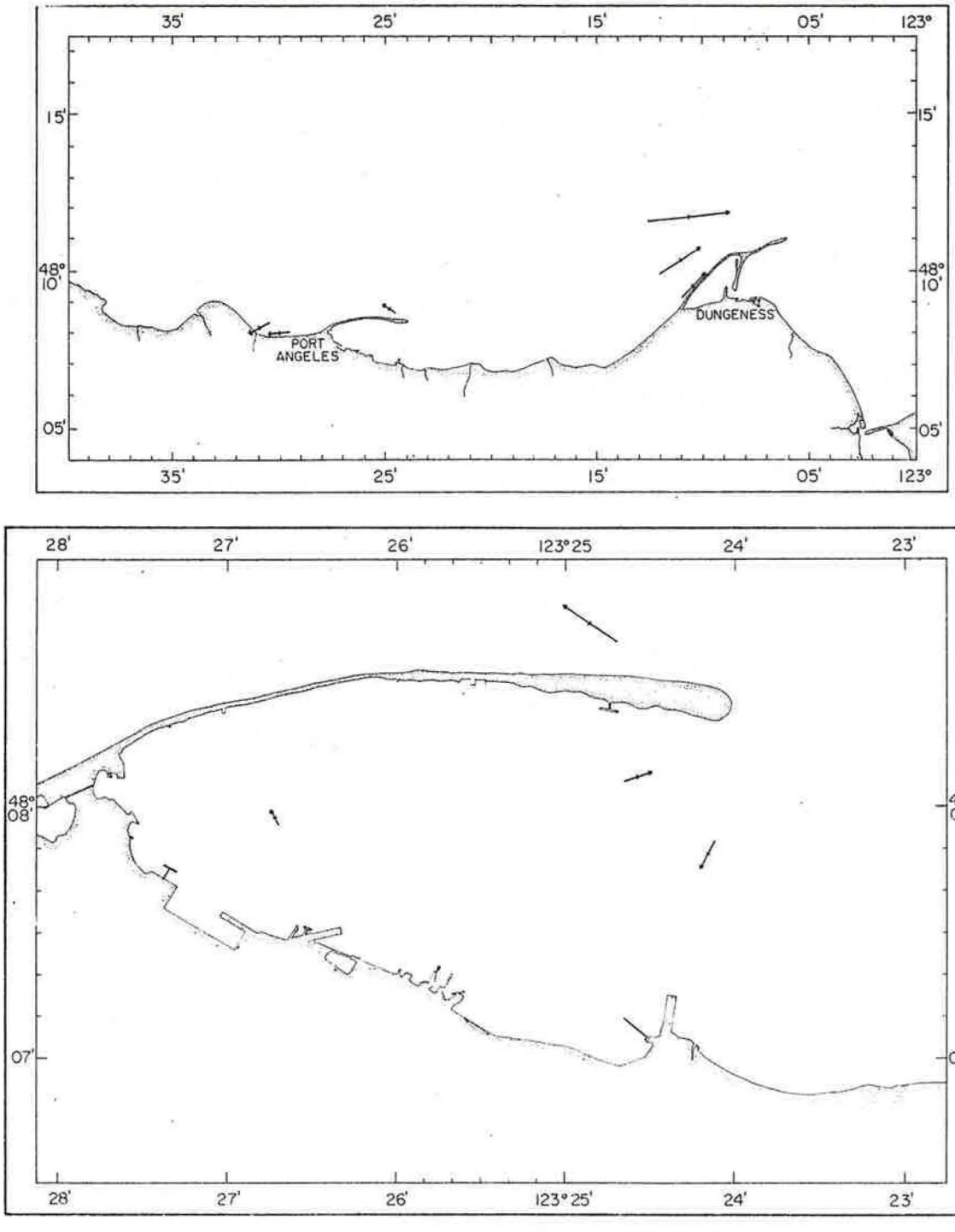
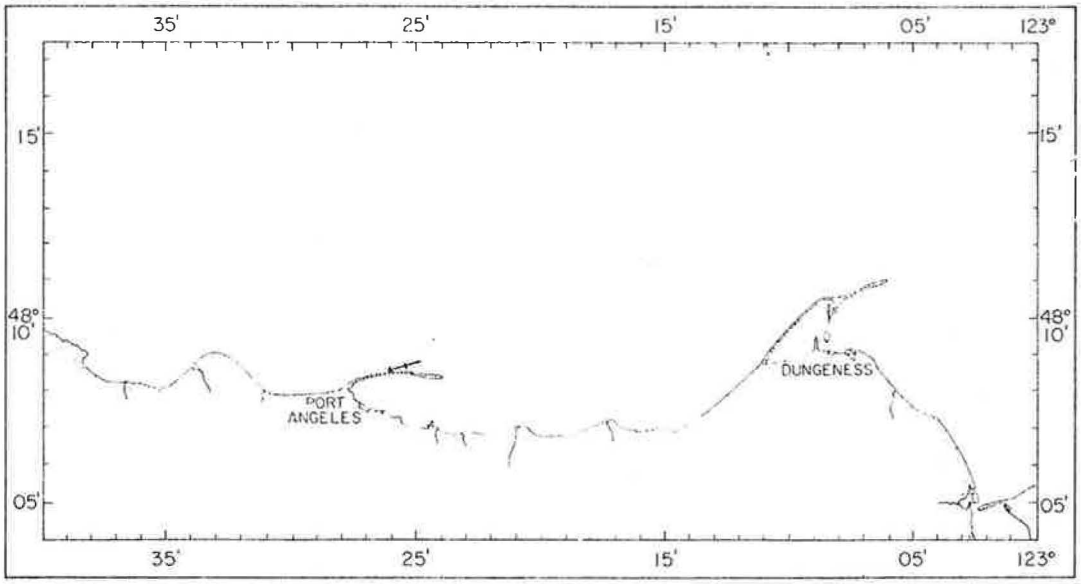


Plate 3b12. Spatial vector diagram at 1800, 24 April 1978.



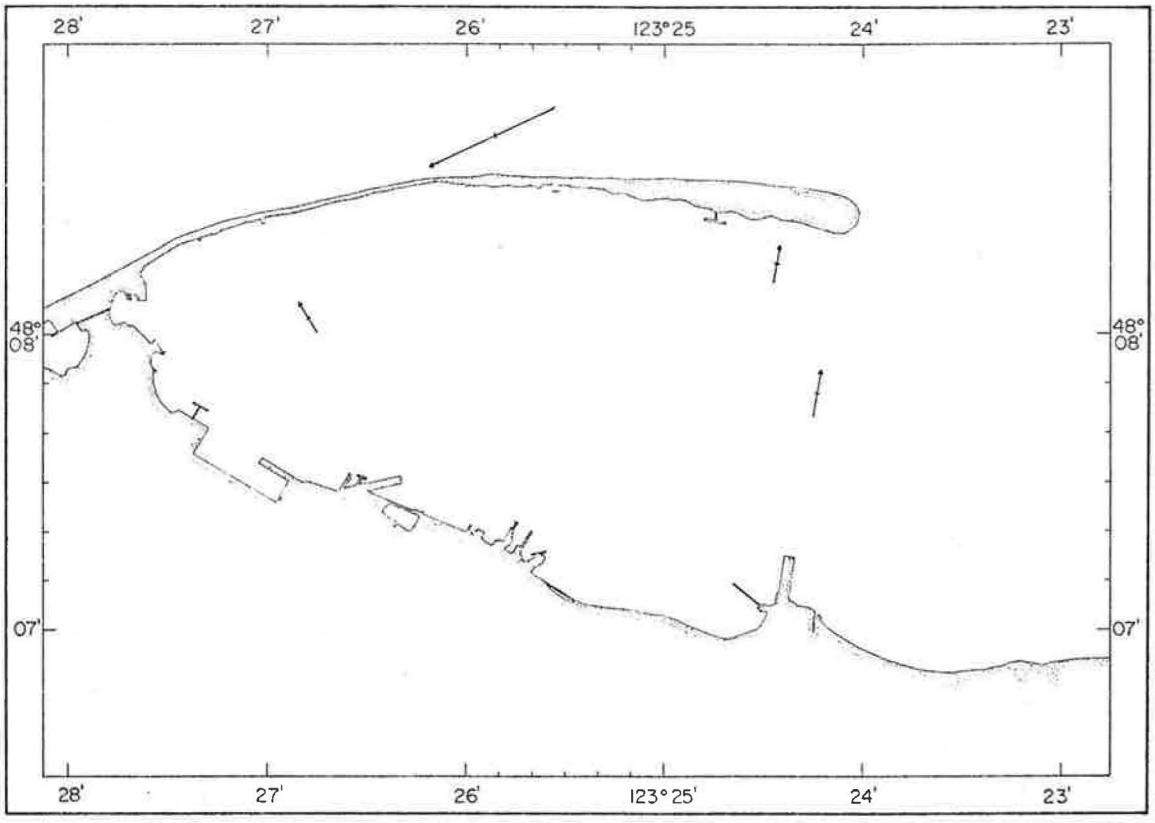


Plate 3b13. Spatial vector diagram at 1900, 24 April 1978.

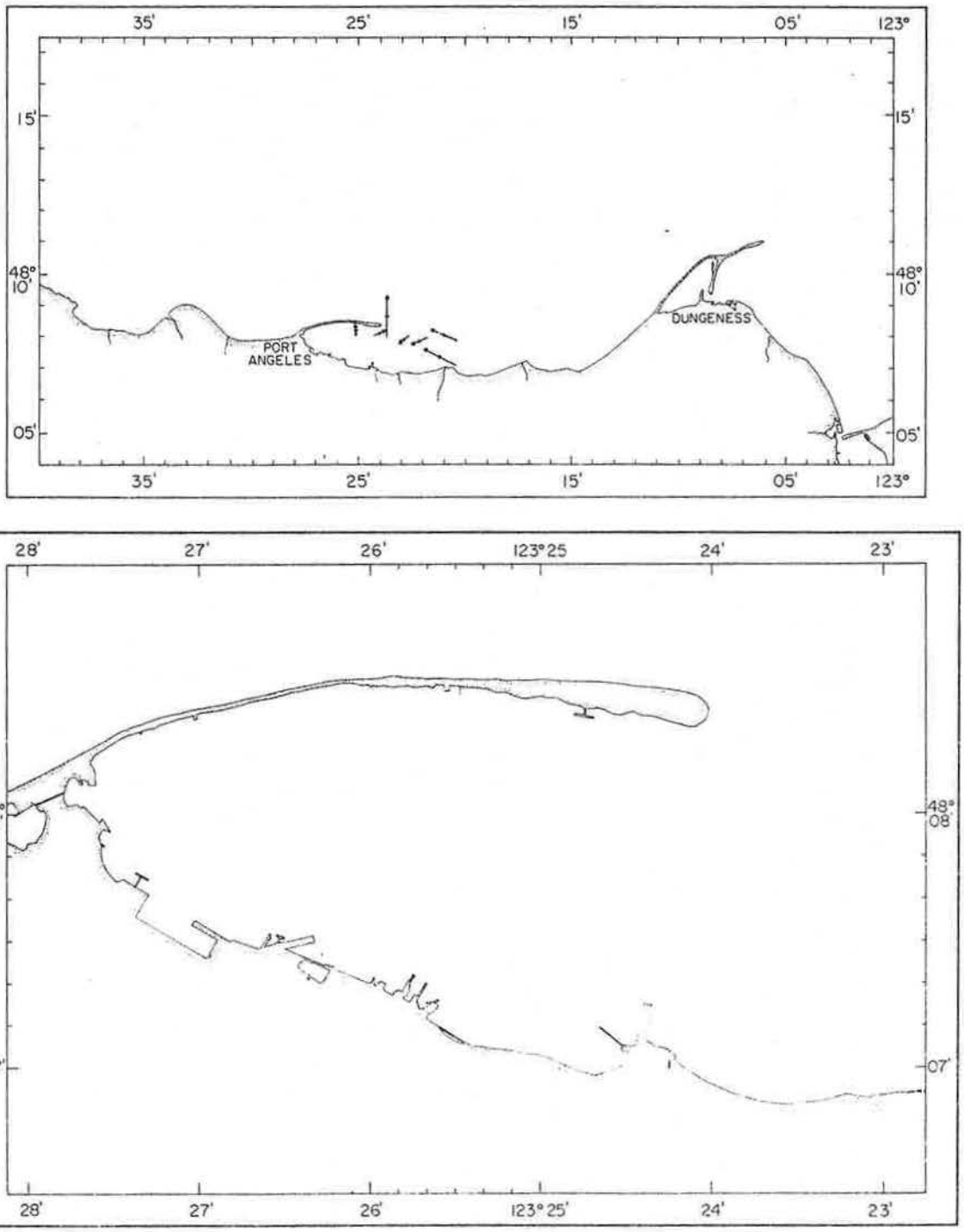


Plate 3c1. Spatial vector diagram at 0700, 25 April 1978.

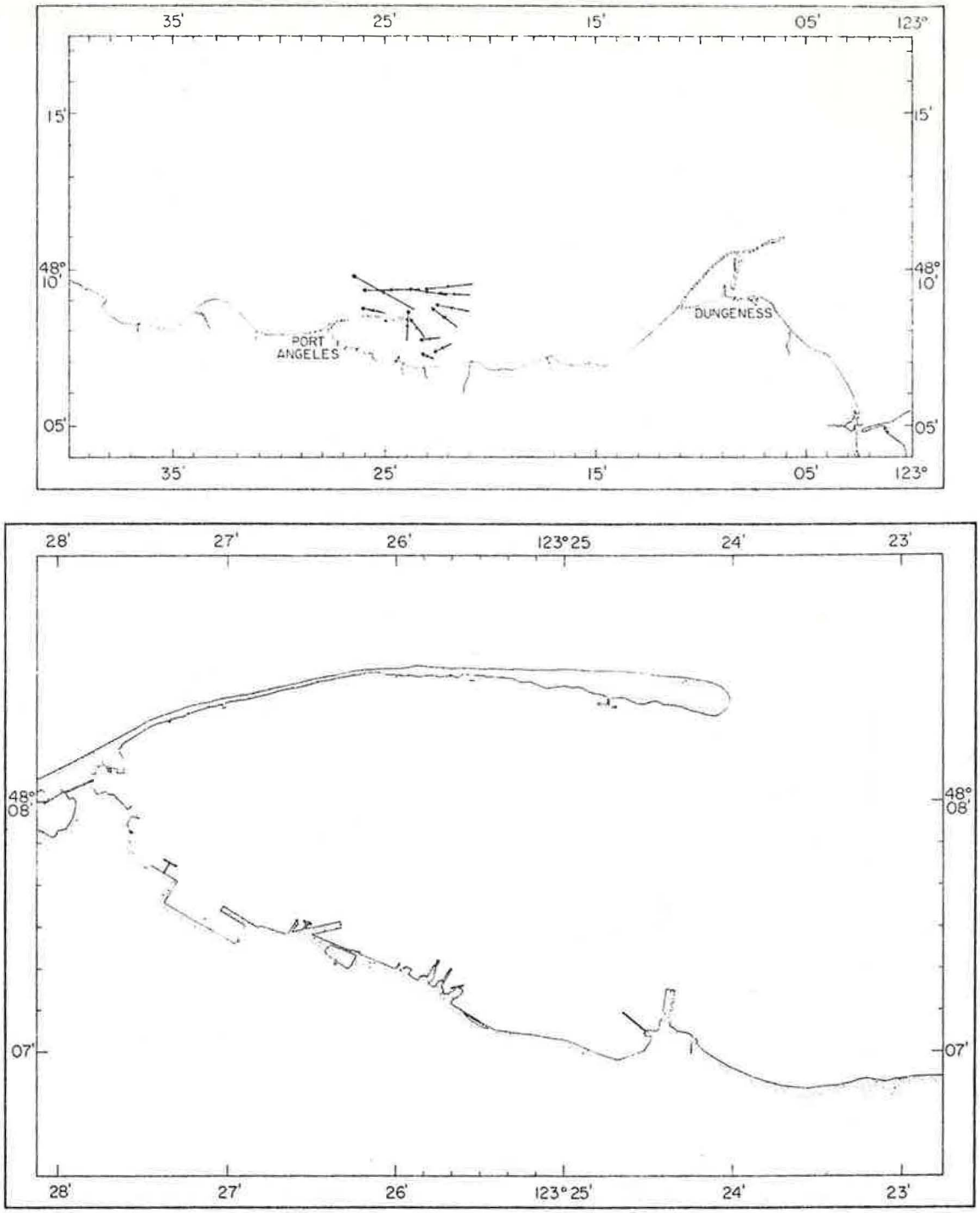
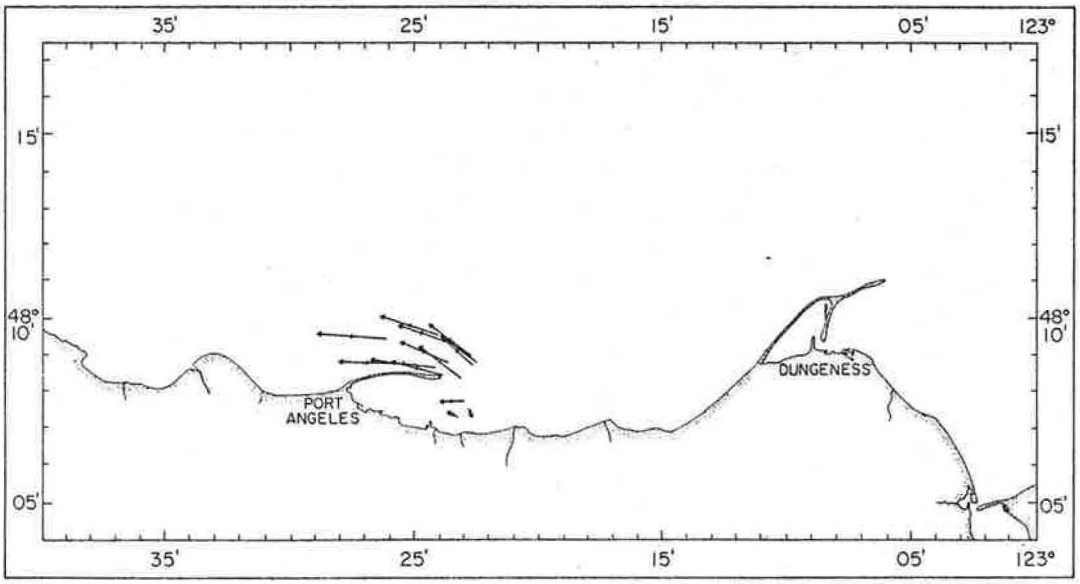


Plate 3c2. Spatial vector diagram at 0800, 25 April 1978.



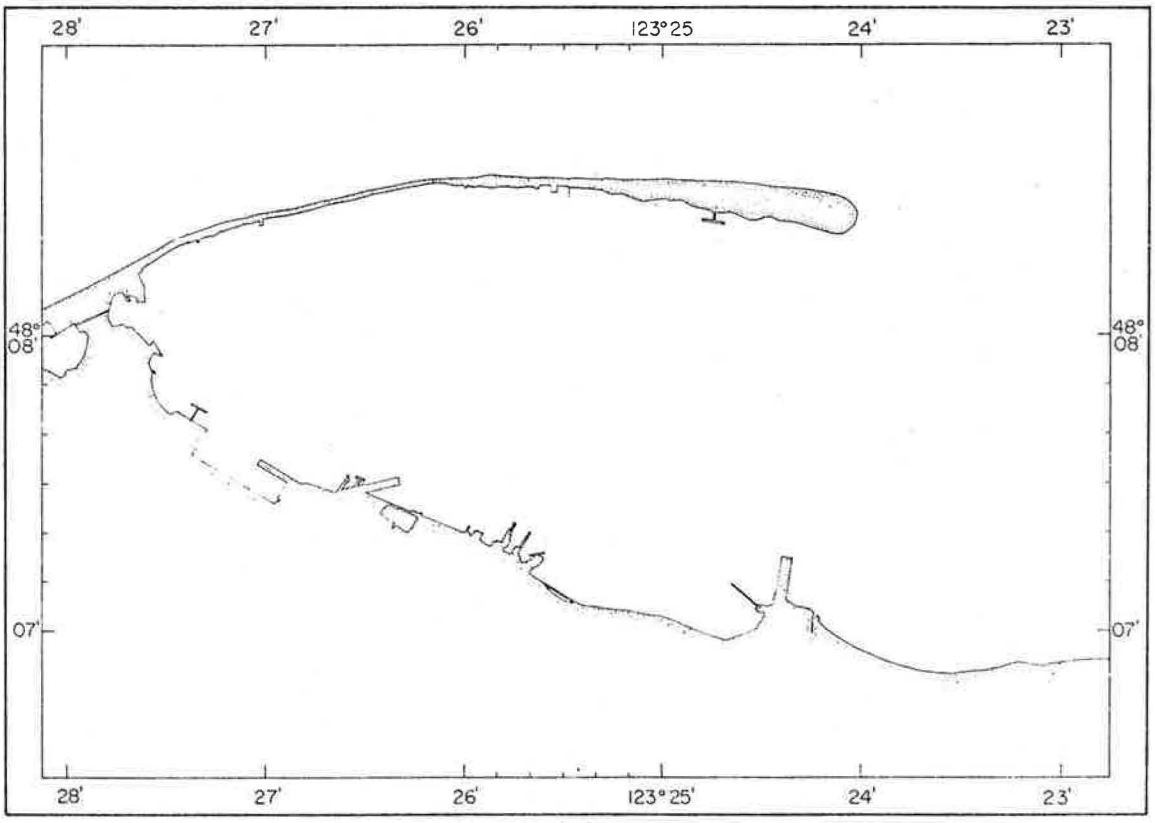


Plate 3c3. Spatial vector diagram at 0900, 25 April 1978.

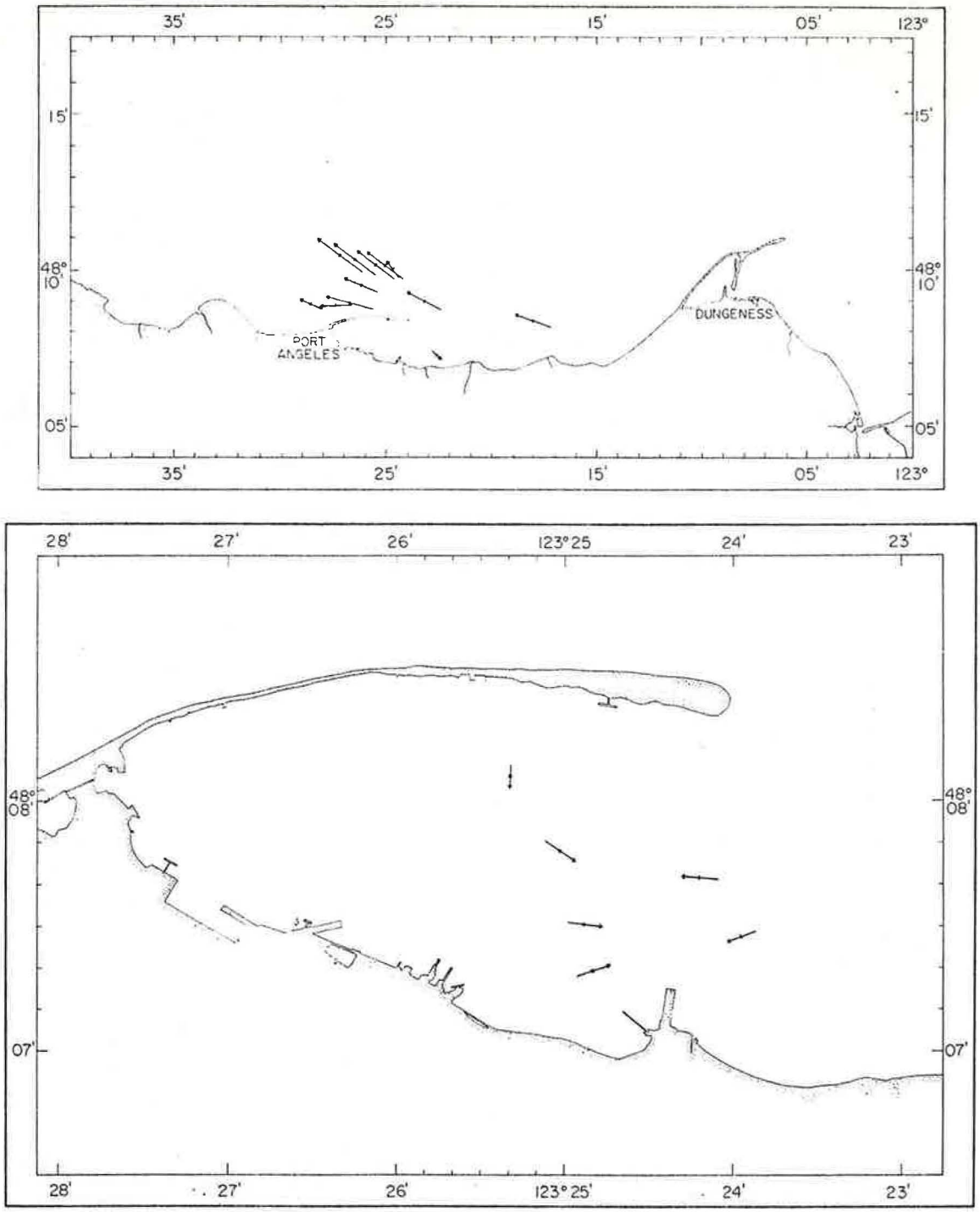
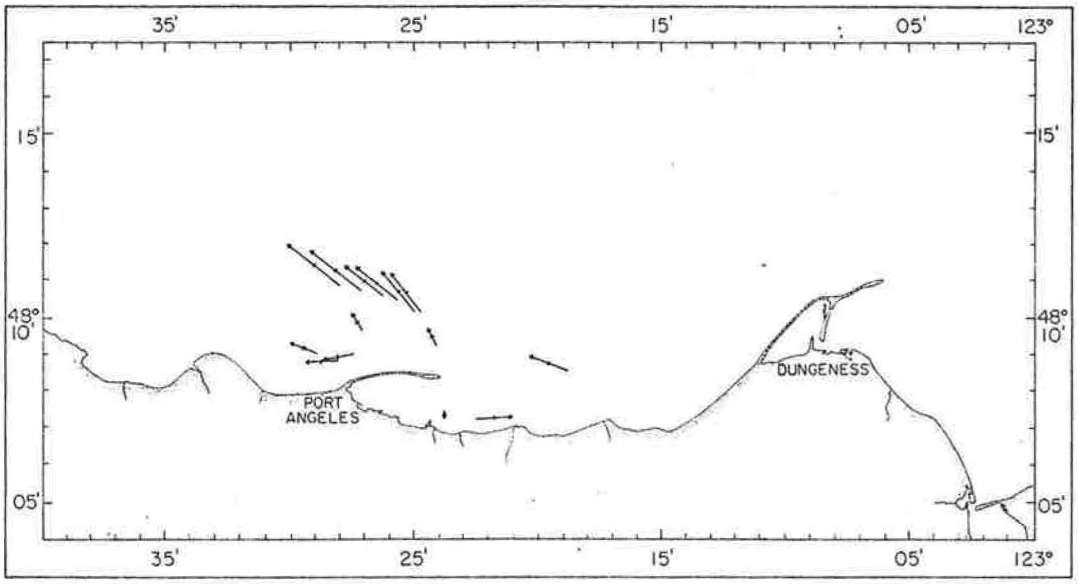


Plate 3c4. Spatial vector diagram at 1000, 25 April 1978.



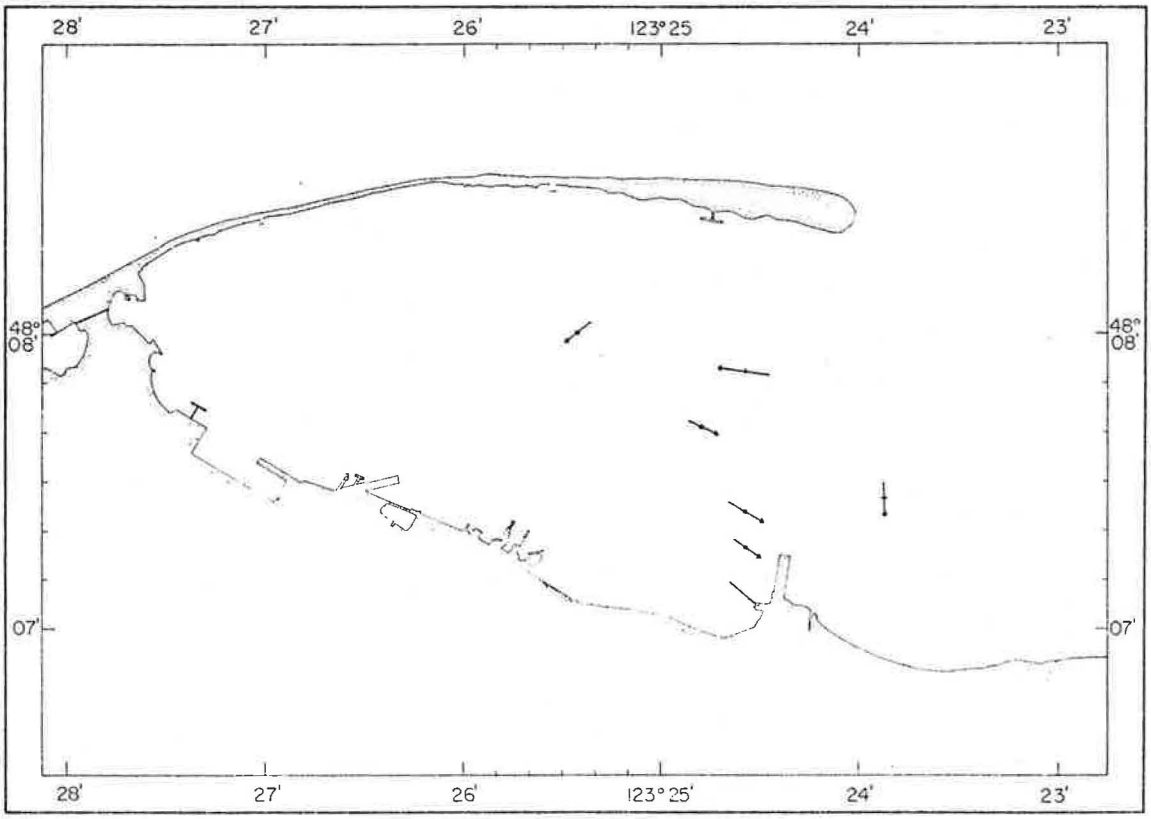


Plate 3c5. Spatial vector diagram at 1100, 25 April 1978.

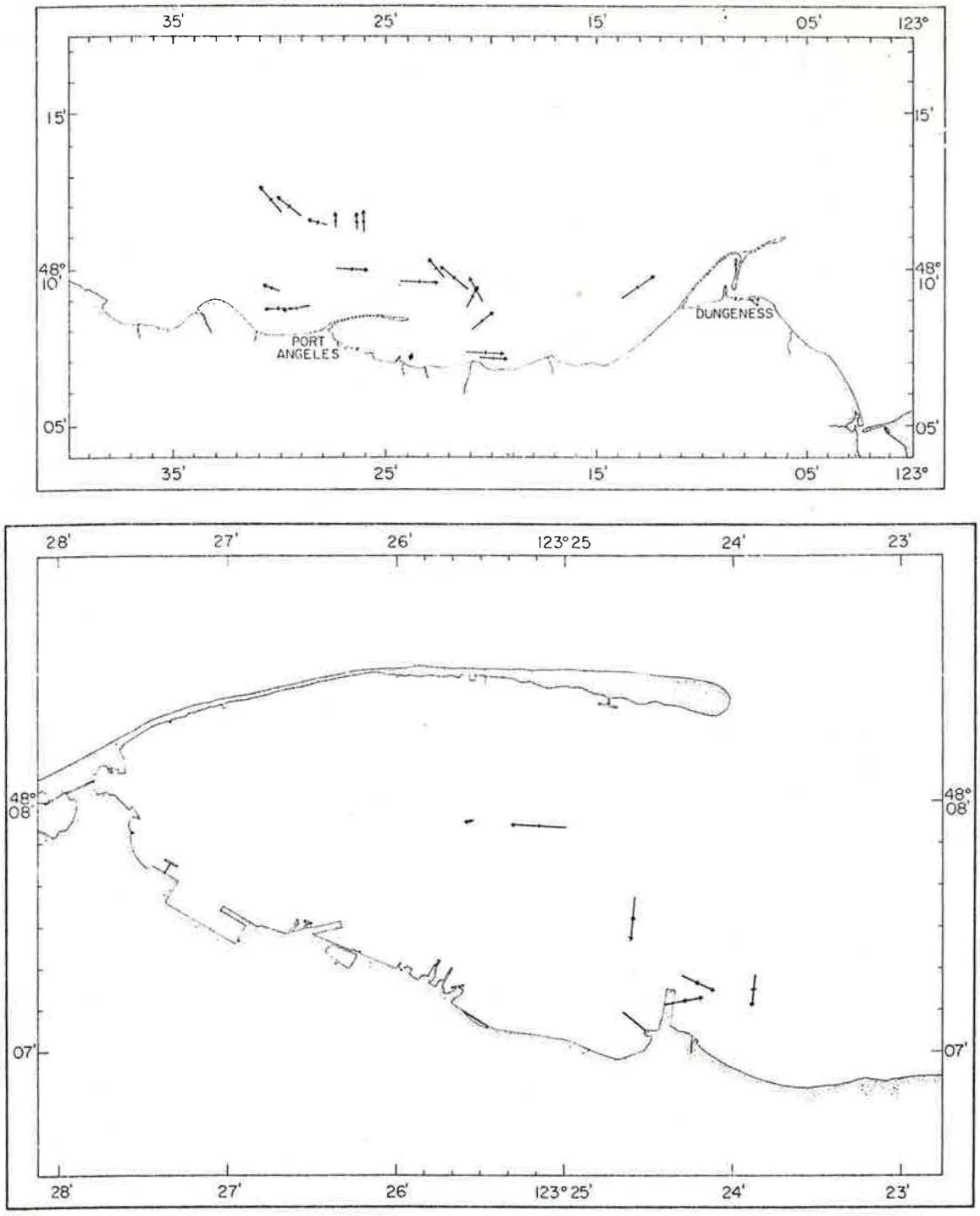


Plate 3c6. Spatial vector diagram at 1200, 25 April 1978

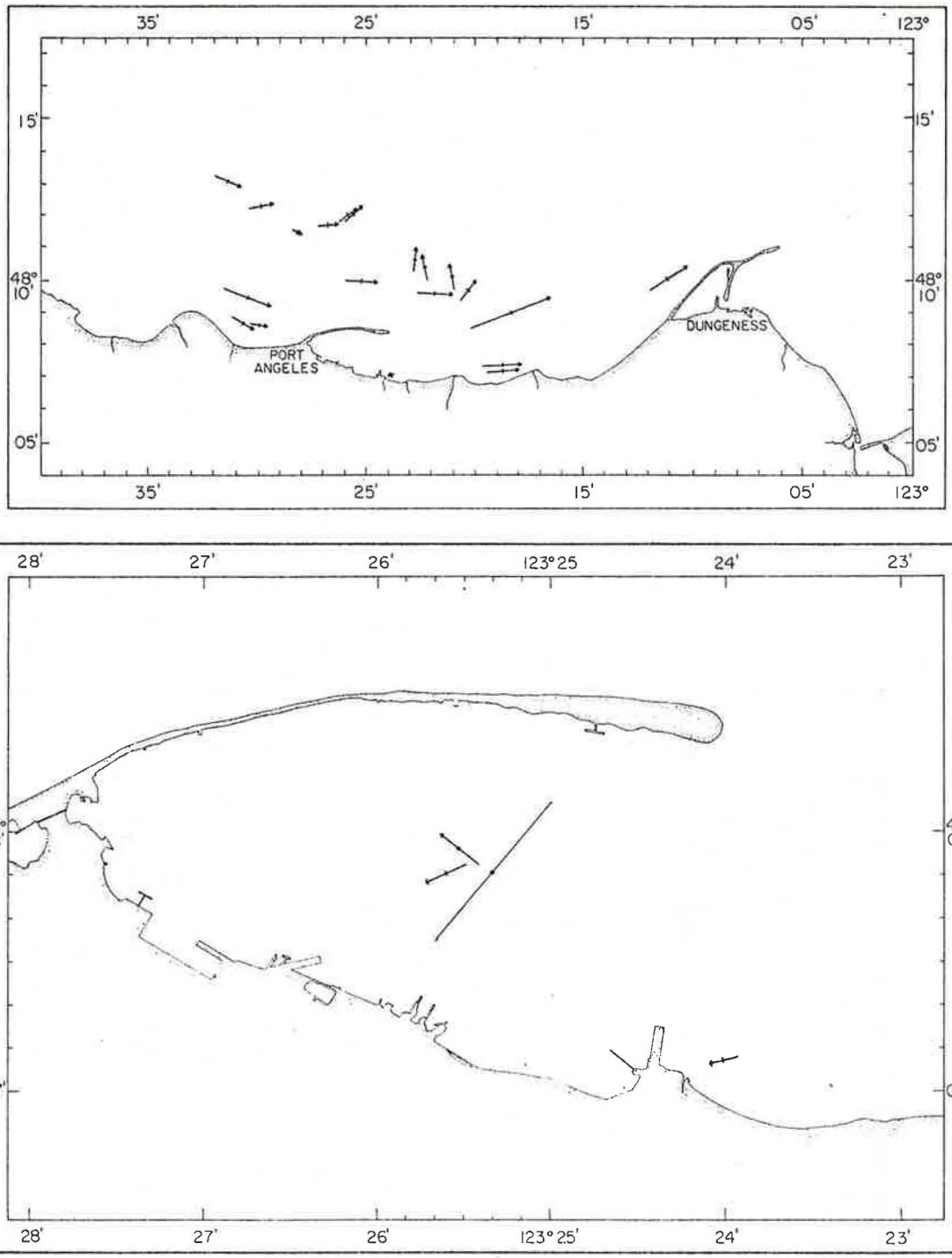


Plate 3c7. Spatial vector diagram at 1300, 25 April 1978.

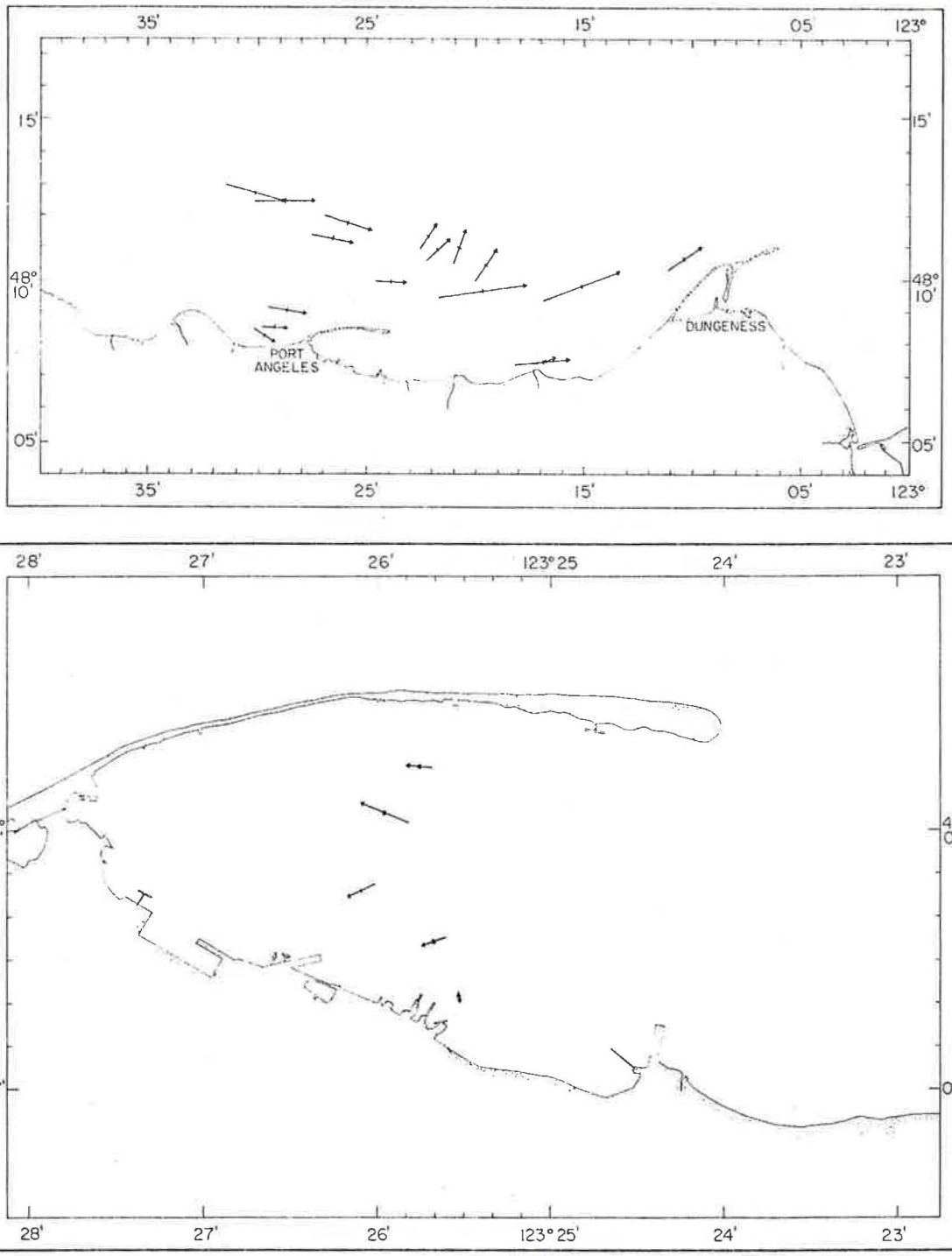


Plate 3c8. Spatial vector diagram at 1400, 25 April 1978.

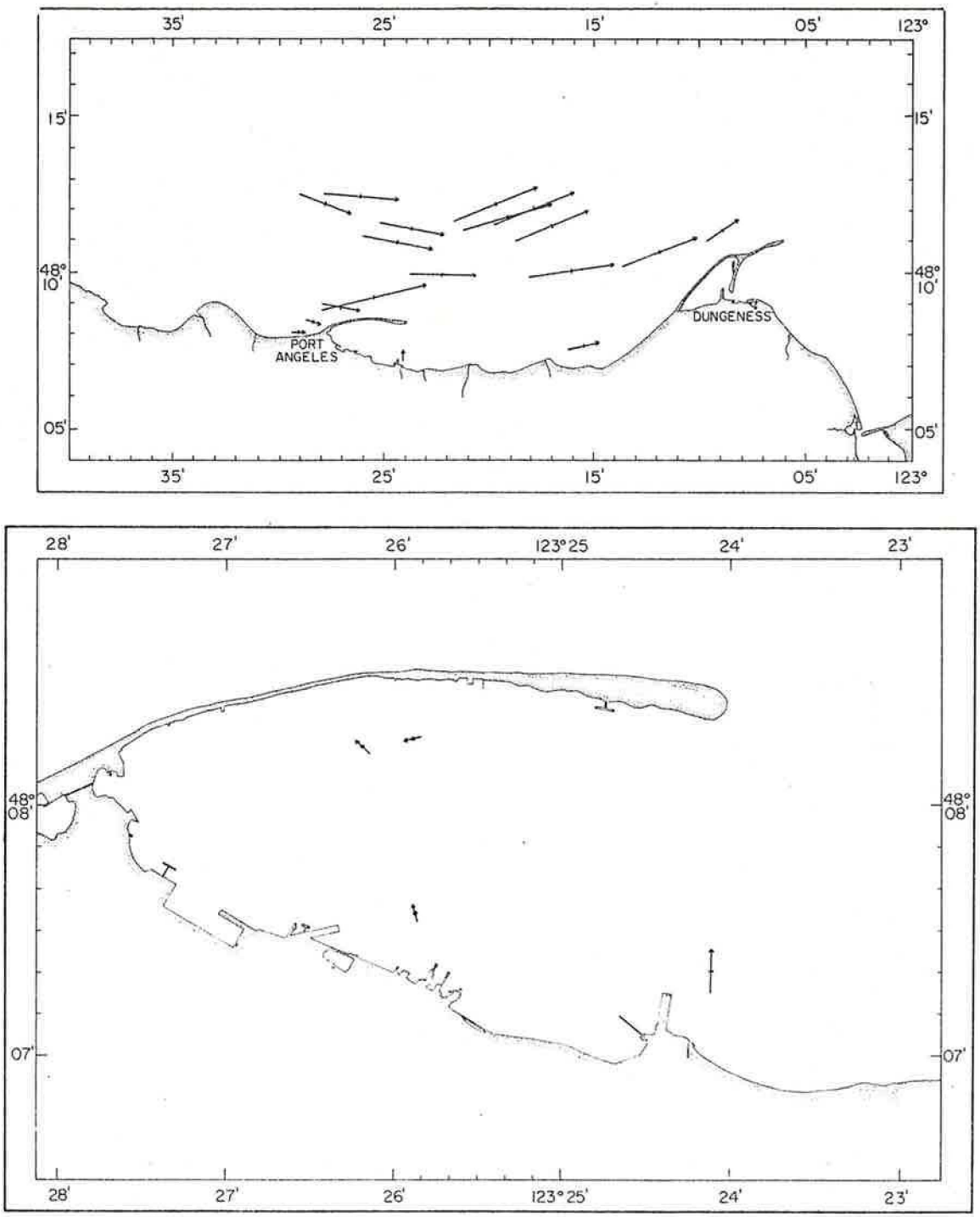


Plate 3c9. Spatial vector diagram at 1500, 25 April 1978.

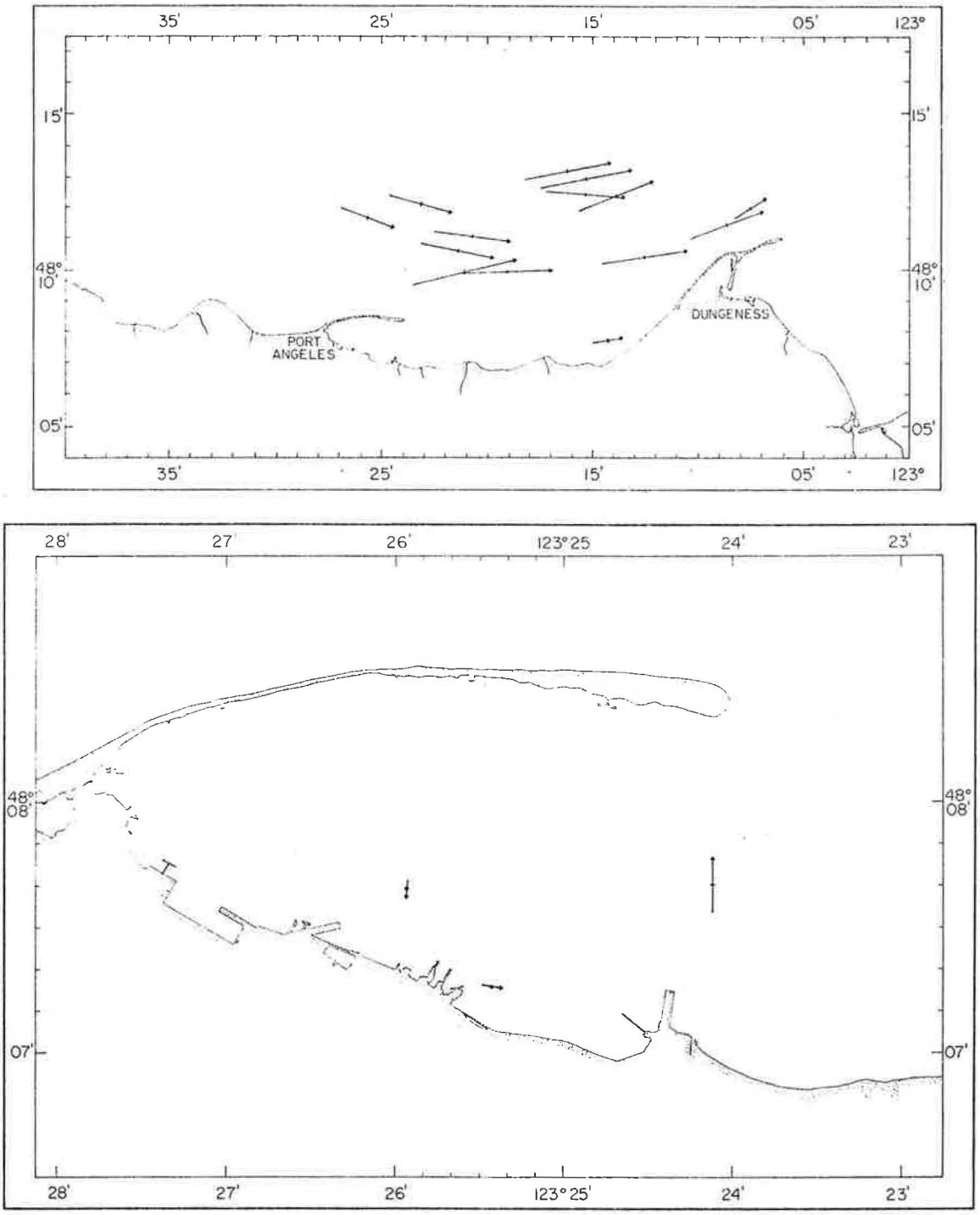


Plate 3c10. Spatial vector diagram at 1600, 25 April 1978.

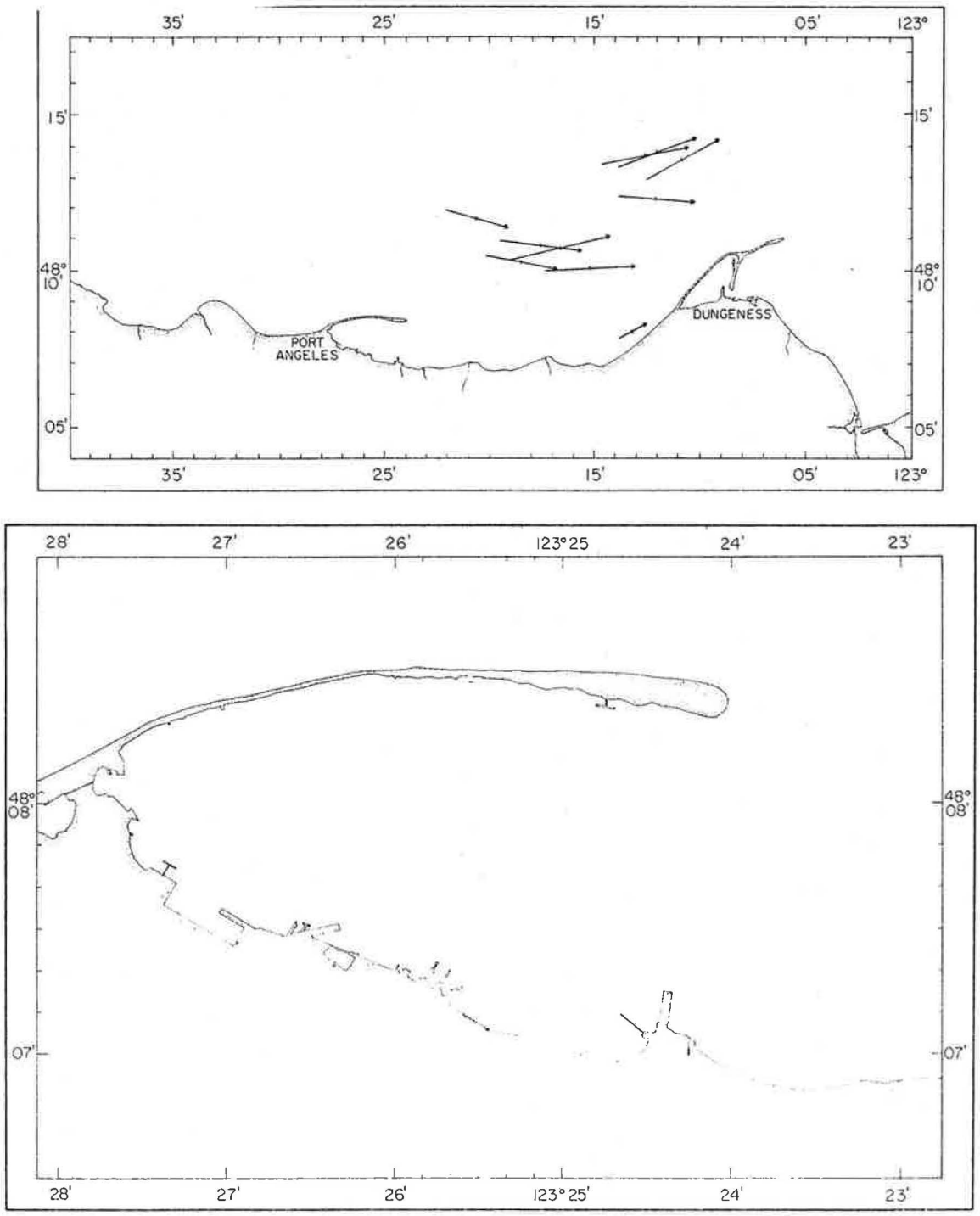
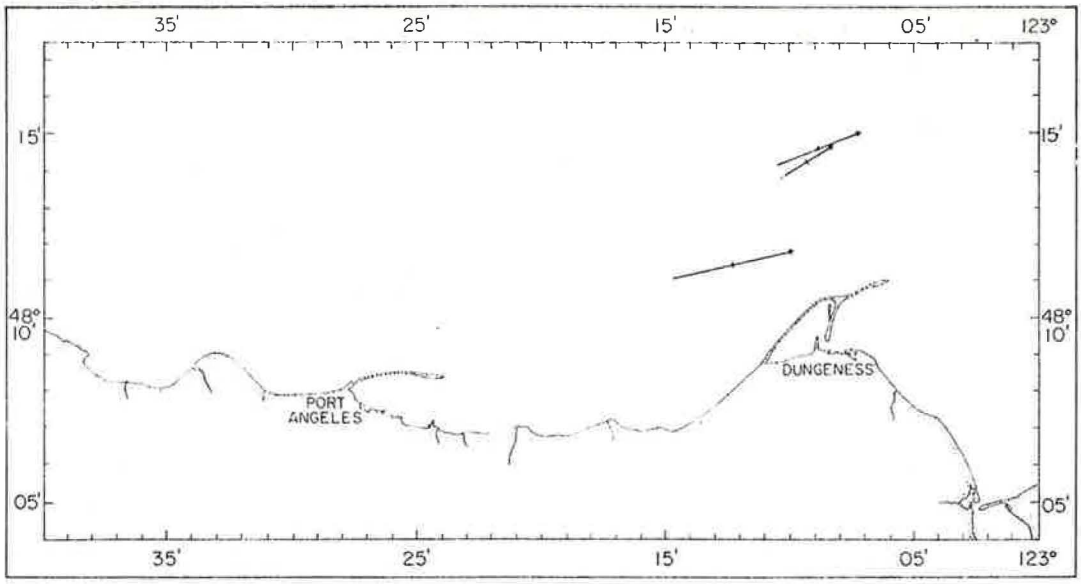


Plate 3c11. Spatial vector diagram at 1700, 25 April 1978.



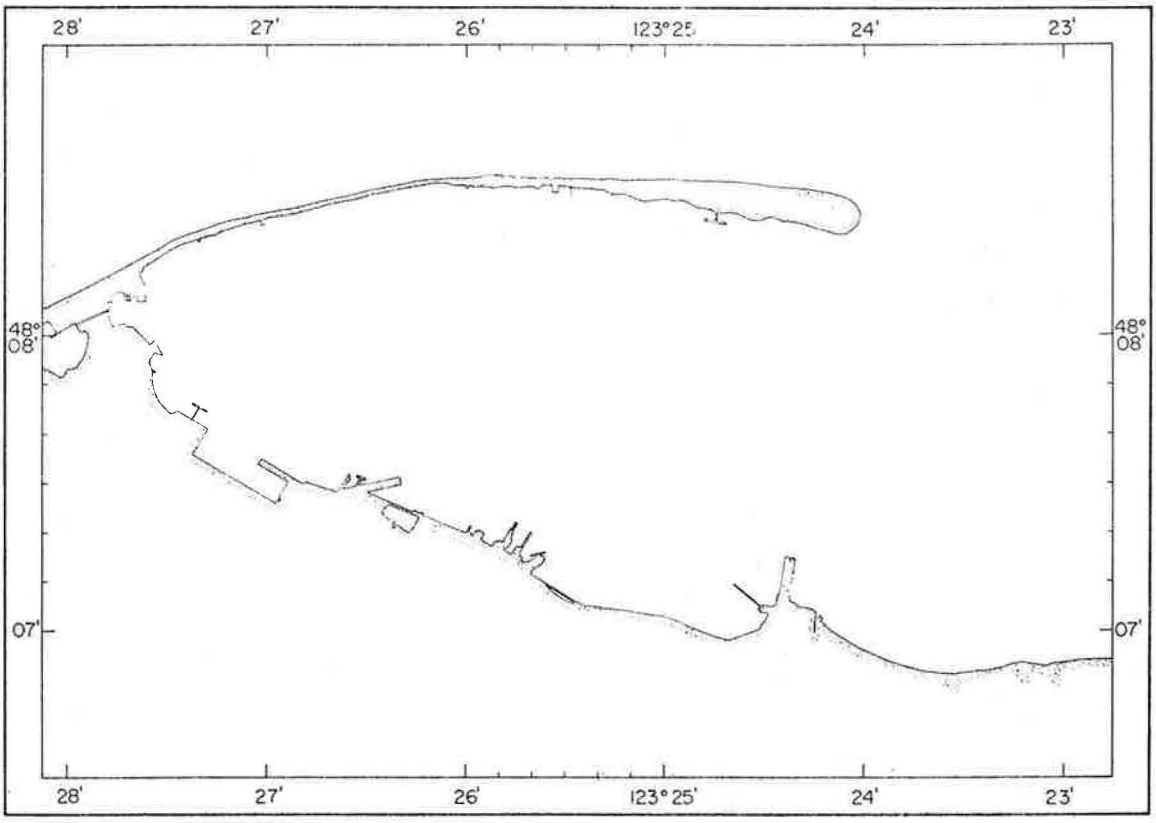


Plate 3c12. Spatial vector diagram at 1800, 25 April 1978.

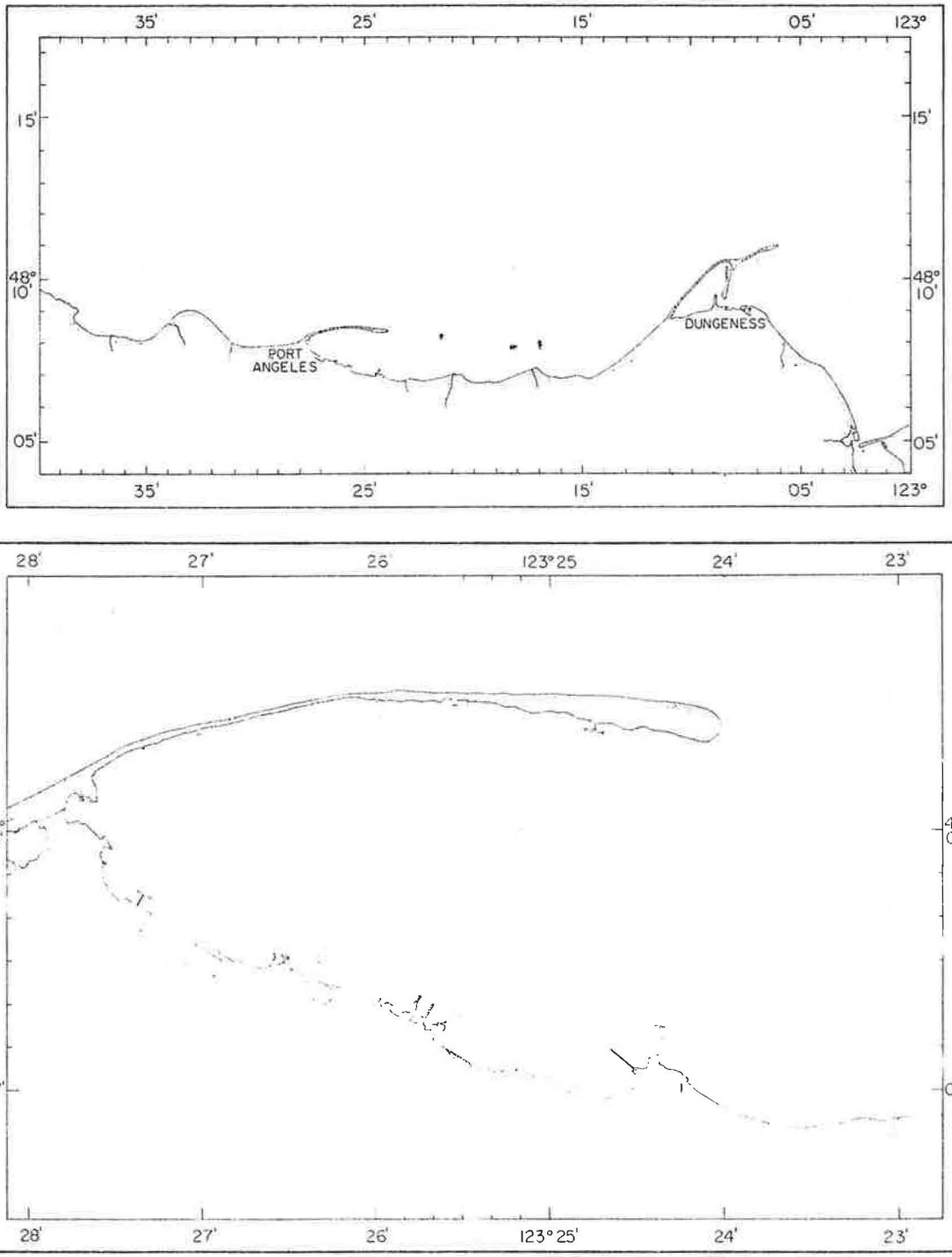


Plate 3d1. Spatial vector diagram at 0700, 26 April 1978.

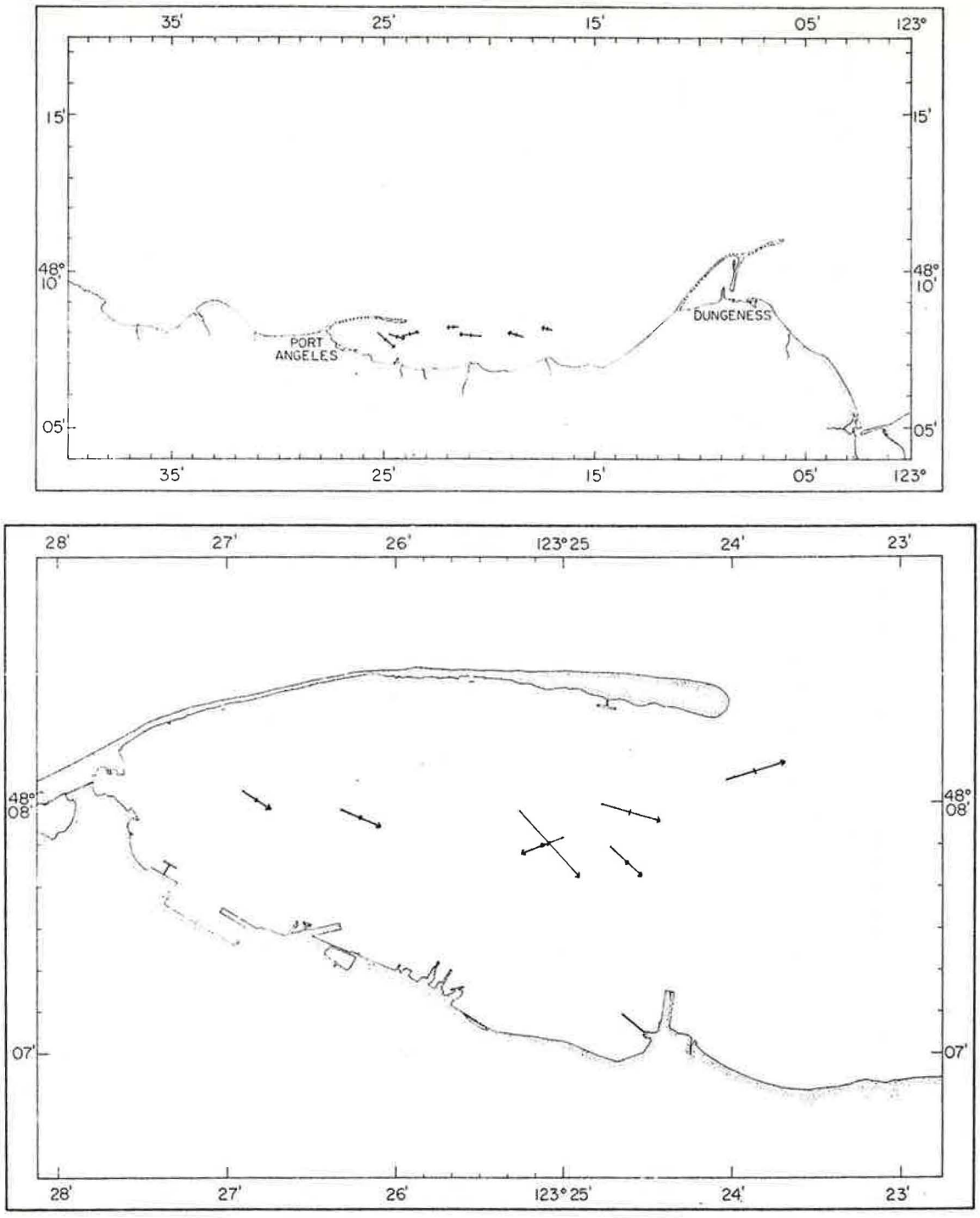


Plate 3d2. Spatial vector diagram at 0800, 26 April 1978.

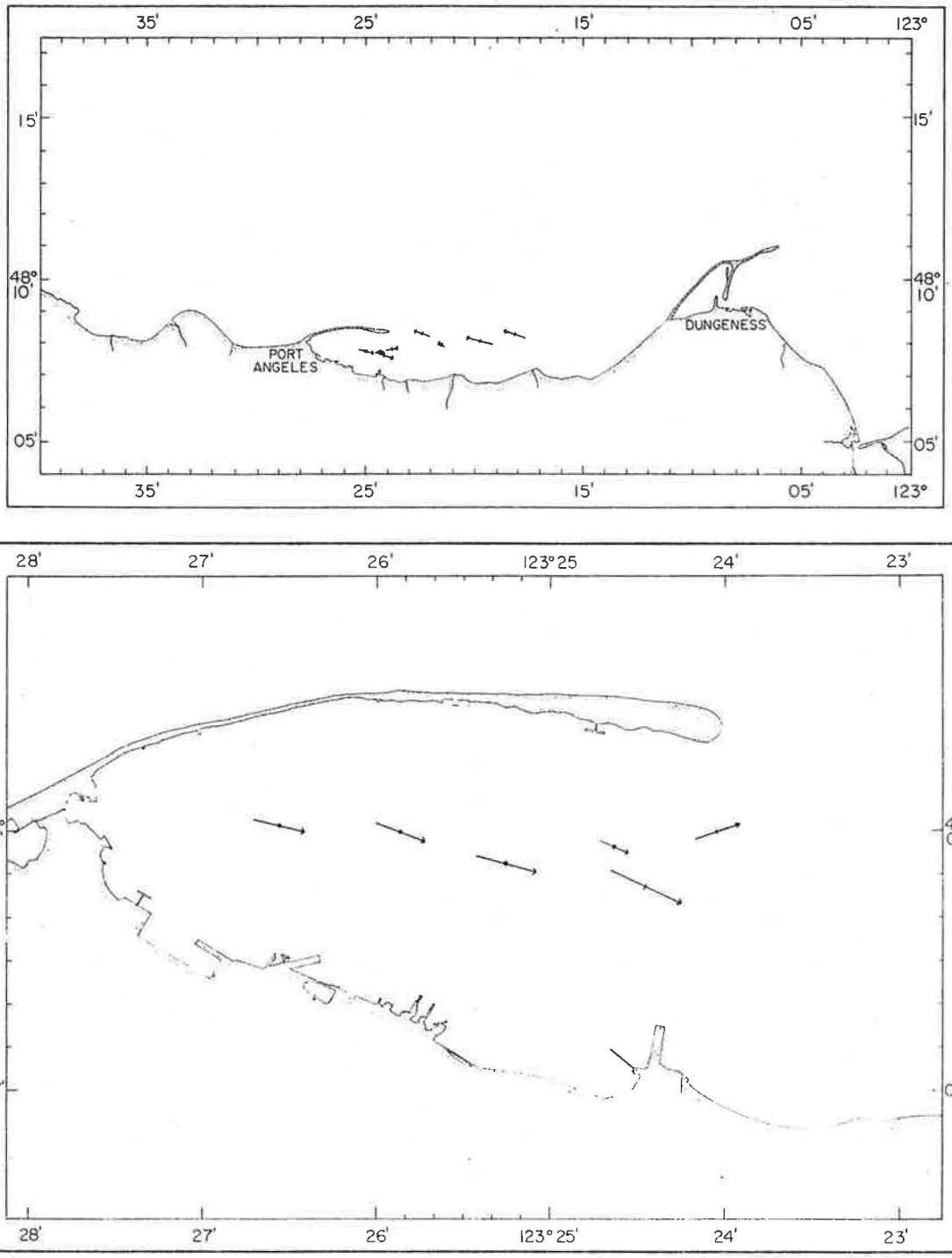
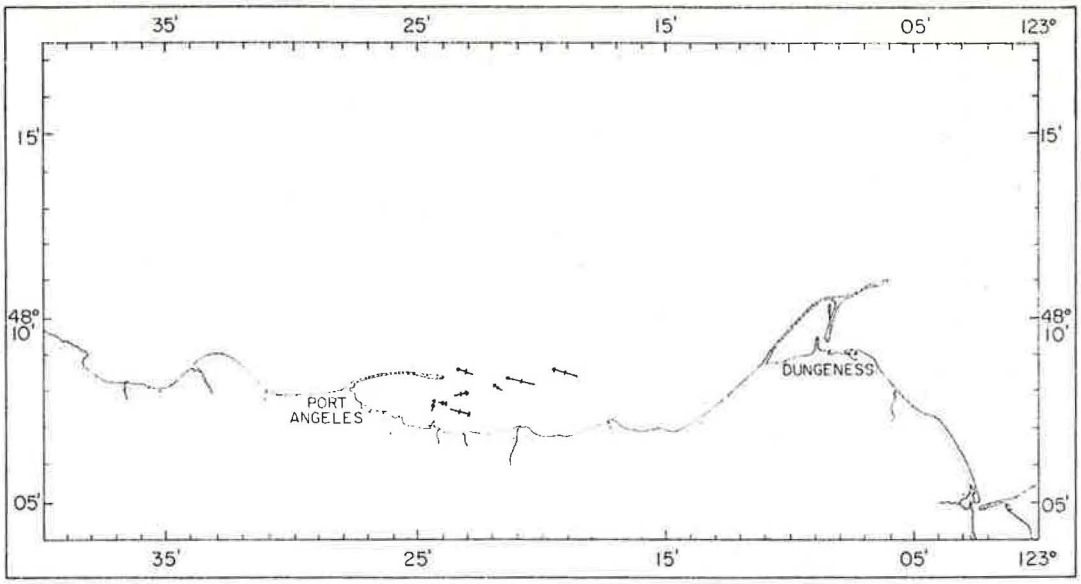


Plate 3d3. Spatial vector diagram at 0900, 26 April 1978.



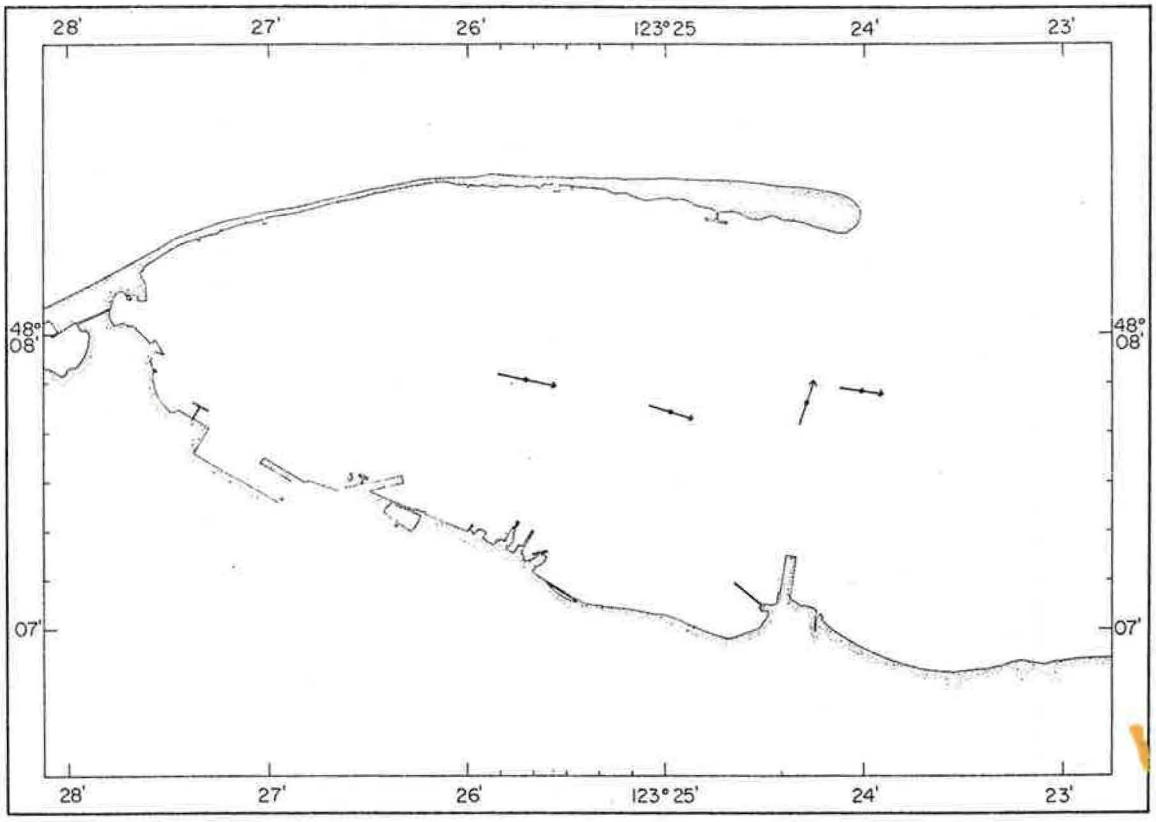
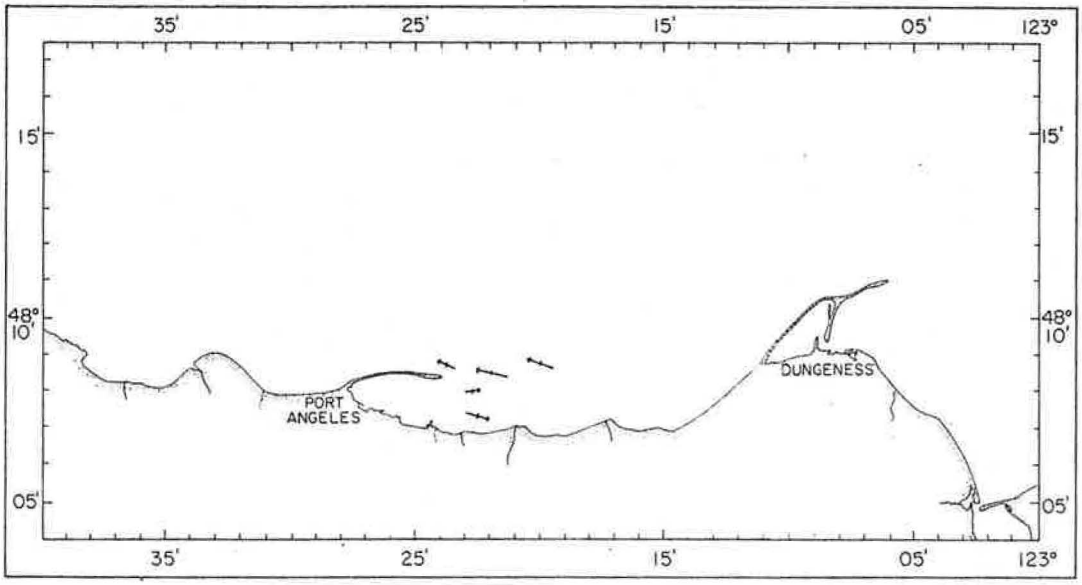


Plate 3d4. Spatial vector diagram at 1000, 26 April 1978.



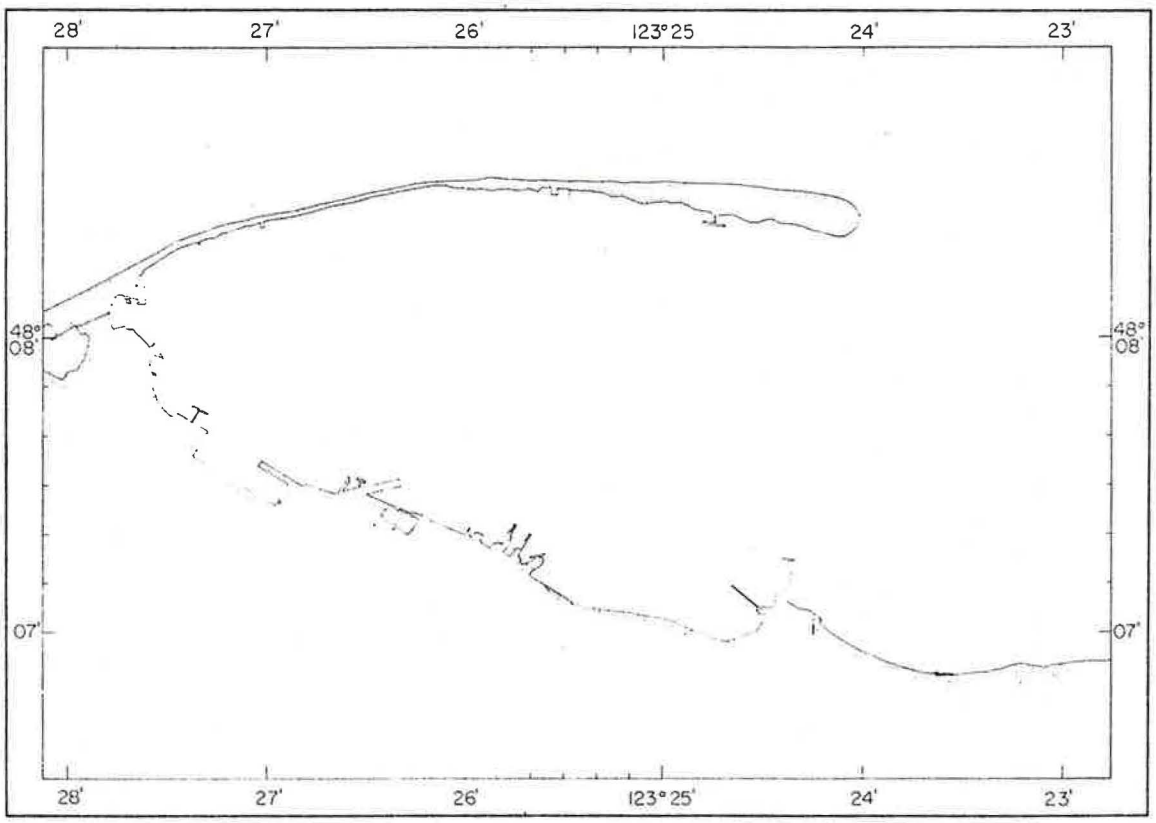


Plate 3d5. Spatial vector diagram at 1100, 26 April 1978.

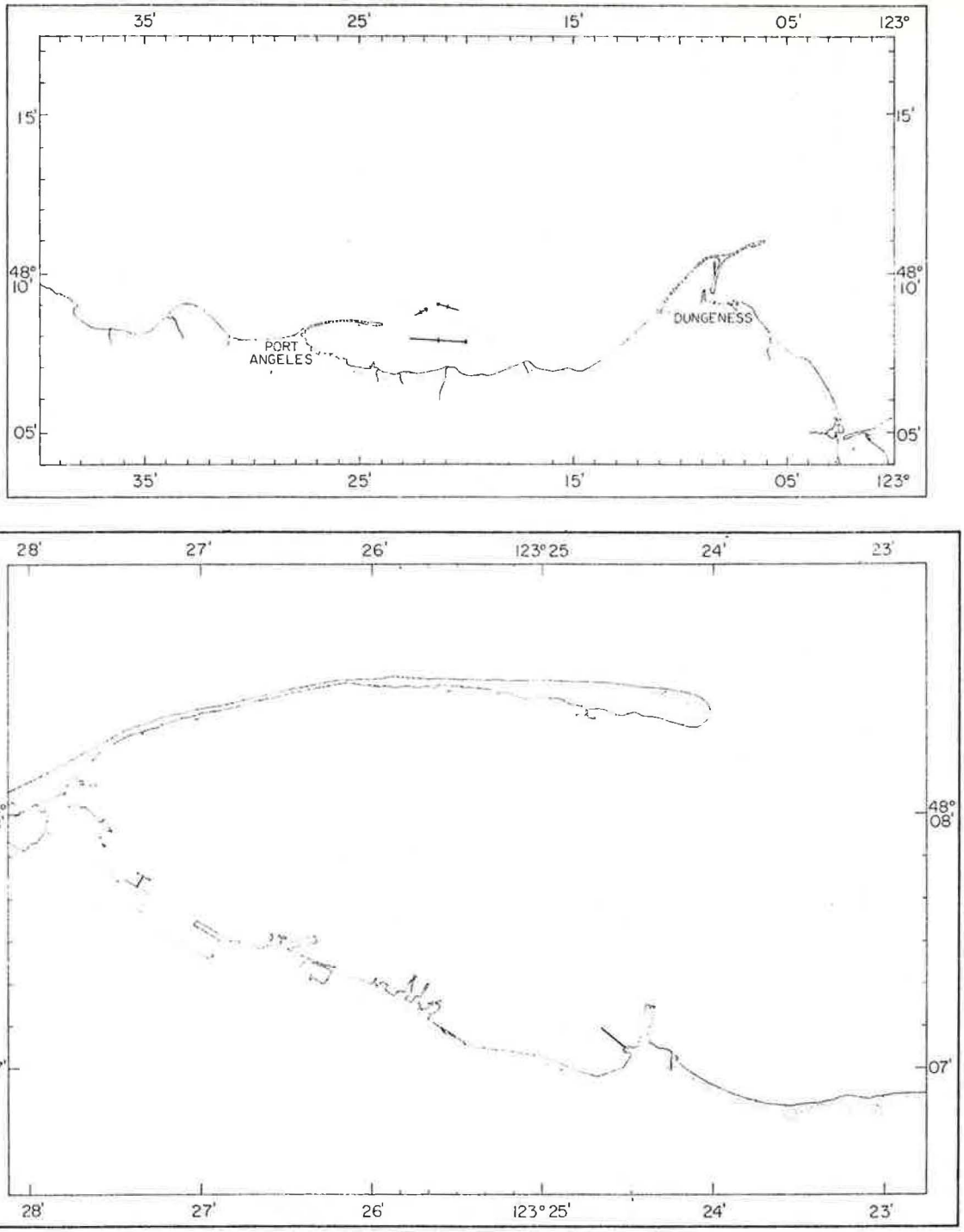


Plate 3d6. Spatial vector diagram at 1200, 26 April 1978.

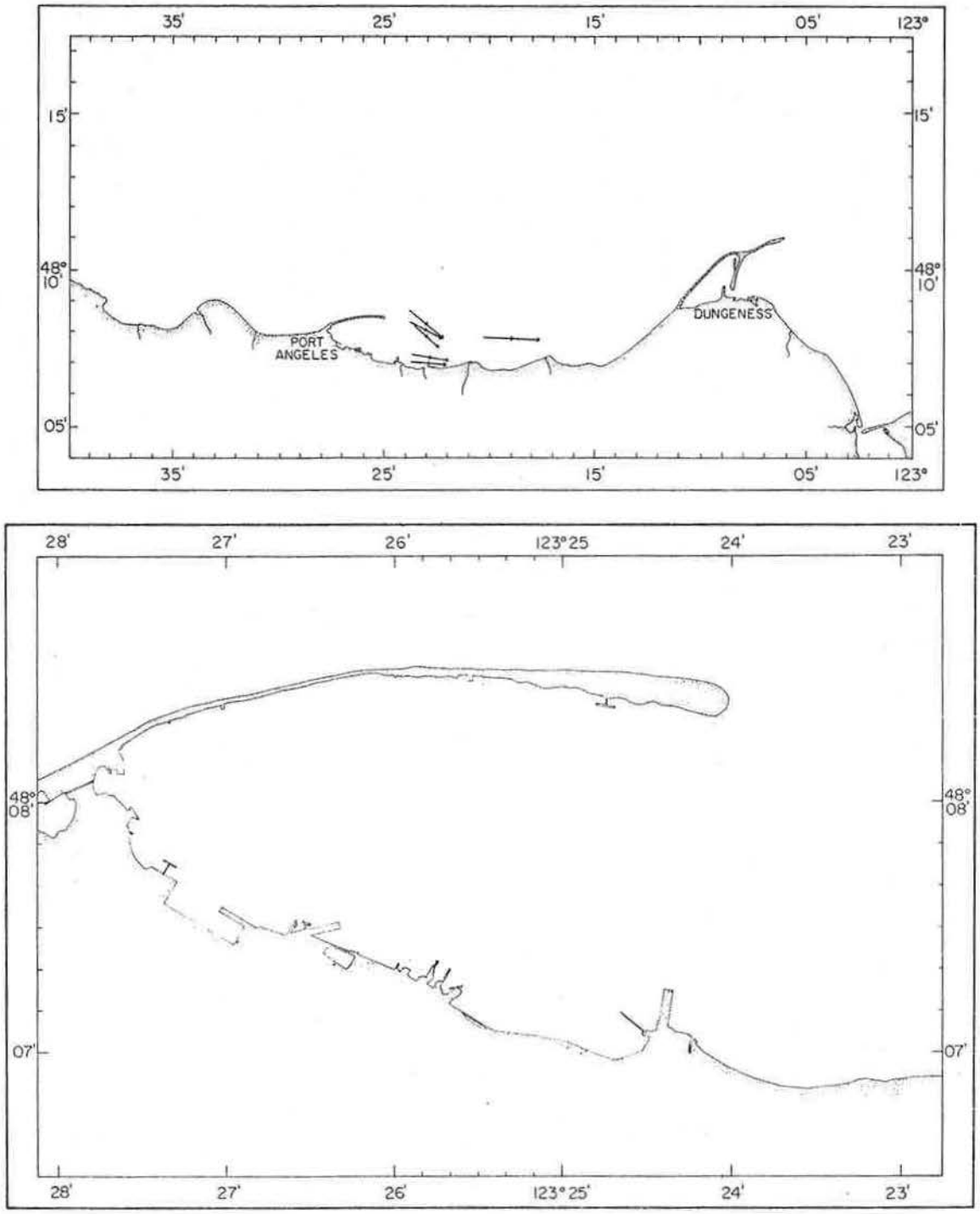
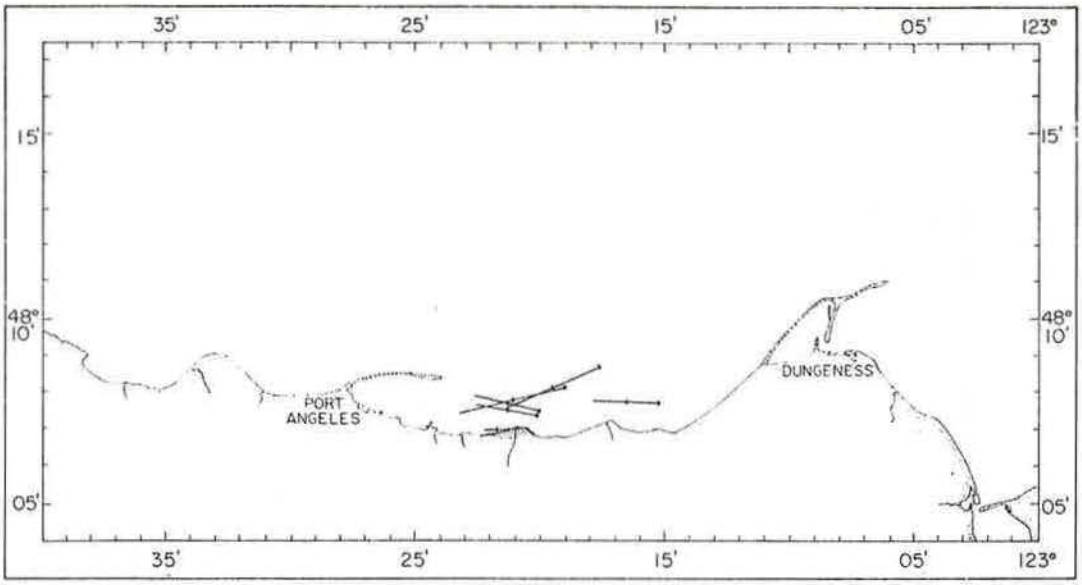


Plate 3d7. Spatial vector diagram at 1300, 26 April 1978.



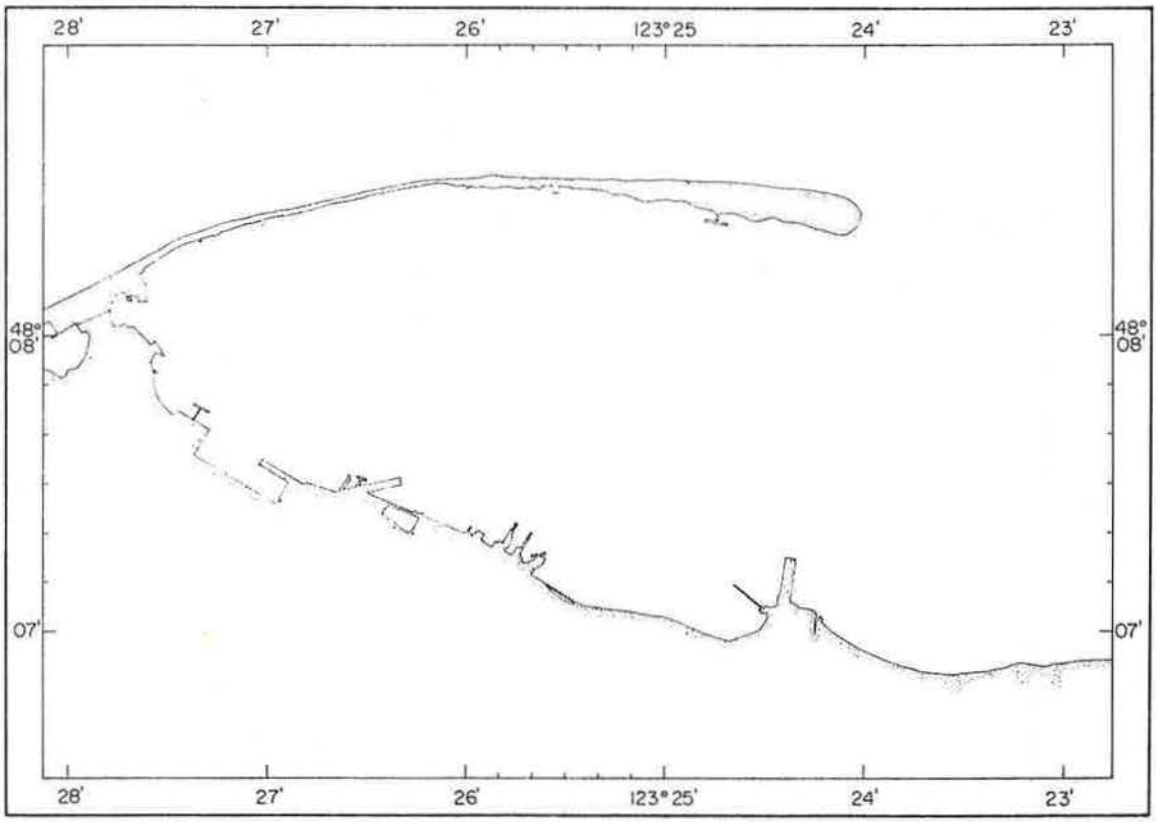


Plate 3d8. Spatial vector diagram at 1400, 26 April 1978.

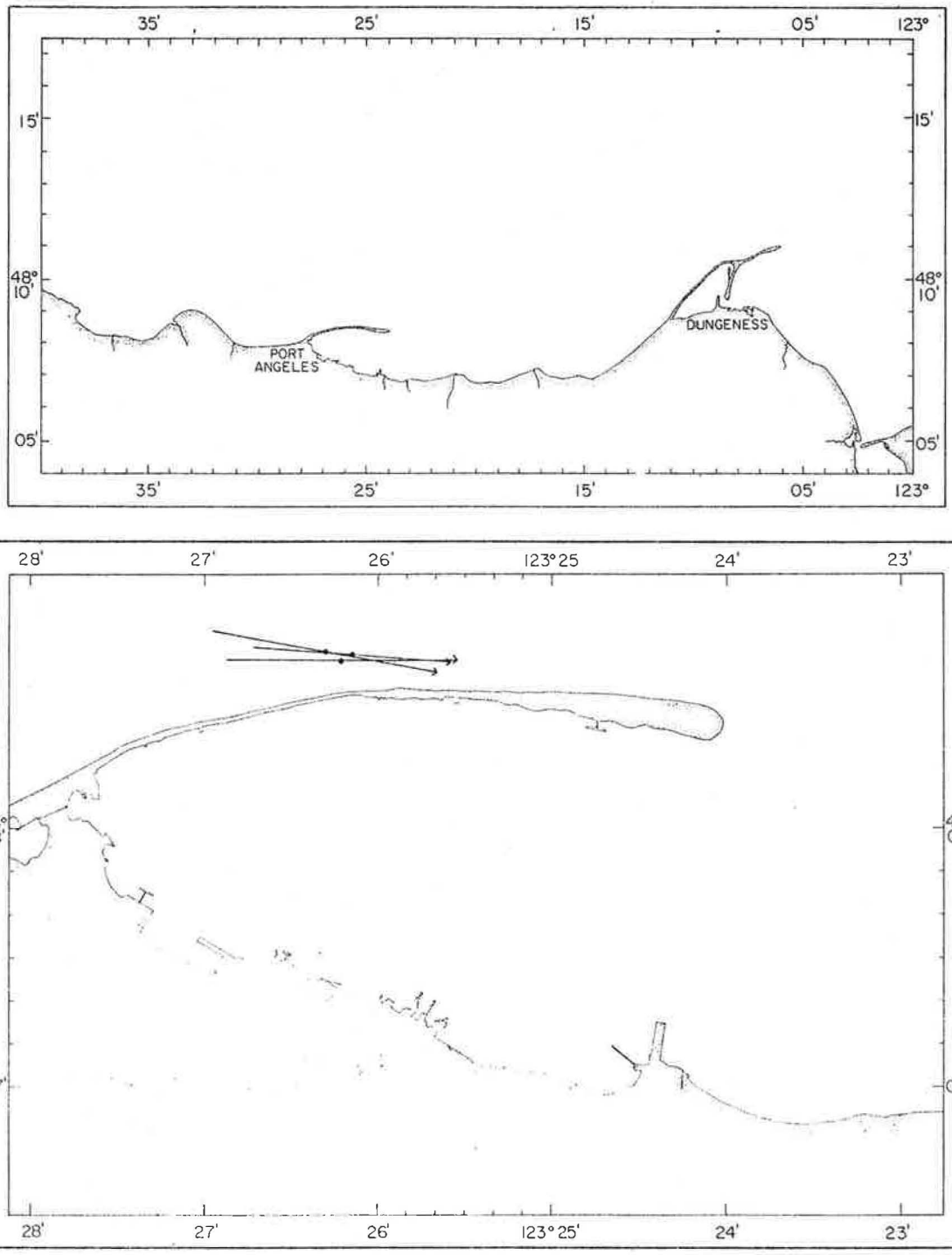


Plate 3d9. Spatial vector diagram at 1500, 26 April 1978.

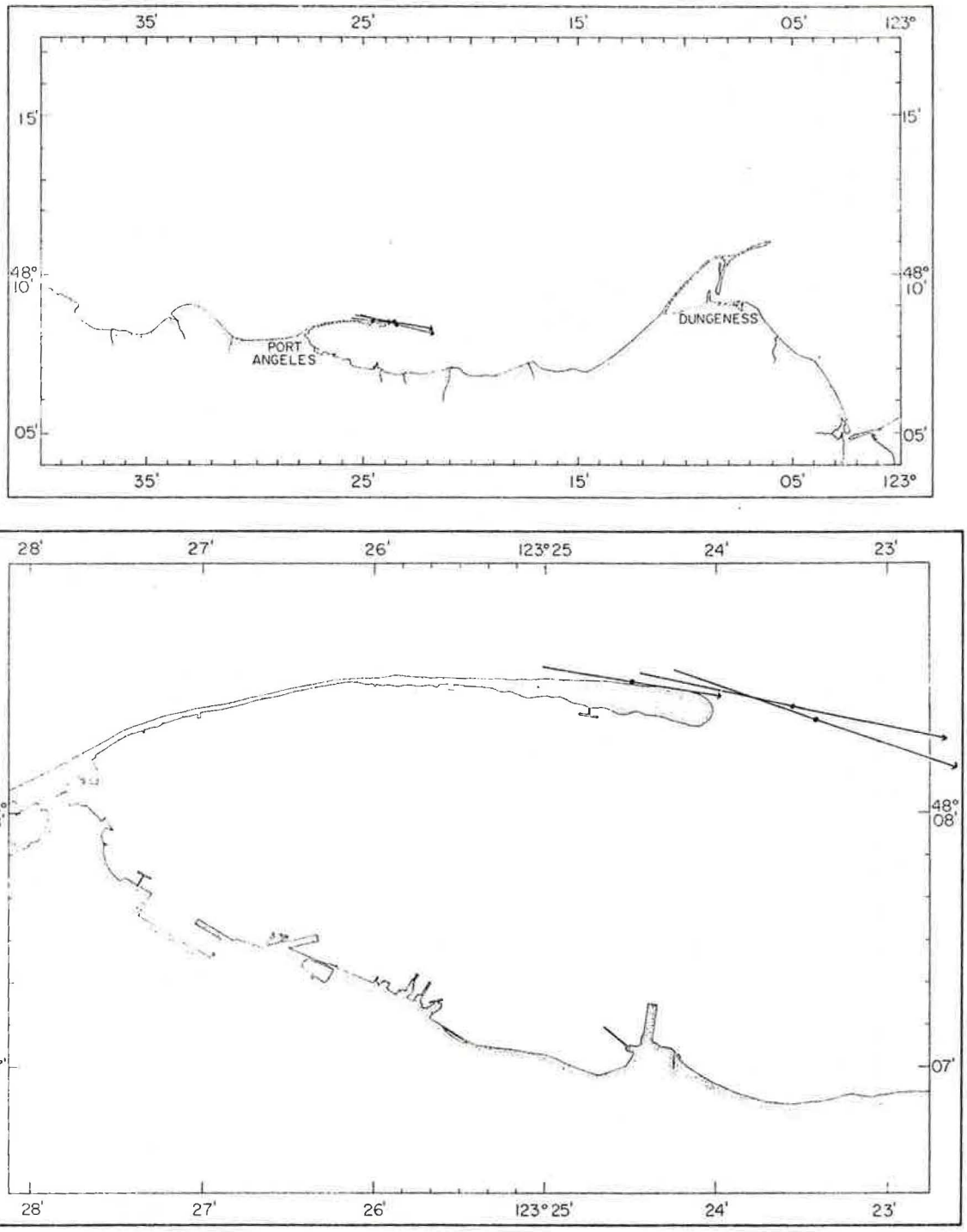


Plate 3d10. Spatial vector diagram at 1600, 26 April 1978.

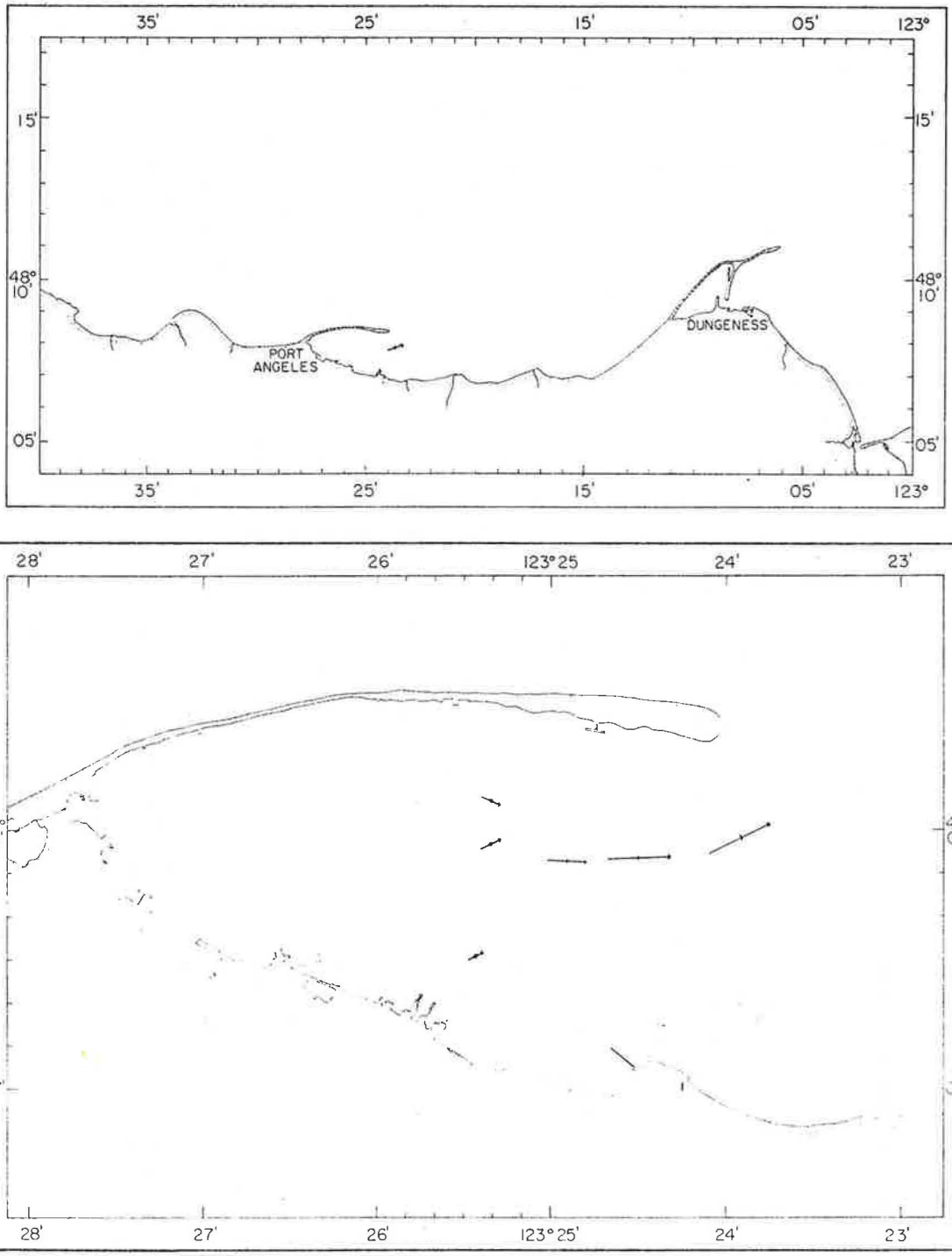
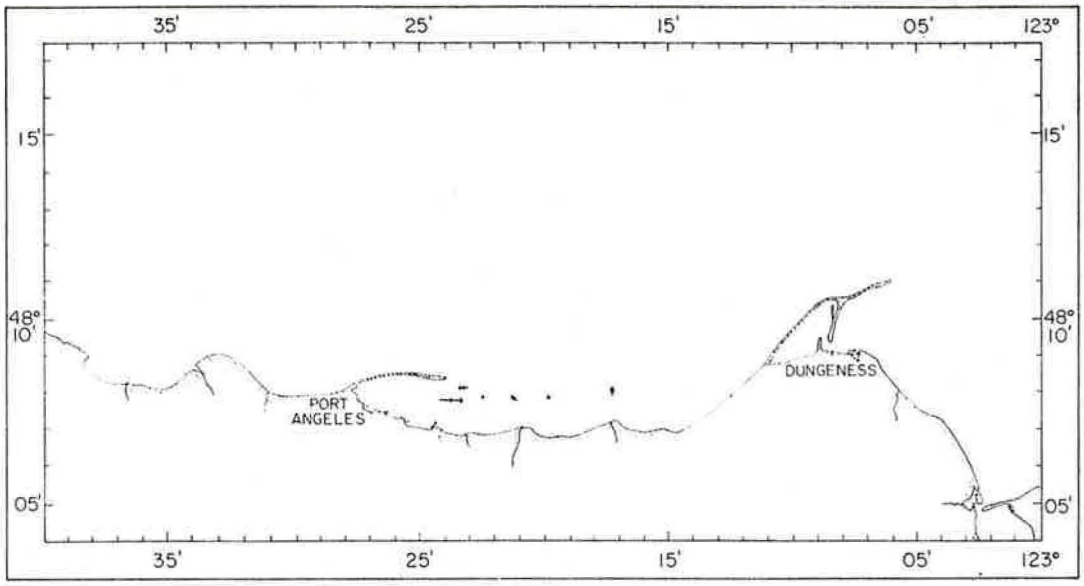


Plate 3e1. Spatial vector diagram at 0700, 27 April 1978.



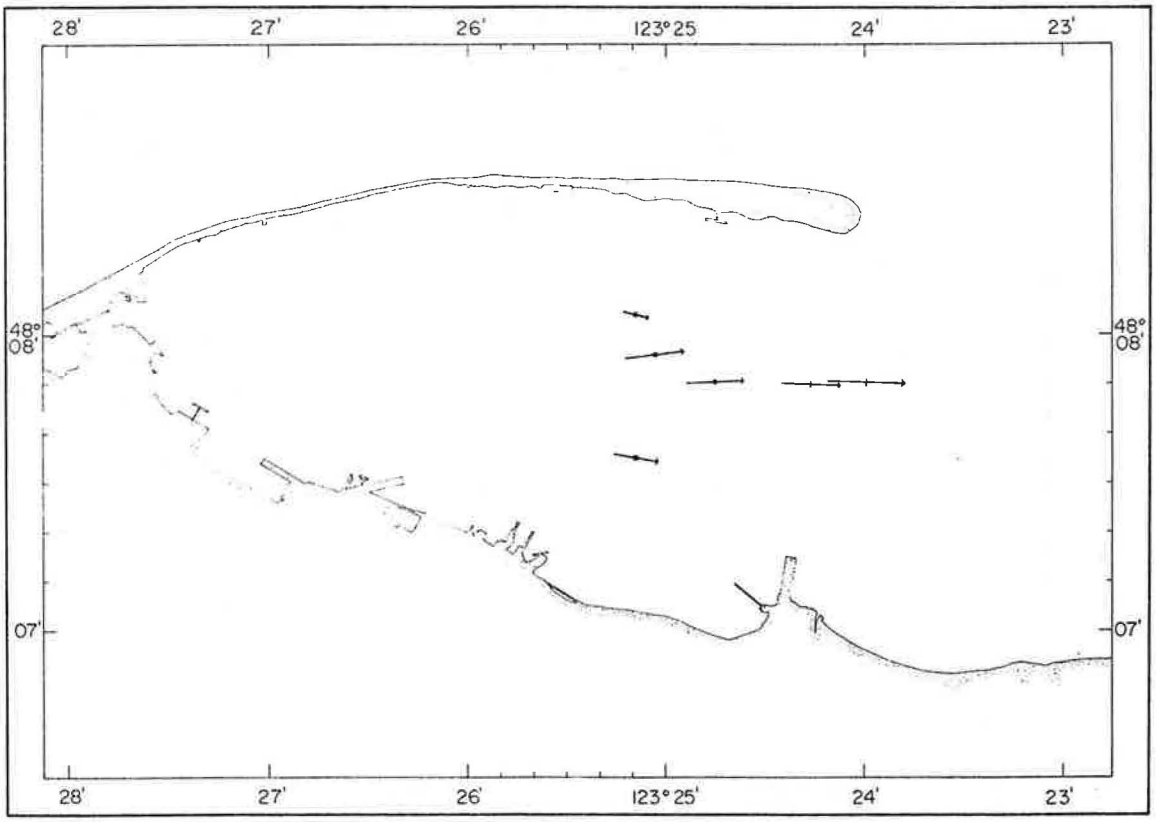


Plate 3e2. Spatial vector diagram at 0800, 27 April 1978.

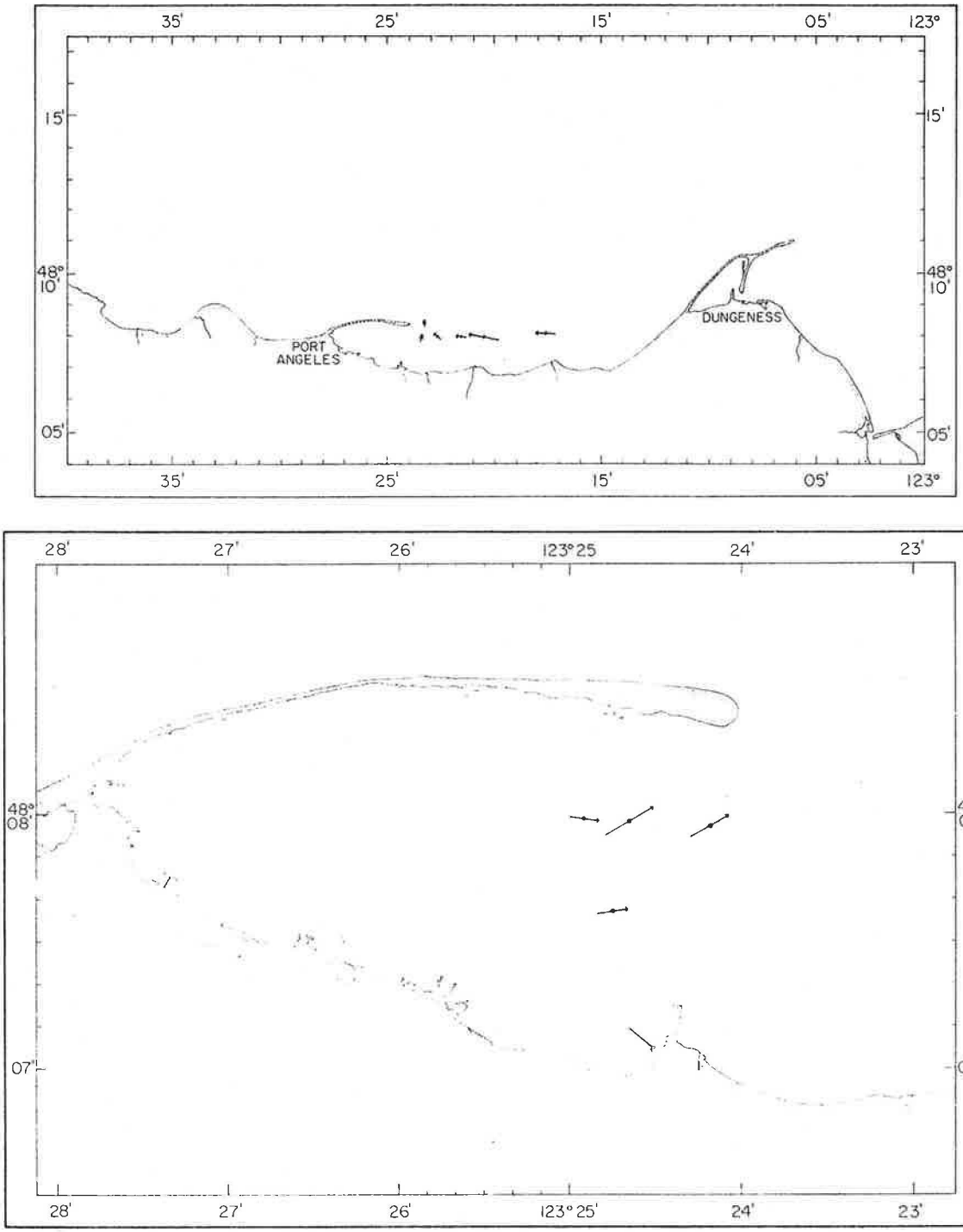


Plate 3e3. Spatial vector diagram at 0900, 27 April 1978.

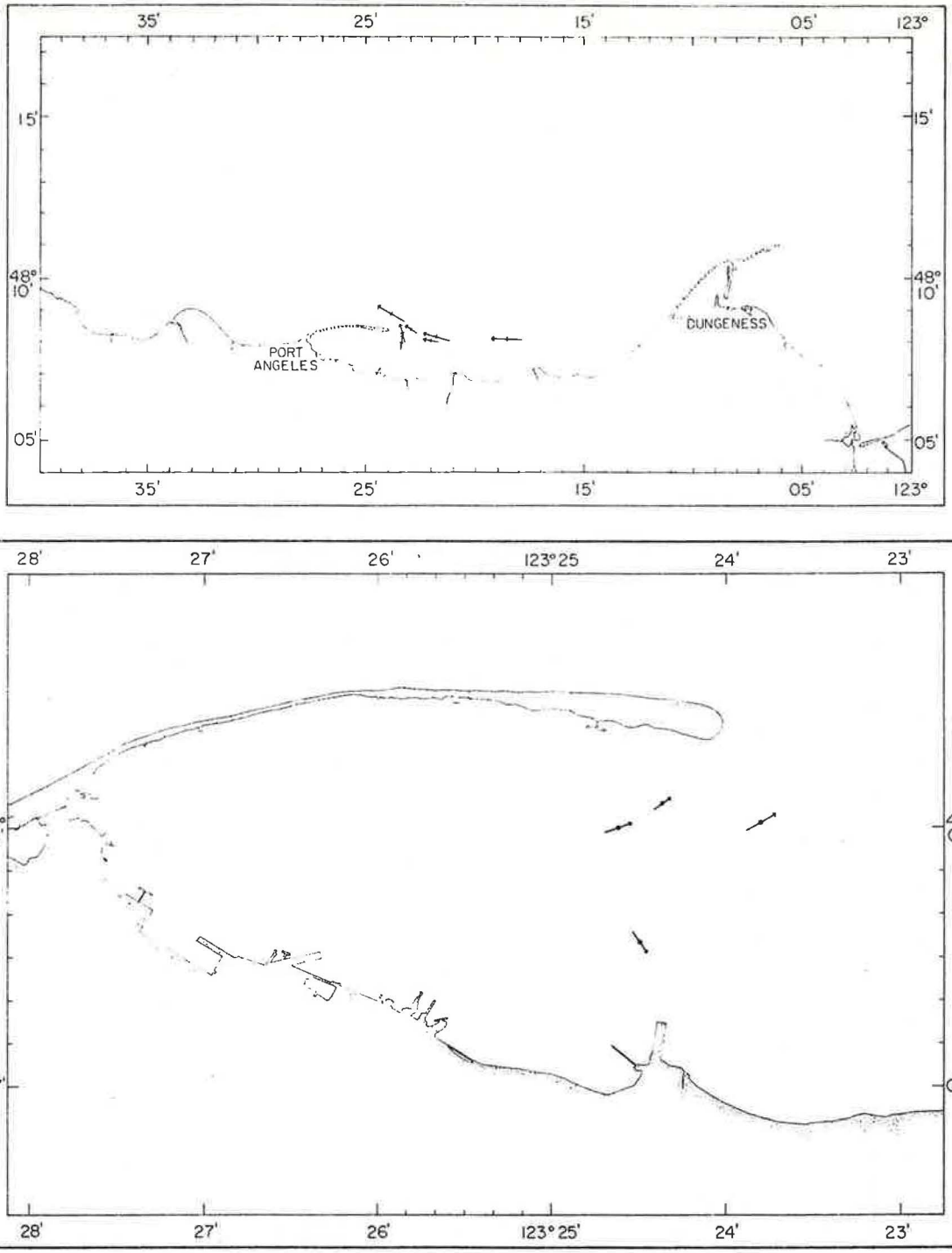


Plate 3e4. Spatial vector diagram at 1000, 27 April 1978.

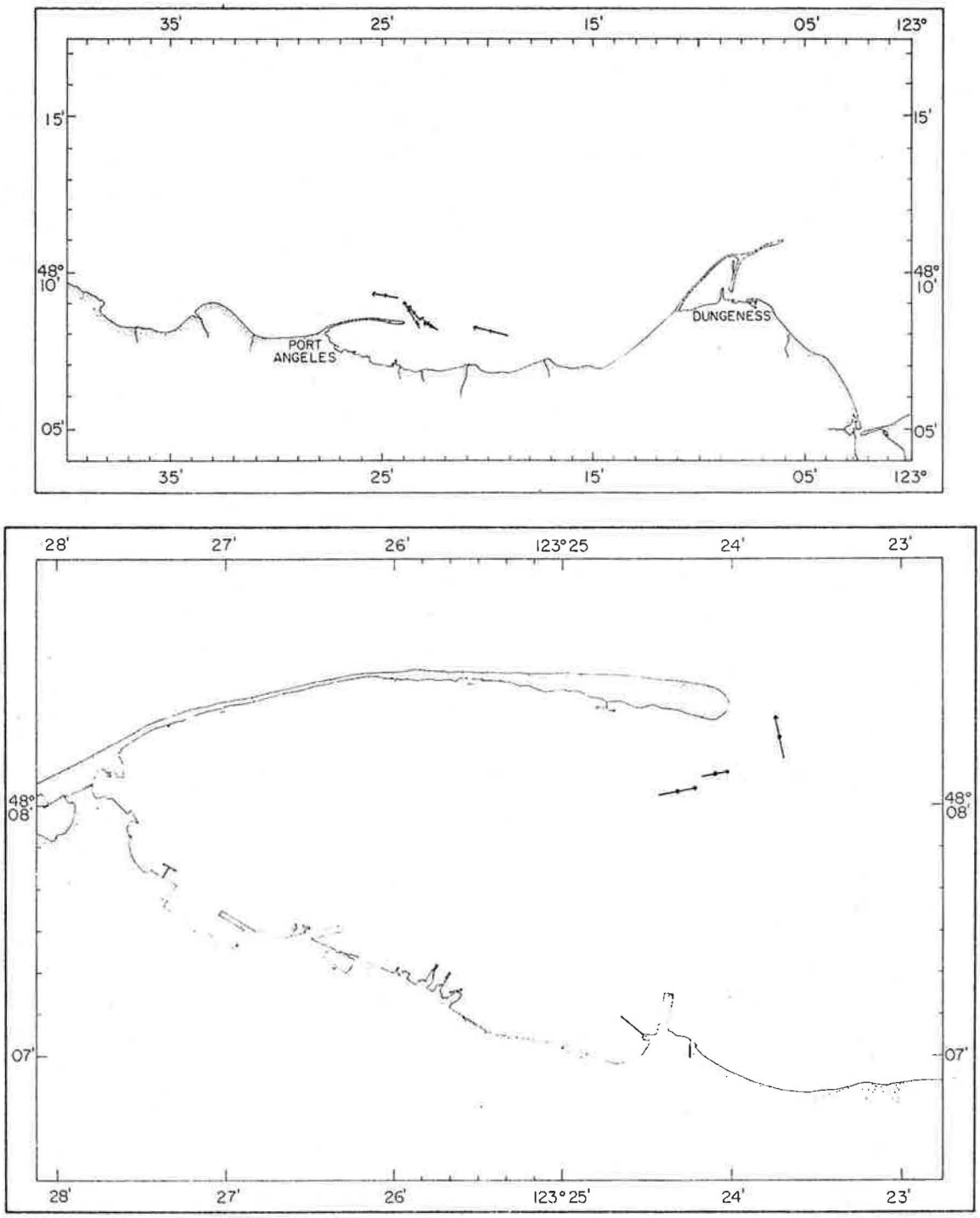


Plate 3e5. Spatial vector diagram at 1100, 27 April 1978.

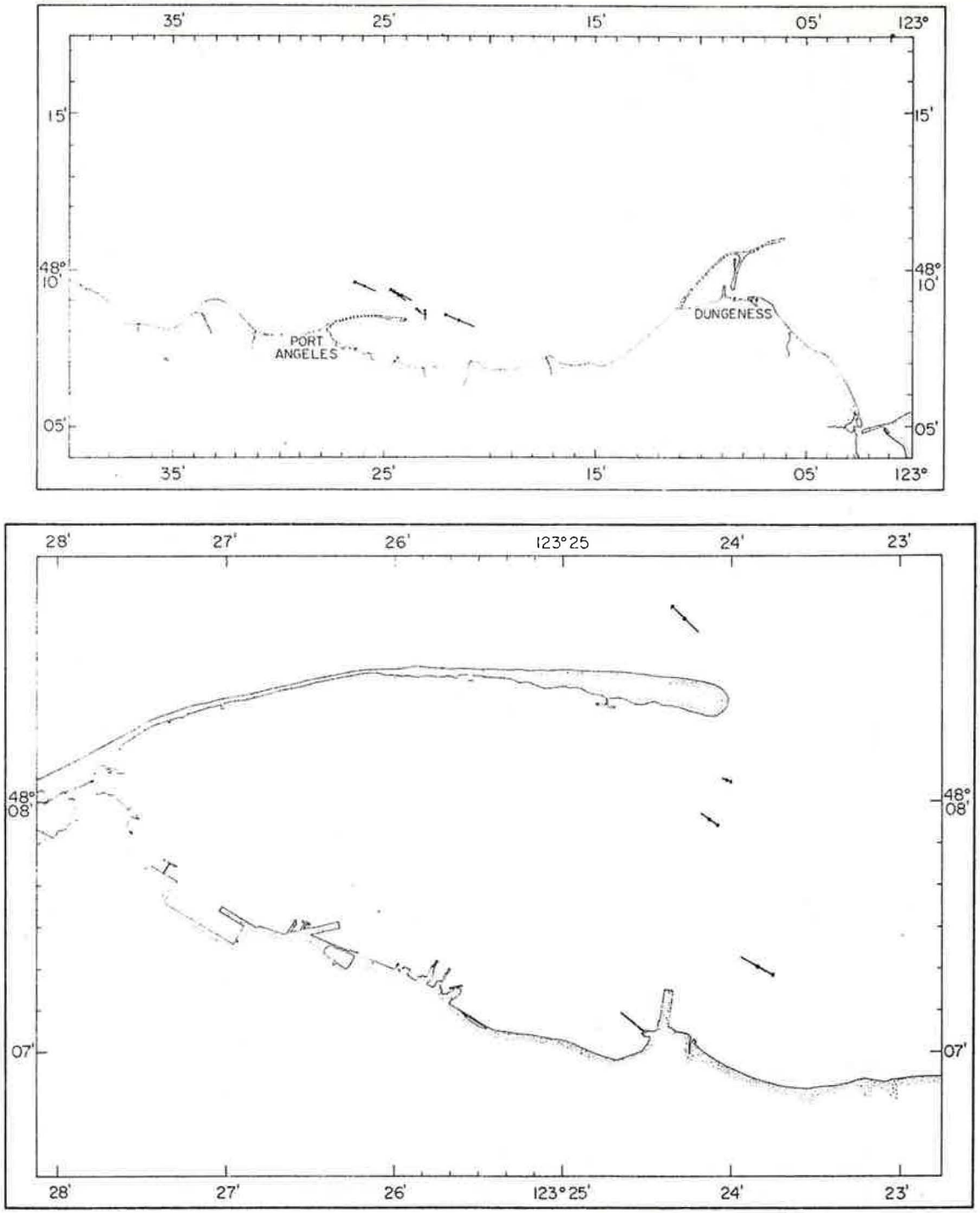


Plate 3e6. Spatial vector diagram at 1200, 27 April 1978.

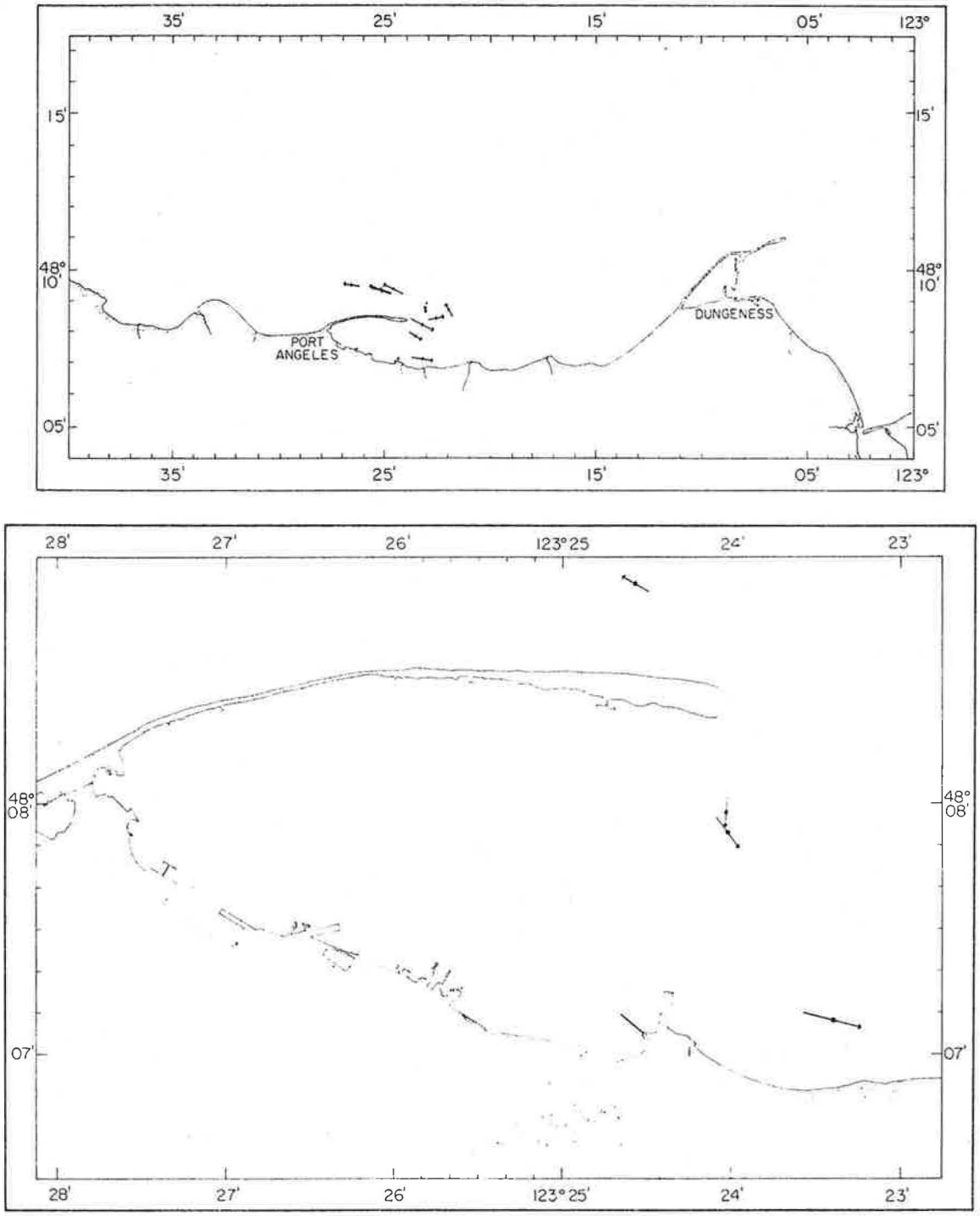


Plate 3e7. Spatial vector diagram at 1300, 27 April 1978.

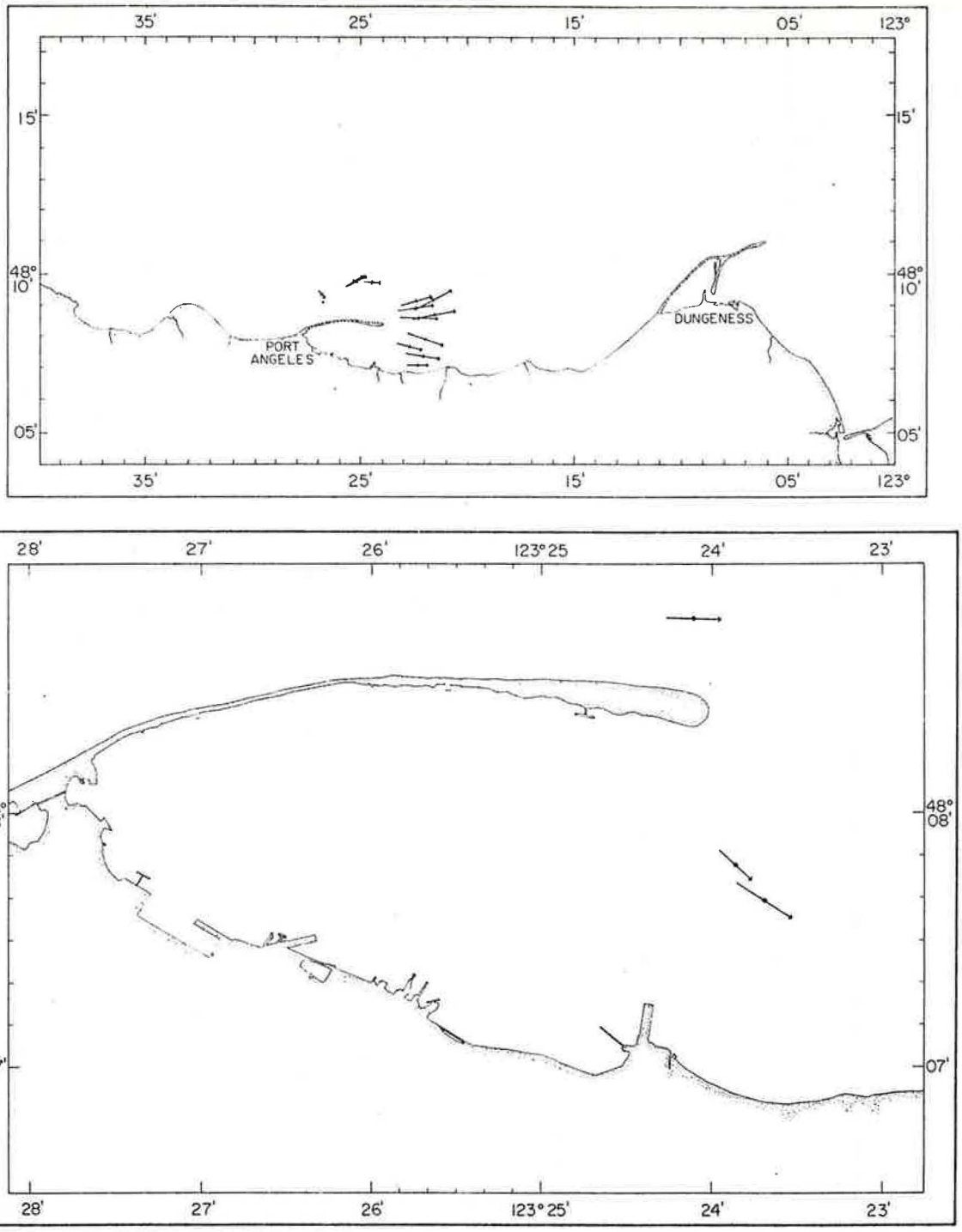


Plate 3e8. Spatial vector diagram at 1400, 27 April 1978.

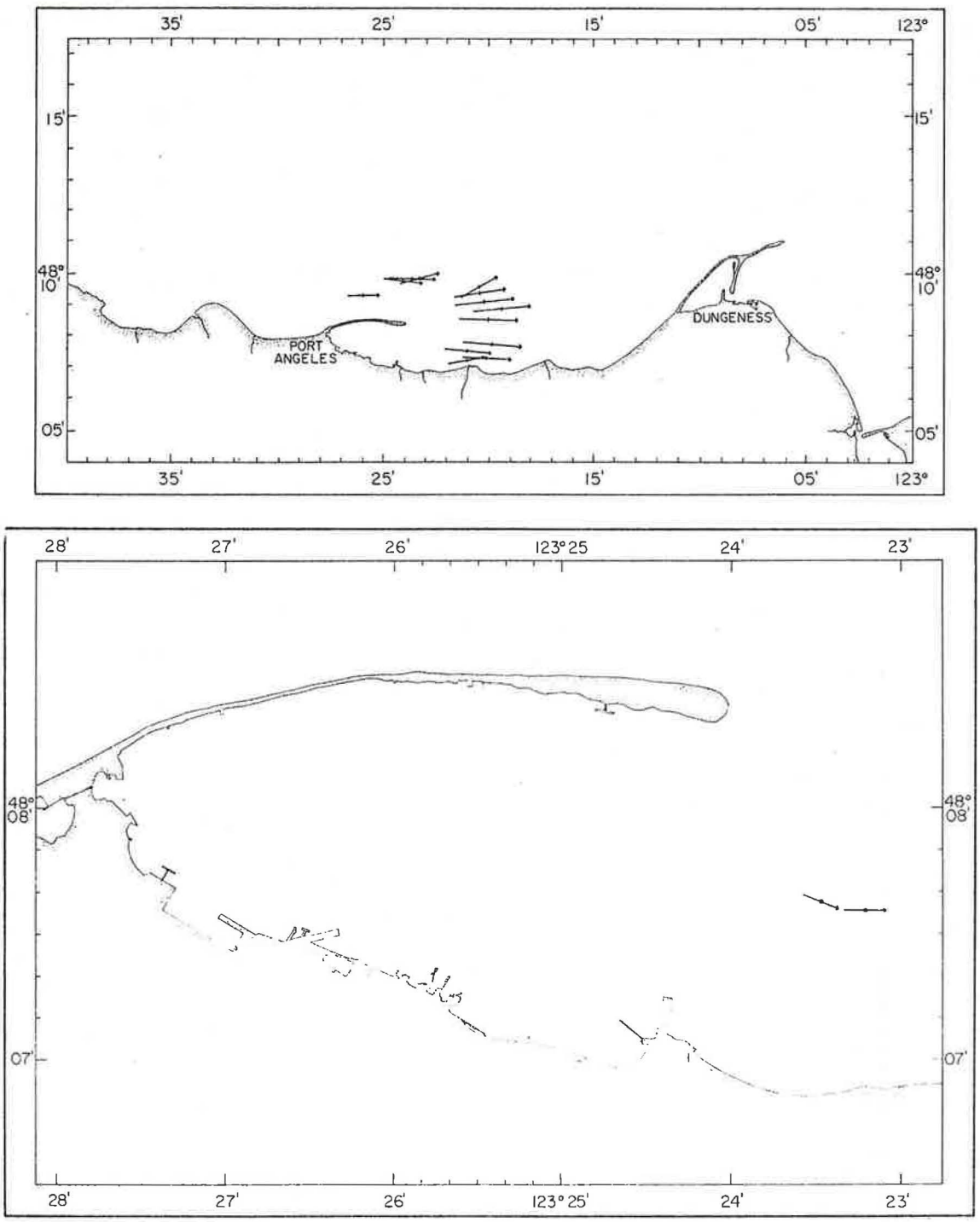
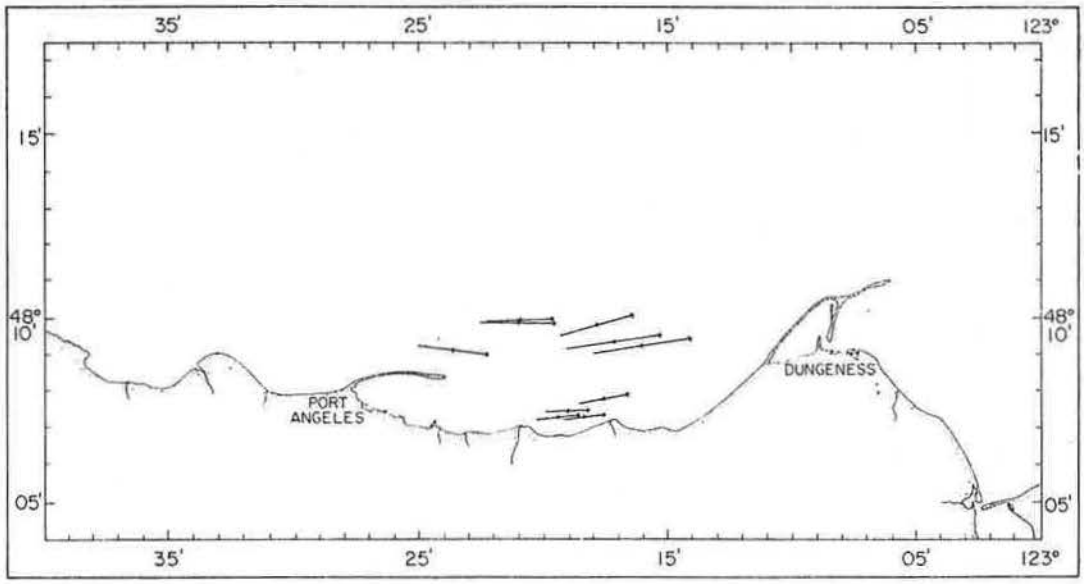


Plate 3e9. Spatial vector diagram at 1500, 27 April 1978.



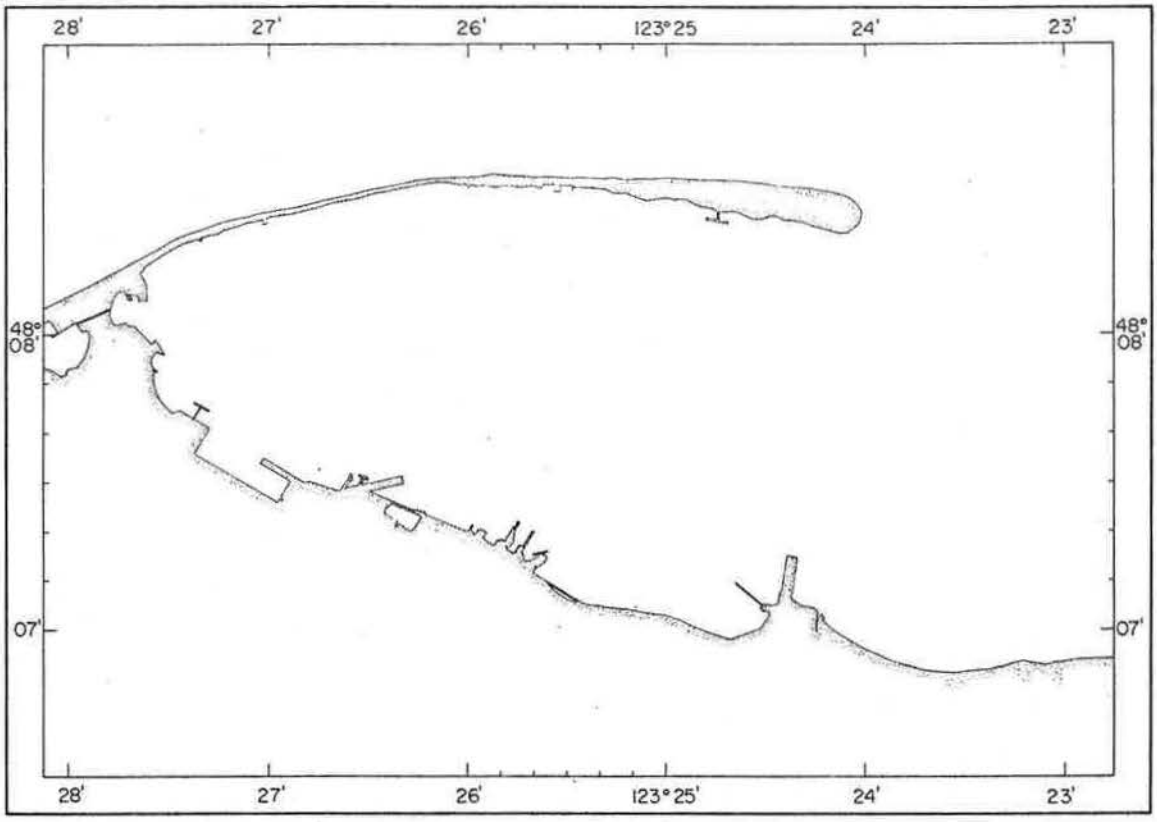


Plate 3e10. Spatial vector diagram at 1600, 27 April 1978.

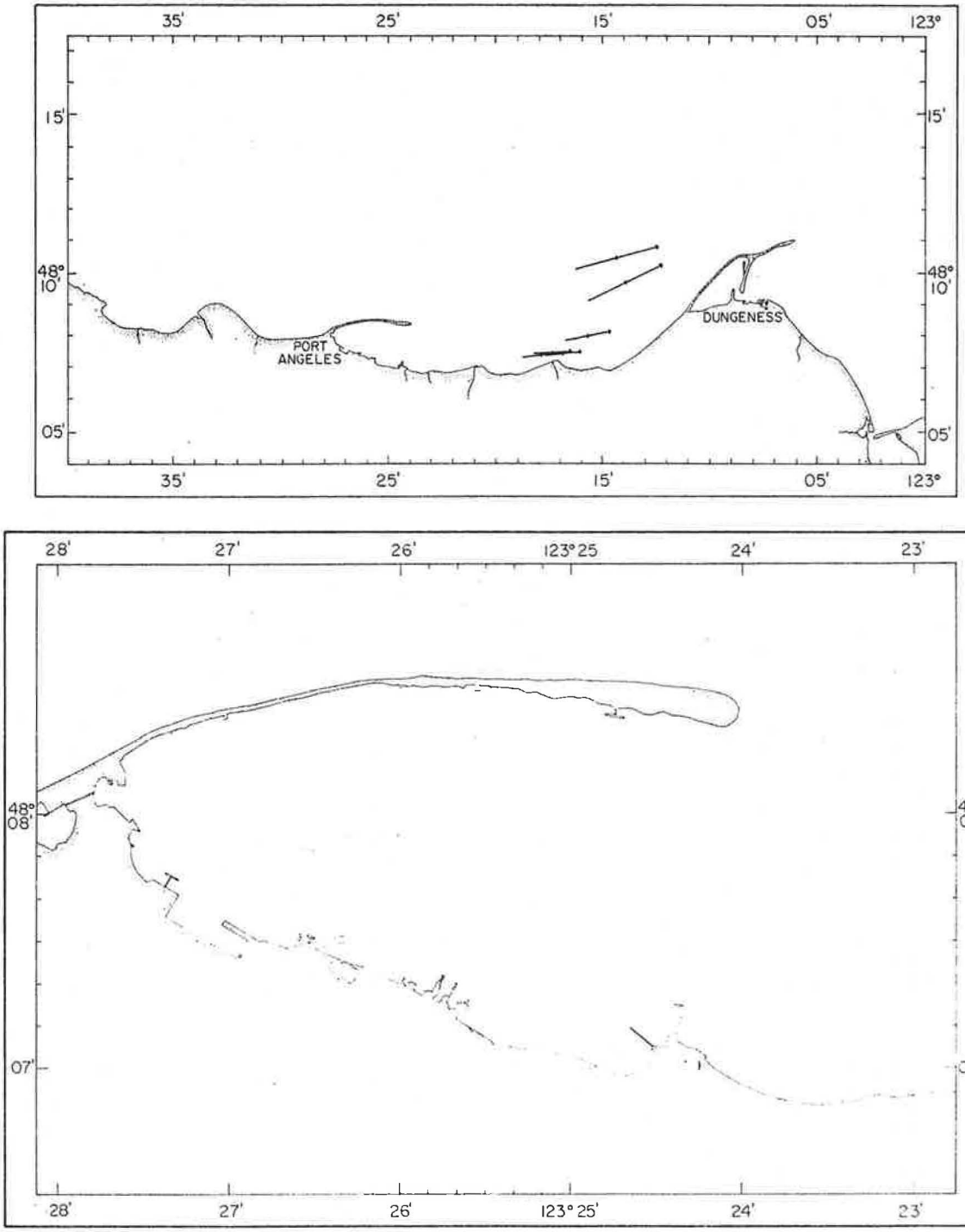


Plate 3e11. Spatial vector diagram at 1700, 27 April 1978.

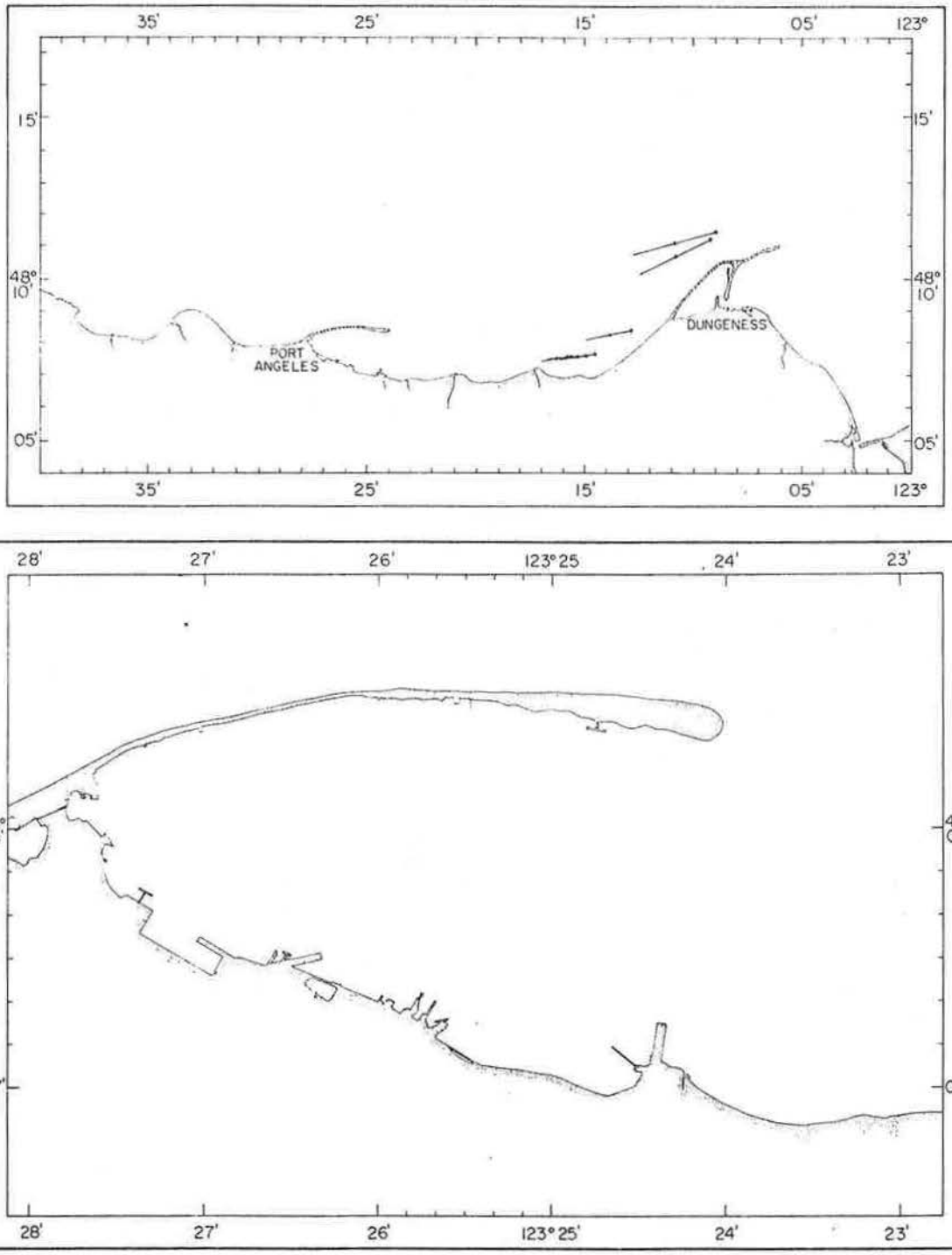


Plate 3e12. Spatial vector diagram at 1800, 27 April 1978.

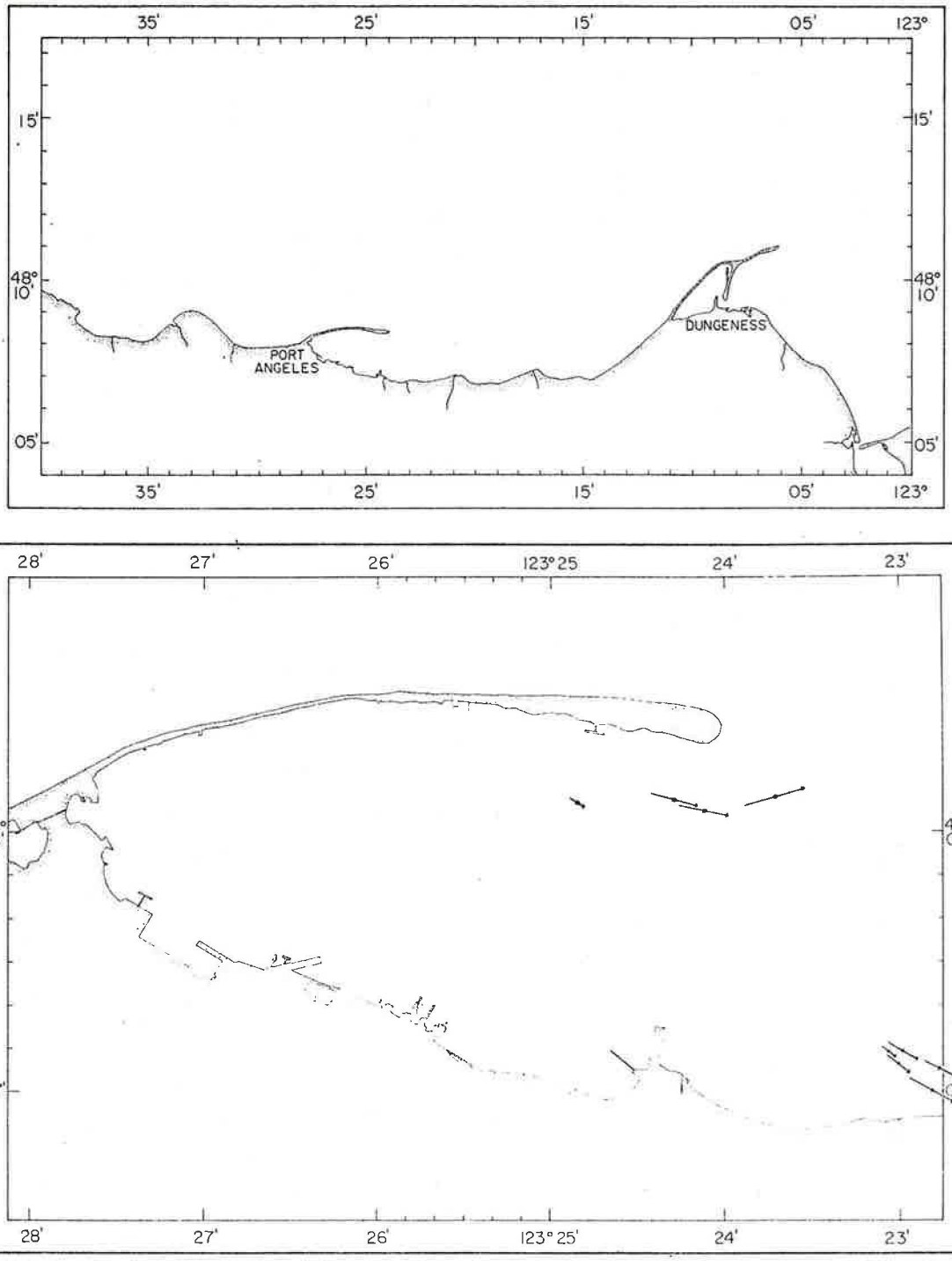


Plate 3f1. Spatial vector diagram at 0800, 28 April 1978.

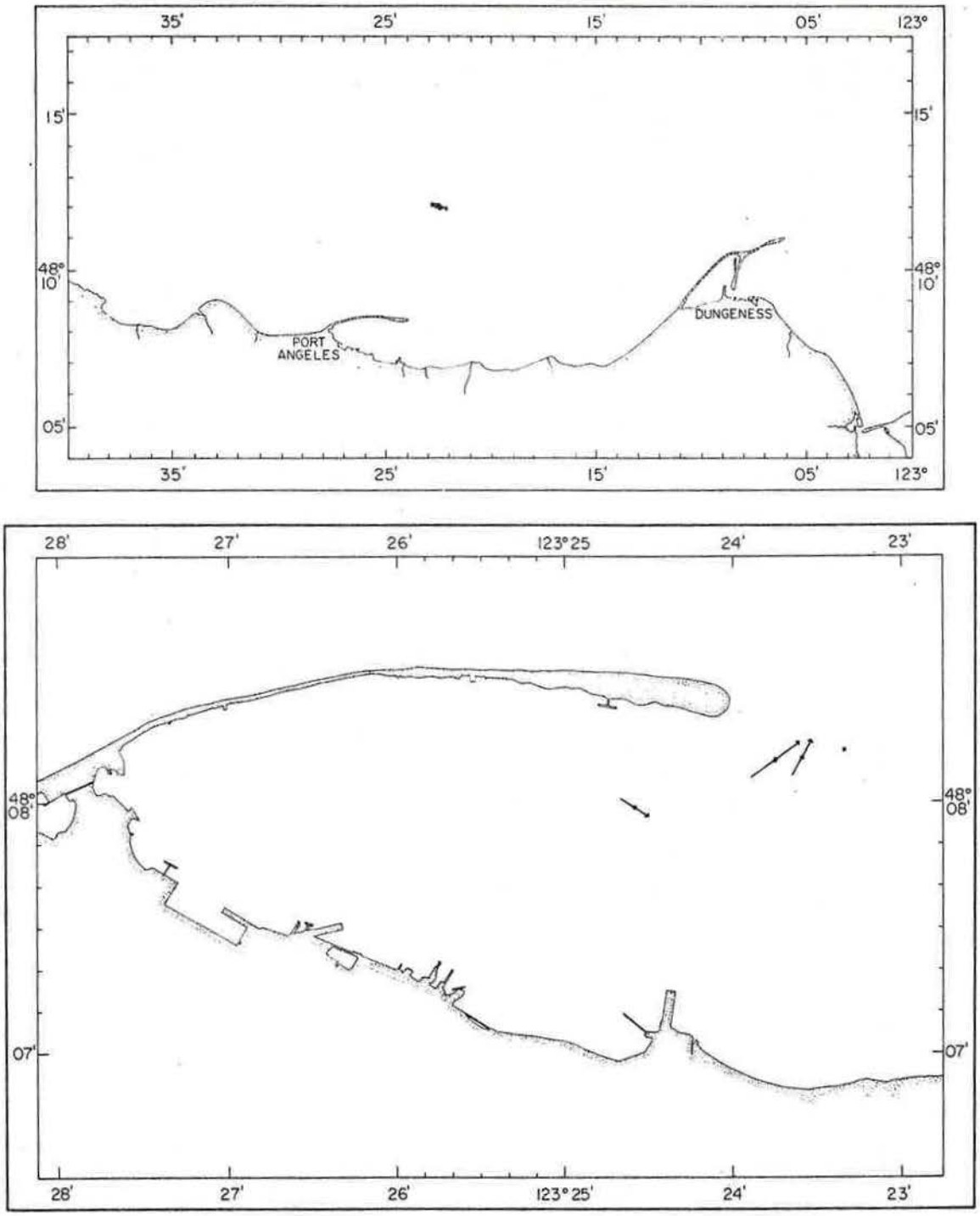
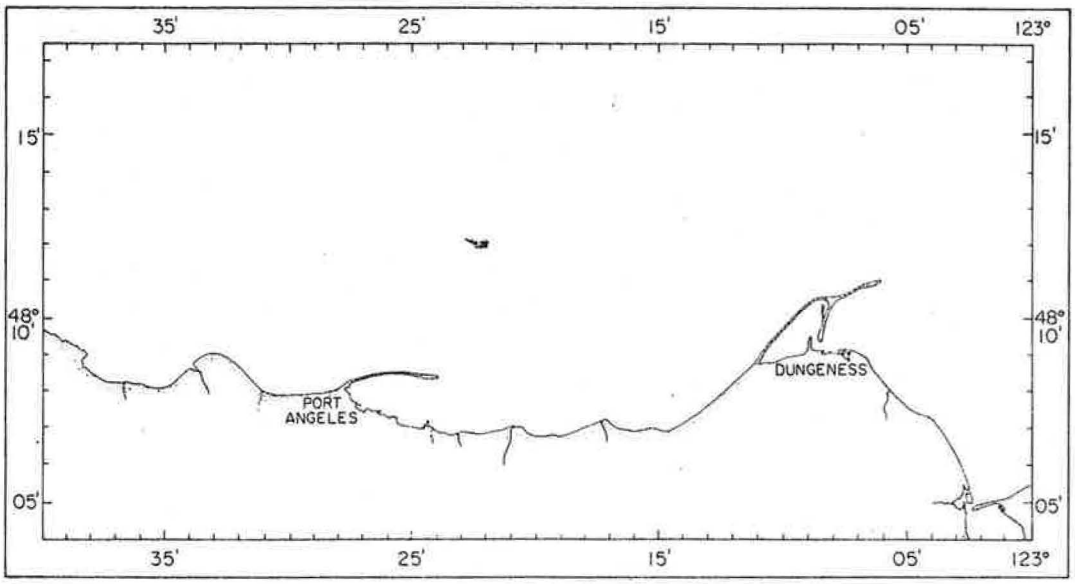


Plate 3f2. Spatial vector diagram at 0900, 28 April 1978.



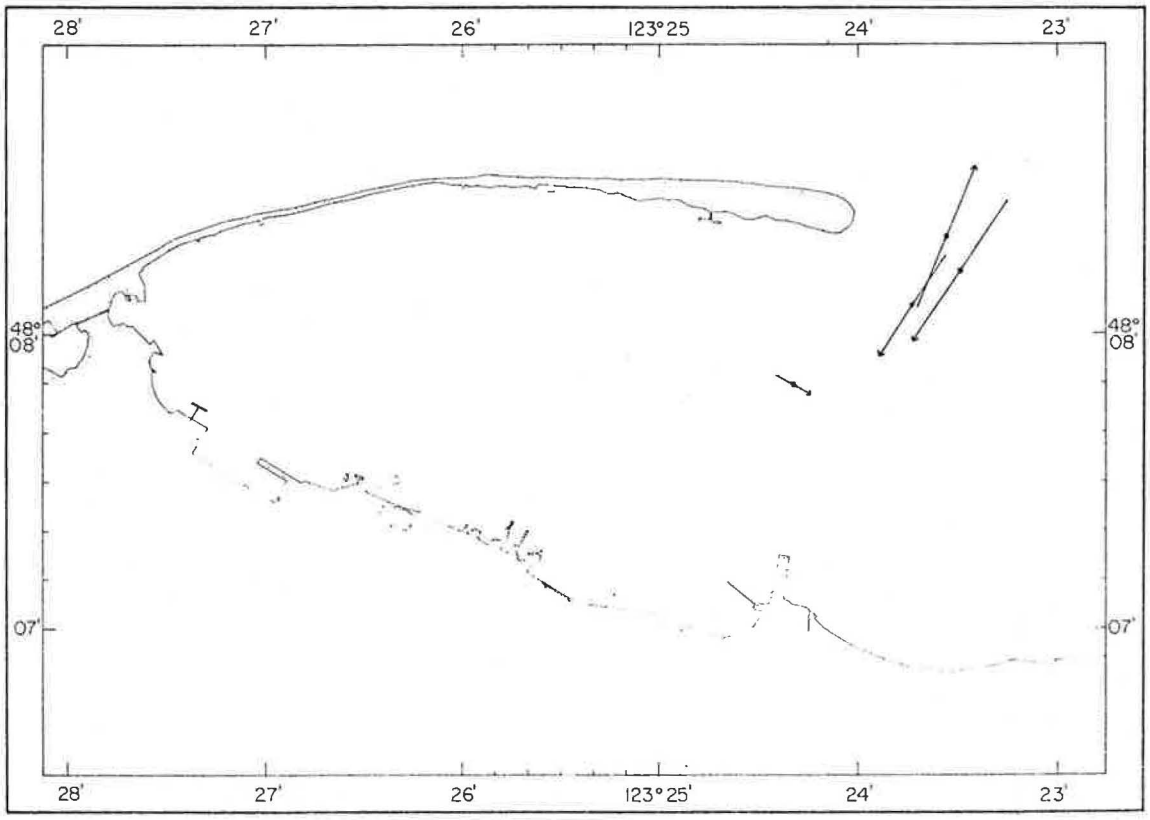


Plate 3f3. Spatial vector diagram at 1000, 28 April 1978.

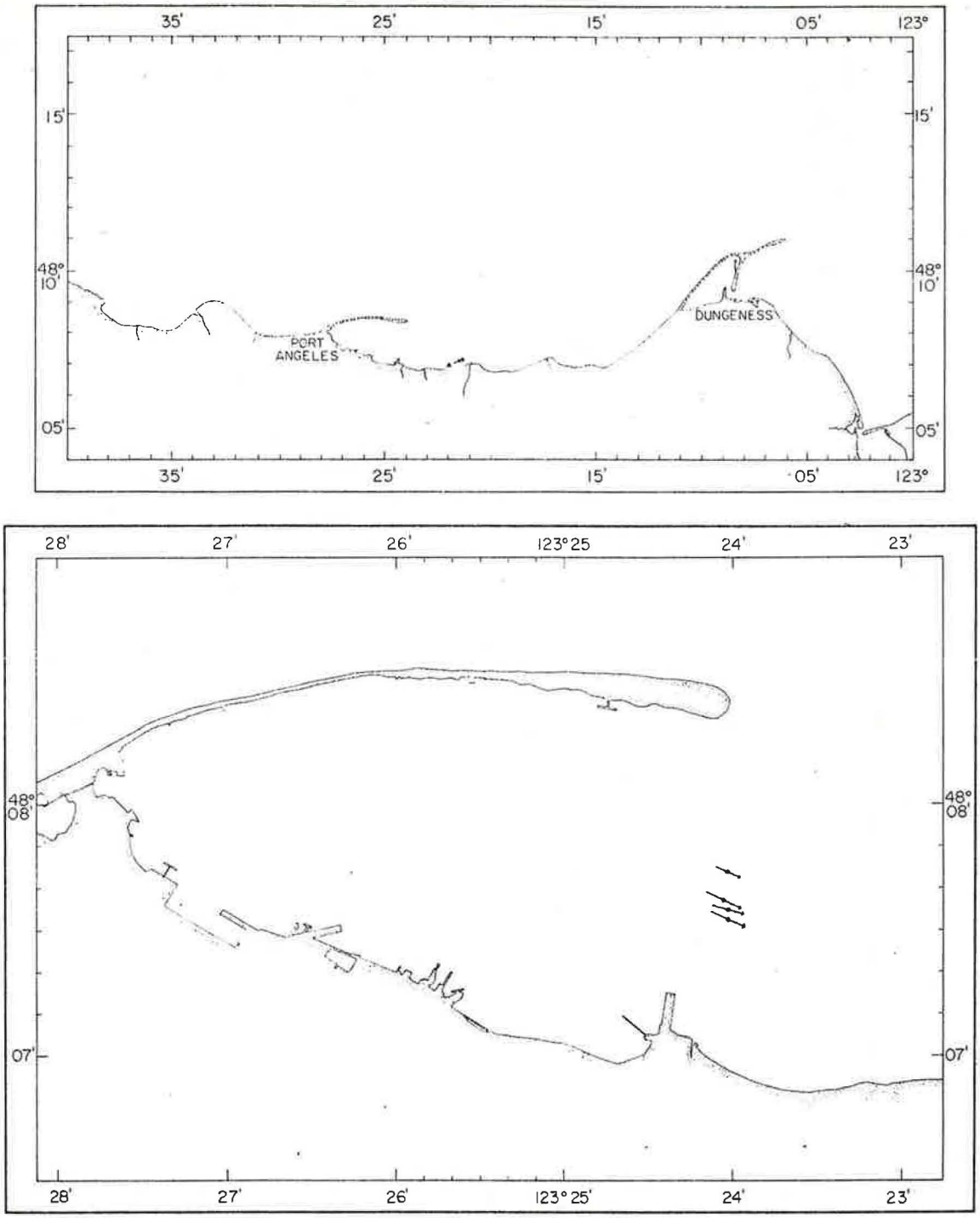
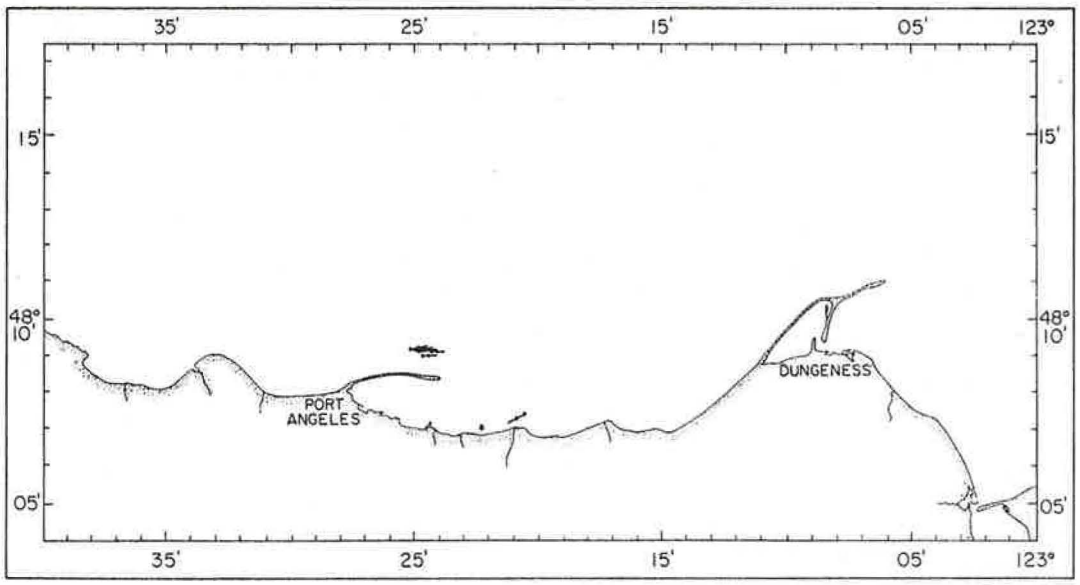


Plate 3f4. Spatial vector diagram at 1100, 28 April 1978.



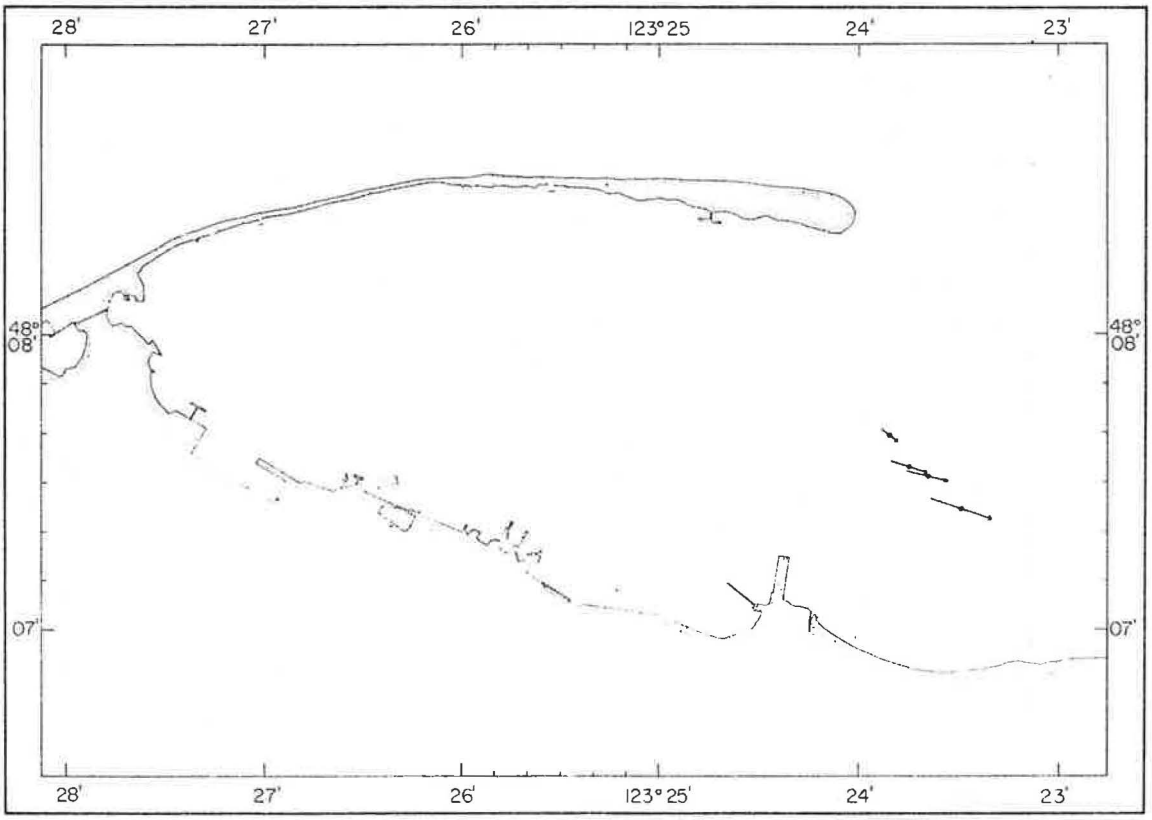


Plate 3f5. Spatial vector diagram at 1200, 28 April 1978.

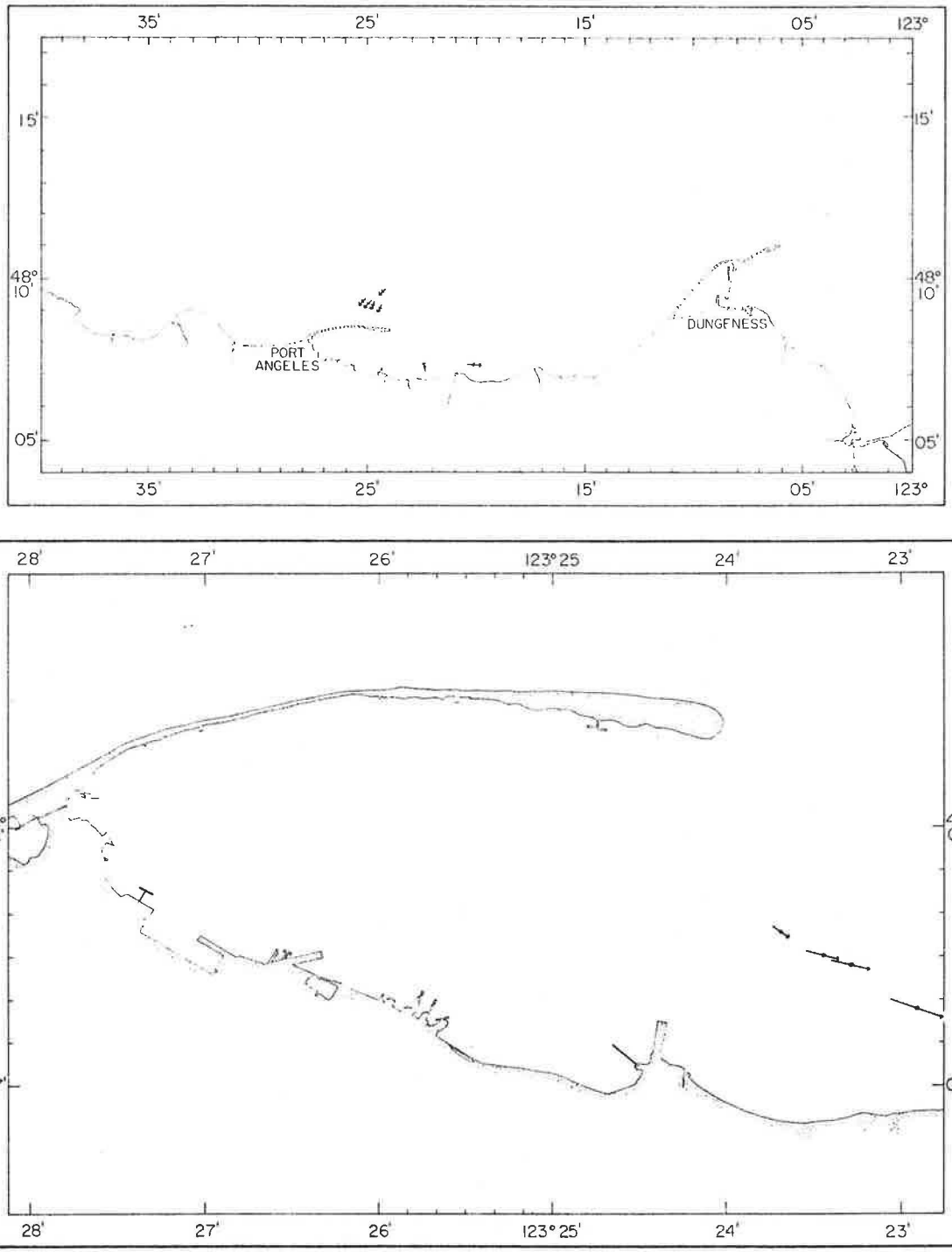


Plate 3f6. Spatial vector diagram at 1300, 28 April 1978.

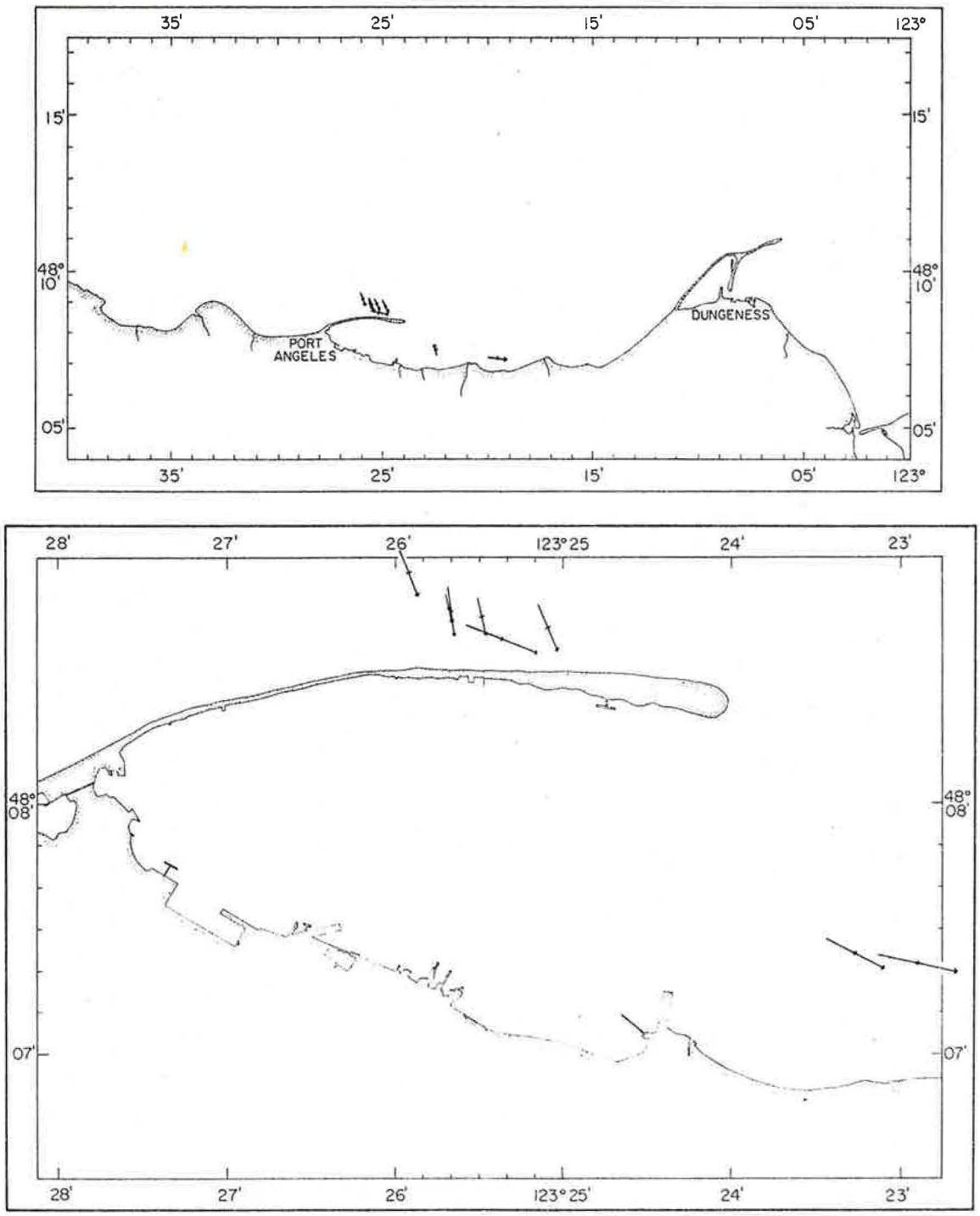
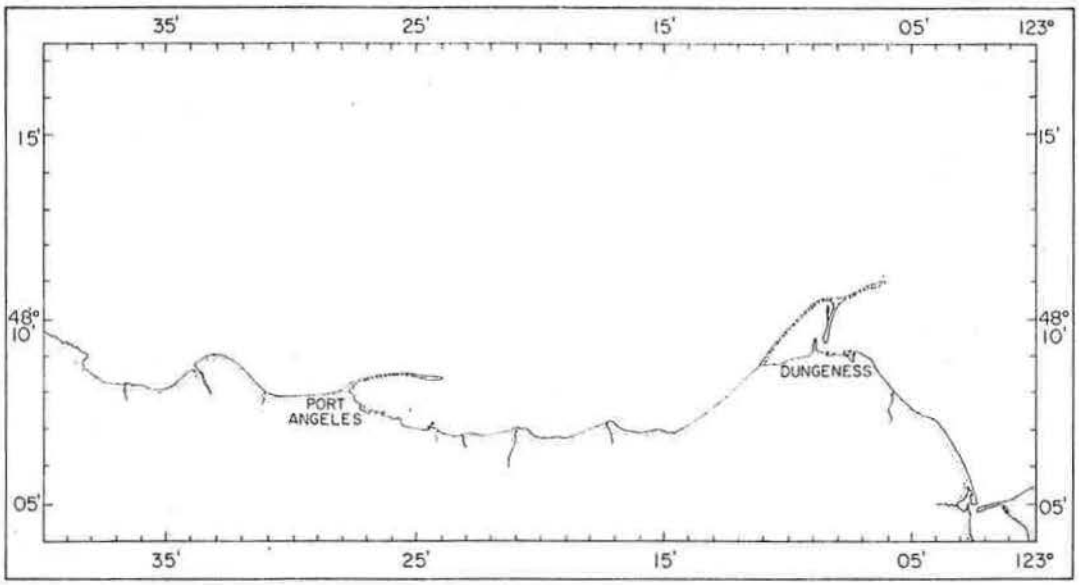


Plate 3f7. Spatial vector diagram at 1400, 28 April 1978.



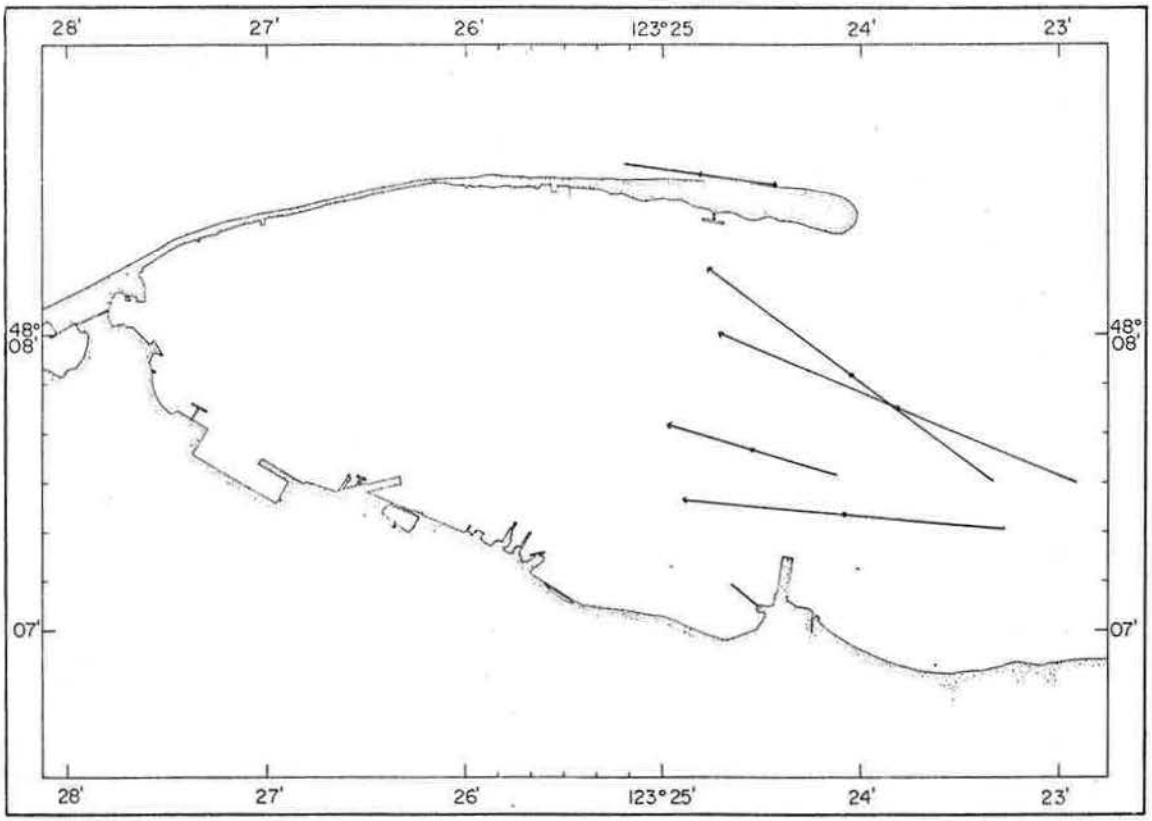


Plate 3f8. Spatial vector diagram at 1500, 28 April 1978.

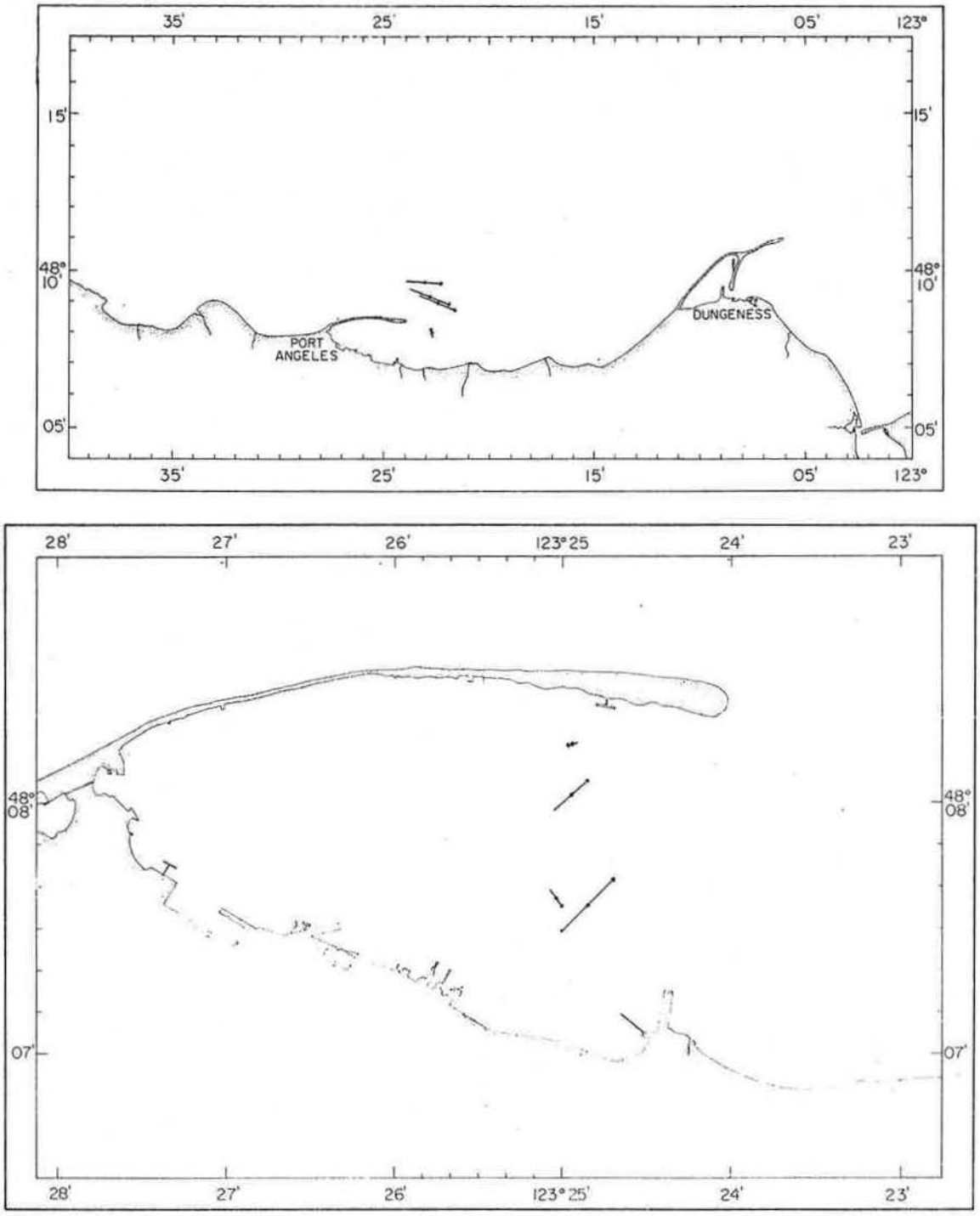


Plate 3f9. Spatial vector diagram at 1600, 28 April 1978.

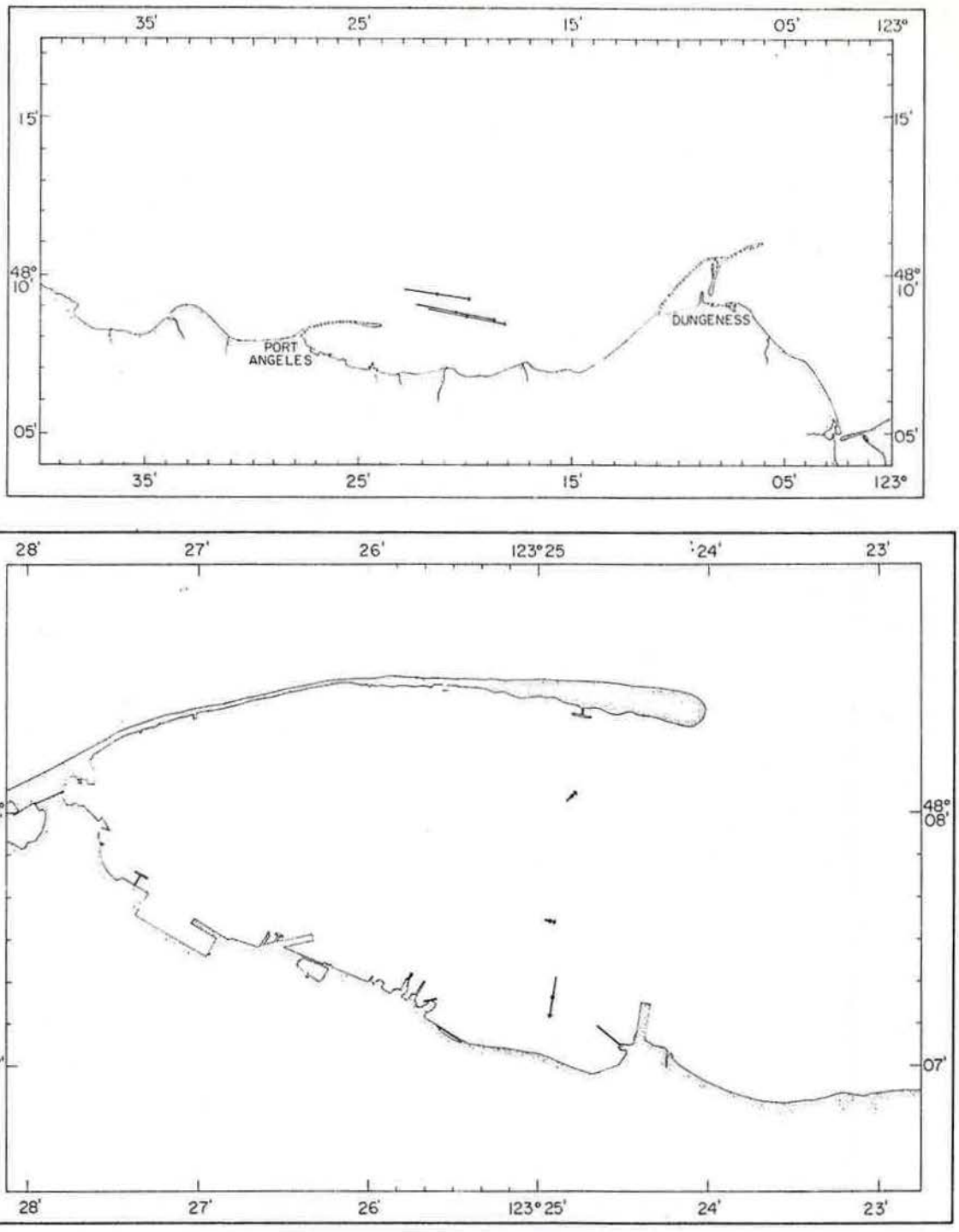


Plate 3f10. Spatial vector diagram at 1700, 28 April 1978.

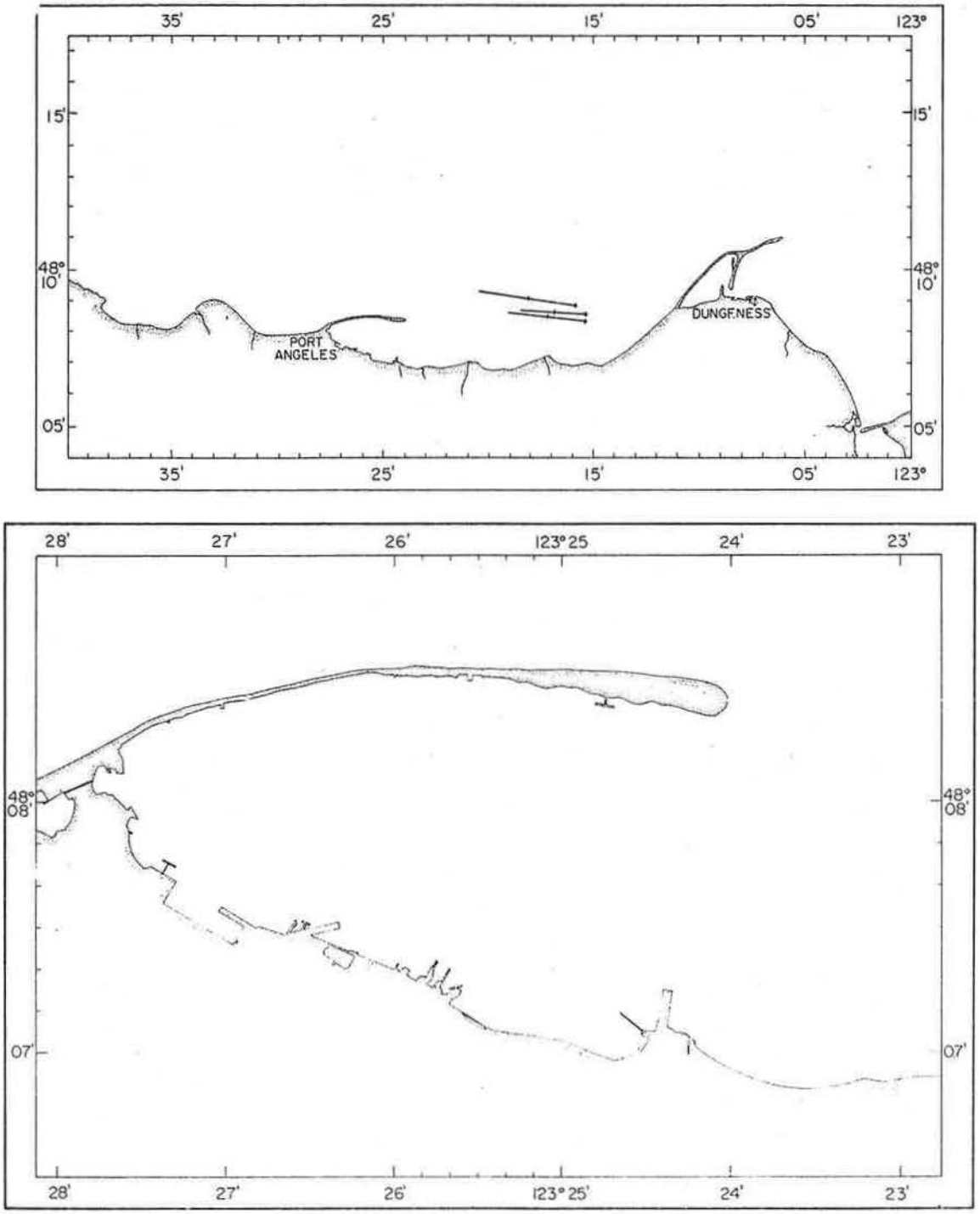


Plate 3f11. Spatial vector diagram at 1800, 28 April 1978.

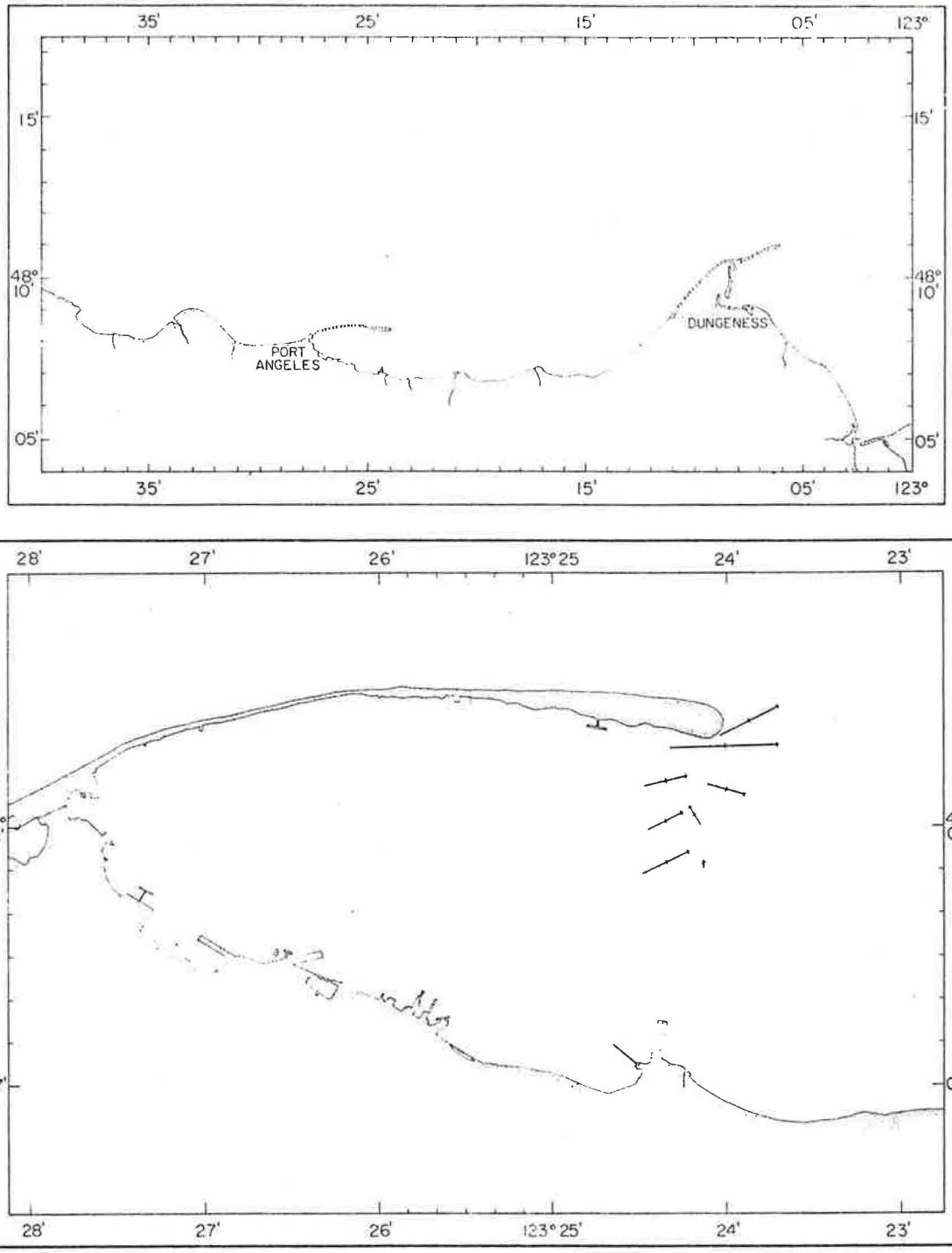


Plate 3g1. Spatial vector diagram at 0700, 29 April 1978.

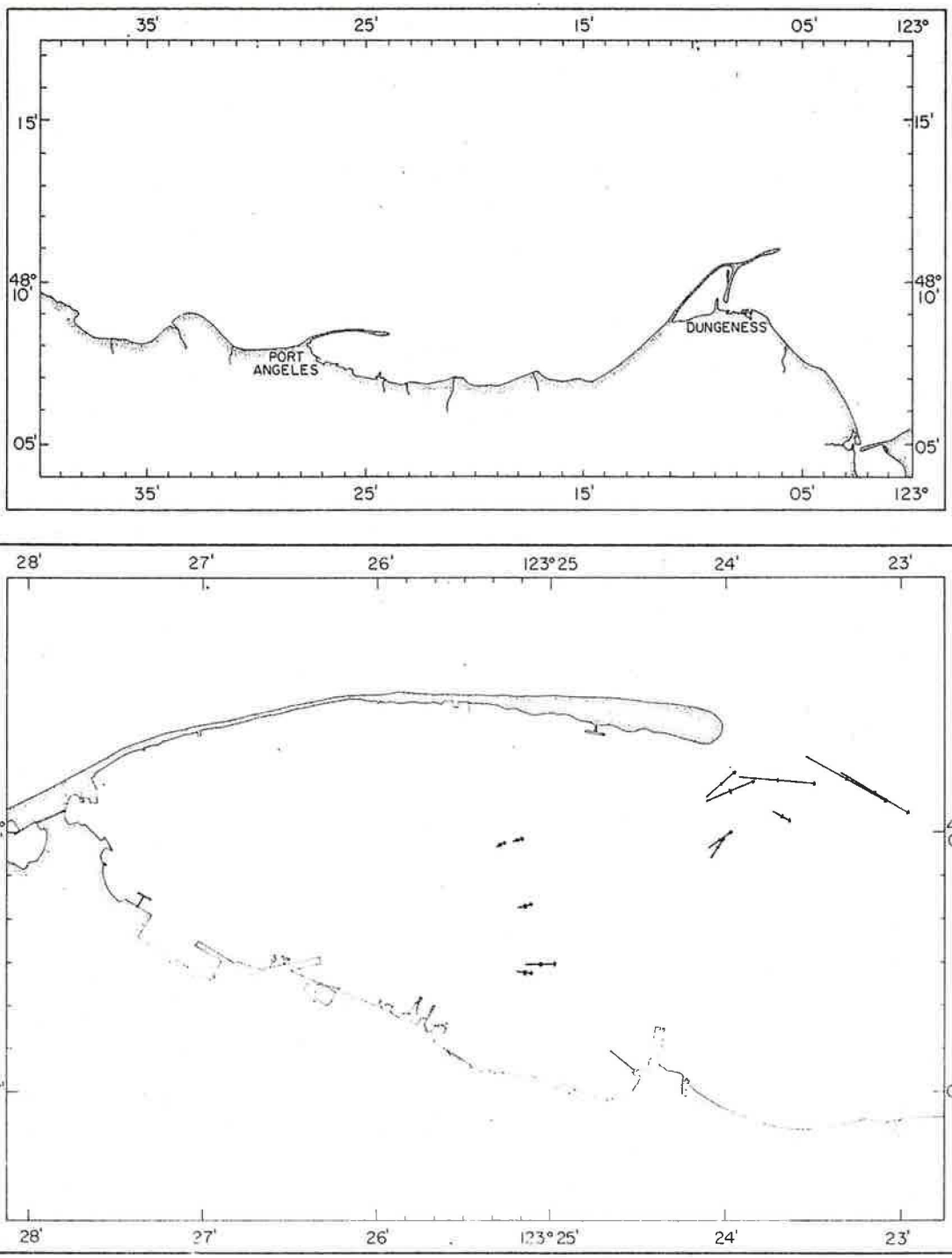
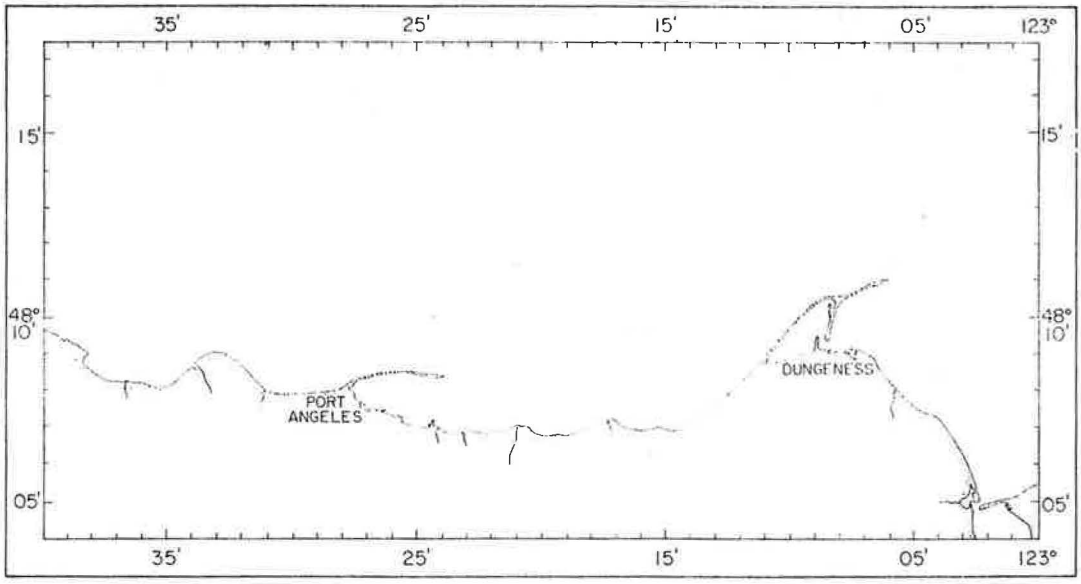


Plate 3g2. Spatial vector diagram at 0800, 29 April 1978.



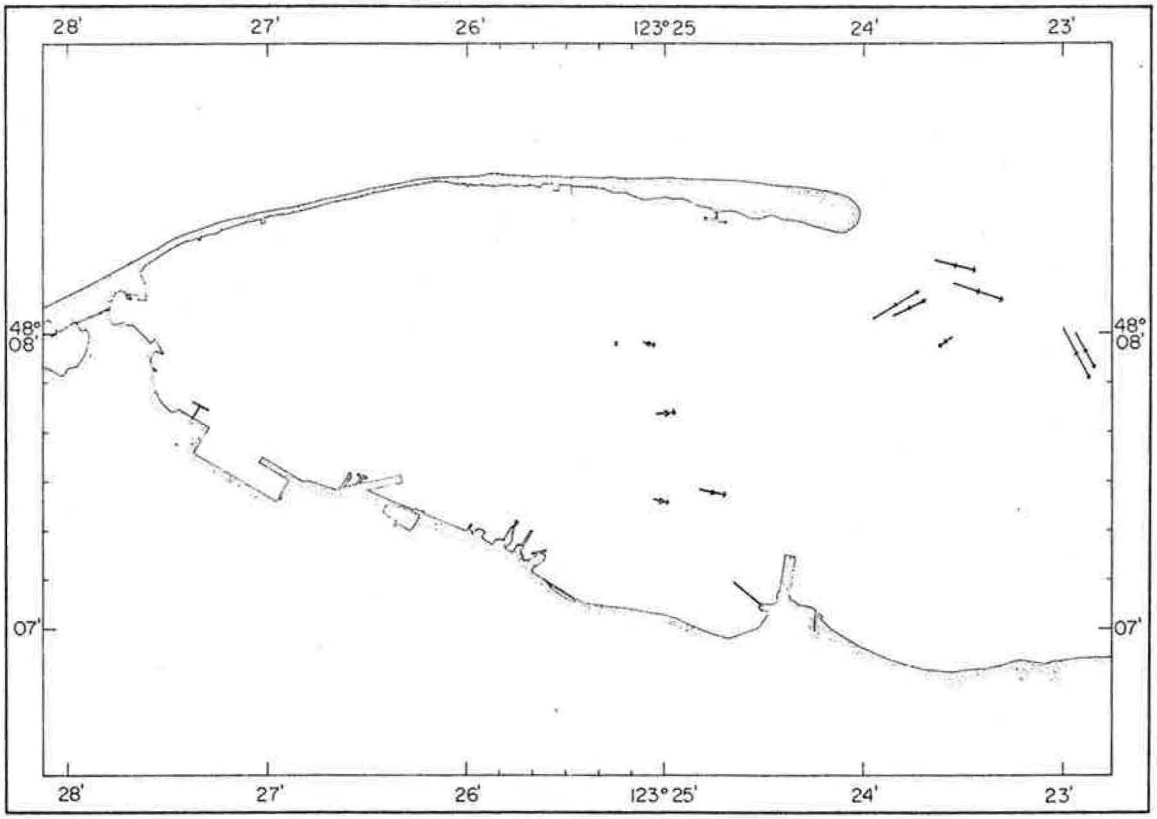


Plate 3g3. Spatial vector diagram at 0900, 29 April 1978.

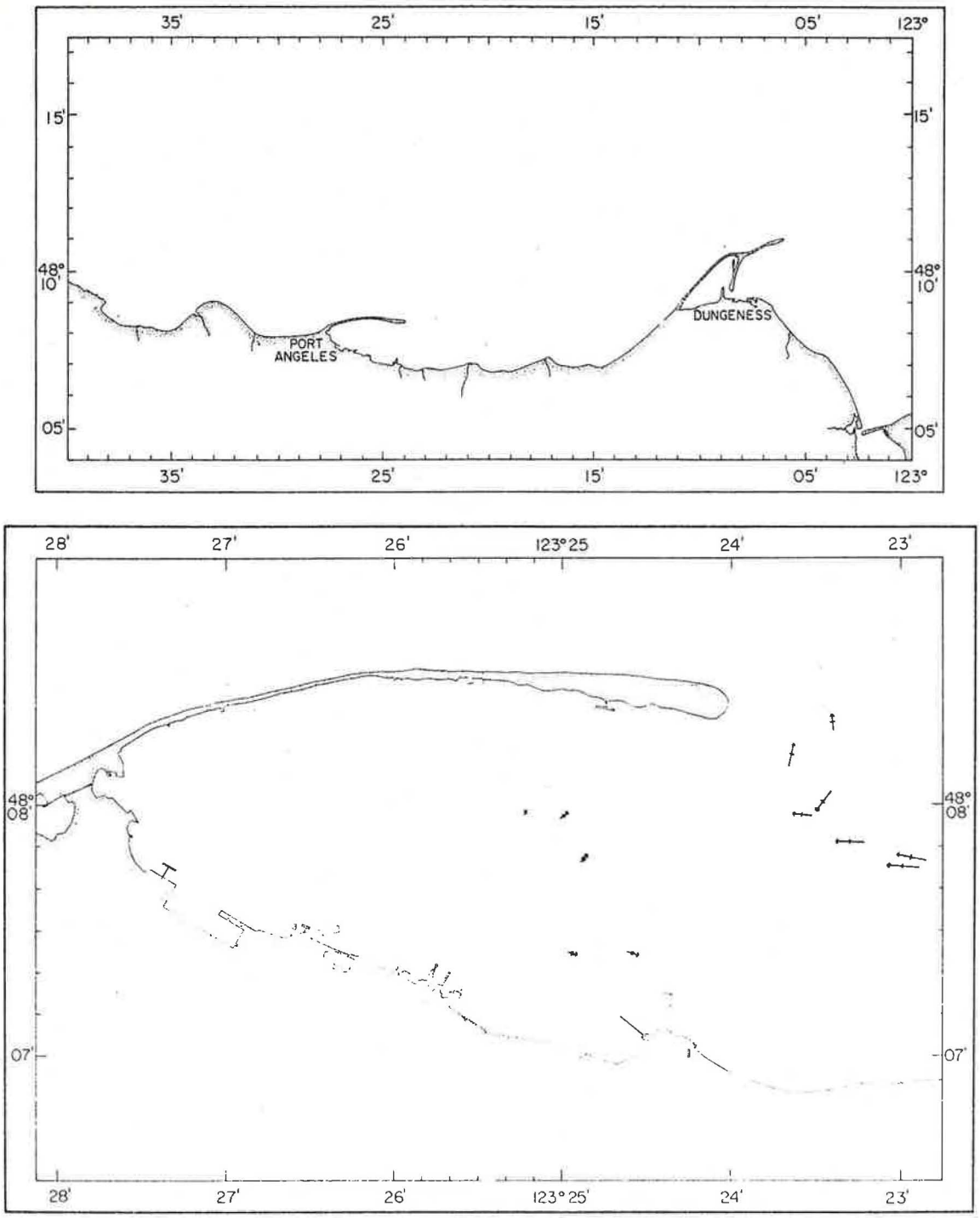


Plate 3g4. Spatial vector diagram at 1000, 29 April 1978.

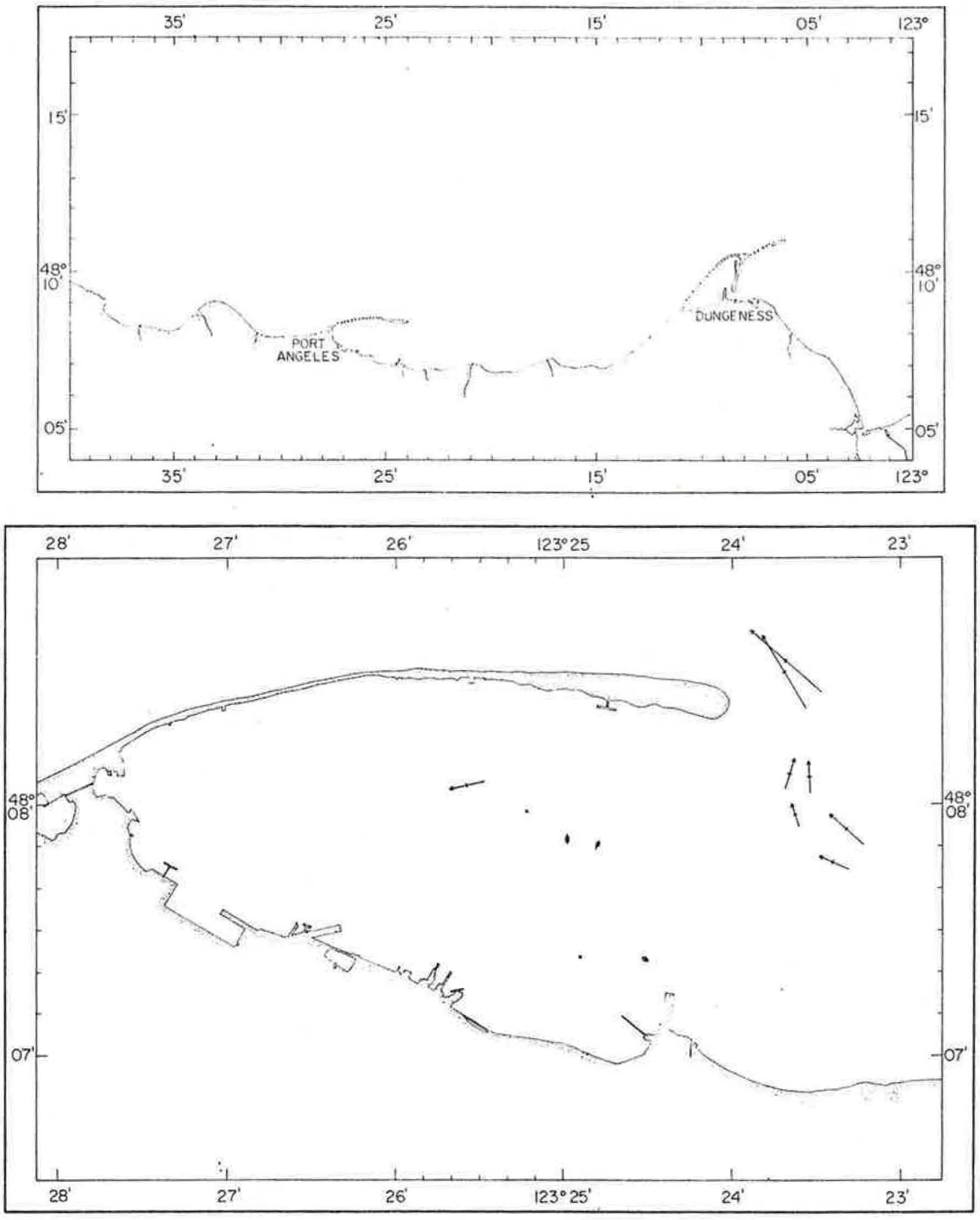


Plate 3g5. Spatial vector diagram at 1100, 29 April 1978.

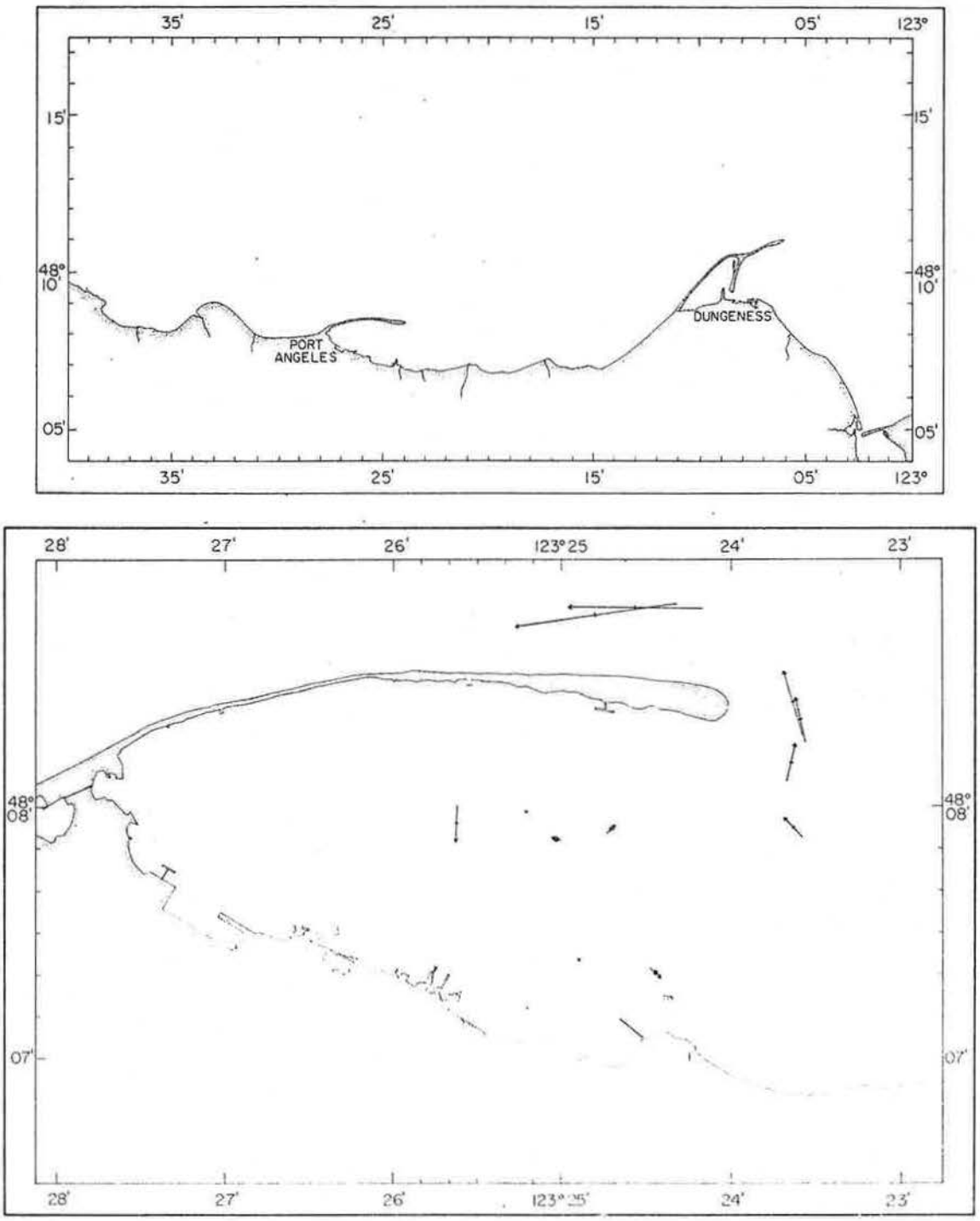


Plate 3g6. Spatial vector diagram at 1200, 29 April 1978.

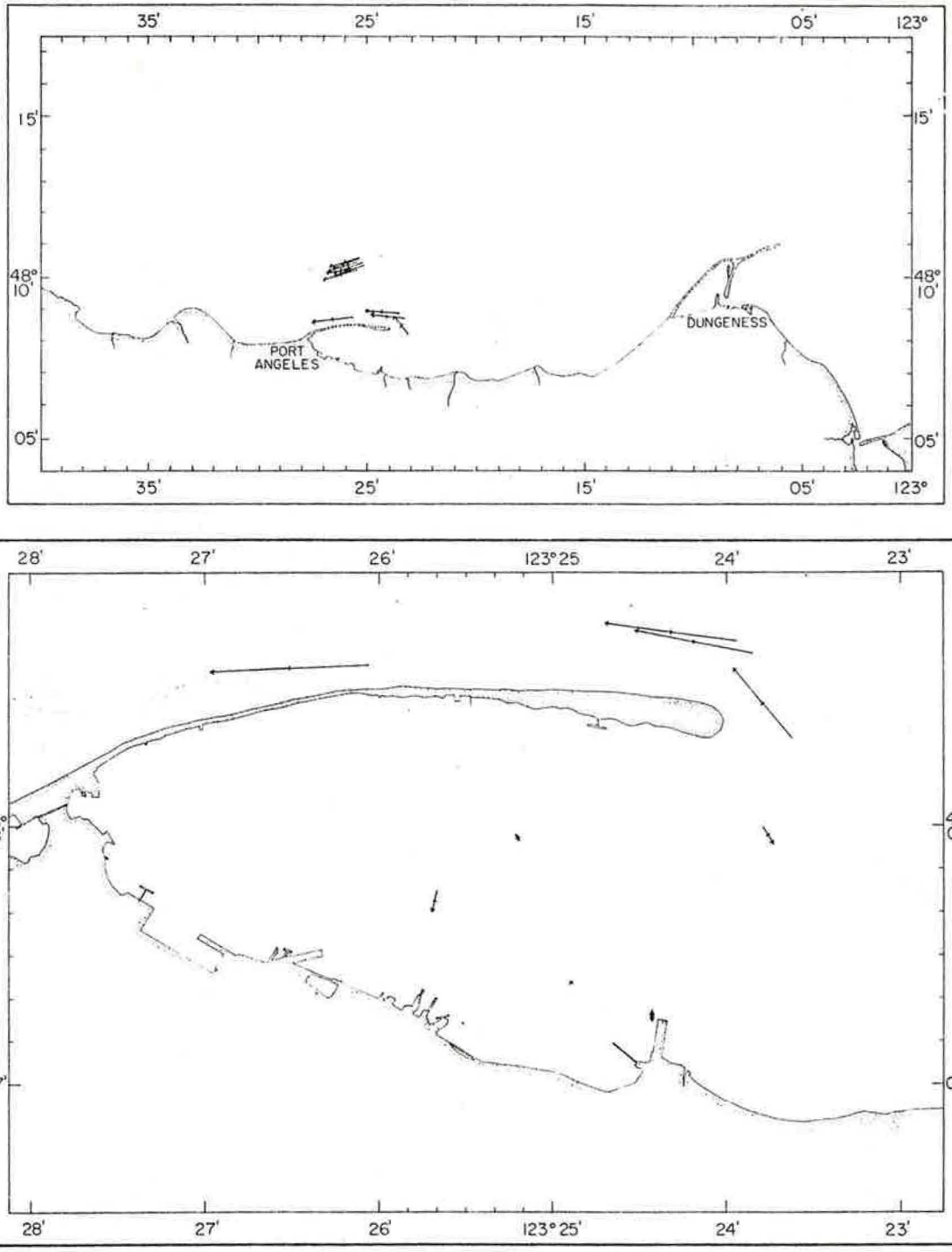
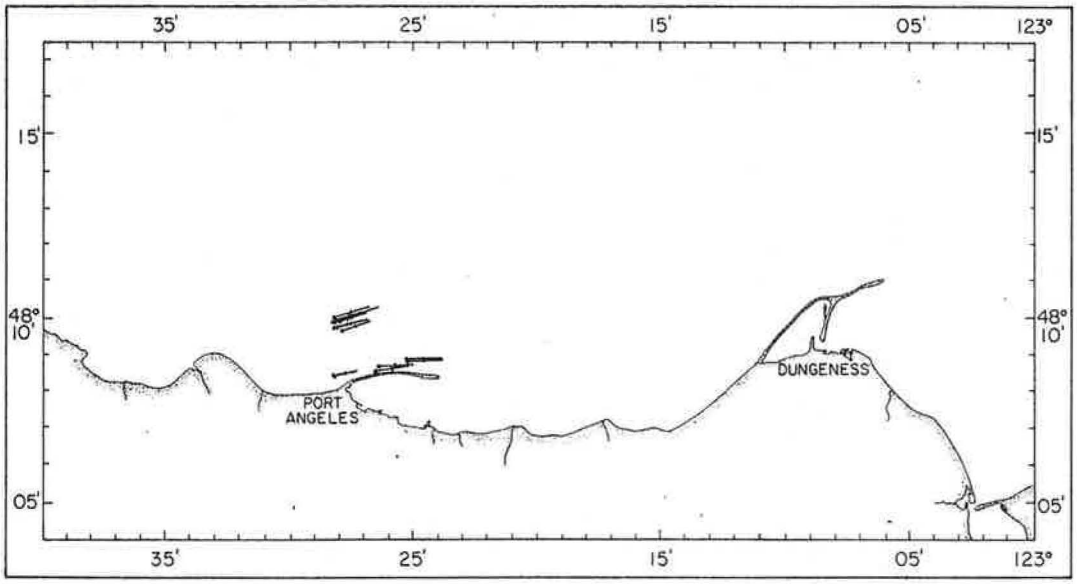


Plate 3g7. Spatial vector diagram at 1300, 29 April 1978.



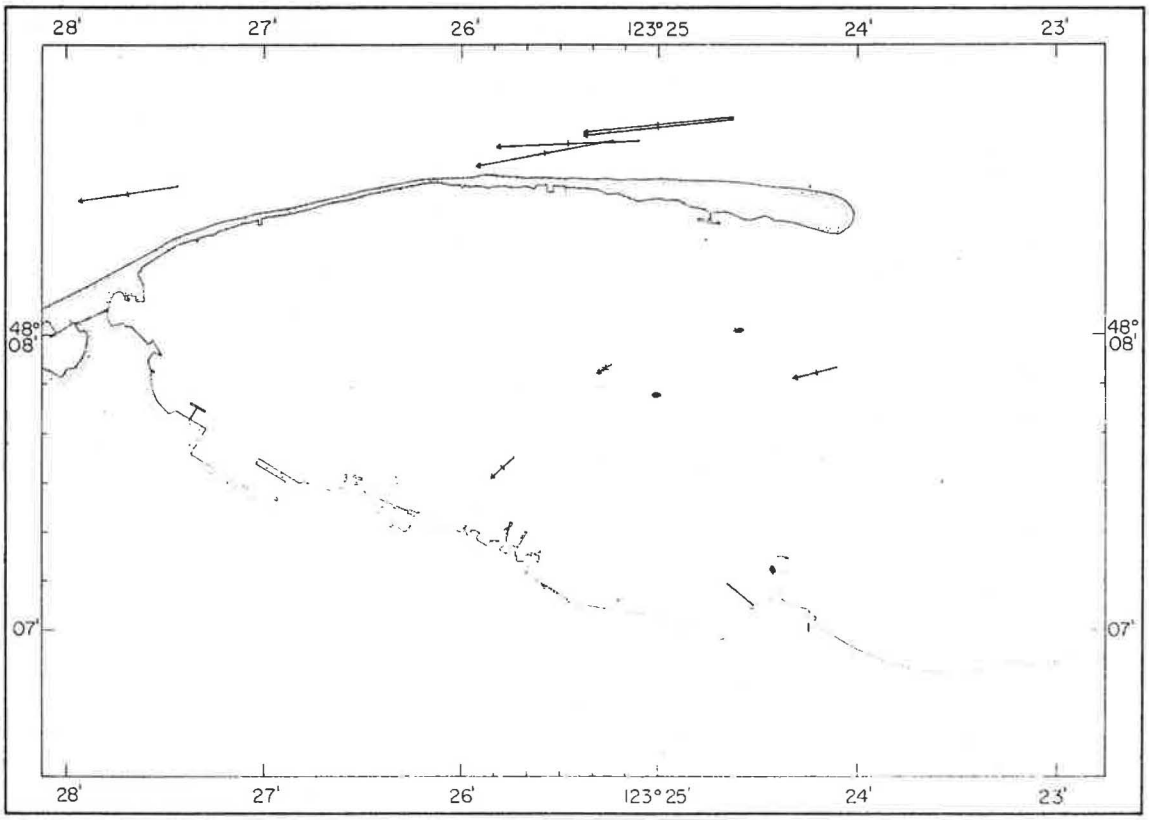


Plate 3g8. Spatial vector diagram at 1400, 29 April 1978.

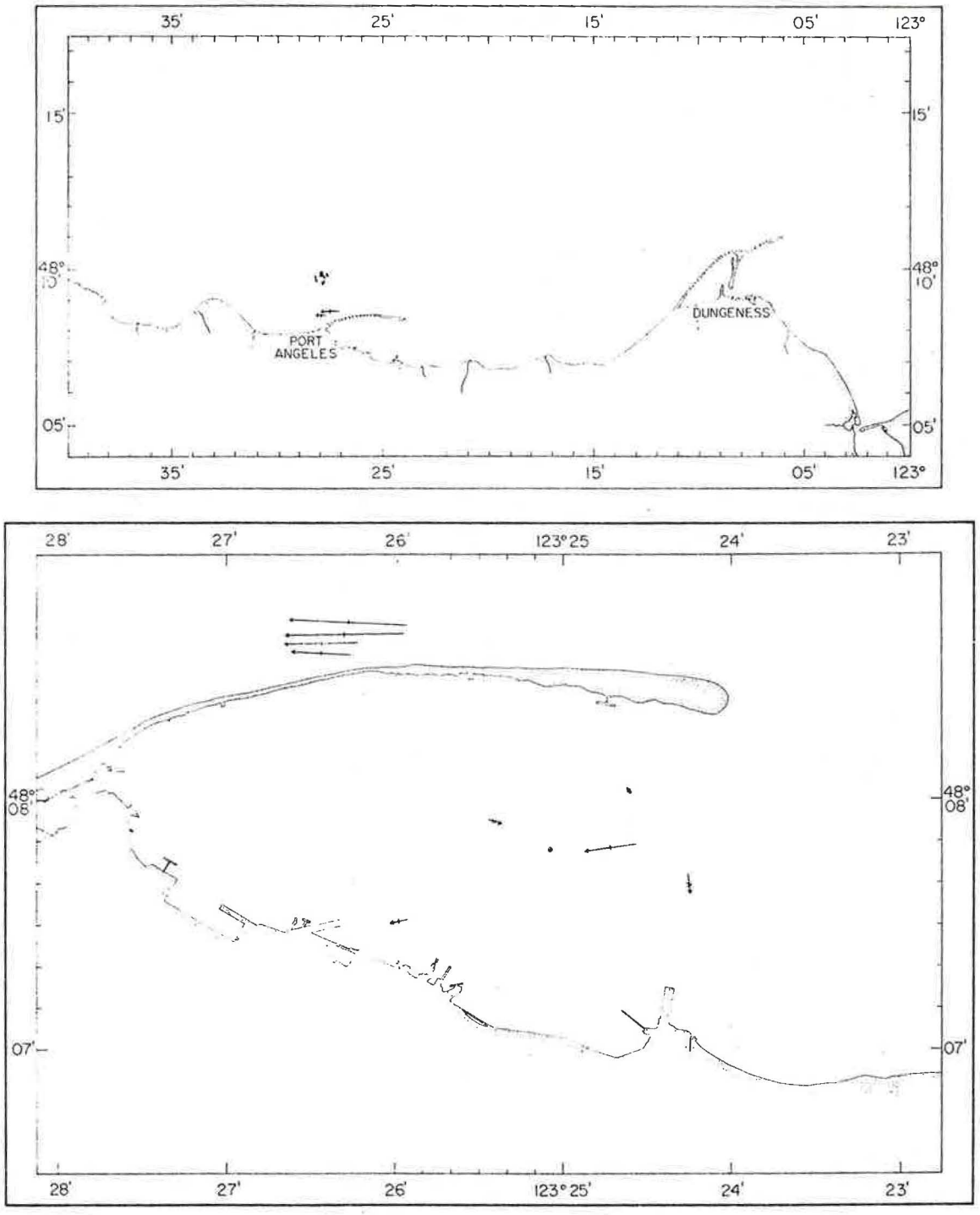


Plate 3g9. Spatial vector diagram at 1500, 29 April 1978.

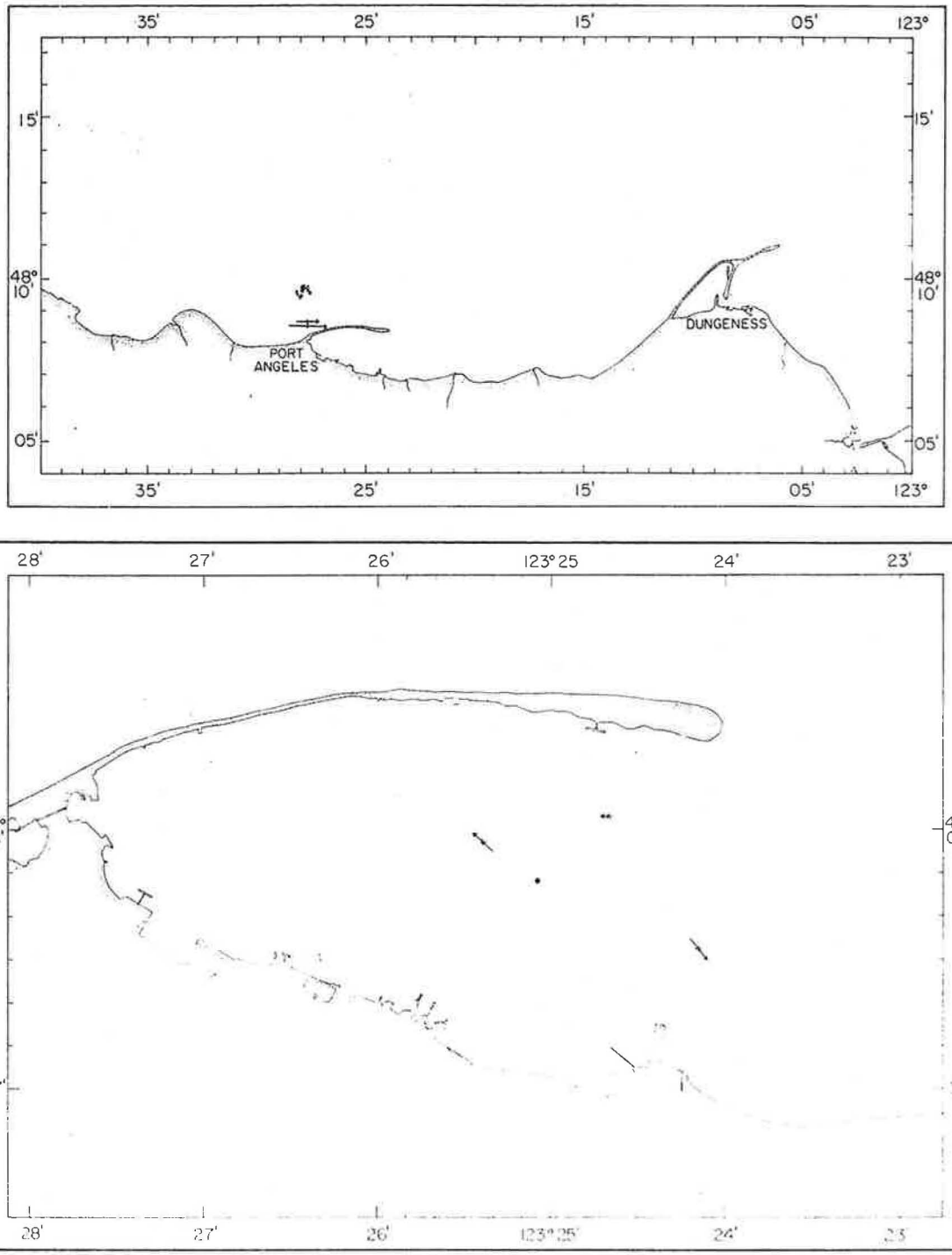


Plate 3g10. Spatial vector diagram at 1600, 29 April 1978.

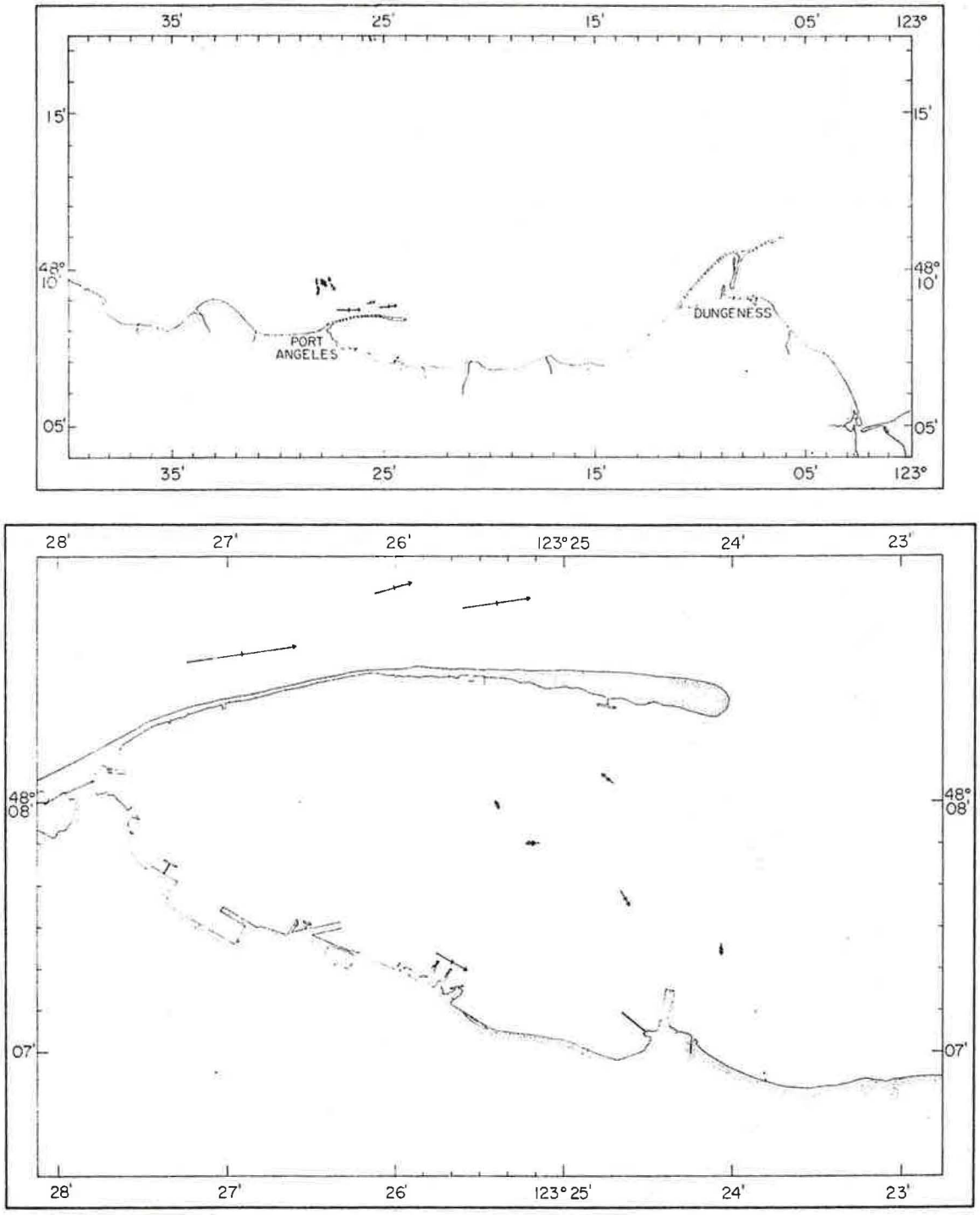


Plate 3g11. Spatial vector diagram at 1700, 29 April 1978.

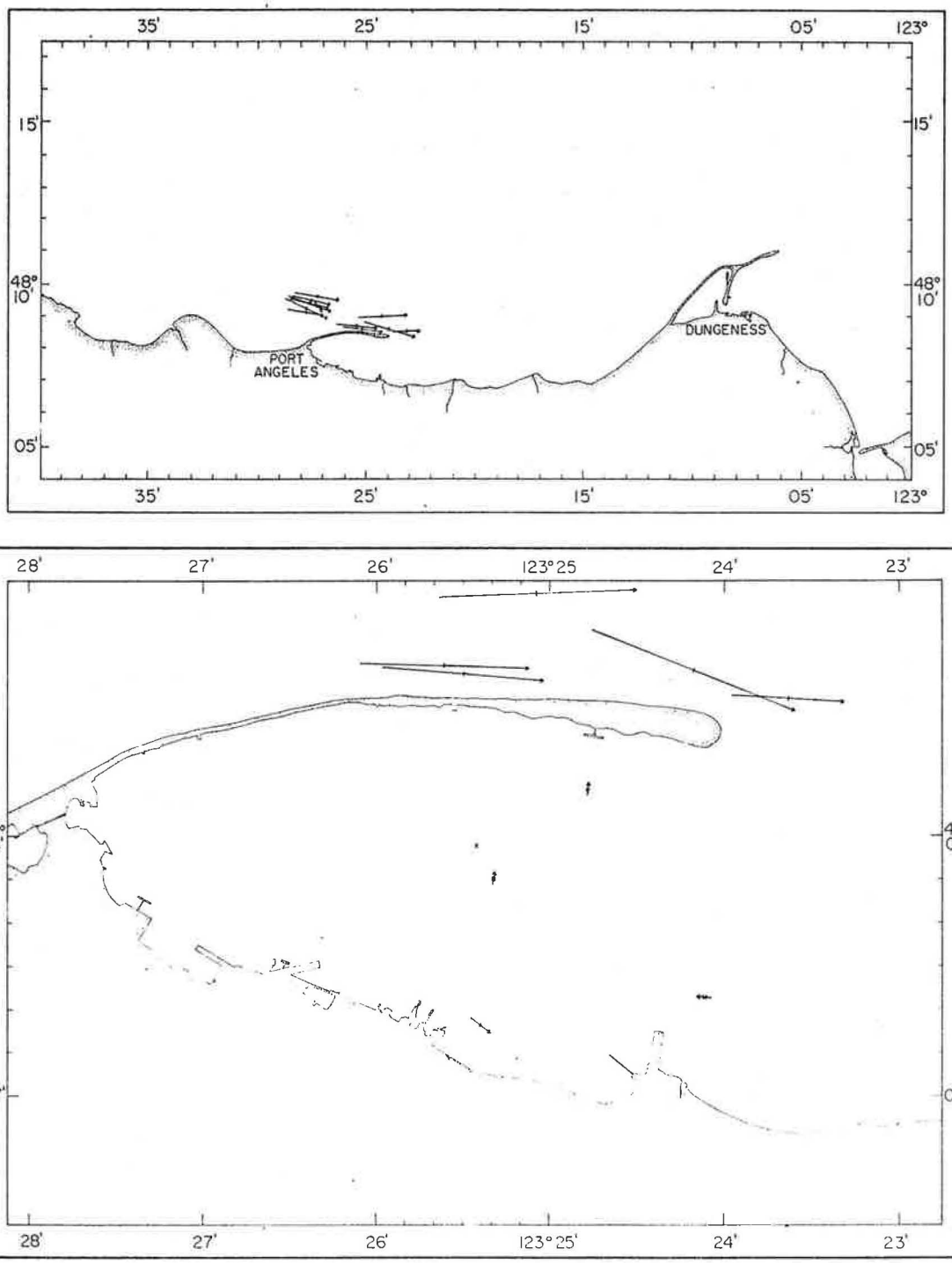


Plate 3g12. Spatial vector diagram at 1800, 29 April 1978.

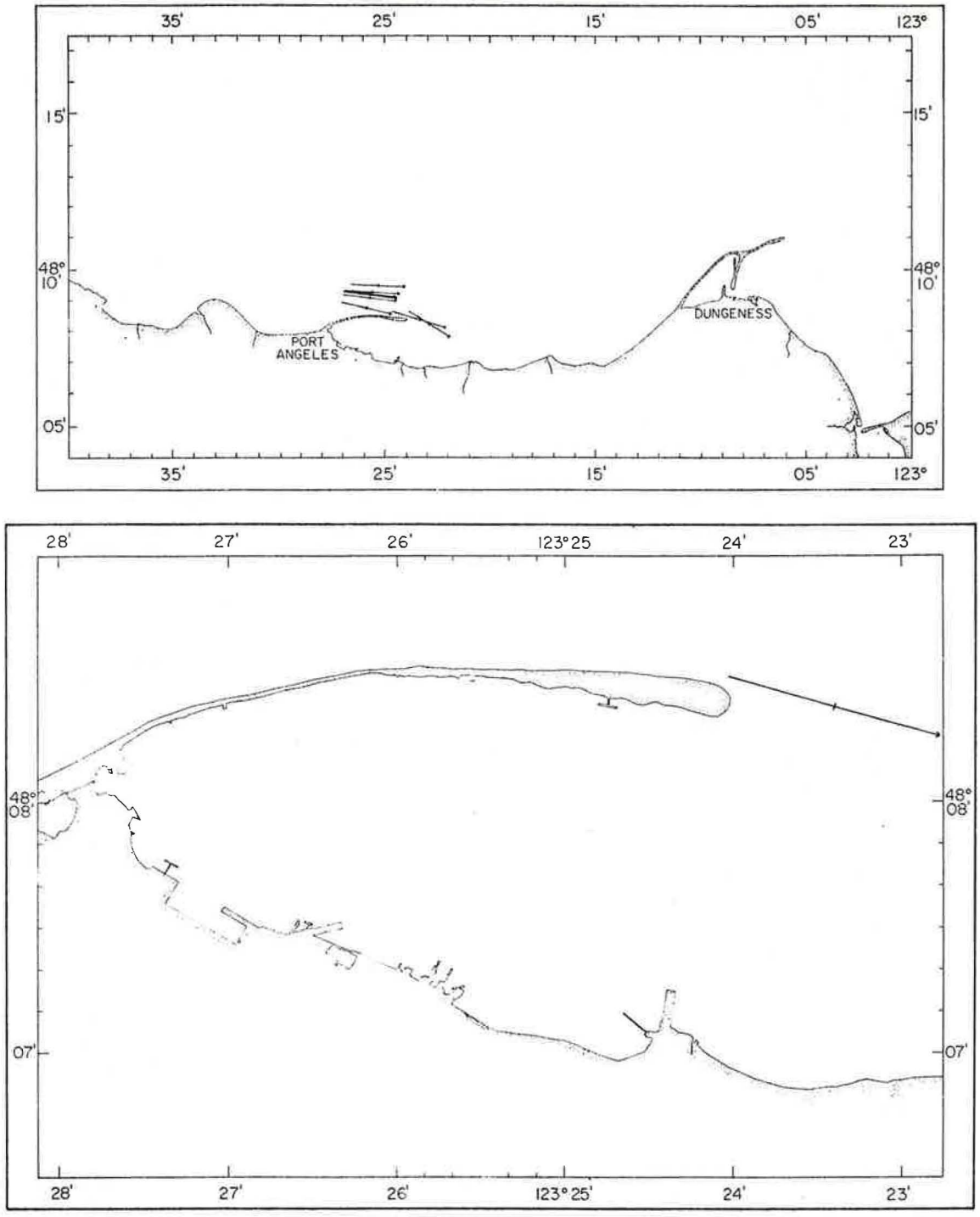


Plate 3g13. Spatial vector diagram at 1900, 29 April 1978.

Plates 4a - 4h. Winds recorded at shore stations. Locations are shown in Figure 1c. Winds recorded at Port Angeles and New Dungeness are shown in Figure 4. Letters a-h in plate code correspond to 23-30 April 1978, respectively.

Plate 4a. Summary of wind direction and speed recorded at shore based stations on 23 April 1978.

Example: NW 05 = 5 knots from northwest.

Hour (PST*)	New Dungeness	Smith Is.	Port Angeles	Race Rocks	Trial Is.	Discovery
1	WSW 05	S 08				
2					Not Available	
3						
4	SSW 05	SSE 07	SSW 05			
5						
6						
7	SSE 04	S 07	Calm			
8						
9						
10	ESE 12	S 05				
11						
12						
13	E 13	N 04	N 07			
14						
15						
16	NNE 12	NNE 05				
17			N 02			
18						
19	NNE 06	NE 04				
20						
21						
22	W 4	NE 3				
23						
24						

*PST = Pacific Standard Time

Plate 4b. Summary of wind direction and speed recorded at shore based stations on 24 April 1978.

Example: NW 05 = 5 knots from northwest.

Hour (PST*)	New Dungeness	Smith Is.	Port Angeles	Race Rocks	Trial Is.	Discovery
1	W 05	Calm				
2						
3						
4	W 02	ESE 06	Calm	NE 15	N 16	N 15
5						
6						
7	0 4	ESE 9	Calm	NE 21	N 20	N 18
8						
9				NE 18	N 20	N 18
10	WNW 05	E 07	Calm			
11						
12				NE 20	N 18	N 20
13	NW 04	ENE 06	Calm			
14						
15				NE 15	N 20	N 15
16	NW 03	Calm				
17			SE 04			
18				SE 10	N 14	NE 12
19	WNW 06	WNW 07	E 04			
20				SE 10	N 12	NE 12
21						
22	NE 3	N 4				
23						
24						

*PST = Pacific Standard Time

Plate 4c. Summary of wind direction and speed recorded at shore based stations on 25 April 1978.

Example: NW 05 = 5 knots from northwest.

Hour (PST*)	New Dungeness	Smith Is.	Port Angeles	Race Rocks	Trial Is.	Discovery
1	W 04	NNE 05				
2						
3						
4	W 04	NNE 04	Calm	S 5	N 14	N 8
5						
6						
7	NNW 05	NNE 06	Calm	SE 3	Calm	N 8
8						
9				S 5	W 4	N 8
10	WNW 05	NNW 08	Calm			
11						
12				S 2	W 3	W 5
13	WNW 03	NNW 09				
14						
15				S 5	SW 7	W 5
16	SW 02	Calm				
17						
18				W 10	SW 12	W 8
19	W 13	W 06				
20				W 20	SW 15	W 10
21						
22	W 14	NNW 12				
23						
24						

*PST = Pacific Standard Time

Plate 4d. Summary of wind direction and speed recorded at shore based stations on 26 April 1978.

Example: NW 05 = 5 knots from northwest.

Hour (PST*)	New Dungeness	Smith Is.	Port Angeles	Race Rocks	Trial Is.	Discovery
1	WNW 16	NW 16				
2						
3						
4	WNW 16	N 18	W 12	W 25	W 24	W 15
5						
6						
7	NW 14	SW 12	W 10	W 23	W 14	W 15
8						
9				W 24	W 20	W 15
10	WNW 14	NNW 10	W 14			
11						
12						
13	NW 14	WNW 10	W 13			
14						
15				W 32	W 26	W 20
16	W 21	W 15				
17						
18				W 35	W 32	W 30
19	W 18	NNW 20	W 20			
20				W 35	W 28	W 30
21						
22	WNW 18	W 14				
23						
24						

*PST = Pacific Standard Time

Plate 4e. Summary of wind direction and speed recorded at shore based stations on 27 April 1978.

Example: NW 05 = 5 knots from northwest.

Hour (PST*)	New Dungeness	Smith Is.	Port Angeles	Race Rocks	Trial Is.	Discovery
1	WNW 15	NW 18				
2						
3						
4	WNW 13	NW 19	W 10	W 36	W 26	W 20
5						
6						
7	WNW 12	WNW 14	W 07			
8						
9				W 30	W 20	W 20
10	NW 17	NNE 11				
11						
12				W 20	SW 20	W 20
13	W 13	W 14	W 08			
14						
15				W 25	N 5	N 5
16	W 14	WNW 13				
17						
18				W 25	SW 18	W 15
19	W 14	W 18	W 10			
20						
21						
22		WNW 12				
23						
24						

*PST = Pacific Standard Time

Plate 4f. Summary of wind direction and speed recorded at shore based stations on 28 April 1978.

Example: NW 05 = 5 knots from northwest.

Hour (PST*)	New Dungeness	Smith Is.	Port Angeles	Race Rocks	Trial Is.	Discovery
1	WNW 21	WNW 24				
2						
3						
4	NW 25	NW 22	W 15	W 28	W 22	W 15
5						
6						
7	NNW 27	NW 22	W 20	W 28	W 27	W 25
8						
9				W 28	W 26	W 30
10	NNW 22	WNW 18	WNW 18			
11						
12				W 25	W 25	W 30
13	NW 18	NNW 11				
14						
15				W 30	W 25	W 25
16	WNW 20	NNW 11	WNW 10			
17						
18				W 30	W 27	W 25
19	NW 20	NNW 17	W 20			
20				W 25	W 28	W 25
21						
22	WNW 18	NW 18				
23						
24						

*PST = Pacific Standard Time

Plate 4g. Summary of wind direction and speed recorded at shore based stations on 29 April 1978.

Example: NW 05 = 5 knots from northwest.

Hour (PST*)	New Dungeness	Smith Is.	Port Angeles	Race Rocks	Trial Is.	Discovery
1	NW 13	NW 15				
2						
3						
4	W 08	WNW 12	SW 05	W 20	W 18	W 12
5						
6						
7	WSW 06	W 07	SSW 04	W 14	W 14	W 15
8						
9				W 10	W 10	W 8
10	NNW 03	WSW 04	NW 05			
11						
12				W 6	Calm	W 5
13	ENE 05	NNW 03	NNW 03			
14						
15				SW 5	SE 8	W 8
16	N 03	N 03				
17						
18				W 10	SW 10	W 8
19	NW 07	NNW 07	W 10			
20				W 10	SW 10	W 8
21						
22	S 03	W 02				
23						
24						

*PST = Pacific Standard Time

Plate 4h. Summary of wind direction and speed recorded at shore based stations on 30 April 1978.

Example: NW 05 = 5 knots from northwest.

Hour (PST*)	New Dungeness	Smith Is.	Port Angeles	Race Rocks	Trial Is.	Discovery
1	SW 04	NW 04				
2						
3						
4	WNW 07	NNW 02	SW 02	S 3	N 3	N 5
5						
6						
7	WNW 02	WNW 05	Calm	W 5	S 5	Calm
8						
9				Calm	Calm	E 4
10	N 02	SSW 04	NW 02			
11						
12				W 5	E 5	E 3
13	NNE 03	WNW 06	Calm			
14						
15						
16	N 03	NNW 03		W 5	SE 5	E 5
17						
18				W 5	SW 5	W 8
19	WNW 09	NNW 06				
20				W 10	SW 10	W 5
21						
22	WNW 18	WNW 10				
23						
24						

*PST = Pacific Standard Time

Plates 5a - 5g. Drift sheet positions and velocities. Object positions are shown in Pacific Standard Time (PST; + 8 time zone). Each drift sheet was individually coded, but a few were recovered onshore and reused (e.g., E3). Latitudes and longitudes were determined geometrically from ranges to two transponders and the altitude of the observation. The transponders were located at 48° 06.60' N, 123° 36.56' W and 48° 02.74' N, 123° 12.47' W. Velocities correspond to time and distance elapsed from previous observation. Speed components are reckoned positive toward true north (offshore) and east (longshore). Letters a-g in code correspond to 23-29 April, respectively.

Plate 5a1.

DATE - 23 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
AV	16	45	35	16064	18215	48	8.77	123 24.06				
AV	16	52	14	15929	18316	48	8.76	123 24.17	34.3	264.7	-34.2	-3.2
AV	16	56	54	15868	18357	48	8.75	123 24.22	21.9	259.5	-21.5	-4.0
AV	17	57	34	14286	19576	48	8.68	123 25.51	44.2	265.0	-44.1	-3.9
AX	16	49	57	16737	18663	48	9.38	123 23.77				
AX	16	54	55	16832	18581	48	9.38	123 23.69	34.5	94.2	34.4	-2.5
AX	17	0	3	16911	18475	48	9.35	123 23.61	35.5	115.5	32.0	-15.3
AX	17	51	46	17129	17592	48	8.91	123 23.23	30.1	149.9	15.1	-26.0
AX	19	18	13	16244	17879	48	8.64	123 23.86	18.0	237.1	-15.1	-9.8
AY	16	46	36	16328	18389	48	9.01	123 23.95				
AY	16	53	54	16322	18418	48	9.03	123 23.96	7.0	332.5	-3.2	6.2
AY	16	57	44	16283	18383	48	8.99	123 23.97	34.2	193.4	-7.9	-33.2
AY	17	58	4	15006	19009	48	8.71	123 24.92	35.6	246.3	-32.6	-14.3
AY	19	9	50	12133	21185	48	8.47	123 27.23	67.4	261.4	-66.6	-10.1
KA	16	51	9	17023	18891	48	9.64	123 23.67				
KA	16	55	59	17157	18756	48	9.63	123 23.54	54.3	101.8	53.1	-11.1
KA	17	1	5	17356	18540	48	9.59	123 23.35	79.3	105.7	76.3	-21.4
KA	17	52	38	18323	16862	48	9.03	123 22.28	54.5	126.1	42.9	-33.6
KA	17	54	49	18365	16770	48	8.99	123 22.23	70.2	138.1	46.9	-52.2
KA	19	21	16	17713	16025	48	8.18	123 22.51	29.9	192.6	-6.5	-29.2
KC	17	30	55	23859	10655	48	7.45	123 17.39				
KC	17	34	27	23794	10715	48	7.46	123 17.44	34.0	291.3	-31.6	12.4
KC	17	37	53	23689	10778	48	7.47	123 17.53	51.2	271.3	-51.2	1.1
KC	19	42	54	19835	13350	48	7.42	123 20.64	51.5	268.9	-51.5	-1.0

Plate 5a2.

DATE - 23 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
KN	17	32	1	23957	10965	48 7.68	123 17.34				
KN	17	35	23	23926	10983	48 7.68	123 17.36	15.4	272.3	-15.4	.6
KN	17	38	52	23893	11004	48 7.68	123 17.39	16.0	275.1	-16.0	1.4
KN	19	39	36	21230	13156	48 7.99	123 19.60	38.7	282.0	-37.9	8.0
KV	17	33	15	24037	11158	48 7.82	123 17.29				
KV	17	39	40	24040	11166	48 7.83	123 17.29	2.8	10.2	.5	2.8
KV	19	25	34	22375	12681	48 8.16	123 18.70	29.2	289.6	-27.5	9.8
KY	17	36	26	24134	11525	48 8.07	123 17.26				
KY	17	40	30	24169	11474	48 8.05	123 17.22	21.8	132.2	16.2	-14.7
KY	19	24	17	22836	12345	48 8.13	123 18.32	22.0	276.0	-21.9	2.3
TC	17	41	33	24300	12147	48 8.48	123 17.20				
TC	19	26	17	23760	12174	48 8.33	123 17.61	9.1	242.4	-8.1	-4.2

Plate 5b1.

DATE - 24 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
AX	7	58	39	14159	20275	48 9.06	123 25.80				
AX	8	15	32	13209	21094	48 9.05	123 26.61	99.3	269.1	-99.2	-1.6
AX	11	6	18	10366	30325	48 11.58	123 33.03	90.2	300.6	-77.6	45.9
H0	7	39	44	17051	16452	48 8.10	123 23.03				
H0	8	11	33	16378	16961	48 8.07	123 23.57	35.4	265.3	-35.3	-2.9
H0	9	3	5	15430	17632	48 7.98	123 24.32	30.7	259.6	-30.2	-5.6
H0	10	38	31	14235	18408	48 7.78	123 25.25	21.1	251.9	-20.0	-6.6
H0	11	50	48	13436	19189	48 7.64	123 25.92	19.4	278.2	-19.2	2.8
H0	12	32	9	13029	19689	48 7.96	123 26.28	20.2	294.6	-18.4	8.4
H0	13	38	23	12170	20620	48 8.08	123 27.04	24.2	284.1	-23.5	5.9
H0	16	24	25	11815	21084	48 8.19	123 27.37	4.7	295.8	-4.2	2.0
H2	7	57	39	15809	18079	48 8.53	123 24.18				
H2	8	14	18	15283	18737	48 8.68	123 24.68	67.4	294.1	-61.5	27.5
H2	8	40	5	14368	19419	48 8.62	123 25.42	59.7	262.5	-59.2	-7.8
H2	9	18	7	13087	20609	48 8.67	123 26.52	59.9	273.7	-59.8	3.9
H2	9	26	56	12871	20839	48 8.69	123 26.71	46.6	281.0	-45.8	8.9
H2	10	21	39	11010	22451	48 8.63	123 28.27	59.1	266.8	-59.0	-3.3
H2	11	2	16	10013	23434	48 8.66	123 29.15	44.9	272.4	-44.9	1.9
H2	11	39	9	9570	23960	48 8.72	123 29.58	24.7	281.6	-24.2	5.0
H2	12	45	42	10053	23720	48 8.86	123 29.25	12.2	57.5	10.3	6.6
H2	13	29	5	10973	22489	48 8.63	123 28.30	47.9	109.4	45.2	-15.9
H2	15	0	0	13048	20564	48 8.61	123 26.52	40.5	91.1	40.5	-.8
H2	16	33	44	14975	19099	48 8.75	123 24.97	34.4	82.5	34.4	4.6
H2	17	13	28	15539	18730	48 8.82	123 24.52	23.7	77.1	23.1	5.3
H4	7	41	36	14717	18456	48 8.15	123 24.95				
H4	9	1	28	14176	18994	48 8.20	123 25.42	12.2	279.6	-12.0	2.0
H4	10	42	14	13193	19682	48 8.07	123 26.18	16.3	255.6	-15.7	-4.1
H4	11	19	46	12776	20028	48 8.05	123 26.52	18.7	264.8	-18.6	-1.7
H4	11	50	11	12473	20303	48 8.05	123 26.77	17.1	271.2	-17.1	.3
H4	12	34	28	12292	20533	48 8.10	123 26.94	8.7	294.5	-7.9	3.6
H4	13	42	12	11967	20912	48 8.17	123 27.24	9.5	288.3	-9.0	3.0
H4	16	26	47	11805	21206	48 8.28	123 27.42	3.1	312.4	-2.3	2.1

Plate 5b2.

DATE - 24 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
H5	7	44	9	13345	19308	48 7.88	123 26.00				
H5	8	8	1	13690	19479	48 8.24	123 25.84	49.9	16.7	14.3	47.8
H5	8	57	55	13132	19800	48 8.12	123 26.25	19.0	245.2	-17.3	-8.0
H5	10	41	14	12062	20429	48 7.85	123 27.05	17.8	243.7	-15.9	-7.9
H5	11	25	6	11764	20851	48 7.98	123 27.33	16.1	302.8	-13.5	8.7
H5	11	49	41	11606	21068	48 8.03	123 27.49	14.7	299.6	-12.8	7.3
H5	12	37	3	11571	21306	48 8.19	123 27.58	11.0	338.8	-4.0	10.3
H5	16	30	43	11501	21376	48 8.20	123 27.64	.5	277.2	-.5	.1
H6	6	50	16	13904	18491	48 7.60	123 25.47				
H6	7	51	25	13958	18561	48 7.70	123 25.45	5.2	7.7	.7	5.1
H6	8	8	49	13876	18628	48 7.70	123 25.52	7.9	264.3	-7.8	-.8
H6	9	0	18	13859	18592	48 7.66	123 25.52	2.6	182.8	-.1	-2.6
H6	11	17	0	13936	18392	48 7.54	123 25.43	2.9	153.2	1.3	-2.6
H6	11	59	8	13682	18654	48 7.57	123 25.65	10.7	283.0	-10.5	2.4
H6	12	33	13	13531	18829	48 7.61	123 25.78	8.6	292.5	-8.0	3.3
H6	13	40	51	13350	19036	48 7.65	123 25.94	5.1	291.1	-4.8	1.9
H6	14	18	24	13232	19243	48 7.74	123 26.05	9.7	318.0	-6.5	7.2
H6	14	47	31	13093	19445	48 7.80	123 26.19	11.7	307.3	-9.3	7.1
H6	16	22	52	12689	19949	48 7.92	123 26.55	8.8	295.6	-7.9	3.8
H6	17	20	39	12507	20127	48 7.93	123 26.71	5.5	276.6	-5.5	.6
H6	18	35	3	12474	20227	48 7.99	123 26.75	2.7	331.5	-1.3	2.3
H6	19	9	56	12423	20392	48 8.08	123 26.83	9.4	331.7	-4.4	8.3
H7	6	49	44	13873	18945	48 7.96	123 25.59				
H7	7	42	6	13748	19298	48 8.15	123 25.75	12.9	330.1	-6.4	11.1
H7	8	7	31	13504	19473	48 8.12	123 25.94	16.0	256.8	-15.6	-3.7
H7	8	56	48	13140	19605	48 7.97	123 26.20	14.1	228.7	-10.6	-9.3
H7	10	40	22	12396	20071	48 7.80	123 26.76	12.2	246.4	-11.2	-4.9
H7	11	18	52	12144	20381	48 7.87	123 26.99	13.4	294.2	-12.2	5.5
H7	11	52	9	11936	20660	48 7.95	123 27.18	14.0	299.6	-12.2	6.9
H7	12	35	56	11690	21023	48 8.06	123 27.43	13.9	304.3	-11.5	7.8
H7	16	25	20	11565	21344	48 8.22	123 27.59	2.6	324.6	-1.5	2.1

Plate 5b3.

DATE - 24 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
H9	6	46	33	11892	20674	48 7.93	123 27.21				
H9	7	48	28	11976	20492	48 7.84	123 27.11	5.4	143.2	3.3	-4.3
H9	8	6	17	11925	20422	48 7.74	123 27.13	17.2	184.8	-1.4	-17.1
H9	8	54	40	11809	20418	48 7.65	123 27.19	6.7	205.5	-2.9	-6.1
H9	10	40	2	11787	20445	48 7.65	123 27.21	.4	294.6	-.4	.2
H9	11	20	38	11778	20527	48 7.72	123 27.24	5.1	345.6	-1.3	4.9
H9	11	54	13	11616	20683	48 7.72	123 27.37	8.3	274.6	-8.3	.7
H9	16	27	39	11486	20883	48 7.79	123 27.50	1.3	309.2	-1.0	.8
TK	18	38	35	15363	17265	48 7.64	123 24.30				
TK	19	6	55	15414	17338	48 7.74	123 24.27	10.7	8.2	1.5	10.6
TN	14	57	5	16160	17449	48 8.30	123 23.81				
TN	18	37	42	15431	17287	48 7.71	123 24.25	9.2	206.6	-4.1	-8.3
TN	19	6	4	15492	17399	48 7.84	123 24.24	14.5	5.6	1.4	14.5
TV	15	31	50	16083	17665	48 8.40	123 23.91				
TV	16	17	48	15841	18008	48 8.50	123 24.15	12.5	302.2	-10.6	6.6
TV	16	39	23	15664	18145	48 8.50	123 24.29	13.8	266.2	-13.8	-.9
TV	17	12	54	15516	18343	48 8.55	123 24.43	9.9	298.2	-8.8	4.7
TV	18	10	28	14984	19122	48 8.77	123 24.97	22.6	301.9	-19.2	11.9
TV	18	30	6	14587	19580	48 8.85	123 25.34	40.9	287.7	-38.9	12.4
TV	19	11	53	13543	20103	48 8.60	123 26.10	42.2	243.6	-37.8	-18.8
TX	14	50	9	15305	17515	48 7.81	123 24.38				
TX	15	28	59	15594	17701	48 8.14	123 24.23	27.6	16.6	7.9	26.5
TX	16	19	40	16222	17516	48 8.38	123 23.79	23.3	50.6	18.0	14.8
TX	17	32	20	17638	16487	48 8.45	123 22.65	32.7	84.5	32.5	3.1
TX	18	8	8	18154	16242	48 8.56	123 22.26	24.4	68.7	22.7	8.9
TX	18	40	22	18288	16257	48 8.63	123 22.17	9.1	36.9	5.5	7.3
TX	19	4	35	18128	16491	48 8.71	123 22.33	16.2	304.8	-13.3	9.3

Plate 5b4.

DATE - 24 APRIL 1976

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
TY	14	48	56	14994	17429	48 7.51	123 24.57				
TY	15	30	40	14891	17871	48 7.81	123 24.72	23.3	341.7	-7.3	22.1
TY	17	16	40	14937	18187	48 8.06	123 24.75	8.2	354.9	-.7	8.1
TY	18	33	11	15335	17939	48 8.15	123 24.45	8.7	71.7	8.3	2.7
TY	19	7	51	15396	18037	48 8.26	123 24.43	9.8	5.6	1.0	9.8
XO	8	52	13	14380	21034	48 9.62	123 25.94				
XO	9	22	35	13527	22325	48 9.92	123 26.92	72.6	294.3	-66.2	29.9
XO	12	41	16	14039	23811	48 10.88	123 27.32	15.5	344.6	-4.1	15.0
XO	13	24	29	15423	22365	48 10.79	123 25.90	68.1	95.5	67.8	-6.5
XO	18	49	30	36943	17887	48 11.89	123 7.90	115.0	84.8	114.5	10.5
X1	8	46	6	14380	20458	48 9.29	123 25.74				
X1	9	19	41	12928	22052	48 9.47	123 27.12	86.8	281.0	-85.2	16.6
X1	10	31	1	10447	24873	48 9.69	123 29.61	72.7	277.8	-72.1	9.8
X1	11	3	48	9914	26161	48 10.02	123 30.53	65.6	298.1	-57.9	30.9
X1	11	41	8	10066	26905	48 10.40	123 30.89	36.9	327.4	-19.9	31.1
X1	12	42	15	12042	24733	48 10.40	123 28.79	71.1	89.8	71.1	.2
X1	13	22	10	13985	22027	48 9.98	123 26.55	120.5	105.9	115.9	-32.9
X1	18	18	4	7122	25484	48 8.13	123 31.35	38.7	240.2	-33.6	-19.2
X2	8	44	59	14219	20141	48 9.01	123 25.72				
X2	9	23	59	12304	21957	48 9.08	123 27.41	89.8	273.6	-89.6	5.6
X2	10	23	5	9601	24405	48 9.00	123 29.77	82.5	267.1	-82.4	-4.2
X2	12	43	44	9839	23830	48 8.80	123 29.40	6.9	129.1	5.4	-4.4
X2	13	29	46	10685	22603	48 8.53	123 28.49	44.6	113.7	40.8	-17.9
X2	15	1	11	11565	21625	48 8.42	123 27.68	18.7	101.6	18.3	-3.8
X2	18	15	5	8160	24347	48 8.06	123 30.40	29.5	258.8	-29.0	-5.7

Plate 5b5.

DATE - 24 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
X3	8	39	2	14164	19558	48 8.59	123 25.58				
X3	9	16	58	13400	20319	48 8.66	123 26.25	36.9	278.0	-36.5	5.2
X3	9	27	26	13200	20476	48 8.64	123 26.41	32.3	263.4	-32.1	-3.7
X3	10	34	30	12401	21357	48 8.75	123 27.14	23.2	282.6	-22.6	5.1
X3	11	0	41	12066	21878	48 8.89	123 27.51	33.2	299.6	-28.9	16.4
X3	12	39	46	13187	21786	48 9.45	123 26.88	21.7	37.2	13.1	17.3
X3	13	33	29	15314	20192	48 9.60	123 25.11	68.6	82.9	68.1	8.5
X3	16	46	28	29515	12473	48 9.45	123 13.19	127.8	91.0	127.8	-2.3
X3	18	47	30	34357	15564	48 10.93	123 9.68	70.9	57.9	60.1	37.6
X4	8	28	57	21950	14007	48 8.80	123 19.21				
X4	9	7	41	20220	15417	48 8.98	123 20.69	80.3	279.9	-79.1	13.9
X4	10	11	56	18330	17670	48 9.51	123 22.49	63.4	294.1	-57.9	25.9
X4	10	49	45	18001	18257	48 9.71	123 22.87	26.1	307.9	-20.6	16.0
X4	11	33	19	18103	18183	48 9.71	123 22.78	4.1	88.8	4.1	.1
X4	12	26	6	19363	16850	48 9.47	123 21.60	46.6	107.0	44.6	-13.6
X4	12	56	12	20577	15678	48 9.27	123 20.50	83.7	105.3	80.7	-22.0
X4	13	59	50	24695	12661	48 8.87	123 16.98	116.2	99.6	114.5	-19.5
X4	16	4	29	34710	15836	48 11.04	123 9.43	136.4	66.8	125.4	53.8
X5	8	27	59	21863	13685	48 8.58	123 19.22				
X5	9	6	32	20349	15170	48 8.88	123 20.55	75.5	288.7	-71.5	24.1
X5	10	12	30	18305	17540	48 9.43	123 22.47	65.3	293.1	-60.1	25.6
X5	10	49	0	17965	18121	48 9.62	123 22.85	26.8	306.8	-21.5	16.0
X5	11	34	29	18082	18060	48 9.63	123 22.76	4.3	76.2	4.2	1.0
X5	12	26	43	19257	16856	48 9.43	123 21.67	44.7	105.5	43.0	-12.0
X5	12	54	34	20483	15692	48 9.24	123 20.57	84.4	104.3	81.7	-20.9
X5	13	59	10	24583	12571	48 8.79	123 17.05	114.8	100.8	112.7	-21.6
X5	16	51	14	37508	17651	48 11.62	123 7.32	127.5	66.5	117.0	50.8

Plate 5b6.

DATE - 24 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
X6	8	26	39	22046	13185	48	8.35	123	19.01				
X6	9	8	49	20315	14760	48	8.62	123	20.50	75.5	285.2	-72.9	19.8
X6	10	13	42	18569	17024	48	9.24	123	22.16	60.8	299.2	-53.1	29.6
X6	10	48	10	18253	17711	48	9.50	123	22.55	33.2	315.9	-23.1	23.8
X6	11	32	30	18399	17788	48	9.61	123	22.48	8.1	24.5	3.4	7.4
X6	12	27	30	19723	16646	48	9.50	123	21.31	44.5	98.3	44.0	-6.4
X6	12	55	21	20875	15551	48	9.31	123	20.27	79.9	105.1	77.2	-20.9
X6	14	0	41	25144	12554	48	8.92	123	16.62	116.9	99.1	115.4	-18.5
X6	16	7	58	36076	16880	48	11.44	123	8.44	146.4	65.3	133.0	61.3
X7	8	25	18	22035	12474	48	7.90	123	18.93				
X7	9	9	22	20708	13651	48	8.08	123	20.04	53.9	283.9	-52.3	12.9
X7	10	7	58	19019	15414	48	8.44	123	21.51	55.2	290.1	-51.8	19.0
X7	10	14	49	18945	15571	48	8.51	123	21.59	38.7	321.3	-24.2	30.2
X7	10	47	20	18665	16213	48	8.79	123	21.91	33.3	322.4	-20.3	26.3
X7	11	31	43	19190	16250	48	9.04	123	21.57	24.1	41.5	15.9	18.0
X7	12	5	41	20013	15772	48	9.10	123	20.91	40.7	82.4	40.3	5.3
X7	12	24	29	20660	15304	48	9.08	123	20.36	59.9	93.2	59.8	-3.3
X7	14	1	44	26422	12293	48	9.03	123	15.61	101.2	90.9	101.2	-1.6
X8	8	24	20	22152	12166	48	7.75	123	16.81				
X8	9	10	48	20736	12987	48	7.64	123	19.94	50.8	262.4	-50.4	-6.7
X8	10	4	9	19834	13881	48	7.81	123	20.70	30.9	288.0	-29.4	9.6
X8	10	15	48	19756	14007	48	7.86	123	20.77	18.0	314.5	-12.8	12.6
X8	10	52	14	19858	14219	48	8.06	123	20.73	17.0	8.3	2.5	16.8
X8	11	30	6	20464	14193	48	8.32	123	20.30	32.1	47.4	23.6	21.7
X8	12	11	6	21752	13769	48	8.59	123	19.31	53.6	68.1	49.7	20.0
X8	13	7	43	24549	12493	48	8.74	123	17.06	82.5	84.3	82.1	8.2
X9	8	23	42	22447	11459	48	7.41	123	18.53				
X9	9	13	12	21369	11957	48	7.23	123	19.38	37.2	253.3	-35.6	-10.7
X9	13	2	57	25885	9508	48	7.38	123	15.75	32.8	86.7	32.7	1.9
X9	14	4	56	27707	8985	48	7.43	123	14.28	49.0	86.7	48.9	2.8
X9	15	39	55	29906	9928	48	8.10	123	12.59	42.8	59.8	37.0	21.6
X9	18	2	25	32958	12893	48	9.56	123	10.40	44.8	45.0	31.7	31.7

Plate 5c1.

DATE - 25 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
AE	11	12	21	19717	13209	48 7.25	123 20.71				
AE	11	47	5	20439	12555	48 7.17	123 20.12	35.8	101.2	35.1	-6.9
AE	12	27	21	21324	11845	48 7.13	123 19.40	37.0	94.6	36.9	-3.0
AE	13	31	26	22972	10828	48 7.21	123 18.08	42.9	84.7	42.7	4.0
AE	14	12	9	24441	10322	48 7.44	123 16.92	61.7	73.3	59.1	17.7
AH	11	11	35	19706	14159	48 7.94	123 20.83				
AH	11	48	46	20007	14387	48 8.24	123 20.65	26.9	21.7	9.9	25.0
AH	12	24	18	20798	14308	48 8.54	123 20.08	42.1	52.0	33.2	26.0
AH	12	28	45	20910	14265	48 8.56	123 19.99	42.5	71.4	40.3	13.6
AH	16	15	16	36794	17467	48 11.66	123 7.93	118.0	69.0	110.2	42.3
AK	11	10	54	19889	15035	48 8.60	123 20.84				
AK	11	51	51	19878	15776	48 9.05	123 21.00	34.7	346.8	-7.9	33.8
AK	12	21	53	20287	15998	48 9.34	123 20.77	34.0	27.7	15.8	30.1
AK	13	16	51	21197	16270	48 9.82	123 20.21	34.2	37.9	21.0	27.0
AK	14	5	59	22542	16908	48 10.58	123 19.44	57.4	34.4	32.5	47.4
AK	14	44	48	24693	17166	48 11.28	123 17.81	103.5	57.1	86.9	56.2
AK	16	1	26	30194	17955	48 12.38	123 13.87	115.3	67.4	106.5	44.3
AK	17	23	1	36071	21073	48 13.96	123 9.71	121.1	60.5	105.4	59.7
AK	17	42	25	37357	21933	48 14.32	123 8.81	111.6	59.2	95.9	57.1
AK	18	19	29	37599	23105	48 14.99	123 9.04	57.8	347.1	-12.9	56.3
AN	11	14	21	20136	15913	48 9.24	123 20.86				
AN	11	53	42	19370	17198	48 9.67	123 21.68	55.4	308.1	-43.5	34.2
AN	12	19	50	18910	18065	48 9.97	123 22.23	55.9	309.7	-43.0	35.7
AN	13	14	15	19054	19069	48 10.56	123 22.45	34.6	345.8	-8.4	33.5
AN	14	3	55	20237	19136	48 11.01	123 21.70	41.8	48.3	31.1	27.8
AN	14	41	3	22123	18994	48 11.52	123 20.38	85.0	60.3	73.8	42.0
AN	15	52	57	27983	18401	48 12.41	123 15.81	137.0	73.6	131.4	38.6
AN	17	16	49	33173	17622	48 12.21	123 11.23	113.3	93.8	113.0	-7.4

Plate 5b6.

DATE - 24 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Plate 5c2.

DATE - 25 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
AT	11	14	52	20251	16874	48 9.82	123 21.01				
AT	11	57	55	18464	18486	48 10.03	123 22.64	79.6	280.6	-78.2	14.7
AT	12	19	19	18327	18970	48 10.23	123 22.88	37.8	322.3	-23.2	29.9
AT	13	13	41	18841	19658	48 10.79	123 22.79	31.6	6.4	3.5	31.4
AT	14	2	3	19981	20040	48 11.37	123 22.19	45.3	34.3	25.5	37.4
AT	14	41	44	21927	19894	48 11.90	123 20.83	81.9	60.1	70.9	40.8
AT	15	59	53	28011	19852	48 13.14	123 16.28	130.1	67.8	120.5	49.2
AT	17	46	32	36065	21214	48 14.04	123 9.77	129.0	78.3	126.3	26.0
AT	18	20	17	37599	22264	48 14.49	123 8.70	76.7	58.1	65.1	40.6
H2	9	17	40	18210	16305	48 8.63	123 22.23				
H2	10	40	20	16147	19092	48 9.35	123 24.26	57.6	298.2	-50.8	27.2
H2	11	17	42	16069	19614	48 9.62	123 24.47	25.0	332.0	-11.8	22.1
H2	13	37	43	20117	16448	48 9.54	123 20.99	51.5	92.1	51.4	-1.9
H2	16	19	16	32135	14503	48 10.53	123 11.38	124.6	81.2	123.2	19.0
H3	7	14	9	20543	16448	48 9.69	123 20.71				
H3	7	17	32	20481	16453	48 9.67	123 20.75	32.3	236.3	-26.8	-17.9
H3	7	39	2	19734	16649	48 9.50	123 21.30	58.5	245.1	-53.0	-24.6
H3	8	55	27	16532	18730	48 9.32	123 23.92	71.3	264.2	-70.9	-7.3
H3	11	33	6	13989	25178	48 11.45	123 28.04	68.2	307.7	-54.0	41.7
H3	12	13	15	13691	25738	48 11.56	123 28.50	25.0	286.4	-23.7	7.9
H3	13	7	14	13883	25320	48 11.47	123 28.17	13.6	111.9	12.6	-5.1
H3	14	37	24	16055	22485	48 11.11	123 25.59	60.4	101.8	59.1	-12.4
H3	17	29	34	25105	14694	48 10.05	123 17.04	104.5	100.4	102.7	-18.9
H8	8	7	41	15653	21668	48 10.54	123 25.48				
H8	9	6	57	13146	24708	48 10.89	123 26.23	97.7	280.8	-95.9	18.2

Plate 5c3.
DATE - 25 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
TN	9	21	47	24321	11539	48 8.13	123 17.12				
TN	11	9	43	21190	14483	48 8.80	123 19.83	55.5	290.2	-52.1	19.1
TN	11	50	54	20331	15831	48 9.26	123 20.70	55.8	308.5	-43.7	34.7
TN	12	22	34	20150	16571	48 9.62	123 21.00	39.6	330.5	-19.5	34.5
TN	13	15	43	20315	17681	48 10.28	123 21.19	39.4	349.2	-7.4	38.7
TN	14	4	33	21349	18556	48 11.07	123 20.76	53.0	20.0	18.2	49.8
TN	14	43	7	23056	19020	48 11.78	123 19.73	79.2	44.4	55.4	56.7
TN	15	51	16	28177	19215	48 12.85	123 15.92	125.3	67.3	115.6	48.4
TN	16	0	29	28900	19212	48 12.93	123 15.34	134.1	78.5	131.4	26.9
TN	17	46	9	36590	21888	48 14.39	123 9.52	121.5	69.5	113.8	42.6
TN	18	22	29	38999	23230	48 14.86	123 7.72	110.5	68.4	102.8	40.8
TX	9	20	55	24772	10581	48 7.70	123 16.68				
TX	16	12	19	37780	18537	48 12.12	123 7.30	57.7	54.9	47.2	33.2
TY	7	52	30	15837	17413	48 8.08	123 24.01				
TY	8	18	40	16053	17815	48 8.49	123 23.97	49.2	4.4	3.7	49.1
TY	8	24	6	15969	18095	48 8.63	123 24.09	93.8	330.5	-46.3	81.6
TY	9	40	15	12539	21435	48 8.88	123 27.10	82.3	277.1	-81.7	10.1
TY	12	44	49	8026	25516	48 8.71	123 30.99	43.7	266.3	-43.6	-2.8
TY	14	26	14	9386	23185	48 8.07	123 29.36	38.5	120.6	33.1	-19.5
TY	15	22	45	9903	22675	48 8.06	123 28.92	16.3	93.0	16.3	-.9
V0	8	2	57	15304	21083	48 10.08	123 25.44				
V0	8	35	2	14050	22446	48 10.22	123 26.69	81.5	279.5	-80.3	13.5
V0	9	4	34	12673	23989	48 10.35	123 28.11	100.1	277.5	-99.3	13.1
V0	9	43	31	10794	26499	48 10.58	123 30.33	119.3	278.7	-117.9	18.1
V1	8	0	47	15017	20576	48 9.67	123 25.42				
V1	8	34	12	13739	21869	48 9.77	123 26.62	74.8	277.1	-74.2	9.2
V1	9	0	52	12566	23016	48 9.81	123 27.71	85.1	273.1	-85.0	4.5

Plate 5c4.

DATE - 25 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
V2	8	1	44	14462	20318	48 9.25	123 25.64				
V2	8	29	30	13260	21515	48 9.33	123 26.74	82.0	276.6	-81.5	9.5
V2	9	2	49	11735	22926	48 9.34	123 28.09	84.2	270.3	-84.2	.5
V3	7	59	38	14160	19681	48 8.67	123 25.62				
V3	8	31	57	13541	20361	48 8.77	123 26.18	37.2	283.9	-36.1	9.0
V3	9	41	38	11036	22730	48 8.83	123 28.36	64.9	272.3	-64.8	2.6
V3	12	43	1	8820	26432	48 9.60	123 31.14	34.3	292.5	-31.6	13.1
V3	13	47	58	10479	23675	48 9.07	123 29.03	71.6	110.3	67.2	-24.8
V3	15	26	5	13231	20672	48 8.79	123 26.46	55.0	99.3	54.3	-8.9
V4	7	42	16	19552	19037	48 10.73	123 22.12				
V4	8	37	14	16327	21438	48 10.71	123 24.99	108.2	269.5	-108.2	-1.0
V5	8	11	27	17204	18259	48 9.36	123 23.37				
V5	8	58	4	15341	20483	48 9.77	123 25.20	85.8	288.7	-81.3	27.5
V5	9	14	24	14783	21205	48 9.91	123 25.78	78.3	289.2	-73.9	25.8
V5	9	38	9	14064	22220	48 10.11	123 26.59	74.8	290.8	-69.9	26.6
V5	11	29	11	12837	27657	48 11.90	123 30.06	81.6	307.6	-64.7	49.8
V5	12	59	34	13622	30282	48 13.02	123 31.45	49.5	320.3	-31.6	38.1
V5	13	54	59	13801	28919	48 12.71	123 30.40	42.6	113.5	39.1	-17.0
V5	14	33	47	14560	27120	48 12.43	123 28.85	85.6	105.1	82.6	-22.3
V5	16	54	52	18004	20996	48 11.15	123 23.81	79.0	110.9	73.8	-28.1
V6	7	35	30	18218	17217	48 9.20	123 22.44				
V6	8	10	16	17231	18150	48 9.31	123 23.32	53.1	280.4	-52.2	9.6
V6	8	56	25	15802	19717	48 9.56	123 24.67	62.7	285.5	-60.4	16.7
V6	9	15	28	15264	20401	48 9.69	123 25.21	63.4	290.2	-59.5	21.9
V6	11	27	7	13357	26496	48 11.71	123 29.10	77.2	307.8	-61.0	47.3
V6	12	11	7	13332	27692	48 12.12	123 29.84	45.3	310.2	-34.6	29.2
V6	12	57	59	13499	27982	48 12.29	123 29.94	11.8	338.4	-4.4	11.0
V6	13	56	59	14496	27214	48 12.44	123 28.94	35.9	77.5	35.0	7.8
V6	14	34	56	15865	25841	48 12.47	123 27.38	84.7	88.2	84.7	2.7
V6	15	34	46	18557	23102	48 12.32	123 24.38	104.0	94.3	103.7	-7.8
V6	17	5	25	22189	19160	48 11.62	123 20.39	94.2	104.8	91.1	-24.0

Plate 5c5.

DATE - 25 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
V7	8	17	31	16710	17629	48 8.72	123 23.51				
V7	8	25	8	16473	17864	48 8.75	123 23.72	57.7	281.8	-56.5	11.8
V7	9	35	50	14465	20458	48 9.33	123 25.69	63.0	293.6	-57.8	25.2
V7	10	43	55	12991	22623	48 9.81	123 27.32	54.2	293.8	-49.6	21.9
V7	11	20	29	12989	23049	48 10.03	123 27.51	21.4	330.6	-10.5	18.6
V7	14	48	58	18121	18568	48 9.93	123 22.88	45.9	91.9	45.9	-1.5
V7	15	42	43	21247	16429	48 9.93	123 20.22	102.5	90.2	102.5	-.4
V7	17	10	56	28086	13871	48 10.09	123 14.57	132.5	87.5	132.4	5.8
V8	7	23	59	17121	15184	48 7.13	123 22.79				
V8	9	31	17	15962	16535	48 7.45	123 23.78	17.8	296.3	-15.9	7.9
V8	10	4	36	15826	16604	48 7.41	123 23.88	7.5	239.1	-6.4	-3.8
V8	10	48	58	15811	16569	48 7.37	123 23.88	2.9	184.8	-.2	-2.9
V8	11	40	58	15852	16382	48 7.23	123 23.83	8.5	166.1	2.1	-8.3
V8	12	31	47	15800	16284	48 7.10	123 23.86	8.3	187.5	-1.1	-8.3
V8	13	41	17	15431	16519	48 7.01	123 24.15	9.4	245.9	-8.6	-3.8
V8	14	20	56	15400	16602	48 7.06	123 24.18	4.6	339.8	-1.6	4.3
V8	16	43	15	15609	17426	48 7.94	123 24.16	19.0	.7	.2	19.0
Y0	7	12	37	20214	15766	48 9.18	123 20.77				
Y0	7	40	17	19573	16199	48 9.18	123 21.30	39.7	269.3	-39.7	-.5
Y0	8	14	10	18647	16937	48 9.22	123 22.09	48.5	274.8	-48.3	4.1
Y0	8	40	45	17607	17824	48 9.28	123 22.99	70.5	276.1	-70.1	7.4
Y0	8	54	21	17048	18303	48 9.31	123 23.48	73.9	274.9	-73.7	6.3
Y0	11	33	44	14460	24529	48 11.38	123 27.45	65.2	307.8	-51.5	40.0
Y0	12	14	26	14804	24917	48 11.68	123 27.47	23.2	358.0	-.8	23.2
Y0	13	59	9	16378	23665	48 11.77	123 25.95	30.0	85.0	29.9	2.6
Y0	14	38	29	17423	22222	48 11.51	123 24.68	70.2	106.6	67.2	-20.0
Y0	15	39	48	20004	19647	48 11.19	123 22.03	90.6	100.5	89.1	-16.5
Y0	17	9	1	25491	15891	48 10.75	123 17.03	117.1	97.4	116.1	-15.0
Y1	7	37	24	19240	15593	48 8.66	123 21.39				
Y1	8	15	23	18232	16533	48 8.76	123 22.27	48.6	281.8	-47.5	9.9
Y1	8	42	19	17550	17287	48 8.93	123 22.89	50.6	289.4	-47.7	16.8
Y1	9	58	37	16075	19894	48 9.78	123 24.56	57.1	307.3	-45.4	34.6
Y1	11	34	24	15358	23461	48 11.27	123 26.43	62.7	320.0	-40.3	48.1
Y1	12	14	59	15759	24085	48 11.71	123 26.51	33.5	353.1	-4.0	33.2
Y1	13	10	50	16884	23914	48 12.07	123 25.78	33.6	53.7	27.1	19.9

Plate 5c6.

DATE - 25 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
Y3	6	48	15	19645	14263	48 7.98	123 20.88				
Y3	7	11	44	19145	14825	48 8.11	123 21.32	42.1	294.1	-38.4	17.2
Y3	7	36	53	18551	15458	48 8.24	123 21.84	45.1	290.0	-42.4	15.4
Y3	8	16	27	17844	16537	48 8.59	123 22.52	45.5	307.9	-35.9	28.0
Y3	9	57	29	16196	19675	48 9.72	123 24.42	51.8	311.5	-38.8	34.3
Y3	11	36	11	15664	23154	48 11.26	123 26.12	60.0	323.6	-35.5	48.3
Y3	12	16	27	16109	23765	48 11.71	123 26.16	34.7	356.8	-2.0	34.6
Y3	13	10	1	17182	23728	48 12.10	123 25.52	33.5	47.7	24.8	22.6
Y4	6	47	12	19398	13412	48 7.21	123 20.97				
Y4	7	10	42	18726	14185	48 7.40	123 21.53	55.8	297.0	-49.7	25.4
Y4	7	46	47	17886	14959	48 7.48	123 22.22	40.2	279.6	-39.6	6.7
Y4	8	21	24	17337	15234	48 7.33	123 22.64	28.5	242.6	-25.3	-13.1
Y4	8	45	17	17216	15325	48 7.32	123 22.74	8.4	262.1	-8.4	-1.2
Y4	9	30	48	17148	15394	48 7.33	123 22.80	2.7	285.5	-2.6	.7
Y4	10	5	29	17402	15043	48 7.21	123 22.58	16.9	129.1	13.1	-10.7
Y4	10	57	7	18298	14334	48 7.24	123 21.86	28.9	86.8	28.9	1.6
Y4	11	46	41	19614	13377	48 7.31	123 20.80	44.2	84.1	44.0	4.6
Y4	12	26	52	21071	12256	48 7.30	123 19.62	60.7	91.4	60.7	-1.5
Y4	13	33	4	23277	10916	48 7.40	123 17.85	55.6	85.1	55.3	4.7
Y4	14	12	43	25090	10083	48 7.50	123 16.40	76.2	83.9	75.8	8.1
Y4	16	25	18	28385	9611	48 7.85	123 13.78	41.7	78.7	40.9	8.2
Y4	17	34	11	29943	10318	48 8.31	123 12.59	41.3	60.3	35.8	20.5
Y5	6	34	39	18182	15307	48 7.93	123 22.06				
Y5	6	45	55	18064	15349	48 7.89	123 22.15	19.1	238.0	-16.2	-10.1
Y5	7	9	48	17774	15484	48 7.82	123 22.37	21.2	244.3	-19.1	-9.2
Y5	7	22	45	17537	15667	48 7.81	123 22.56	30.6	267.4	-30.6	-1.4
Y5	7	48	3	17211	15874	48 7.77	123 22.82	21.6	255.5	-20.9	-5.4
Y5	8	20	40	16630	16290	48 7.72	123 23.28	29.7	260.8	-29.3	-4.8
Y5	9	32	52	15690	17058	48 7.70	123 24.04	21.8	268.0	-21.8	-.8
Y5	10	1	58	15412	17327	48 7.73	123 24.27	16.7	279.4	-16.5	2.7
Y5	10	50	7	14966	17739	48 7.75	123 24.64	15.9	275.6	-15.9	1.6
Y5	11	43	11	14424	18292	48 7.82	123 25.10	18.3	282.5	-17.9	4.0
Y5	12	33	4	13826	18862	48 7.86	123 25.60	20.8	276.6	-20.7	2.4
Y5	13	43	31	13236	19233	48 7.73	123 26.05	14.3	247.3	-13.2	-5.5
Y5	14	22	14	13028	19359	48 7.68	123 26.21	9.3	243.9	-8.4	-4.1

Plate 5c7.

DATE - 25 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
Y6	6	33	11	17202	16145	48	7.97	123	22.87				
Y6	6	43	54	17172	16144	48	7.95	123	22.89	6.7	215.5	-3.9	-5.4
Y6	7	9	19	16952	16200	48	7.86	123	23.05	17.1	228.6	-12.9	-11.3
Y6	7	24	58	16745	16430	48	7.90	123	23.23	25.3	290.6	-23.7	8.9
Y6	7	51	22	16460	16861	48	8.05	123	23.50	27.3	309.5	-21.1	17.4
Y6	8	19	30	16194	17404	48	8.28	123	23.78	33.3	320.9	-21.0	25.8
Y6	8	25	50	16173	17602	48	8.41	123	23.84	65.0	343.1	-18.9	62.2
Y6	10	11	36	12444	21756	48	9.03	123	27.26	69.4	285.1	-66.9	18.1
Y6	12	46	23	8862	24534	48	8.64	123	30.16	39.5	258.6	-38.7	-7.8
Y6	13	47	19	9560	23682	48	8.54	123	29.47	24.0	102.7	23.4	-5.3
Y6	14	25	17	10264	22971	48	8.51	123	28.84	34.2	93.3	34.1	-2.0
Y6	15	20	55	10869	22238	48	8.40	123	28.26	22.4	106.3	21.5	-6.3
Y7	6	32	8	16102	17294	48	8.15	123	23.82				
Y7	6	44	39	16281	17388	48	8.32	123	23.72	45.7	20.1	15.7	42.9
Y7	6	50	42	16348	17595	48	8.51	123	23.73	92.5	359.0	-1.6	92.5
Y7	7	7	35	16505	17963	48	8.83	123	23.72	60.1	.9	1.0	60.1
Y7	7	33	50	16149	18772	48	9.16	123	24.16	52.0	317.8	-34.9	38.5
Y7	7	56	8	15716	19424	48	9.34	123	24.62	49.3	300.4	-42.5	25.0
Y7	8	4	56	15285	19774	48	9.34	123	24.99	86.3	269.0	-86.3	-1.6
Y7	8	27	50	14353	20751	48	9.45	123	25.86	79.7	280.6	-78.3	14.7
Y7	8	59	31	12877	22195	48	9.52	123	27.21	88.5	274.8	-88.2	7.4
Y8	6	29	56	15410	17678	48	8.00	123	24.34				
Y8	6	41	50	15549	17661	48	8.08	123	24.25	25.4	39.3	16.1	19.6
Y8	7	6	35	15841	17518	48	8.16	123	24.03	20.5	62.5	18.2	9.5
Y8	7	26	9	16076	17993	48	8.62	123	24.00	74.3	3.1	4.0	74.2
Y8	7	32	10	15920	18339	48	8.77	123	24.18	98.0	319.3	-64.0	74.2
Y8	7	58	32	15037	19766	48	9.21	123	25.13	90.3	304.6	-74.3	51.3
Y8	8	6	10	14727	20233	48	9.33	123	25.46	103.1	298.8	-90.3	49.7
Y8	8	28	56	13778	21263	48	9.45	123	26.36	83.2	281.4	-81.6	16.5
Y8	8	30	42	13751	21264	48	9.44	123	26.38	29.2	217.6	-17.8	-23.1
Y8	9	3	41	12268	22731	48	9.51	123	27.74	85.9	274.3	-85.6	6.4
Y8	9	42	37	10766	24667	48	9.75	123	29.36	88.1	282.9	-85.8	19.6
Y9	6	28	23	14376	18622	48	8.05	123	25.20				
Y9	6	39	33	14479	18668	48	8.15	123	25.15	30.0	19.0	9.8	28.4
Y9	7	5	51	14496	18849	48	8.30	123	25.19	17.2	351.1	-2.7	17.0
Y9	7	29	39	14532	18814	48	8.29	123	25.16	2.7	97.2	2.7	-.3
Y9	7	53	11	14606	18785	48	8.32	123	25.10	5.7	54.7	4.7	3.3
Y9	8	48	50	14785	18680	48	8.35	123	24.97	5.4	69.2	5.1	1.9
Y9	10	2	56	14753	18819	48	8.43	123	25.02	3.6	334.7	-1.5	3.3

Plate 5d1.

DATE - 26 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
A3	12	57	54	16984	16701	48	8.24	123 23.12				
A3	13	5	30	17176	16417	48	8.15	123 22.94	62.3	127.0	49.8	-37.5
A3	13	13	30	17402	16127	48	8.07	123 22.73	61.0	119.7	53.0	-30.2
A3	13	20	33	17628	15868	48	8.02	123 22.54	63.3	113.2	58.2	-24.9
A3	13	31	7	17992	15484	48	7.95	123 22.22	64.5	108.3	61.2	-20.2
A3	13	34	40	18110	15349	48	7.92	123 22.12	65.5	113.9	59.9	-26.6
A3	13	40	24	18330	15126	48	7.88	123 21.93	70.2	106.3	67.4	-19.7
A3	13	46	5	18570	14877	48	7.84	123 21.73	78.3	108.2	74.3	-24.4
A3	13	53	15	18898	14567	48	7.79	123 21.45	81.0	102.7	79.0	-17.7
A3	13	57	25	19012	14364	48	7.71	123 21.35	82.3	139.4	53.5	-62.6
A3	14	2	48	19445	14106	48	7.76	123 21.01	134.9	76.9	131.4	30.6
A3	14	8	11	19784	13815	48	7.74	123 20.73	108.5	97.9	107.4	-14.9
A3	14	16	53	20342	13355	48	7.70	123 20.27	109.6	96.3	108.9	-12.0
A4	12	48	51	16722	16819	48	8.18	123 23.32				
A4	12	59	6	16938	16489	48	8.06	123 23.11	53.7	129.0	41.7	-33.8
A4	13	6	41	17126	16262	48	8.01	123 22.94	50.8	116.0	45.6	-22.3
A4	13	16	9	17391	15934	48	7.92	123 22.71	58.5	118.1	51.6	-27.5
A4	13	29	44	17814	15445	48	7.81	123 22.34	61.6	114.4	56.1	-25.5
A4	13	36	0	17988	15250	48	7.77	123 22.19	53.6	112.6	49.5	-20.6
A4	13	41	28	18180	15084	48	7.76	123 22.03	59.8	95.6	59.5	-5.9
A4	13	47	14	18400	14865	48	7.73	123 21.85	68.9	105.0	66.6	-17.9
A4	13	51	49	18560	14713	48	7.71	123 21.71	61.6	102.3	60.2	-13.2
A4	13	58	29	18878	14430	48	7.68	123 21.45	82.1	98.5	81.2	-12.2
A4	14	4	0	19151	14171	48	7.65	123 21.22	87.6	102.7	85.4	-19.3
A4	14	9	29	19463	13898	48	7.62	123 20.97	97.8	98.5	96.7	-14.5
A4	14	17	55	20024	13448	48	7.60	123 20.51	112.4	93.6	112.2	-7.1
A5	12	47	32	16676	16581	48	7.97	123 23.30				
A5	13	0	19	16929	16203	48	7.84	123 23.06	49.4	129.3	38.2	-31.3
A5	13	8	7	17114	15968	48	7.78	123 22.90	50.5	120.3	43.5	-25.5
A5	13	17	15	17371	15665	48	7.71	123 22.68	56.2	115.8	50.6	-24.5
A5	13	23	8	17530	15484	48	7.67	123 22.54	52.5	113.6	48.0	-21.1
A5	13	28	30	17709	15292	48	7.63	123 22.39	62.2	110.0	58.5	-21.3
A5	13	37	17	18011	14993	48	7.59	123 22.14	61.3	104.2	59.5	-15.0
A5	13	42	43	18220	14783	48	7.55	123 21.96	69.1	105.7	66.5	-18.7
A5	13	48	39	18462	14566	48	7.54	123 21.76	70.0	97.9	69.4	-9.6
A5	13	54	27	18683	14353	48	7.51	123 21.58	67.1	103.7	65.1	-15.9
A5	13	59	41	18960	14125	48	7.50	123 21.36	89.2	92.8	89.1	-4.4
A5	14	5	10	19206	13904	48	7.48	123 21.15	77.3	99.3	76.3	-12.4
A5	14	10	38	19518	13651	48	7.47	123 20.90	96.1	92.9	96.0	-4.9
A5	14	19	21	20068	13204	48	7.45	123 20.45	106.5	93.9	106.2	-7.2

Plate 5d2.

DATE - 26 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
A8	12	41	12	16413	15929	48	7.26	123	23.38				
A8	12	53	55	16831	15512	48	7.20	123	23.04	57.6	103.5	56.0	-13.4
A8	13	2	39	17104	15254	48	7.18	123	22.81	53.6	99.2	52.9	-8.6
A8	14	37	49	24221	12688	48	8.76	123	17.34	129.7	66.7	119.1	51.3
A9	12	40	6	16415	15690	48	7.04	123	23.36				
A9	12	52	47	16724	15397	48	7.01	123	23.10	41.5	98.8	41.0	-6.3
A9	13	3	46	17070	15086	48	7.00	123	22.82	52.9	94.3	52.8	-4.0
A9	13	11	57	17294	14883	48	6.99	123	22.64	46.1	95.4	45.9	-4.4
A9	13	18	53	17474	14714	48	6.97	123	22.50	44.2	98.9	43.7	-6.8
A9	13	24	43	17611	14582	48	6.96	123	22.38	40.4	101.2	39.6	-7.9
A9	13	32	0	17803	14413	48	6.95	123	22.23	44.0	94.1	43.9	-3.1
A9	13	38	40	17945	14296	48	6.95	123	22.12	35.7	88.0	35.7	1.2
A9	13	43	51	18039	14219	48	6.95	123	22.04	30.0	86.5	30.0	.8
A9	13	49	56	18162	14135	48	6.97	123	21.94	34.5	75.4	33.3	8.7
A9	13	56	0	18280	14017	48	6.95	123	21.85	34.3	105.3	33.1	-9.0
A9	14	1	10	18384	13934	48	6.95	123	21.76	33.6	86.9	33.5	1.8
A9	14	6	26	18488	13856	48	6.96	123	21.68	32.7	82.9	32.5	4.1
A9	14	15	13	18632	13734	48	6.96	123	21.56	27.5	92.1	27.5	-1.0
C0	7	35	42	14167	18530	48	7.83	123	25.31				
C0	7	54	5	14485	18205	48	7.79	123	25.04	31.1	102.1	30.4	-6.6
C0	8	11	4	14688	17901	48	7.68	123	24.85	30.3	129.9	23.2	-19.4
C0	8	33	6	14993	17633	48	7.68	123	24.60	23.4	91.0	23.4	-.4
C0	11	5	51	17553	14972	48	7.26	123	22.46	30.3	106.3	29.0	-8.5
C0	11	47	59	18836	13889	48	7.23	123	21.42	51.1	92.4	51.0	-2.2
C1	7	31	5	14775	18076	48	7.89	123	24.83				
C1	7	53	42	15108	17732	48	7.84	123	24.55	26.7	103.8	25.9	-6.3
C1	8	9	14	15299	17531	48	7.81	123	24.39	22.5	105.4	21.7	-6.0
C1	8	32	42	15633	17208	48	7.78	123	24.11	25.0	99.3	24.6	-4.0
C1	11	2	5	17371	16030	48	7.98	123	22.74	19.4	77.6	19.0	4.2
C1	11	31	24	17920	15463	48	7.89	123	22.27	34.5	106.8	33.1	-10.0
C1	11	45	11	18273	15133	48	7.85	123	21.97	45.1	100.8	44.3	-8.4
C1	14	23	32	26056	9982	48	7.69	123	15.64	82.8	92.2	82.7	-3.2

Plate 5d3.

DATE - 26 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
C2	7	30	31	15547	17387	48	7.67	123 24.20				
C2	7	53	16	15845	17164	48	7.89	123 23.96	21.8	81.9	21.6	3.1
C2	8	8	42	16113	16993	48	7.93	123 23.75	29.2	73.4	28.0	8.3
C2	8	31	56	16532	16782	48	8.04	123 23.43	31.4	63.9	28.2	13.8
C3	7	20	26	16649	16456	48	7.86	123 23.30				
C3	7	29	31	16785	16379	48	7.89	123 23.19	25.5	69.0	23.9	9.2
C3	7	52	43	16781	16511	48	7.98	123 23.22	13.1	349.6	-2.4	12.9
C3	8	8	1	16813	16535	48	8.02	123 23.20	7.9	16.4	2.2	7.6
C3	8	27	23	16749	16743	48	8.14	123 23.28	20.2	334.5	-8.7	18.3
C4	7	14	54	17974	15378	48	7.86	123 22.22				
C4	7	45	44	17819	15409	48	7.79	123 22.33	10.2	227.4	-7.5	-6.9
C4	7	50	46	17772	15452	48	7.79	123 22.37	16.0	279.4	-15.8	2.6
C4	8	7	12	17565	15733	48	7.86	123 22.56	28.5	304.4	-23.5	16.1
C4	8	25	10	17481	15900	48	7.95	123 22.64	16.1	322.5	-9.8	12.8
C5	7	14	14	19095	14534	48	7.88	123 21.31				
C5	7	48	15	18924	14807	48	7.98	123 21.47	13.4	313.2	-9.7	9.2
C6	7	13	30	20310	13611	48	7.87	123 20.32				
C6	7	44	25	19884	13944	48	7.88	123 20.67	23.4	273.8	-23.3	1.5
C6	8	5	43	19443	14299	48	7.90	123 21.03	35.3	274.4	-35.2	2.7
C6	8	24	10	18995	14623	48	7.69	123 21.39	40.6	267.5	-40.6	-1.8
C6	11	15	48	18074	15861	48	8.26	123 22.23	12.1	303.4	-10.1	6.7
C6	11	28	42	18311	15696	48	8.27	123 22.04	30.7	84.4	30.6	3.0
C7	7	3	38	21570	12693	48	7.84	123 19.30				
C7	7	12	43	21545	12677	48	7.82	123 19.31	8.0	207.4	-3.7	-7.1
C7	7	43	33	21185	12840	48	7.76	123 19.59	19.8	253.6	-19.0	-5.6
C7	8	4	47	20803	13080	48	7.74	123 19.90	30.0	264.6	-29.9	-2.8
C7	8	21	31	20362	13393	48	7.74	123 20.26	44.1	269.4	-44.2	-.5

Plate 5d4.

DATE - 26 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
C8	6	49	32	22916	11855	48	7.85	123	18.21				
C8	6	59	37	22893	11864	48	7.85	123	18.23	3.9	254.6	-3.7	-1.0
C8	7	11	54	22846	11875	48	7.84	123	18.26	6.4	246.9	-5.8	-2.5
C8	7	42	41	22510	12122	48	7.86	123	18.54	18.8	277.2	-18.7	2.4
C8	8	3	54	22219	12390	48	7.92	123	18.78	25.1	288.1	-23.9	7.8
C8	8	20	35	21912	12635	48	7.95	123	19.04	32.1	280.2	-31.5	5.7
C8	11	13	59	18106	16217	48	8.52	123	22.28	40.0	284.7	-38.7	10.1
C8	11	42	33	18085	16502	48	8.69	123	22.36	19.7	344.1	-5.4	19.0
C8	12	36	8	18779	16313	48	8.90	123	21.86	22.7	56.2	19.3	12.0
C9	6	47	27	24451	11029	48	7.87	123	16.97				
C9	7	1	49	24444	11141	48	7.94	123	16.98	13.9	350.8	-2.2	13.7
C9	7	10	51	24417	11223	48	7.98	123	17.01	15.3	334.6	-6.6	13.8
C9	7	41	22	24245	11490	48	8.08	123	17.17	15.1	314.9	-10.7	10.6
C9	8	2	33	24074	11631	48	8.11	123	17.31	14.8	287.6	-14.1	4.5
C9	8	19	23	23864	11797	48	8.14	123	17.49	22.5	285.3	-21.7	6.0
C9	12	2	55	19827	15624	48	8.94	123	21.00	34.3	288.6	-32.5	10.9
V1	6	43	48	18843	15269	48	8.26	123	21.60				
V1	6	56	57	18934	15126	48	8.21	123	21.52	18.0	130.5	13.7	-11.7
V1	7	5	25	18932	15110	48	8.20	123	21.51	4.4	174.1	.4	-4.3
V1	7	17	27	18937	15092	48	8.19	123	21.51	2.7	155.9	1.1	-2.5
V1	7	50	9	18665	15249	48	8.15	123	21.72	13.9	256.6	-13.5	-3.2
V1	8	6	24	18483	15381	48	8.15	123	21.87	18.8	267.1	-18.8	-.9
V1	11	18	18	16085	18182	48	8.76	123	24.04	25.4	292.7	-23.4	9.8
V1	11	39	26	16177	18144	48	8.78	123	23.97	7.5	61.6	6.6	3.5
TY	6	7	20	12328	21317	48	8.68	123	27.17				
TY	6	35	38	12502	21057	48	8.61	123	26.99	15.3	119.5	13.3	-7.6
TY	7	26	23	12273	20973	48	8.41	123	27.09	12.9	198.3	-4.1	-12.2
TY	7	57	1	12275	20954	48	8.40	123	27.08	1.4	159.7	.5	-1.3

Plate 5e1.

DATE - 27 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
N0	12	54	55	16233	16806	48	7.86	123 23.64				
N0	13	21	52	16519	16439	48	7.76	123 23.38	22.8	120.7	19.6	-11.6
N0	13	45	33	16905	15996	48	7.67	123 23.05	31.8	113.6	29.1	-12.7
N0	14	0	48	17234	15670	48	7.62	123 22.77	38.4	103.3	37.3	-8.8
N0	14	26	1	17910	15018	48	7.54	123 22.21	47.1	101.9	46.1	-9.7
N0	15	20	16	20171	13130	48	7.45	123 20.37	70.5	94.3	70.3	-5.3
N0	15	43	41	21301	12208	48	7.38	123 19.45	81.9	96.4	81.4	-9.2
N0	18	56	25	27840	9248	48	7.60	123 14.19	56.6	86.5	56.5	3.4
N1	12	55	18	16440	16185	48	7.50	123 23.40				
N1	13	23	53	17011	15597	48	7.41	123 22.92	-.0	-.0	-.0	-.0
N1	13	42	7	17466	15156	48	7.36	123 22.54	43.5	101.9	42.6	-8.9
N1	14	1	40	18029	14644	48	7.32	123 22.08	49.1	97.4	48.7	-6.4
N1	14	23	39	18817	13991	48	7.30	123 21.45	60.1	91.7	60.1	-1.8
N1	15	15	54	21048	12197	48	7.24	123 19.64	71.7	93.0	71.6	-3.8
N1	15	42	2	22047	11447	48	7.21	123 18.83	64.1	93.0	64.0	-3.4
N1	18	55	5	28151	9314	48	7.67	123 13.95	52.8	82.1	52.3	7.3
N2	12	55	46	16458	15731	48	7.11	123 23.33				
N2	13	23	14	16961	15274	48	7.09	123 22.92	30.9	95.3	30.8	-2.8
N2	13	43	4	17375	14893	48	7.06	123 22.58	35.4	96.8	35.1	-4.2
N2	14	2	9	17713	14611	48	7.06	123 22.31	29.6	89.4	29.6	.3
N2	14	24	9	18174	14251	48	7.08	123 21.94	34.9	85.2	34.7	2.9
N2	15	21	18	19940	13048	48	7.25	123 20.53	51.9	79.7	51.0	9.3
N2	15	44	37	20845	12291	48	7.20	123 19.80	65.7	96.5	65.3	-7.4
N2	18	47	32	26710	9568	48	7.59	123 15.10	53.5	82.9	53.1	6.7

Plate 5e2.

DATE - 27 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
N7	12	11	23	16332	18486	48 9.08	123 23.97				
N7	13	7	12	15552	19645	48 9.39	123 24.79	35.1	300.0	-30.4	17.5
N7	13	30	20	15657	19849	48 9.56	123 24.80	22.7	358.9	-.4	22.7
N7	13	51	35	15947	19821	48 9.68	123 24.62	24.8	45.0	17.5	17.6
N7	14	31	26	16487	19335	48 9.66	123 24.13	25.2	95.0	25.1	-2.2
N7	15	4	31	17702	18686	48 9.82	123 23.18	61.5	75.2	59.4	15.7
N7	15	6	42	17744	18630	48 9.81	123 23.14	45.4	114.9	41.2	-19.1
N7	16	3	34	20498	16842	48 9.89	123 20.84	83.9	86.9	83.8	4.6
N8	12	12	14	16246	18024	48 8.74	123 23.90				
N8	12	2	37	16735	17579	48 8.71	123 23.48	1.2	96.6	1.2	-.1
N8	13	28	48	17200	17075	48 8.62	123 23.06	10.5	107.6	10.0	-3.2
N8	13	40	26	17441	16809	48 8.57	123 22.85	40.7	109.4	38.4	-13.5
N8	13	59	33	18004	16297	48 8.52	123 22.37	52.6	98.6	52.0	-7.9
N8	14	19	9	18677	15780	48 8.51	123 21.81	58.6	90.5	58.5	-.6
N8	15	14	22	21520	13750	48 8.49	123 19.48	87.6	91.0	87.6	-1.5
N8	15	48	8	23722	12371	48 8.44	123 17.67	111.0	92.4	110.9	-4.6
N8	18	36	5	35344	16401	48 11.28	123 8.99	119.0	63.9	106.9	52.3
N9	12	54	30	16672	16951	48 8.24	123 23.38				
N9	13	21	27	17186	16326	48 8.09	123 22.91	39.5	115.7	35.6	-17.1
N9	13	41	18	17625	15811	48 7.97	123 22.53	44.3	114.8	40.2	-18.6
N9	14	5	20	18308	15091	48 7.84	123 21.94	53.1	108.5	50.3	-16.9
N9	14	23	5	18902	14523	48 7.76	123 21.45	59.4	103.0	57.9	-13.4
N9	15	17	22	21722	12297	48 7.64	123 19.14	88.1	94.5	87.8	-6.8
N9	15	46	18	23169	11437	48 7.69	123 17.98	83.4	86.9	83.3	4.6
N9	16	52	5	30435	10572	48 8.44	123 12.21	65.4	78.9	64.2	12.6

Plate 5e3.

DATE - 27 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
TO	6	35	30	14035	18557	48	7.76	123 25.40				
TO	6	44	31	14165	18448	48	7.76	123 25.30	24.2	86.7	24.1	1.4
TO	6	57	51	14382	18263	48	7.77	123 25.12	27.4	88.2	27.4	.9
TO	7	11	48	14528	18148	48	7.77	123 25.01	17.4	83.0	17.3	2.1
TO	7	29	58	14829	17912	48	7.80	123 24.76	27.7	82.7	27.5	3.5
TO	7	50	33	15175	17601	48	7.78	123 24.48	28.7	93.4	28.6	-1.7
TO	8	11	37	15494	17327	48	7.78	123 24.22	25.5	90.3	25.5	-.2
TO	8	22	58	15631	17170	48	7.75	123 24.10	23.4	112.1	21.7	-8.8
TO	8	35	12	15842	17028	48	7.78	123 23.94	29.0	75.2	28.0	7.4
TO	8	46	13	16041	16802	48	7.73	123 23.76	34.8	111.9	32.3	-13.0
TO	8	0	58	16204	16699	48	7.76	123 23.64	.4	72.6	.4	.1
TO	9	15	56	16327	16628	48	7.79	123 23.54	2.8	67.4	2.6	1.1
TO	9	31	3	16400	16576	48	7.79	123 23.48	8.0	80.2	7.9	1.4
TO	9	41	7	16519	16556	48	7.86	123 23.40	25.5	42.1	17.1	18.9
TO	9	52	27	16434	16689	48	7.90	123 23.48	19.7	311.8	-14.7	13.1
TO	10	31	38	16581	16912	48	8.16	123 23.43	20.4	8.0	2.8	20.2
TO	10	42	8	16585	17007	48	8.23	123 23.45	21.2	351.1	-3.3	21.0
TO	10	56	23	16703	17000	48	8.29	123 23.37	17.7	39.8	11.3	13.6
TO	11	11	40	16680	17088	48	8.34	123 23.40	11.0	335.6	-4.5	10.0
TO	11	26	54	16714	17110	48	8.38	123 23.38	7.3	18.6	2.3	6.9
TO	11	38	8	16754	17087	48	8.38	123 23.35	6.0	71.3	5.7	1.9
TO	12	53	52	17580	16550	48	8.47	123 22.70	18.2	79.4	17.9	3.3
TO	13	14	17	17882	16371	48	8.50	123 22.46	24.7	76.6	24.0	5.7
TO	13	36	35	18369	16110	48	8.58	123 22.08	36.5	73.9	35.0	10.1
TO	13	57	53	18911	15860	48	8.68	123 21.67	42.8	70.2	40.3	14.5
TO	14	18	15	19657	15449	48	8.76	123 21.08	61.1	78.5	59.8	12.2
TO	15	13	34	22461	13910	48	8.92	123 18.83	84.9	83.8	84.4	9.1
TO	16	11	12	26775	12686	48	9.30	123 15.40	124.8	80.7	123.2	20.3

Plate 5e4.
DATE - 27 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
T1	6	39	1	14663	18008	48	7.76	123 24.89				
T1	6	49	5	14866	17819	48	7.74	123 24.72	34.7	95.6	34.5	-3.4
T1	7	12	58	15196	17531	48	7.74	123 24.45	23.3	90.9	23.3	-.3
T1	7	28	38	15439	17330	48	7.75	123 24.26	26.0	87.5	26.0	1.1
T1	7	48	57	15812	17022	48	7.75	123 23.95	30.8	88.1	30.7	1.0
T1	8	8	13	16141	16736	48	7.75	123 23.69	28.9	92.2	28.9	-1.1
T1	8	22	15	16216	16703	48	7.77	123 23.63	9.9	56.8	8.3	5.4
T1	8	34	23	16282	16694	48	7.81	123 23.58	12.2	39.7	7.8	9.4
T1	8	45	39	16362	16666	48	7.84	123 23.53	13.5	52.5	10.7	8.2
T1	8	56	49	16410	16698	48	7.89	123 23.50	16.0	17.6	4.8	15.2
T1	9	12	57	16454	16733	48	7.95	123 23.48	11.1	15.6	3.0	10.7
T1	9	27	4	16543	16765	48	8.03	123 23.42	19.0	24.0	7.8	17.4
T1	9	41	52	16575	16817	48	8.09	123 23.41	12.1	7.2	1.5	12.0
T1	9	53	24	16640	16926	48	8.20	123 23.39	31.7	6.7	3.7	31.5
T1	10	41	41	16583	17590	48	8.63	123 23.58	28.4	343.8	-7.9	27.3
T1	10	57	3	16390	17877	48	8.72	123 23.77	31.2	303.6	-26.0	17.3
T1	11	13	30	16294	18172	48	8.86	123 23.91	31.6	327.2	-17.1	26.5
T1	11	28	20	16184	18414	48	8.96	123 24.04	27.6	317.7	-18.6	20.4
T1	11	41	16	16120	18638	48	9.06	123 24.14	30.5	327.6	-16.3	25.7
T1	12	5	11	15839	19074	48	9.19	123 24.44	30.6	302.6	-25.8	16.5
T1	13	8	14	14912	20215	48	9.41	123 25.35	31.8	289.9	-29.9	10.8
T1	13	30	57	14840	20502	48	9.54	123 25.49	22.0	324.4	-12.8	17.8
T1	13	52	26	15085	20561	48	9.70	123 25.37	24.7	27.7	11.5	21.9
T1	14	13	16	15483	20417	48	9.80	123 25.09	32.0	60.5	27.9	15.8
T1	14	32	5	16004	20035	48	9.83	123 24.65	48.4	84.7	48.2	4.5
T1	15	7	42	17365	18921	48	9.81	123 23.46	69.2	91.4	69.1	-1.6
T1	16	5	56	20487	16726	48	9.83	123 20.81	94.2	89.5	94.2	.8

Plate 5e5.

DATE - 27 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
T2	6	50	12	15924	16995	48 7.81	123 23.88				
T2	7	10	13	16271	16787	48 7.87	123 23.61	29.4	70.0	27.6	10.1
T2	7	38	31	16581	16721	48 8.02	123 23.39	22.4	45.2	15.9	15.8
T2	7	48	25	16646	16731	48 8.07	123 23.35	17.2	30.1	8.6	14.9
T2	7	58	34	16723	16711	48 8.10	123 23.30	14.7	49.2	11.1	9.6
T2	8	8	54	16627	16788	48 8.10	123 23.37	15.7	268.4	-15.7	-.4
T2	8	21	22	16731	16794	48 8.16	123 23.31	19.9	34.1	11.2	16.5
T2	8	33	43	16744	16825	48 8.19	123 23.30	7.4	3.4	.4	7.4
T2	8	44	56	16762	16875	48 8.24	123 23.30	12.8	1.0	.2	12.8
T2	8	50	26	16793	16979	48 8.33	123 23.30	50.8	359.2	-.7	50.8
T2	9	12	24	16752	17142	48 8.42	123 23.37	14.0	335.5	-5.8	12.7
T2	9	29	13	16754	17347	48 8.56	123 23.41	26.4	347.7	-5.6	25.8
T2	9	40	15	16642	17590	48 8.66	123 23.54	37.4	319.7	-24.2	28.5
T2	9	54	2	16401	17973	48 8.79	123 23.79	46.3	306.6	-37.2	27.6
T2	10	45	1	15506	19299	48 9.16	123 24.71	43.7	301.3	-37.3	22.7
T2	10	58	15	15257	19591	48 9.21	123 24.95	39.2	286.2	-37.2	12.2
T2	11	14	46	14927	19928	48 9.25	123 25.25	38.2	280.0	-37.7	6.6
T2	11	29	36	14648	20219	48 9.28	123 25.50	36.5	280.7	-35.9	6.8
T2	11	42	25	14445	20507	48 9.35	123 25.72	38.3	295.4	-34.6	16.4
T2	12	6	27	14092	20999	48 9.46	123 26.09	35.0	293.7	-32.0	14.1
T2	13	9	26	13416	21743	48 9.54	123 26.74	21.7	280.9	-21.4	4.1
T2	13	32	15	13151	21826	48 9.45	123 26.92	19.8	232.8	-15.8	-12.0
T2	13	54	13	13053	21762	48 9.37	123 26.94	12.6	191.6	-2.6	-12.3
T2	14	14	42	13107	21583	48 9.29	123 26.85	15.1	139.6	9.8	-11.5
T2	14	34	41	13407	21309	48 9.29	123 26.58	27.3	91.3	27.3	-.6
T2	15	1	16	14111	20719	48 9.30	123 25.98	46.8	87.5	46.8	2.0
T2	15	31	51	15265	19579	48 9.21	123 24.94	71.2	97.7	70.5	-9.5
T2	16	19	22	17629	17409	48 9.04	123 22.87	90.8	96.8	90.1	-10.8

Plate 5e6.

DATE - 27 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
T3	6	51	31	17486	15736	48	7.83	123	22.61				
T3	7	9	32	17497	15738	48	7.84	123	22.60	1.7	28.3	.8	1.5
T3	7	27	17	17511	15713	48	7.83	123	22.59	2.4	136.9	1.6	-1.8
T3	8	0	6	17543	15706	48	7.85	123	22.57	1.9	48.3	1.4	1.3
T3	8	7	27	17528	15765	48	7.88	123	22.59	15.8	339.4	-5.6	14.8
T3	8	20	47	17509	15794	48	7.89	123	22.60	3.7	313.0	-2.7	2.5
T3	8	33	7	17463	15854	48	7.91	123	22.65	8.2	301.1	-7.0	4.2
T3	8	44	20	17409	15912	48	7.92	123	22.69	9.0	289.8	-8.5	3.0
T3	8	55	39	17396	15959	48	7.95	123	22.71	8.1	337.9	-3.0	7.5
T3	9	11	37	17295	16097	48	7.99	123	22.80	14.4	303.6	-12.0	8.0
T3	9	28	13	17217	16261	48	8.06	123	22.88	17.2	323.8	-10.1	13.8
T3	9	38	25	17230	16436	48	8.20	123	22.91	40.7	353.0	-4.9	40.4
T3	9	51	42	17227	16603	48	8.31	123	22.94	27.3	348.3	-5.5	26.8
T3	10	40	33	16767	17300	48	8.54	123	23.39	23.8	306.8	-19.1	14.3
T3	11	2	18	16602	17677	48	8.70	123	23.59	29.5	321.1	-18.6	23.0
T3	11	12	21	16524	17882	48	8.79	123	23.69	35.2	324.2	-20.6	28.6
T3	11	27	39	16412	18181	48	8.93	123	23.84	33.7	323.5	-20.1	27.1
T3	11	39	35	16336	18395	48	9.02	123	23.94	30.9	323.8	-18.3	24.9
T3	12	10	44	15953	18953	48	9.17	123	24.34	30.2	300.1	-26.1	15.1
T3	13	8	14	14912	20215	48	9.41	123	25.35	38.7	289.3	-36.5	12.8
T3	13	30	57	14840	20502	48	9.54	123	25.49	22.0	324.4	-12.8	17.8
T3	13	53	0	14967	20690	48	9.71	123	25.49	23.6	1.3	.5	23.6
T3	14	12	37	15302	20576	48	9.81	123	25.26	28.7	58.8	24.5	14.9
T3	14	33	10	15749	20231	48	9.82	123	24.87	38.5	86.5	38.5	2.3
T3	15	8	14	16805	19256	48	9.75	123	23.91	56.9	96.1	56.5	-6.0

Plate 5e7.

DATE - 27 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
T4	7	8	38	19125	14489	48 7.66	123 21.28				
T4	7	26	29	19130	14431	48 7.63	123 21.27	6.8	168.5	1.4	-6.7
T4	7	46	49	19137	14385	48 7.60	123 21.26	4.6	166.0	1.1	-4.5
T4	8	6	32	19069	14474	48 7.62	123 21.32	7.6	303.9	-6.3	4.2
T4	8	19	57	18991	14576	48 7.65	123 21.39	12.7	303.3	-10.6	7.0
T4	8	32	26	18916	14661	48 7.67	123 21.46	11.9	294.0	-10.8	4.8
T4	8	43	27	18856	14759	48 7.91	123 21.51	14.9	314.9	-10.6	10.5
T4	8	54	50	18752	14865	48 7.93	123 21.60	16.8	287.4	-16.0	5.0
T4	9	10	49	18614	14993	48 7.94	123 21.72	15.3	281.0	-15.0	2.9
T4	9	25	49	18505	15125	48 7.98	123 21.81	14.9	297.7	-13.2	6.9
T4	9	43	52	18329	15269	48 7.98	123 21.96	16.6	273.2	-16.6	.9
T4	9	50	56	18269	15324	48 7.99	123 22.01	14.8	279.3	-14.6	2.4
T4	10	32	31	17706	15873	48 8.06	123 22.48	24.4	283.5	-23.7	5.7
T4	10	39	46	17624	16015	48 8.12	123 22.56	32.9	315.5	-23.0	23.5
T4	10	54	48	17486	16232	48 8.20	123 22.70	24.0	310.3	-18.3	15.6
T4	11	11	12	17280	16499	48 8.27	123 22.89	27.5	300.1	-23.8	13.8
T4	11	26	2	17138	16695	48 8.33	123 23.02	22.1	302.7	-18.6	11.9
T4	11	37	22	17110	16861	48 8.43	123 23.07	28.7	340.2	-9.7	27.0
T4	12	12	56	17177	17087	48 8.61	123 23.08	16.2	358.6	-.4	16.2
T4	12	1	57	17096	17557	48 8.86	123 23.25	1.2	337.3	-.5	1.1
T4	13	27	33	17376	17491	48 8.97	123 23.05	5.8	53.7	4.7	3.5
T4	13	38	14	17596	17400	48 9.02	123 22.89	34.8	65.6	31.7	14.4
T4	14	8	23	18416	16991	48 9.15	123 22.26	45.3	73.1	43.4	13.1
T4	14	20	12	18844	16732	48 9.18	123 21.91	60.8	81.7	60.2	8.8
T4	15	11	51	21244	15501	48 9.41	123 20.00	77.7	79.9	76.5	13.6
T4	16	0	0	24004	14712	48 9.81	123 17.86	95.6	74.5	92.1	25.6
T4	18	30	56	35349	16680	48 11.44	123 9.05	125.3	74.5	120.7	33.4

Plate 5e8.

DATE - 27 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
T5	7	7	41	20816	13351	48	7.93	123 19.92				
T5	7	25	26	20905	13233	48	7.90	123 19.84	11.3	125.1	9.2	-6.5
T5	7	45	48	20909	13177	48	7.86	123 19.83	5.5	169.7	1.0	-5.4
T5	8	5	29	20862	13211	48	7.86	123 19.87	4.0	271.7	-4.0	.1
T5	8	18	56	20766	13300	48	7.87	123 19.95	12.8	285.4	-12.4	3.4
T5	8	31	14	20616	13409	48	7.88	123 20.08	20.6	271.0	-20.6	.3
T5	8	42	33	20388	13585	48	7.89	123 20.26	34.2	274.1	-34.2	2.5
T5	8	54	3	20152	13804	48	7.92	123 20.46	36.7	284.1	-35.6	8.9
T5	9	10	4	19768	14144	48	7.96	123 20.78	42.2	280.9	-41.4	7.9
T5	9	25	18	19355	14492	48	7.99	123 21.12	46.8	277.1	-46.4	5.8
T5	9	37	5	19041	14783	48	8.03	123 21.39	47.3	282.1	-46.3	9.9
T5	9	49	33	18686	15112	48	8.07	123 21.68	50.6	281.4	-49.6	10.0
T5	10	42	48	17576	16261	48	8.27	123 22.64	39.0	287.2	-37.2	11.5
T5	10	55	50	17398	16482	48	8.32	123 22.80	28.9	297.2	-25.7	13.2
T5	11	10	24	17231	16730	48	8.40	123 22.97	28.5	306.7	-22.8	17.0
T5	11	26	22	17071	17005	48	8.50	123 23.13	28.7	312.4	-21.2	19.4
T5	11	38	53	16992	17172	48	8.57	123 23.22	22.6	319.5	-14.7	17.2
T5	12	12	34	16830	17461	48	8.68	123 23.39	14.3	312.5	-10.6	9.7
T5	12	1	13	16921	17529	48	8.77	123 23.35	.4	16.8	.1	.4
T5	13	28	9	17245	17377	48	8.84	123 23.11	6.3	67.8	5.8	2.4
T5	13	37	46	17440	17234	48	8.84	123 22.95	34.5	86.8	34.4	1.9
T5	14	8	58	18343	16675	48	8.92	123 22.23	48.4	80.3	47.7	8.1
T5	14	19	41	18693	16459	48	8.95	123 21.95	54.7	81.9	54.1	7.7
T5	15	26	5	22181	14517	48	9.17	123 19.14	88.1	83.2	87.5	10.4
T5	16	13	16	25575	13361	48	9.44	123 16.43	120.2	81.6	118.9	17.6
T5	16	25	10	26575	13286	48	9.59	123 15.65	140.2	74.9	135.4	36.6

Plate 5e9.

DATE - 27 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
T6	7	22	43	24021	11347	48 7.93	123 17.32				
T6	7	43	51	24098	11353	48 7.96	123 17.27	7.0	54.7	5.7	4.1
T6	8	3	42	24106	11462	48 8.02	123 17.27	10.4	356.8	-.6	10.4
T6	8	17	5	24062	11506	48 8.03	123 17.31	6.4	296.5	-5.8	2.9
T6	8	29	19	24002	11556	48 8.05	123 17.36	9.1	287.9	-8.6	2.8
T6	8	40	32	23915	11616	48 8.05	123 17.43	13.4	279.8	-13.2	2.3
T6	8	51	55	23774	11713	48 8.07	123 17.55	21.5	279.1	-21.2	3.4
T6	9	7	38	23524	11862	48 8.07	123 17.75	27.0	272.8	-26.9	1.3
T6	9	22	44	23338	11949	48 8.06	123 17.90	20.5	263.6	-20.4	-2.3
T6	9	34	40	23139	12071	48 8.07	123 18.06	28.2	272.6	-28.2	1.3
T6	9	47	4	22881	12196	48 8.05	123 18.27	34.7	263.2	-34.4	-4.1
T6	10	37	33	21586	13046	48 8.07	123 19.33	43.3	271.9	-43.3	1.4
T6	10	52	29	21105	13386	48 8.09	123 19.72	54.5	272.6	-54.5	2.4
T6	11	8	32	20646	13794	48 8.15	123 20.11	51.1	283.1	-49.8	11.6
T6	11	23	41	20109	14285	48 8.22	123 20.56	63.9	283.6	-62.1	15.1
T6	11	35	28	19680	14593	48 8.22	123 20.91	61.4	269.9	-61.3	-.1
T6	12	14	4	18737	15632	48 8.45	123 21.74	48.1	292.1	-44.6	18.1
T6	13	20	31	18439	16508	48 8.86	123 22.12	22.8	328.6	-11.9	19.5
T6	13	37	4	18661	16536	48 8.98	123 21.99	28.2	38.2	17.5	22.2
T6	13	58	48	19069	16484	48 9.13	123 21.70	34.2	51.9	26.9	21.1
T6	14	7	51	19279	16428	48 9.19	123 21.55	39.8	61.3	35.0	19.1
T6	14	17	40	19548	16306	48 9.23	123 21.34	45.7	74.1	43.9	12.5
T6	15	10	57	21048	15984	48 9.61	123 20.25	48.0	62.2	42.5	22.4
T6	15	57	29	23147	15766	48 10.15	123 18.72	76.6	62.5	68.0	35.4

Plate 5f1.

DATE - 28 APRIL 1976

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
E3	7	11	10	16656	15643	48 7.19	123 23.18				
E3	7	51	32	17090	15181	48 7.10	123 22.82	19.5	109.4	18.4	-6.5
E3	8	27	33	17341	14887	48 7.03	123 22.61	13.6	118.3	12.0	-6.4
E3	8	43	38	17437	14760	48 6.98	123 22.53	13.2	128.3	10.4	-8.2
E3	8	59	30	17518	14657	48 6.95	123 22.46	10.9	125.4	8.9	-6.3
E3	9	25	57	17747	14421	48 6.91	123 22.27	15.4	107.8	14.6	-4.7
E3	9	43	31	17905	14282	48 6.91	123 22.14	15.1	93.4	15.1	-.9
E3	11	42	13	18047	14175	48 6.92	123 22.03	2.0	81.5	2.0	.3
E4	7	35	42	16964	15259	48 7.07	123 22.92				
E4	7	57	13	17131	15077	48 7.04	123 22.78	14.3	112.0	13.3	-5.3
E5	7	10	13	16619	15604	48 7.12	123 23.20				
E5	7	24	5	16767	15450	48 7.10	123 23.08	19.1	107.4	18.2	-5.7
E5	7	37	41	16890	15299	48 7.05	123 22.97	18.5	122.2	15.7	-9.9
E5	8	25	39	17300	14819	48 6.93	123 22.63	16.7	118.5	14.7	-8.0
E5	8	41	13	17480	14626	48 6.89	123 22.49	21.0	111.0	19.6	-7.5
E5	8	57	22	17639	14461	48 6.86	123 22.36	17.6	108.4	16.7	-5.6
E6	11	6	38	16228	19259	48 9.49	123 24.26				
E6	11	21	28	15967	19357	48 9.42	123 24.45	29.6	241.9	-26.1	-14.0
E6	11	34	50	15696	19506	48 9.38	123 24.66	33.9	252.8	-32.4	-10.1
E6	11	54	55	15301	19730	48 9.32	123 24.97	32.8	253.1	-31.4	-9.5
E6	12	11	51	14999	19909	48 9.27	123 25.20	29.7	254.0	-28.6	-8.2
E6	12	34	5	14595	20185	48 9.23	123 25.52	30.7	259.5	-30.2	-5.6
E6	12	48	30	14464	20270	48 9.22	123 25.63	15.2	256.7	-14.8	-3.5
E6	13	3	50	14359	20321	48 9.19	123 25.70	11.5	245.1	-10.4	-4.8
E6	13	28	26	14172	20284	48 9.07	123 25.80	17.3	207.3	-7.9	-15.3
E6	13	53	5	13919	20313	48 8.95	123 25.95	19.8	220.6	-12.9	-15.1
E6	14	19	26	13954	20073	48 8.82	123 25.85	17.5	154.4	7.6	-15.8
E6	14	36	5	14126	19799	48 8.73	123 25.67	27.4	123.7	22.8	-15.2

Plate 5f2.
DATE - 28 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
E7	11	5	6	16249	19168	48	9.45	123 24.22				
E7	11	20	16	15970	19271	48	9.38	123 24.42	31.1	241.6	-27.3	-14.8
E7	11	33	22	15747	19350	48	9.31	123 24.58	29.0	239.6	-25.0	-14.6
E7	11	53	14	15416	19506	48	9.24	123 24.83	27.8	246.6	-25.6	-11.1
E7	12	10	32	15142	19656	48	9.19	123 25.04	26.4	251.1	-25.0	-8.6
E7	12	29	8	14952	19807	48	9.19	123 25.19	17.7	266.9	-17.7	-1.0
E7	12	47	5	14693	19938	48	9.13	123 25.39	24.1	247.1	-22.2	-9.4
E7	13	2	31	14567	19973	48	9.09	123 25.47	14.4	231.5	-11.3	-9.0
E7	13	27	1	14323	19976	48	8.96	123 25.61	20.2	216.2	-11.9	-16.3
E7	13	52	27	14135	19936	48	8.83	123 25.71	17.7	206.3	-7.8	-15.9
E7	14	16	37	14123	19693	48	8.66	123 25.64	22.2	165.1	5.7	-21.4
E7	14	38	27	14477	19232	48	8.56	123 25.30	35.6	115.0	32.3	-15.0
E8	11	3	38	16275	19043	48	9.39	123 24.17				
E8	11	17	44	16031	19131	48	9.32	123 24.34	29.4	240.7	-25.6	-14.4
E8	11	32	0	15827	19216	48	9.27	123 24.49	24.0	243.7	-21.5	-10.6
E8	11	51	38	15516	19353	48	9.20	123 24.72	26.6	244.6	-24.0	-11.4
E8	12	9	3	15226	19567	48	9.18	123 24.96	28.5	263.9	-28.3	-3.0
E8	12	27	43	15043	19736	48	9.19	123 25.12	17.9	275.1	-17.8	1.6
E8	12	45	51	14815	19859	48	9.15	123 25.29	21.0	249.3	-19.6	-7.4
E8	13	1	24	14646	19925	48	9.10	123 25.41	18.5	239.0	-15.9	-9.5
E8	13	27	1	14323	19976	48	8.96	123 25.61	23.6	223.9	-16.4	-17.0
E8	13	54	39	14143	19891	48	8.80	123 25.69	18.3	198.5	-5.8	-17.4
E8	14	18	1	14102	19706	48	8.66	123 25.66	19.5	171.7	2.8	-19.3
E8	14	39	38	14463	19259	48	8.57	123 25.32	35.2	112.0	32.6	-13.2
E9	11	2	35	16278	18983	48	9.35	123 24.15				
E9	11	16	30	16078	19025	48	9.28	123 24.28	25.5	231.3	-19.9	-15.9
E9	11	30	34	15882	19083	48	9.22	123 24.42	24.1	235.8	-20.0	-13.6
E9	11	50	1	15580	19222	48	9.15	123 24.64	26.0	245.8	-23.7	-10.6
E9	12	7	45	15301	19437	48	9.14	123 24.87	27.1	266.1	-27.0	-1.8
E9	12	26	14	15142	19586	48	9.15	123 25.01	15.7	275.9	-15.6	1.6
E9	12	44	42	14949	19680	48	9.11	123 25.16	17.5	246.3	-16.0	-7.0
E9	13	0	9	14739	19757	48	9.05	123 25.30	23.4	237.5	-19.7	-12.6
E9	13	25	51	14461	19813	48	8.93	123 25.48	19.9	226.2	-14.4	-13.8
E9	13	56	17	14354	19654	48	8.77	123 25.49	16.6	183.3	-1.0	-16.6
E9	14	15	17	14346	19527	48	8.68	123 25.46	14.9	166.2	3.6	-14.5
E9	14	37	12	14475	19299	48	8.60	123 25.32	17.4	129.8	13.4	-11.1
E9	15	10	30	15319	18466	48	8.52	123 24.59	46.2	99.3	45.6	-7.5

Plate 5f3.

DATE - 28 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS CM/SEC) LONGSHORE	OFFSHORE
K0	11	1	32	16316	18858	48	9.30	123 24.09				
K0	11	15	13	16129	18928	48	9.25	123 24.22	23.2	241.3	-20.4	-11.1
K0	11	29	12	15925	18982	48	9.18	123 24.36	25.6	233.8	-20.6	-15.1
K0	11	47	21	15671	19119	48	9.13	123 24.56	23.3	251.4	-22.1	-7.4
K0	12	4	31	15459	19323	48	9.15	123 24.74	22.9	277.9	-22.7	3.2
K0	12	24	42	15218	19485	48	9.13	123 24.94	20.1	259.3	-19.8	-3.7
K0	12	43	26	15024	19603	48	9.10	123 25.09	17.2	254.8	-16.6	-4.5
K0	12	58	53	14826	19670	48	9.04	123 25.22	22.3	235.7	-18.4	-12.5
K0	13	24	16	14614	19632	48	8.90	123 25.34	19.2	208.4	-9.1	-16.9
K0	13	59	54	14441	19411	48	8.66	123 25.37	21.2	185.7	-2.1	-21.1
K0	14	41	2	14974	18775	48	8.53	123 24.88	26.6	110.4	24.9	-9.3
K1	11	0	14	16304	18741	48	9.22	123 24.06				
K1	11	18	48	16079	18785	48	9.14	123 24.21	21.8	230.0	-16.7	-14.0
K1	11	27	59	15974	18767	48	9.07	123 24.27	25.5	211.4	-13.2	-21.7
K1	11	48	41	15722	18947	48	9.05	123 24.47	20.6	263.0	-20.5	-2.5
K1	12	5	49	15520	19110	48	9.05	123 24.64	20.5	268.7	-20.5	-.5
K1	12	22	20	15400	19191	48	9.04	123 24.74	12.1	259.8	-11.9	-2.2
K1	12	42	8	15232	19282	48	9.01	123 24.87	14.2	250.0	-13.4	-4.9
K1	12	57	35	15021	19364	48	8.95	123 25.02	23.3	239.0	-20.0	-12.0
K1	13	22	40	14833	19379	48	8.86	123 25.13	14.8	220.0	-9.5	-11.4
K1	13	50	41	14768	19272	48	8.75	123 25.14	11.7	182.6	-.5	-11.7
K1	14	13	55	14809	19055	48	8.63	123 25.05	17.9	154.9	7.6	-16.2
K1	14	35	30	15059	18718	48	8.54	123 24.81	26.2	117.8	23.2	-12.2
N3	7	9	10	16586	15772	48	7.25	123 23.24				
N3	7	25	23	16729	15611	48	7.21	123 23.12	16.8	114.7	15.2	-7.0
N3	7	39	5	16809	15521	48	7.19	123 23.05	11.0	113.5	10.1	-4.4
N3	7	55	56	16869	15432	48	7.16	123 23.00	9.0	134.7	6.4	-6.3
N3	8	45	28	17230	14994	48	7.04	123 22.70	14.7	120.7	12.7	-7.5
N3	9	1	59	17288	14922	48	7.02	123 22.65	7.3	124.4	6.0	-4.1
N3	9	3	4	17292	14920	48	7.02	123 22.65	7.9	51.8	6.2	4.9
N3	9	27	35	17396	14810	48	7.00	123 22.56	7.7	109.6	7.2	-2.6
N3	9	47	44	17496	14700	48	6.97	123 22.48	9.2	113.7	8.4	-3.7
N3	10	35	1	17921	14336	48	6.97	123 22.14	15.0	91.3	15.0	-.3
N3	11	37	45	18448	13900	48	6.97	123 21.71	14.0	89.5	14.0	.1

Plate 5f4.

DATE - 28 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
N4	7	12	22	16524	15789	48 7.22	123 23.29				
N4	7	41	31	16713	15561	48 7.16	123 23.13	13.0	119.2	11.4	-6.3
N4	7	51	57	16762	15518	48 7.16	123 23.09	7.8	94.2	7.8	-.6
N4	8	26	14	16863	15390	48 7.12	123 23.00	6.2	124.2	5.1	-3.5
N4	8	45	50	16920	15311	48 7.09	123 22.95	6.9	131.4	5.2	-4.6
N4	9	6	41	16969	15231	48 7.05	123 22.91	6.7	140.7	4.3	-5.2
N4	9	27	54	17048	15171	48 7.06	123 22.85	6.3	79.8	6.2	1.1
N4	9	44	6	17143	15076	48 7.05	123 22.77	10.3	105.1	9.9	-2.7
N4	10	36	42	17476	14713	48 6.97	123 22.50	11.7	112.4	10.8	-4.4
N5	7	13	22	16483	15791	48 7.19	123 23.32				
N5	7	27	40	16623	15639	48 7.16	123 23.20	18.0	111.3	16.8	-6.5
N5	7	36	5	16685	15575	48 7.15	123 23.15	13.1	106.5	12.6	-3.7
N5	7	53	52	16814	15428	48 7.11	123 23.04	13.9	115.4	12.5	-5.9
N5	8	27	55	17000	15182	48 7.03	123 22.88	12.1	128.1	9.6	-7.5
N5	8	41	43	17036	15115	48 7.00	123 22.85	9.0	148.0	4.8	-7.7
N5	8	57	49	17121	15037	48 6.99	123 22.78	8.9	95.6	8.9	-.9
N5	9	29	47	17346	14789	48 6.94	123 22.60	13.1	113.5	12.0	-5.2
N5	9	46	46	17554	14589	48 6.92	123 22.43	21.0	101.2	20.6	-4.1
N5	10	30	23	17949	14265	48 6.93	123 22.11	15.1	87.4	15.1	.7
T7	15	24	35	16935	18150	48 9.17	123 23.50				
T7	15	36	5	17275	17749	48 9.08	123 23.18	62.0	111.0	57.9	-22.2
T7	15	51	46	17780	17215	48 8.99	123 22.72	63.0	106.1	60.5	-17.4
T7	16	5	51	18181	16744	48 8.89	123 22.35	59.4	112.5	54.9	-22.7
T7	16	22	42	18869	16108	48 8.81	123 21.75	74.7	101.0	73.4	-14.2
T7	16	40	23	19787	15318	48 8.73	123 20.97	92.8	96.7	91.7	-14.1
T7	16	56	55	20787	14479	48 8.64	123 20.12	107.9	99.4	106.4	-17.5
T7	17	13	57	21863	13568	48 8.52	123 19.20	113.0	101.0	110.9	-21.6
T7	17	37	6	23380	12495	48 8.40	123 17.94	114.3	98.0	113.2	-15.9
T7	17	44	42	23832	12229	48 8.39	123 17.57	101.1	93.2	101.0	-5.6
T7	18	18	30	25753	11231	48 8.32	123 15.99	96.6	93.5	96.4	-5.9
T7	18	25	22	26206	11107	48 8.35	123 15.63	109.9	84.2	109.3	11.2
T7	18	32	6	26617	11103	48 8.42	123 15.31	104.1	70.9	98.4	34.0
T7	18	43	28	27296	11013	48 8.48	123 14.77	99.6	80.9	98.3	15.8

Plate 5f5.
DATE - 28 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
T8	15	26	1	17037	18430	48	9.38	123 23.52				
T8	15	36	46	17200	18175	48	9.31	123 23.34	40.1	123.3	33.5	-22.0
T8	15	55	11	17533	17672	48	9.16	123 23.00	46.2	122.3	39.0	-24.7
T8	16	6	30	17882	17271	48	9.08	123 22.67	63.8	110.5	59.7	-22.4
T8	16	23	21	18439	16653	48	8.95	123 22.16	66.8	109.6	62.9	-22.4
T8	16	41	3	19282	15877	48	8.66	123 21.42	87.4	101.3	85.8	-17.1
T8	16	58	30	20303	15030	48	8.78	123 20.56	104.0	97.9	103.0	-14.3
T8	17	14	36	21322	14178	48	8.67	123 19.69	113.6	100.4	111.7	-20.5
T8	17	38	32	22870	12990	48	8.52	123 18.38	114.4	99.5	112.8	-18.8
T8	17	46	35	23424	12622	48	8.49	123 17.92	119.1	96.4	118.3	-13.2
T8	18	1	23	24421	12008	48	8.43	123 17.10	116.1	96.0	115.5	-12.1
T8	18	16	18	25344	11496	48	8.38	123 16.33	106.2	95.9	105.7	-11.0
T8	18	26	47	26123	11269	48	8.42	123 15.71	123.9	84.1	123.2	12.7
T8	18	39	17	26812	11073	48	8.44	123 15.15	92.3	87.2	92.2	4.4
T9	15	27	2	17201	18730	48	9.63	123 23.51				
T9	15	37	34	17298	18633	48	9.62	123 23.42	18.0	102.1	17.6	-3.8
T9	15	54	18	17463	18448	48	9.59	123 23.26	20.5	107.3	19.5	-6.1
T9	16	7	4	17844	18133	48	9.57	123 22.93	53.8	93.7	53.7	-3.5
T9	16	24	25	18295	17685	48	9.51	123 22.52	50.6	103.2	49.2	-11.5
T9	16	42	21	18845	17159	48	9.44	123 22.02	58.7	102.1	57.3	-12.3
T9	16	59	50	19581	16524	48	9.37	123 21.37	77.3	98.7	76.4	-11.7
T9	17	17	10	20518	15756	48	9.29	123 20.56	98.0	98.1	97.0	-13.8
T9	17	39	45	21893	14676	48	9.17	123 19.37	109.9	98.8	108.6	-16.8
T9	17	49	32	22527	14201	48	9.11	123 18.83	116.4	99.3	114.9	-18.9
T9	18	19	0	24935	12620	48	8.90	123 16.79	144.7	98.5	143.1	-21.5
T9	18	28	27	25710	12284	48	8.85	123 16.15	139.6	91.6	139.6	-4.0
T9	18	33	49	26196	12135	48	8.91	123 15.76	152.0	87.0	151.8	8.1
T9	18	46	10	27042	11941	48	8.94	123 15.08	114.7	85.5	114.3	9.0

Plate 5g1.

DATE - 29 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
A0	12	58	17	14954	21808	48 10.31	123 25.93				
A0	13	38	0	13914	22352	48 10.11	123 26.72	44.1	250.1	-41.5	-15.0
A0	14	3	43	13099	22868	48 9.99	123 27.37	54.4	254.8	-52.5	-14.3
A0	14	28	0	12502	23151	48 9.85	123 27.80	41.1	243.5	-36.8	-18.3
A0	17	51	-0	12420	22712	48 9.57	123 27.66	4.4	160.3	1.5	-4.2
A0	18	10	-0	13014	22066	48 9.52	123 27.08	63.1	98.2	62.5	-9.0
A0	18	47	40	14425	20732	48 9.47	123 25.81	70.0	93.3	69.9	-4.0
A0	19	17	18	15739	19575	48 9.44	123 24.66	80.5	92.1	80.4	-3.0
A1	12	56	39	15076	22018	48 10.47	123 25.95				
A1	13	35	18	14087	22498	48 10.27	123 26.69	43.0	248.2	-39.9	-15.9
A1	14	2	8	13077	23061	48 10.08	123 27.47	63.8	250.5	-60.1	-21.3
A1	14	32	47	12302	23505	48 9.93	123 28.07	42.8	249.7	-40.2	-14.9
A1	17	54	-0	12215	22685	48 9.45	123 27.75	8.1	156.4	3.2	-7.4
A1	18	12	2	12667	22150	48 9.39	123 27.30	53.0	102.4	51.8	-11.4
A1	18	46	35	13915	20897	48 9.31	123 26.15	68.9	95.9	68.6	-7.2
A1	19	18	13	15322	19608	48 9.26	123 24.91	81.2	93.5	81.1	-5.0
A2	12	55	43	14904	22137	48 10.45	123 26.09				
A2	13	33	40	13887	22701	48 10.28	123 26.89	45.6	252.0	-43.4	-14.1
A2	14	2	53	12987	23248	48 10.13	123 27.60	52.8	253.2	-50.6	-15.3
A2	14	30	42	12281	23523	48 9.93	123 28.08	42.4	238.3	-36.0	-22.3
A2	17	52	-0	11967	22829	48 9.40	123 27.94	8.3	169.5	1.5	-8.1
A2	18	17	8	12666	21998	48 9.30	123 27.24	58.8	102.7	57.4	-12.9
A2	18	44	14	13660	20941	48 9.20	123 26.31	71.8	99.1	70.9	-11.3
A2	19	15	53	15005	19648	48 9.12	123 25.11	78.7	95.8	78.3	-8.0
E0	12	54	56	14776	22040	48 10.35	123 26.12				
E0	13	36	58	13677	22647	48 10.15	123 26.97	44.3	251.5	-42.0	-14.1
E0	14	1	21	12933	23106	48 10.04	123 27.56	52.3	253.4	-50.1	-14.9
E0	14	32	3	12240	23511	48 9.91	123 28.10	38.3	250.2	-36.0	-13.0
E0	17	49	-0	11848	22990	48 9.43	123 28.06	7.5	177.3	.3	-7.5
E0	18	14	55	12569	22018	48 9.26	123 27.30	64.5	108.6	61.2	-20.6
E0	18	44	14	13660	20941	48 9.20	123 26.31	70.0	95.1	69.7	-6.2
E0	19	15	53	15005	19648	48 9.12	123 25.11	78.7	95.8	78.3	-8.0

Plate 5g2.

DATE - 29 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
E1	12	53	19	14698	21874	48 10.23	123 26.10				
E1	13	35	52	13509	22715	48 10.11	123 27.09	49.2	260.2	-48.5	-8.4
E1	13	59	35	12832	23194	48 10.03	123 27.66	50.2	258.4	-49.2	-10.1
E1	14	28	39	12162	23621	48 9.92	123 28.19	39.6	253.1	-37.9	-11.5
E1	18	19	43	12654	21796	48 9.17	123 27.17	13.6	137.8	9.1	-10.1
E1	19	20	18	15115	19392	48 9.02	123 24.97	75.5	96.1	75.1	-8.0
E2	12	51	11	14603	21778	48 10.13	123 26.11				
E2	13	34	19	13301	22561	48 9.93	123 27.14	51.3	253.7	-49.3	-14.4
E2	13	57	47	12563	23090	48 9.65	123 27.75	54.9	258.7	-53.9	-10.8
E2	14	31	37	11844	23599	48 9.76	123 28.34	37.0	256.8	-36.0	-8.4
E2	17	47	-0	11535	23030	48 9.29	123 28.24	7.5	172.2	1.0	-7.4
E2	18	13	56	12209	22017	48 9.06	123 27.49	63.3	114.2	57.7	-26.0
E3	6	34	17	15730	17607	48 8.15	123 24.12				
E3	6	49	55	15797	17552	48 8.15	123 24.07	7.3	88.8	7.3	.2
E3	7	3	41	15906	17439	48 8.14	123 23.98	14.5	104.7	14.1	-3.7
E3	7	16	27	16007	17317	48 8.11	123 23.88	16.2	114.2	14.7	-6.6
E3	7	26	57	16097	17228	48 8.10	123 23.81	15.4	101.9	15.1	-3.2
E3	8	4	12	16239	17046	48 8.05	123 23.68	8.2	118.7	7.2	-3.9
E3	8	36	36	16362	16872	48 8.00	123 23.56	9.0	125.3	7.3	-5.2
E3	9	5	47	16309	16879	48 7.97	123 23.60	3.9	221.6	-2.6	-2.9
E3	9	47	6	16341	16847	48 7.97	123 23.57	1.4	102.8	1.4	-.3
E3	10	9	11	16288	16890	48 7.96	123 23.62	4.1	267.2	-4.1	-.2
E3	10	43	14	16236	17032	48 8.04	123 23.68	7.7	331.1	-3.7	6.8
E3	10	48	57	16237	17082	48 8.08	123 23.69	20.8	350.7	-3.4	20.5
E3	11	23	0	16365	17156	48 8.21	123 23.62	12.7	19.2	4.2	11.9
E3	11	39	53	16436	17193	48 8.28	123 23.58	13.3	20.3	4.6	12.4
E3	12	23	15	16405	17668	48 8.59	123 23.71	23.0	344.6	-6.1	22.1
E3	12	34	16	16275	17862	48 8.65	123 23.84	29.5	304.2	-24.4	16.6
E3	12	47	8	16068	18154	48 8.73	123 24.04	38.1	301.0	-32.7	19.6
E3	13	7	37	15553	18639	48 8.77	123 24.49	45.4	277.5	-45.0	5.9
E3	13	27	57	15014	19017	48 8.72	123 24.92	44.4	260.5	-43.8	-7.3
E3	13	49	5	14461	19382	48 8.65	123 25.35	43.7	256.2	-42.4	-10.4
E3	14	22	22	13606	20012	48 8.57	123 26.04	43.1	260.6	-42.5	-7.0
E3	15	15	-0	12957	20629	48 8.60	123 26.59	22.1	274.5	-22.0	1.7
E3	17	48	-0	11737	23095	48 9.43	123 28.17	27.0	308.3	-21.2	16.7

Plate 5g3.
DATE - 29 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
K2	6	46	45	15500	18015	48 8.31	123 24.36				
K2	6	59	50	15727	17807	48 8.30	123 24.17	30.3	95.9	30.2	-3.1
K2	11	3	23	13894	19072	48 8.07	123 25.61	12.5	256.9	-12.2	-2.8
K2	11	26	15	13756	19114	48 8.01	123 25.70	11.9	225.6	-8.5	-8.3
K2	11	47	2	13845	19010	48 7.99	123 25.62	8.4	111.0	7.8	-3.0
K2	12	26	57	13760	18867	48 7.81	123 25.64	13.7	184.4	-1.0	-13.6
K2	12	43	9	13732	18825	48 7.76	123 25.65	10.6	185.9	-1.1	-10.6
K2	13	43	52	13568	18770	48 7.59	123 25.74	9.3	199.8	-3.2	-8.8
K2	14	15	45	13417	18833	48 7.52	123 25.85	9.4	228.8	-7.1	-6.2
K2	15	32	-0	13170	19034	48 7.50	123 26.05	5.4	262.2	-5.3	-.7
K2	17	57	-0	13895	18144	48 7.27	123 25.42	10.2	118.6	9.0	-4.9
K2	18	31	10	14027	17962	48 7.21	123 25.30	9.1	129.0	7.1	-5.7
K2	18	51	18	14118	17839	48 7.17	123 25.23	10.4	128.7	8.1	-6.5
K3	6	48	12	15668	17871	48 8.31	123 24.22				
K3	7	0	56	15945	17649	48 8.31	123 24.00	36.7	87.8	36.7	1.4
K3	7	13	6	16074	17580	48 8.34	123 23.90	18.1	67.7	16.7	6.9
K3	7	25	14	16214	17546	48 8.40	123 23.80	22.0	48.4	16.5	14.6
K3	7	34	55	16323	17378	48 8.34	123 23.69	29.0	127.7	22.9	-17.7
K3	8	2	29	16774	16810	48 8.20	123 23.28	34.8	117.2	31.0	-15.9
K3	8	27	59	17006	16459	48 8.08	123 23.06	22.9	126.2	18.0	-14.2
K3	9	3	6	17125	16131	48 7.91	123 22.92	17.2	151.6	8.2	-15.1
K3	9	41	43	17112	15929	48 7.75	123 22.90	13.1	174.3	1.3	-13.0
K3	10	6	3	16964	16062	48 7.76	123 23.02	10.5	275.7	-10.4	1.0
K3	10	41	39	16585	16361	48 7.75	123 23.32	17.8	267.1	-17.7	-.9
K3	10	47	1	16555	16402	48 7.76	123 23.35	12.5	302.3	-10.6	6.7
K3	11	16	11	16401	16579	48 7.80	123 23.48	10.3	293.7	-9.5	4.2
K3	11	38	7	16317	16736	48 7.86	123 23.57	12.4	320.3	-7.9	9.5
K3	12	21	12	16186	16981	48 7.97	123 23.70	9.8	319.7	-6.3	7.5
K3	12	31	27	16144	16962	48 7.93	123 23.72	13.5	201.2	-4.9	-12.6
K3	12	44	27	16133	16986	48 7.94	123 23.74	3.5	328.6	-1.8	3.0
K3	13	4	8	16099	17049	48 7.97	123 23.77	5.5	318.5	-3.6	4.1
K3	13	25	18	15857	17199	48 7.92	123 23.96	19.3	251.9	-18.4	-6.0
K3	13	44	54	15641	17326	48 7.88	123 24.12	18.7	248.9	-17.5	-6.7
K3	14	17	7	15369	17519	48 7.85	123 24.34	14.1	258.3	-13.8	-2.8
K3	15	7	-0	14804	17938	48 7.80	123 24.79	18.9	260.0	-18.6	-3.3
K3	17	58	-0	14998	17457	48 7.53	123 24.57	5.4	151.5	2.6	-4.8

Plate 5g4.

DATE - 29 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
K4	6	40	26	15239	17768	48	7.96	123	24.47				
K4	6	56	8	15368	17722	48	8.01	123	24.38	15.5	51.5	12.2	9.7
K4	7	9	8	15471	17667	48	8.03	123	24.30	13.7	64.4	12.4	5.9
K4	7	20	33	15525	17671	48	8.07	123	24.27	11.9	31.0	6.1	10.2
K4	7	32	27	15590	17646	48	8.09	123	24.22	10.0	54.9	8.1	5.7
K4	8	8	48	16014	17414	48	8.19	123	23.90	19.9	67.1	18.3	7.8
K4	8	31	51	16342	17135	48	8.18	123	23.63	24.3	91.9	24.3	-.8
K4	9	9	58	16661	16797	48	8.12	123	23.35	15.7	106.8	15.0	-4.5
K4	9	46	3	16544	16786	48	8.05	123	23.43	7.9	212.6	-4.3	-6.7
K4	10	8	6	16447	16793	48	7.99	123	23.49	9.9	218.5	-6.2	-7.7
K4	10	42	21	16370	16960	48	8.07	123	23.58	8.6	324.3	-5.0	7.0
K4	10	48	1	16398	16937	48	8.07	123	23.55	8.4	89.7	8.4	.1
K4	11	19	37	16430	17055	48	8.17	123	23.56	10.4	359.2	-.2	10.4
K4	11	39	10	16460	17124	48	8.24	123	23.55	10.7	2.7	.5	10.7
K4	12	22	20	16428	17466	48	8.46	123	23.65	16.5	343.8	-4.6	15.8
K4	12	35	11	16303	17757	48	8.59	123	23.80	39.0	322.2	-23.9	30.8
K4	12	46	22	16188	17988	48	8.68	123	23.93	34.8	316.7	-23.9	25.3
K4	13	6	47	15734	18440	48	8.73	123	24.32	41.2	281.0	-40.5	7.9
K4	13	28	47	15091	18891	48	8.68	123	24.84	49.0	260.6	-48.3	-8.0
K4	13	47	31	14659	19220	48	8.65	123	25.19	38.9	263.9	-38.7	-4.1
K4	14	20	48	13785	19946	48	8.63	123	25.91	45.1	267.7	-45.0	-1.8
K4	15	17	-0	12892	20732	48	8.63	123	26.66	27.7	269.9	-27.7	-.1
K4	18	2	-0	16508	17504	48	8.53	123	23.61	38.4	92.8	38.4	-1.9
K4	18	34	42	17439	16157	48	8.12	123	22.71	68.8	125.0	56.4	-39.4
K4	18	57	9	17980	15460	48	7.92	123	22.23	52.2	120.7	44.9	-26.6
K4	19	28	18	18905	14407	48	7.68	123	21.43	58.2	114.4	53.0	-24.1

Plate 5g5.

DATE - 29 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
K5	6	38	41	15206	17638	48	7.84	123 24.47				
K5	6	54	27	15301	17576	48	7.85	123 24.39	10.2	72.5	9.8	3.1
K5	7	7	52	15437	17503	48	7.88	123 24.29	17.6	63.8	15.8	7.8
K5	7	19	8	15555	17427	48	7.90	123 24.20	17.7	72.3	16.9	5.4
K5	7	29	41	15600	17389	48	7.90	123 24.16	7.2	90.6	7.2	-.1
K5	8	6	38	15803	17317	48	7.98	123 24.02	10.4	52.0	8.2	6.4
K5	8	38	6	16010	17227	48	8.04	123 23.86	11.8	58.3	10.0	6.2
K5	9	7	3	16185	17146	48	8.09	123 23.73	10.7	60.8	9.3	5.2
K5	9	48	3	16311	17151	48	8.17	123 23.65	7.3	34.0	4.1	6.0
K5	10	10	0	16347	17191	48	8.22	123 23.64	7.1	11.2	1.4	7.0
K5	10	44	48	16462	17417	48	8.45	123 23.61	20.1	4.2	1.5	20.0
K5	10	50	4	16461	17416	48	8.45	123 23.62	1.0	202.9	-.4	-.9
K5	11	20	14	16295	17917	48	8.69	123 23.84	29.6	328.5	-15.5	25.3
K5	11	41	48	15964	18325	48	8.78	123 24.15	32.6	293.4	-29.9	12.9
K5	12	14	55	15063	19093	48	8.80	123 24.91	47.5	271.4	-47.4	1.1
K5	12	41	28	14332	19648	48	8.75	123 25.51	46.6	263.7	-46.3	-5.2
K5	12	48	15	14073	19833	48	8.73	123 25.71	63.9	259.3	-62.8	-11.9
K5	13	10	29	13157	20508	48	8.64	123 26.44	69.2	260.1	-68.2	-11.9
K5	13	31	32	12404	21084	48	8.57	123 27.05	60.3	260.7	-59.5	-9.7
K5	13	52	15	11942	21436	48	8.53	123 27.42	37.5	259.6	-36.9	-6.7
K5	14	25	17	11378	21883	48	8.48	123 27.87	28.9	260.9	-28.5	-4.6
K5	15	36	-0	10863	22440	48	8.53	123 28.34	13.9	279.7	-13.7	2.3
K5	18	38	56	16374	17493	48	8.45	123 23.69	52.6	91.5	52.6	-1.4
K5	18	59	42	17216	16497	48	8.23	123 22.93	82.6	113.2	75.9	-32.6
K5	19	25	53	18086	15364	48	7.91	123 22.14	72.7	121.2	62.2	-37.6

Plate 5g6.

DATE - 29 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
K6	6	42	16	15329	17919	48	8.13	123 24.45				
K6	6	58	32	15450	17872	48	8.17	123 24.36	13.5	55.3	11.1	7.7
K6	7	10	23	15559	17798	48	8.19	123 24.28	15.3	77.2	14.9	3.4
K6	7	22	56	15705	17684	48	8.19	123 24.16	19.5	85.5	19.5	1.5
K6	7	33	44	15866	17572	48	8.21	123 24.03	24.9	79.1	24.4	4.7
K6	8	5	23	16332	17171	48	8.20	123 23.64	25.3	92.3	25.2	-1.0
K6	8	30	31	16610	16870	48	8.15	123 23.40	21.0	108.2	20.0	-6.6
K6	9	4	25	16743	16514	48	7.96	123 23.24	19.1	150.1	9.5	-16.6
K6	9	44	46	16722	16383	48	7.85	123 23.24	8.7	176.9	.5	-8.6
K6	10	7	10	16588	16496	48	7.85	123 23.34	10.1	271.1	-10.1	.2
K6	10	40	49	16395	16725	48	7.91	123 23.51	11.5	294.9	-10.4	4.8
K6	10	45	20	16284	16838	48	7.92	123 23.61	44.6	284.1	-43.2	10.9
K6	11	18	33	16264	16961	48	8.00	123 23.65	7.9	343.4	-2.3	7.6
K6	11	41	0	16278	17081	48	8.10	123 23.66	13.5	354.2	-1.4	13.4
K6	12	19	10	16370	17227	48	8.26	123 23.63	13.1	6.9	1.6	13.0
K6	12	33	31	16381	17275	48	8.30	123 23.63	8.7	356.9	-.5	8.7
K6	12	45	15	16382	17337	48	8.35	123 23.65	12.1	349.4	-2.2	11.9
K6	13	5	49	16203	17722	48	8.51	123 23.85	32.1	320.5	-20.4	24.8
K6	13	26	26	15787	18299	48	8.67	123 24.25	46.9	300.3	-40.5	23.7
K6	13	46	19	15294	18799	48	8.73	123 24.69	46.2	281.6	-45.3	9.3
K6	14	19	57	14349	19528	48	8.68	123 25.46	47.6	264.6	-47.4	-4.5
K6	15	19	-0	12948	20820	48	8.72	123 26.66	42.2	273.1	-42.1	2.3
K6	17	39	-0	14103	20099	48	8.92	123 25.78	13.7	72.1	13.1	4.2
K6	18	5	-0	15135	19253	48	8.94	123 24.92	68.7	87.8	68.7	2.7
K6	19	6	1	17705	16461	48	8.47	123 22.60	82.0	106.7	78.6	-23.6
K7	13	11	18	13884	20182	48	8.85	123 25.93				
K7	13	30	17	13159	20744	48	8.80	123 26.52	64.9	262.9	-64.4	-8.0
K7	13	50	10	12372	21372	48	8.75	123 27.16	67.5	263.4	-67.1	-7.8
K7	14	24	10	12309	21261	48	8.64	123 27.16	10.2	178.7	.2	-10.2
K7	15	35	-0	11211	22268	48	8.64	123 28.10	27.4	270.0	-27.4	.0
K7	17	40	-0	13622	20125	48	8.66	123 26.06	33.7	89.1	33.7	.6
K7	18	8	-0	14520	19293	48	8.62	123 25.29	57.0	94.0	56.8	-4.0
K7	18	38	22	15754	18128	48	8.54	123 24.23	72.8	96.8	72.2	-8.6
K7	19	2	6	16781	17037	48	8.36	123 23.32	82.2	105.9	79.0	-22.5
K7	19	25	2	17729	15859	48	8.07	123 22.47	87.2	117.2	77.5	-39.9

Plate 5g7.

DATE - 29 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
K8	13	0	13	14745	21526	48 10.06	123 25.93				
K8	13	58	51	12938	22628	48 9.79	123 27.35	52.3	253.9	-50.3	-14.5
K8	14	29	20	12197	23069	48 9.65	123 27.92	41.0	250.5	-38.7	-13.7
K8	17	44	-0	11362	22915	48 9.13	123 26.28	9.2	204.2	-3.8	-8.4
K8	18	13	6	12114	22084	48 9.05	123 27.56	51.5	99.2	50.8	-8.2
K8	18	45	30	13234	20687	48 8.80	123 26.46	74.1	108.3	70.4	-23.3
K8	19	14	29	14443	19401	48 8.65	123 25.37	79.6	101.9	77.9	-16.5
K9	12	59	22	14908	21683	48 10.22	123 25.90				
K9	13	41	15	13695	22307	48 9.99	123 26.82	48.6	249.1	-45.4	-17.3
K9	14	0	21	13038	22727	48 9.89	123 27.34	58.9	254.8	-56.8	-15.5
K9	14	30	1	12343	23171	48 9.78	123 27.89	40.0	253.6	-38.4	-11.3
K9	17	53	-0	12004	22781	48 9.40	123 27.90	5.9	180.4	-.0	-5.9
K9	18	18	3	12710	21924	48 9.28	123 27.19	60.4	103.9	58.6	-14.6
K9	18	44	14	13660	20941	48 9.20	123 26.31	69.9	97.7	69.3	-9.3
K9	19	15	53	15005	19648	48 9.12	123 25.11	78.7	95.8	78.3	-8.0
N3	6	37	6	15554	17334	48 7.83	123 24.18				
N3	6	53	2	15606	17310	48 7.85	123 24.14	5.9	57.4	5.0	3.2
N3	7	6	37	15607	17328	48 7.86	123 24.15	3.3	353.6	-.4	3.3
N3	7	18	3	15653	17303	48 7.87	123 24.11	6.9	64.4	6.2	3.0
N3	7	28	31	15644	17314	48 7.87	123 24.12	1.8	296.4	-1.6	.8
N3	8	7	37	15771	17307	48 7.95	123 24.04	7.6	36.0	4.4	6.1
N3	8	39	22	15857	17340	48 8.03	123 23.99	8.5	22.4	3.2	7.8
N3	9	8	33	16140	17216	48 8.12	123 23.78	17.3	59.1	14.8	8.9

Plate 5g8.

DATE - 29 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
N5	6	45	2	15960	17707	48 8.36	123 24.00				
N5	7	2	5	16162	17616	48 8.42	123 23.85	20.4	62.1	18.0	9.6
N5	7	14	43	16324	17419	48 8.37	123 23.70	26.6	113.9	24.3	-10.8
N5	7	24	0	16452	17226	48 8.31	123 23.58	34.7	126.6	27.8	-20.6
N5	8	3	45	16952	16575	48 8.13	123 23.12	27.5	119.6	24.0	-13.6
N5	8	29	11	17107	16321	48 8.04	123 22.97	16.7	132.7	12.3	-11.3
N5	9	1	51	17190	16108	48 7.93	123 22.87	11.8	149.7	5.9	-10.2
N5	9	43	7	17171	15925	48 7.78	123 22.85	11.3	175.6	.9	-11.3
N5	10	5	4	17046	16046	48 7.80	123 22.96	10.1	281.6	-9.9	2.0
N5	10	39	48	16760	16334	48 7.84	123 23.20	14.8	284.2	-14.4	3.6
N5	10	46	10	16711	16398	48 7.86	123 23.25	16.7	300.6	-14.4	8.5
N5	11	17	23	16493	16705	48 7.95	123 23.45	16.4	305.9	-13.3	9.6
N5	11	45	45	16376	16960	48 8.07	123 23.57	15.9	324.8	-9.1	13.0
N5	12	19	56	16361	17134	48 8.19	123 23.62	11.0	345.5	-2.8	10.7
N5	12	32	26	16380	17258	48 8.29	123 23.63	25.0	354.7	-2.3	24.9
N5	12	45	15	16382	17337	48 8.35	123 23.65	14.0	349.4	-2.6	13.8
N5	13	5	49	16203	17722	48 8.51	123 23.85	32.1	320.5	-20.4	24.8
N5	13	27	15	15753	18338	48 8.68	123 24.29	48.3	299.5	-42.0	23.8
N5	13	46	19	15294	18799	48 8.73	123 24.69	44.7	281.0	-43.8	8.5
N5	14	19	57	14349	19528	48 8.68	123 25.46	47.6	264.6	-47.4	-4.5
N5	15	16	-0	12951	20734	48 8.67	123 26.63	43.3	269.1	-43.3	-.7
N5	17	37	-0	15013	19210	48 8.84	123 24.98	24.6	81.0	24.3	3.8
N5	18	34	45	17142	16693	48 8.33	123 23.02	75.4	111.5	70.2	-27.7
N5	18	58	41	17795	15903	48 8.14	123 22.43	56.4	115.8	50.8	-24.6
N5	19	27	4	18697	14933	48 7.95	123 21.65	60.5	110.0	56.8	-20.7

Plate 5g9.

DATE - 29 APRIL 1978

DRIFTER NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
N6	6	35	41	15625	17495	48 8.00	123 24.17				
N6	6	51	38	15621	17529	48 8.03	123 24.18	4.7	344.7	-1.2	4.5
N6	7	5	1	15599	17585	48 8.05	123 24.20	7.7	328.7	-4.0	6.6
N6	7	21	39	15635	17585	48 8.08	123 24.18	5.0	33.9	2.8	4.2
N6	7	30	57	15669	17599	48 8.11	123 24.16	11.5	21.5	4.2	10.7
N6	8	9	56	15931	17534	48 8.22	123 23.98	13.2	47.0	9.7	9.0
N6	8	33	1	16252	17259	48 8.22	123 23.71	23.8	92.3	23.8	-1.0
N6	9	11	4	16550	17039	48 8.23	123 23.47	13.1	83.7	13.0	1.4
N6	9	49	10	16666	17062	48 8.32	123 23.40	7.8	29.5	3.8	6.8
N6	10	11	43	16664	17114	48 8.35	123 23.42	5.0	347.1	-1.1	4.9
N6	10	43	57	16581	17382	48 8.49	123 23.53	15.1	331.3	-7.3	13.2
N6	10	52	13	16511	17475	48 8.51	123 23.60	19.0	298.7	-16.7	9.1
N6	11	20	55	16188	18055	48 8.73	123 23.94	33.8	312.6	-24.9	22.9
N6	11	42	36	15782	18515	48 8.81	123 24.31	37.4	286.4	-35.5	11.8
N6	12	40	20	13750	19996	48 8.65	123 25.95	59.2	261.5	-58.5	-8.8
N6	12	49	10	13406	20270	48 8.63	123 26.23	66.1	264.6	-65.8	-6.3
N6	13	11	50	12667	20896	48 8.61	123 26.84	56.1	266.9	-56.1	-3.0
N6	13	30	44	12185	21242	48 8.55	123 27.22	42.6	256.6	-41.5	-9.9
N6	13	51	21	11737	21563	48 8.49	123 27.57	36.3	255.8	-35.2	-8.9
N6	14	26	28	11112	22073	48 8.44	123 28.08	30.2	262.3	-29.9	-4.0
N6	15	37	-0	10653	22508	48 8.45	123 28.47	11.6	271.0	-11.6	.2
N6	17	41	-0	13503	20257	48 8.68	123 26.17	38.9	81.5	38.5	5.8
N6	18	6	-0	14354	19492	48 8.66	123 25.45	59.9	92.0	59.8	-2.1
N6	18	40	44	15792	18146	48 8.57	123 24.21	74.0	96.2	73.5	-7.9
N6	19	0	57	16864	17107	48 8.46	123 23.29	96.3	100.2	94.8	-17.1

Plates 6a - 6g. Drogue positions and velocities. Object positions are shown in Pacific Standard Time (PST; + 8 time zone). Latitudes and longitudes were determined usually from two sextant angles. When ranges are shown, they correspond to distance from shore transponders measured from the aircraft using the Mini Ranging System. Velocities correspond to time and distance elapsed from previous observation. Speed components are reckoned positive toward true north (offshore) and east (longshore). Letters a-g in plate code correspond to 23-29 April, respectively. Asterisks by drogue codes denote 9 m depth. Absence of asterisks indicate near-surface drogue (i.e., approximately 1 m depth).

Plate 6a1.

DATE - 23 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
B1	9	53				48 7.79	123 25.83				
B1	10	51				48 7.73	123 25.90	4.1	218.1	-2.5	-3.2
B2	11	52				48 7.66	123 26.02				
B2	12	25				48 7.64	123 26.10	5.4	249.5	-5.0	-1.9
B2	12	48				48 7.65	123 26.16	5.4	277.1	-5.4	.7
B2	14	14				48 7.62	123 26.28	3.0	256.0	-2.9	-.7
B2	14	50				48 7.65	123 26.29	2.6	347.5	-.6	2.6
B2	15	13				48 7.68	123 26.26	4.3	38.9	2.7	3.4
B2	15	40				48 7.69	123 26.20	4.9	69.5	4.6	1.7
B2	16	10				48 7.71	123 26.13	5.1	72.3	4.8	1.5
B2	16	40				48 7.84	123 25.73	30.9	63.3	27.6	13.9
YB1	10	55				48 7.62	123 25.28				
YB1	11	33				48 7.53	123 25.46	12.3	231.0	-9.5	-7.7
YB1	11	56				48 7.51	123 25.53	6.6	252.3	-6.3	-2.0
YB1	12	29				48 7.48	123 25.60	5.0	235.5	-4.1	-2.8
YB1	12	51				48 7.46	123 25.67	7.9	243.6	-7.1	-3.5
YB1	14	55				48 7.41	123 25.61	1.5	138.3	1.0	-1.1
YB1	15	18				48 7.43	123 25.56	4.5	63.6	4.1	2.0
YB1	15	48				48 7.42	123 25.51	3.8	97.7	3.8	-.5
YB1	16	58				48 7.62	123 24.59	28.6	72.0	27.2	8.8
G1	9	32				48 8.12	123 25.45				
G1	10	38				48 7.96	123 25.59	8.4	210.3	-4.2	-7.3
G1	11	0				48 7.96	123 25.58	1.5	161.6	.5	-1.4
G1	11	38				48 7.90	123 25.61	4.8	200.1	-1.6	-4.5
G1	12	4				48 7.87	123 25.65	4.8	221.8	-3.2	-3.6
G1	12	34				48 7.87	123 25.73	5.5	275.3	-5.5	.5
G1	13	58				48 7.93	123 25.97	6.2	268.9	-5.9	2.0
G1	14	24				48 8.02	123 26.01	11.2	343.5	-3.2	10.7
G1	15	5				48 8.08	123 26.10	6.4	314.9	-4.5	4.5
G1	15	28				48 8.12	123 26.20	10.5	300.9	-9.0	5.4
G1	15	58				48 8.13	123 26.32	8.3	277.1	-8.3	1.0
G1	17	12				48 8.06	123 26.65	9.7	252.4	-9.2	-2.9

Plate 6a2.

DATE - 23 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
R1	9	40				48 7.83	123 25.39				
R1	10	43				48 7.69	123 25.39	6.9	180.1	-.0	-6.9
R1	11	13				48 7.65	123 25.38	4.2	170.6	.7	-4.1
R1	11	41				48 7.61	123 25.41	4.9	206.7	-2.2	-4.4
R1	12	8				48 7.57	123 25.42	4.7	194.2	-1.2	-4.6
R1	12	37				48 7.55	123 25.55	9.3	253.4	-8.9	-2.7
R1	14	3				48 7.55	123 25.67	2.9	273.6	-2.9	.2
R1	14	29				48 7.52	123 25.78	9.1	246.9	-8.4	-3.6
R1	15	9				48 7.58	123 25.76	4.7	9.6	.8	4.6
R1	15	35				48 7.60	123 25.74	3.1	40.0	2.0	2.4
R1	16	7				48 7.63	123 25.68	4.8	53.3	3.9	2.9
R1	16	50				48 7.70	123 25.02	31.9	80.9	31.5	5.0
Y1	9	44				48 7.54	123 25.31				
Y1	10	45				48 7.40	123 25.24	7.5	161.5	2.4	-7.1
Y1	11	16				48 7.28	123 25.37	14.8	216.0	-8.7	-12.0
Y1	12	18				48 7.24	123 25.43	2.8	225.2	-2.0	-2.0
Y1	12	41				48 7.22	123 25.47	4.5	233.3	-3.6	-2.7
Y1	14	7				48 7.16	123 25.48	2.2	186.5	-.2	-2.2
Y1	14	34				48 7.14	123 25.46	2.8	146.2	1.5	-2.3

Plate 6b1.
DATE - 24 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
G2	9	13									
G2	9	49				48 8.61	123 25.51				
G2	10	41				48 8.60	123 26.11	34.2	268.6	-34.2	-.9
G2	11	40				48 8.63	123 26.15	2.4	318.3	-1.6	1.8
						48 8.77	123 25.41	27.1	73.7	26.0	7.6
B3	9	20									
B3	9	53				48 8.95	123 25.62				
B3	10	50				48 9.03	123 26.36	47.0	279.2	-46.4	7.5
B3	11	24				48 9.11	123 27.41	38.4	276.5	-38.1	4.3
						48 9.23	123 27.55	13.8	322.0	-8.5	10.9
R2	9	27									
R2	10	2				48 9.44	123 25.72				
						48 9.92	123 26.47	61.3	313.7	-44.3	42.4
Y2	9	33									
Y2	10	6				48 10.04	123 25.83				
Y2	11	1				48 10.40	123 26.66	62.2	303.3	-52.0	34.2
						48 10.85	123 27.26	33.9	318.3	-22.5	25.3

Plate 6c1.

DATE - 25 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR1	9	48				48 8.19	123 25.45				
YR1	9	29				48 8.20	123 25.35	.3	81.5	.3	.0
YR1	9	46				48 8.12	123 25.33	14.7	170.6	2.4	-14.5
YR1	10	3				48 8.08	123 25.33	7.3	184.9	-.6	-7.3
YR1	10	19				48 8.07	123 25.33	2.0	161.6	.6	-1.9
YR1	10	35				48 8.05	123 25.36	6.2	218.8	-3.9	-4.8
YR1	11	40				48 7.93	123 25.54	7.9	226.4	-5.7	-5.5
YR1	12	17				48 7.91	123 25.59	3.3	239.2	-2.8	-1.7
B4	8	57				48 7.89	123 25.31				
B4	9	17				48 7.85	123 25.16	16.4	109.2	15.5	-5.4
B4	9	32				48 7.83	123 25.07	13.4	112.5	12.4	-5.2
B4	9	51				48 7.82	123 25.08	1.4	233.3	-1.1	-.8
B4	10	6				48 7.78	123 25.00	13.2	123.2	11.0	-7.2
B4	10	23				48 7.75	123 24.94	9.7	131.1	7.3	-6.4
B4	10	39				48 7.71	123 24.88	10.9	134.9	7.8	-7.7
B4	11	47				48 7.60	123 24.59	10.1	119.5	8.8	-5.0
B4	12	27				48 7.40	123 24.62	15.5	185.8	-1.6	-15.4
G3	9	1				48 7.51	123 25.20				
G3	9	20				48 7.55	123 25.10	12.7	59.2	10.9	6.5
G3	9	36				48 7.50	123 25.02	14.1	133.0	10.3	-9.6
G3	9	53				48 7.50	123 24.92	12.2	90.0	12.2	.0
G3	10	25				48 7.49	123 24.73	12.4	96.7	12.3	-1.5
G3	10	43				48 7.42	123 24.68	12.5	152.8	5.7	-11.1
G3	12	0				48 7.27	123 24.22	13.7	116.0	12.4	-6.0

Plate 6c2.

DATE - 25 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YB2	9	5				48 7.31	123 25.10				
YB2	9	22				48 7.33	123 25.01	11.3	76.0	11.0	2.7
YB2	9	55				48 7.31	123 24.86	9.6	101.3	9.4	-1.9
YB2	10	11				48 7.33	123 24.77	12.3	71.7	11.6	3.9
YB2	10	27				48 7.31	123 24.71	8.7	116.5	7.8	-3.9
YB2	10	45				48 7.30	123 24.63	9.4	100.6	9.2	-1.7
YB2	11	51				48 7.19	123 24.37	9.6	122.3	8.1	-5.2
YB2	12	38				48 7.24	123 24.03	15.3	77.6	15.0	3.3
YG1	13	20				48 8.02	123 25.24				
YG1	13	35				48 8.21	123 25.65	68.7	304.7	-56.5	39.1
YG1	13	51				48 8.24	123 25.72	10.7	302.6	-9.1	5.8
YG1	14	13				48 8.25	123 25.81	8.6	279.4	-8.5	1.4
YG1	14	30				48 8.25	123 25.84	3.8	284.0	-3.7	.9
YG1	14	51				48 8.26	123 25.88	4.0	280.6	-3.9	.7
YG1	15	12				48 8.25	123 25.93	5.1	253.4	-4.9	-1.5
YG1	15	32				48 8.25	123 25.95	2.2	290.5	-2.1	.8
YG1	15	53				48 8.26	123 25.93	2.1	69.5	2.0	.7
G4	12	55				48 7.91	123 25.50				
G4	13	7				48 7.95	123 25.58	17.2	306.8	-13.8	10.3
G4	13	23				48 8.16	123 25.57	40.6	1.9	1.4	40.5
G4	13	39				48 8.03	123 25.83	41.5	232.8	-33.0	-25.1
G4	13	55				48 8.05	123 25.92	12.9	287.5	-12.3	3.9
G4	14	15				48 8.09	123 26.08	17.9	292.8	-16.5	6.9
G4	14	32				48 8.18	123 26.09	15.5	355.6	-1.2	15.4
G4	14	54				48 8.22	123 26.19	10.9	300.9	-9.4	5.6
G4	15	15				48 8.25	123 26.24	6.6	311.9	-4.9	4.4
G4	15	35				48 8.25	123 26.27	3.1	270.0	-3.1	.0
G4	15	57				48 8.16	123 26.39	17.0	221.8	-11.3	-12.6

Plate 6c3.

DATE - 25 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR2	12	58				48 7.87	123 25.30				
YR2	13	26				48 7.65	123 25.58	5.5	225.2	-3.9	-3.9
YR2	13	43				48 7.61	123 25.63	5.5	220.0	-6.1	-7.3
YR2	13	59				48 7.57	123 25.68	10.1	220.0	-6.5	-7.7
YR2	14	20				48 7.55	123 25.76	8.4	249.5	-7.9	-2.9
YR2	14	37				48 7.57	123 25.79	5.1	314.9	-3.7	3.6
YR2	14	59				48 7.57	123 25.88	8.5	270.0	-8.5	.0
YR2	15	20				48 7.60	123 25.90	4.8	336.0	-2.0	4.4
YR2	15	40				48 7.68	123 25.92	12.5	350.6	-2.0	12.4
YR2	16	4				48 7.64	123 25.93	5.2	189.6	-.9	-5.2
B5	13	1				48 7.42	123 25.55				
B5	13	12				48 7.40	123 25.56	7.3	195.1	-1.9	-7.0
B5	13	28				48 7.38	123 25.54	3.2	126.8	2.6	-1.9
B5	13	44				48 7.37	123 25.53	3.2	156.0	1.3	-2.9
B5	14	1				48 7.35	123 25.54	3.7	189.6	-.6	-3.6
B5	14	22				48 7.29	123 25.55	8.9	189.6	-1.5	-8.8
B5	14	42				48 7.29	123 25.59	4.1	272.1	-4.1	.2
B5	15	2				48 7.29	123 25.61	2.1	265.7	-2.1	-.2
B5	15	23				48 7.29	123 25.59	2.0	94.3	2.0	-.2
B5	15	44				48 7.27	123 25.49	10.2	105.8	9.9	-2.8
B5	16	10				48 7.26	123 25.40	7.3	99.4	7.2	-1.2

Plate 6d1.

DATE - 26 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
B6	7	53				48 7.74	123 24.68				
B6	8	31				48 7.57	123 24.40	20.6	132.2	15.2	-13.8
B6	8	58				48 7.72	123 24.34	17.8	15.1	4.6	17.2
B6	9	26				48 7.70	123 24.20	10.6	102.0	10.3	-2.2
B6	9	52				48 7.69	123 24.09	8.8	97.7	8.8	-1.2
B6	10	23				48 7.67	123 23.92	11.5	100.0	11.4	-2.0
G5	8	0				48 7.52	123 25.05				
G5	8	36				48 7.79	123 25.32	27.9	326.2	-15.5	23.2
G5	9	5				48 7.74	123 24.99	24.1	102.7	23.5	-5.3
G5	9	31				48 7.73	123 24.82	13.6	95.0	13.5	-1.2
G5	9	49				48 7.55	123 24.50	48.0	130.0	36.7	-30.9
G5	10	17				48 7.67	123 24.46	13.6	12.7	3.0	13.2
YR3	8	5				48 7.92	123 26.27				
YR3	8	40				48 7.88	123 25.97	18.1	101.3	17.7	-3.5
YR3	9	9				48 7.82	123 25.75	16.9	112.2	15.7	-6.4
YR3	9	36				48 7.76	123 25.49	21.1	109.0	19.9	-6.9
YR3	9	45				48 7.74	123 25.39	24.0	106.6	23.0	-6.9
YR3	10	9				48 7.72	123 25.22	14.9	100.0	14.7	-2.6
YG2	8	10				48 7.95	123 26.92				
YG2	8	45				48 7.88	123 26.74	12.3	120.2	10.6	-6.2
YG2	9	41				48 7.83	123 26.27	17.6	99.0	17.4	-2.8
YG2	10	4				48 7.81	123 26.00	24.4	96.3	24.3	-2.7

Plate 6d2.
DATE - 26 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
S3	14	29				48 8.53	123 27.24				
S3	14	43				48 8.60	123 26.79	68.3	76.9	66.5	15.4
S3	14	56				48 8.65	123 26.35	71.1	80.4	70.1	11.9
S3	15	8				48 8.65	123 25.90	77.6	90.0	77.6	.0
S3	15	21				48 8.63	123 25.36	86.1	93.2	85.9	-4.8
S3	15	33				48 8.61	123 24.87	84.6	93.5	84.5	-5.2
S3	15	43				48 8.53	123 24.31	118.5	102.0	115.8	-24.7
S3	15	59				48 8.37	123 23.42	119.1	105.0	115.1	-30.9
S3	16	32				48 7.84	123 21.95	104.6	118.3	92.1	-49.6
S2	14	30				48 8.55	123 27.24				
S2	14	44				48 8.63	123 26.75	74.6	76.3	72.4	17.6
S2	14	57				48 8.67	123 26.30	72.3	82.4	71.6	9.5
S2	15	9				48 8.65	123 25.90	69.2	94.3	69.0	-5.2
S2	15	22				48 8.61	123 25.44	73.8	97.4	73.2	-9.5
S2	15	34				48 8.61	123 24.97	81.0	90.0	81.1	.0
S2	15	46				48 8.54	123 24.40	99.9	100.4	98.3	-18.0
S2	16	2				48 8.42	123 23.55	112.3	101.9	109.9	-23.2
S2	16	34				48 7.99	123 21.93	112.6	111.6	104.7	-41.5
D2	14	31				48 8.58	123 27.22				
D2	14	46				48 8.65	123 26.77	63.8	76.9	62.1	14.4
D2	14	59				48 8.68	123 26.32	72.0	84.3	71.6	7.1
D2	15	10				48 8.65	123 25.89	81.3	95.9	80.9	-8.4
D2	15	23				48 8.60	123 25.52	60.1	101.4	58.9	-11.9
D2	15	36				48 8.58	123 25.17	55.9	94.9	55.7	-4.8
D2	15	52				48 8.55	123 24.77	52.0	96.4	51.7	-5.8
D2	16	13				48 8.48	123 24.14	62.9	99.4	62.1	-10.3

Plate 6e1.

DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
B7	6	34	22	14098	18687	48	7.91	123	25.39				
B7	6	43	7	14142	18651	48	7.91	123	25.36	8.4	85.3	8.4	.7
B7	6	56	31	14150	18681	48	7.94	123	25.36	6.8	357.8	-.3	6.8
B7	7	33	6	14329	18582	48	7.98	123	25.22	8.5	63.6	7.6	3.8
B7	7	55	26	14456	18391	48	7.92	123	25.10	14.3	127.8	11.3	-8.8
B7	8	10				48	7.95	123	24.97	16.4	84.3	16.3	1.6
B7	8	26				48	7.95	123	24.83	18.1	90.0	18.1	.0
B7	8	41				48	7.96	123	24.77	8.5	76.0	8.3	2.1
B7	8	59				48	7.97	123	24.66	12.8	82.3	12.6	1.7
B7	9	16				48	8.02	123	24.53	18.3	60.2	15.8	9.1
B7	9	35				48	8.05	123	24.45	10.0	60.8	8.7	4.9
B7	9	50				48	8.08	123	24.39	10.3	53.3	8.3	6.2
B7	10	7				48	8.10	123	24.35	6.1	53.3	4.9	3.6
B7	10	27	50	15558	17690	48	8.11	123	24.25	12.2	72.0	11.6	3.8
B7	10	49	31	15671	17595	48	8.11	123	24.16	8.9	89.7	8.9	.1
B7	11	3	10	15755	17539	48	8.12	123	24.09	10.3	76.8	10.0	2.3
B7	11	16	44	15799	17494	48	8.11	123	24.06	5.9	103.4	5.7	-1.4
B7	11	31	36	15856	17433	48	8.10	123	24.01	7.3	106.7	6.9	-2.1
B7	11	44	37	15849	17433	48	8.10	123	24.01	1.3	216.6	-.8	-1.1
B7	12	27				48	8.05	123	24.05	4.0	108.0	3.8	-1.3
B7	12	59	3	15775	17323	48	7.97	123	24.04	5.4	187.3	-.7	-5.4
B7	13	26	14	15740	17229	48	7.87	123	24.04	10.9	182.0	-.4	-10.9
B7	13	51				48	7.85	123	23.93	9.8	146.2	5.4	-8.1
B7	14	28	49	16151	16608	48	7.65	123	23.66	16.7	130.8	12.6	-10.9
B7	14	50				48	7.65	123	23.54	17.2	127.5	13.7	-10.5
B7	14	56				48	7.64	123	23.51	11.6	116.5	10.3	-5.2
B7	15	15				48	7.61	123	23.39	13.9	110.5	13.1	-4.9
B7	15	31				48	7.58	123	23.30	13.0	116.5	11.6	-5.8
B7	15	42				48	7.55	123	23.25	12.6	131.9	9.4	-8.4

Plate 6e2.

DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
G6	6	36	39	14070	18481	48 7.72	123 25.37				
G6	6	45	49	14164	18415	48 7.73	123 25.29	17.1	74.0	16.5	4.7
G6	7	57	36	14823	17971	48 7.84	123 24.78	14.8	88.9	14.8	.3
G6	8	15				48 7.88	123 24.59	19.3	83.5	19.2	2.2
G6	8	30				48 7.86	123 24.42	23.8	100.0	23.5	-4.1
G6	8	46				48 7.92	123 24.28	21.5	57.4	18.1	11.6
G6	9	2				48 7.96	123 24.18	15.1	59.2	12.9	7.7
G6	9	20				48 7.98	123 24.06	14.2	76.0	13.8	3.4
G6	9	38				48 8.03	123 23.97	13.4	50.4	10.4	8.6
G6	9	54				48 8.01	123 23.83	18.5	102.0	18.1	-3.9
G6	10	10				48 8.04	123 23.75	11.9	60.8	10.4	5.8
G6	10	25	21	16215	17112	48 8.09	123 23.71	15.9	71.1	15.0	5.2
G6	10	46	16	16251	17234	48 8.20	123 23.71	16.4	359.3	-.2	16.4
G6	11	6	11	16251	17388	48 8.31	123 23.74	17.6	348.8	-3.4	17.3
G6	11	18	21	16230	17532	48 8.40	123 23.79	23.8	340.8	-7.8	22.5
G6	11	33	50	16126	17845	48 8.55	123 23.93	36.3	329.0	-18.7	31.1
G6	11	40	23	15965	18055	48 8.61	123 24.08	54.3	297.5	-48.2	25.1
G6	12	9	26	15706	18551	48 8.79	123 24.37	28.6	314.0	-20.6	19.9
G6	13	7				48 8.84	123 24.58	-.0	-.0	-.0	-.0
G6	13	33				48 8.78	123 24.43	13.9	120.9	11.9	-7.1
G6	13	5	48	15472	18878	48 8.88	123 24.60	9.8	299.0	-8.6	4.7
G6	13	50	31	15765	18476	48 8.78	123 24.32	15.2	118.1	13.4	-7.1
G6	14	10	51	16257	18061	48 8.77	123 23.90	42.1	91.7	42.1	-1.2

Plate 6e3.
DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YG3	6	38	5	13832	18409	48 7.47	123 25.51				
YG3	6	47	16	13874	18398	48 7.50	123 25.48	10.4	38.9	6.6	8.1
YG3	7	1	7	13924	18370	48 7.51	123 25.44	6.5	59.8	5.6	3.3
YG3	7	36	7	14101	18256	48 7.55	123 25.30	8.7	67.5	8.1	3.3
YG3	7	52	49	14230	18196	48 7.59	123 25.21	14.7	53.5	11.8	8.7
YG3	8	19				48 7.55	123 25.05	14.4	101.3	14.1	-2.8
YG3	8	34				48 7.56	123 24.96	12.6	80.6	12.4	2.1
YG3	8	52				48 7.61	123 24.80	20.3	65.0	18.4	8.6
YG3	9	8				48 7.62	123 24.71	11.8	80.6	11.6	1.9
YG3	9	26				48 7.62	123 24.61	11.5	90.0	11.5	.0
YG3	9	44				48 7.60	123 24.54	8.7	113.1	8.0	-3.4
YG3	10	0				48 7.56	123 24.50	9.3	146.2	5.2	-7.7
YG3	10	16				48 7.52	123 24.40	15.1	120.9	12.9	-7.7
YG3	10	28	40	15237	17200	48 7.49	123 24.37	11.3	100.5	11.1	-2.1
YG3	10	47	12	15402	17047	48 7.48	123 24.23	15.2	96.2	15.1	-1.6
YG3	11	3	51	15439	17007	48 7.47	123 24.20	4.1	106.1	3.9	-1.3
YG3	11	17	16	15530	16919	48 7.47	123 24.13	11.8	100.1	11.6	-2.1
YG3	11	32	18	15620	16799	48 7.43	123 24.05	13.3	124.4	10.9	-7.5
YG3	11	45	42	15717	16663	48 7.38	123 23.96	17.0	128.7	13.3	-10.7
YG3	12	38				48 7.24	123 23.57	14.3	119.1	12.5	-7.0
YG3	12	56	38	16321	15880	48 7.14	123 23.44	18.5	124.9	15.1	-10.6
YG3	13	22	29	16646	15551	48 7.09	123 23.18	22.1	104.7	21.4	-5.6
YG3	13	43	51	17043	15221	48 7.10	123 22.86	31.0	88.0	31.0	1.1

Plate 6e4.

DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR4	6	31	38	14180	18886	48 8.12	123 25.39				
YR4	6	41	22	14225	18840	48 8.11	123 25.35	8.4	101.5	8.2	-1.7
YR4	6	55	19	14213	18851	48 8.11	123 25.36	1.4	270.0	-1.4	-.0
YR4	7	31	36	14325	18713	48 8.08	123 25.26	6.4	114.3	5.8	-2.6
YR4	7	56	38	14426	18608	48 8.07	123 25.17	7.4	103.0	7.2	-1.7
YR4	8	24				48 8.02	123 25.08	8.0	104.0	7.8	-1.9
YR4	8	39				48 8.00	123 25.02	9.2	116.5	8.3	-4.1
YR4	8	57				48 7.98	123 24.94	9.8	110.5	9.2	-3.4
YR4	9	15				48 7.97	123 24.84	11.6	98.5	11.5	-1.7
YR4	9	31				48 7.97	123 24.75	11.7	85.3	11.6	1.0
YR4	10	5				48 8.01	123 24.60	9.7	70.8	9.1	3.2
YR4	10	26	40	15220	17868	48 8.03	123 24.51	9.2	95.8	9.2	-.9
YR4	10	48	26	15335	17785	48 8.04	123 24.41	8.8	79.8	8.7	1.6
YR4	11	5	14	15486	17680	48 8.05	123 24.30	15.0	77.7	14.7	3.2
YR4	11	19	26	15524	17665	48 8.07	123 24.27	4.8	54.7	4.0	2.8
YR4	11	30	31	15493	17635	48 8.02	123 24.28	12.1	192.0	-2.5	-11.8
YR4	11	44	2	15580	17537	48 8.01	123 24.21	12.4	109.8	11.7	-4.2
YR4	12	25				48 7.82	123 24.05	9.6	123.2	8.0	-5.2
YR4	12	59	46	15757	17233	48 7.89	123 24.03	6.9	135.6	4.8	-4.9
YR4	13	24	42	15853	17034	48 7.79	123 23.93	14.2	144.5	8.3	-11.6
YR4	13	46	38	15966	16845	48 7.72	123 23.82	14.7	136.1	10.2	-10.6
YR4	14	27	55	16405	16275	48 7.55	123 23.43	23.0	122.2	19.5	-12.3
YR4	14	52				48 7.59	123 23.28	19.3	111.9	17.9	-7.2
YR4	15	1				48 7.59	123 23.21	16.1	90.0	16.1	.0
YR4	15	19				48 7.52	123 23.06	21.0	124.9	17.2	-12.0
YR4	15	37				48 7.50	123 22.83	26.7	97.4	26.4	-3.4
YR4	15	59				48 7.45	123 22.71	13.3	121.9	11.3	-7.0

Plate 6f1.
DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
B8	6	24				48 8.19	123 24.83				
B8	7	22	11	15225	18043	48 8.16	123 24.54	12.6	109.9	11.9	-4.3
B8	7	31	22	15277	17986	48 8.15	123 24.50	10.8	108.0	10.3	-3.3
B8	7	46	36	15401	17855	48 8.13	123 24.39	15.1	105.1	14.6	-3.9
B8	8	3	42	15550	17702	48 8.11	123 24.26	16.0	103.1	15.5	-3.6
B8	8	36	28	15917	17393	48 8.11	123 23.96	19.0	90.5	19.0	-.2
B8	8	48	19	16056	17297	48 8.13	123 23.85	19.7	78.1	19.2	4.1
B8	9	13	9	16360	17191	48 8.23	123 23.63	22.5	54.4	18.3	13.1
B8	9	36	48	16597	17196	48 8.37	123 23.48	22.6	35.9	13.2	18.3
B9	10	22				48 7.55	123 24.34				
B9	10	55	56	15641	16912	48 7.54	123 24.05	47.3	202.8	-18.4	-43.6
B9	11	9	33	15734	16805	48 7.52	123 23.97	13.2	114.1	12.1	-5.4
B9	11	32				48 7.54	123 23.85	14.5	91.7	14.5	-.4
B9	11	44				48 7.53	123 23.76	15.7	99.4	15.5	-2.6
B9	12	5				48 7.53	123 23.55	20.7	92.0	20.7	-.7
B9	12	28				48 7.51	123 23.47	7.5	105.6	7.2	-2.0
B9	12	38				48 7.44	123 23.37	29.9	136.3	20.7	-21.6
B9	12	59				48 7.42	123 23.21	16.0	100.6	15.8	-2.9
B9	13	24				48 7.50	123 22.99	20.7	61.5	18.2	9.9
B9	13	39				48 7.55	123 22.88	18.3	55.9	15.2	10.3
B10	15	22	18	14369	18226	48 7.72	123 25.12				
B10	15	48				48 7.68	123 25.04	5.8	146.2	3.2	-4.8
B10	16	1	27	14441	18042	48 7.62	123 25.04	7.4	142.7	4.5	-5.8
B10	16	11	48	14473	18024	48 7.63	123 25.02	5.4	61.6	4.8	2.5
B10	16	34	57	14496	17957	48 7.59	123 24.99	5.9	155.6	2.4	-5.4
B10	16	53	30	14548	17890	48 7.57	123 24.94	6.1	121.3	5.2	-3.2
B10	17	8	23	14577	17857	48 7.56	123 24.92	3.7	112.7	3.4	-1.4

Plate 6f2.

DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
G8	6	19				48 8.19	123 25.15				
G8	7	20	41	14698	18475	48 8.15	123 24.97	-.0	-.0	-.0	-.0
G8	7	32	1	14746	18434	48 8.15	123 24.93	7.1	89.4	7.1	.1
G8	7	44	32	14792	18371	48 8.13	123 24.89	8.4	121.4	7.2	-4.4
G8	8	4	30	14841	18299	48 8.11	123 24.84	6.0	125.2	4.9	-3.5
G8	8	38	35	15004	18062	48 8.03	123 24.68	11.6	125.6	9.4	-6.8
G8	8	51	43	15052	17983	48 8.00	123 24.64	10.1	132.2	7.5	-6.8
G8	9	10	22	15155	17837	48 7.96	123 24.54	13.1	125.1	10.7	-7.5
G8	9	41	6	15301	17593	48 7.86	123 24.40	13.5	134.4	9.7	-9.4
G8	9	57	9	15362	17501	48 7.83	123 24.34	9.7	130.0	7.4	-6.2
G8	10	11				48 7.82	123 24.29	11.0	120.2	9.5	-5.5
G8	10	54	44	15684	17103	48 7.73	123 24.05	11.6	117.6	10.2	-5.4
G8	11	12	44	15781	16995	48 7.71	123 23.97	10.2	110.1	9.6	-3.5
G8	11	39				48 7.75	123 23.95	12.7	130.5	9.6	-8.2
G8	12	0				48 7.74	123 23.90	5.1	106.6	4.9	-1.5
G8	12	23				48 7.74	123 23.85	4.5	90.0	4.5	.0
G8	12	33				48 7.74	123 23.83	4.1	90.0	4.1	.0
G8	12	53				48 7.69	123 23.78	9.3	146.2	5.2	-7.7
G8	13	19	29	16156	16480	48 7.55	123 23.63	12.0	151.5	5.7	-10.6
G8	13	43	15	16349	16212	48 7.46	123 23.46	18.9	127.7	14.9	-11.5
G8	14	25				48 7.43	123 22.68	36.9	101.1	36.2	-7.1
G9	14	52				48 8.28	123 24.80				
G9	15	59	20	14751	18537	48 8.23	123 24.95	6.8	256.8	-6.6	-1.5
G9	16	18	8	14721	18554	48 8.22	123 24.98	2.7	245.4	-2.5	-1.1
G9	16	29	40	14673	18576	48 8.21	123 25.01	7.4	239.0	-6.3	-3.8
G9	16	48	20	14746	18560	48 8.24	123 24.96	7.9	43.3	5.4	5.8
G9	17	6	54	14678	18552	48 8.19	123 25.00	9.3	208.6	-4.5	-8.2
YG4	6	35	0	15052	17955	48 7.98	123 24.63				
YG4	6	38	58	15079	17934	48 7.98	123 24.61	11.4	83.7	11.3	1.3
YG4	6	43	16	15113	17919	48 7.99	123 24.58	14.1	57.6	11.9	7.6
YG4	6	58	37	15189	17873	48 8.01	123 24.53	8.5	68.8	7.9	3.1
YG4	7	17	21	15339	17786	48 8.04	123 24.41	13.6	68.1	12.6	5.1
YG4	7	33	29	15480	17700	48 8.07	123 24.30	14.7	70.8	13.9	4.8
YG4	7	43	33	15561	17632	48 8.07	123 24.24	13.6	89.6	13.6	.1
YG4	7	59	45	15712	17526	48 8.08	123 24.12	15.6	78.9	15.3	3.0
YG4	8	34	52	16100	17250	48 8.12	123 23.81	18.4	80.2	18.1	3.2
YG4	8	54	45	16362	17088	48 8.16	123 23.61	22.0	73.5	21.1	6.2
YG4	9	11	51	16460	17108	48 8.23	123 23.55	14.9	28.8	7.2	13.1
YG4	9	37	54	16539	17165	48 8.32	123 23.51	10.7	16.8	3.1	10.3

Plate 6f3.
DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YG5	10	18				48	7.72	123 24.31				
YG5	10	41	24	15540	17128	48	7.65	123 24.15	38.6	213.1	-21.1	-32.3
YG5	10	58	17	15629	17012	48	7.62	123 24.07	11.5	122.2	9.7	-6.1
YG5	11	11	40	15723	16904	48	7.60	123 23.99	13.5	113.3	12.4	-5.4
YG5	11	41				48	7.63	123 23.92	6.2	90.0	6.2	.0
YG5	12	2				48	7.64	123 23.84	8.0	79.4	7.9	1.5
YG5	12	19				48	7.65	123 23.79	6.2	81.5	6.1	.9
YG5	12	35				48	7.65	123 23.72	9.1	83.9	9.1	1.0
YG5	12	55				48	7.62	123 23.59	14.2	109.0	13.4	-4.6
YG5	13	20	29	16500	16105	48	7.48	123 23.34	10.8	105.2	10.5	-2.8
YG5	13	48	7	16810	15738	48	7.39	123 23.08	22.3	117.0	19.8	-10.1
YG5	14	27	33	17510	15053	48	7.30	123 22.50	31.0	102.5	30.3	-6.7
YG5	15	33	27	14313	17922	48	7.41	123 25.10	12.4	149.1	6.4	-10.7
YG5	16	3	30	14717	17797	48	7.62	123 24.82	28.9	43.6	19.9	20.9
YG5	16	13	30	14459	17775	48	7.40	123 24.98	76.4	207.0	-34.7	-68.1
YG5	16	36	58	14498	17655	48	7.32	123 24.94	11.2	159.6	3.9	-10.5
YG5	16	51	39	14535	17616	48	7.31	123 24.91	4.5	106.3	4.3	-1.3
YG5	17	10	15	14493	17560	48	7.22	123 24.93	15.1	189.0	-2.4	-14.9
YG5	17	23	11	14677	17548	48	7.36	123 24.80	39.7	31.0	20.4	34.0
YR5	6	30	23	15171	18105	48	8.17	123 24.59				
YR5	6	36	18	15191	18081	48	8.17	123 24.57	6.9	113.3	6.3	-2.7
YR5	6	41	53	15238	18042	48	8.17	123 24.53	14.2	89.3	14.2	.2
YR5	7	0	54	15392	17895	48	8.16	123 24.40	14.3	98.1	14.2	-2.0
YR5	7	16	5	15536	17756	48	8.14	123 24.28	16.9	99.1	16.6	-2.7
YR5	7	30	53	15714	17596	48	8.13	123 24.13	20.8	94.5	20.7	-1.6
YR5	7	45	56	15934	17393	48	8.12	123 23.95	25.5	96.4	25.4	-2.8
YR5	7	59	15	16209	17178	48	8.13	123 23.72	34.7	86.0	34.6	2.5
YR5	8	34	12	16643	16909	48	8.19	123 23.39	20.8	74.4	20.0	5.6
YR5	8	47	42	16719	16867	48	8.21	123 23.33	9.5	69.3	8.9	3.4
YR5	9	8	37	16701	16878	48	8.21	123 23.34	1.4	255.9	-1.4	-.3
YR5	9	35	24	16691	16968	48	8.26	123 23.37	6.9	343.6	-2.0	6.7

Plate 6f4.

DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR6	10	42	56	15570	17025	48 7.59	123 24.12				
YR6	10	53	23	15663	16952	48 7.59	123 24.04	14.8	84.1	14.7	1.5
YR6	10	57	14	15662	16942	48 7.58	123 24.04	7.2	173.7	.8	-7.1
YR6	11	10	41	15749	16852	48 7.57	123 23.97	11.6	105.1	11.2	-3.0
YR6	11	29				48 7.61	123 23.92	12.4	104.6	12.0	-3.1
YR6	11	42				48 7.63	123 23.84	13.6	69.5	12.7	4.8
YR6	12	3				48 7.62	123 23.73	10.9	97.7	10.8	-1.5
YR6	12	26				48 7.63	123 23.63	9.1	81.5	9.0	1.3
YR6	12	36				48 7.63	123 23.58	10.3	90.0	10.4	.0
YR6	12	57				48 7.60	123 23.44	14.5	107.7	13.8	-4.4
YR6	13	15	2	16673	15927	48 7.45	123 23.20	13.2	103.1	12.8	-3.0
YR6	13	35	56	16965	15603	48 7.38	123 22.95	72.9	11.4	14.4	71.4
YR6	13	42	33	17081	15470	48 7.35	123 22.85	34.0	114.8	30.9	-14.2
YR6	14	8	17	17487	15052	48 7.28	123 22.52	28.3	107.0	27.1	-8.3
YR6	14	28	55	17934	14672	48 7.27	123 22.16	36.3	92.0	36.3	-1.3
YR7	14	54				48 8.07	123 24.97				
YR7	15	31	39	14660	18341	48 8.02	123 24.96	13.0	228.1	-9.7	-8.7
YR7	15	59	51	14683	18336	48 8.03	123 24.95	1.7	42.3	1.1	1.3
YR7	16	10	42	14774	18308	48 8.07	123 24.88	16.2	48.1	12.1	10.8
YR7	16	32	59	14750	18290	48 8.04	123 24.89	4.2	193.5	-1.0	-4.1
YR7	16	49	30	14837	18223	48 8.05	123 24.83	8.7	82.5	8.7	1.1
YR7	17	4	21	14871	18212	48 8.06	123 24.80	4.3	50.0	3.3	2.8
YB2	14	58				48 7.49	123 25.25				
YB2	15	46				48 7.39	123 25.09	9.4	133.0	6.9	-6.4
YB2	16	13				48 7.35	123 24.99	8.9	120.9	7.7	-4.6
YB2	16	37				48 7.32	123 24.92	7.2	122.6	6.0	-3.9
YB2	16	58				48 7.32	123 24.85	6.9	90.0	6.9	.0
YB2	17	21				48 7.34	123 24.76	8.5	71.7	8.1	2.7
YB2	17	55				48 7.43	123 24.64	11.0	41.8	7.3	8.2

Plate 6g1.
DATE - 29 APRIL 1978

	DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
*	YR8	7	12				48 7.47	123 25.32				
	YR8	7	31				48 7.46	123 25.25	8.3	101.3	8.2	-1.6
	YR8	7	47				48 7.46	123 25.20	5.8	90.0	5.8	.0
	YR8	8	14				48 7.45	123 25.12	6.2	100.6	6.1	-1.1
	YR8	9	5				48 7.43	123 25.01	4.6	105.2	4.5	-1.2
	YR8	9	35				48 7.42	123 24.97	3.3	108.4	3.1	-1.0
	YR8	10	7				48 7.41	123 24.94	2.2	116.5	1.9	-1.0
	YR8	10	41				48 7.39	123 24.92	2.0	153.4	.9	-1.8
	YR8	11	10				48 7.40	123 24.91	.9	53.3	.7	.5
	YR8	11	44				48 7.38	123 24.91	.9	180.1	-.0	-.9
	YR8	12	14				48 7.39	123 24.89	1.5	69.5	1.4	.5
	YR8	13	38				48 7.40	123 24.89	.2	.1	.0	.2
*	YR9	14	50				48 7.68	123 24.25				
	YR9	15	6				48 7.65	123 24.25	5.8	173.7	.6	-5.8
	YR9	15	37				48 7.59	123 24.22	5.7	163.1	1.7	-5.5
	YR9	16	13				48 7.51	123 24.14	8.6	147.8	4.6	-7.3
	YR9	16	49				48 7.43	123 24.08	8.1	154.7	3.4	-7.3
	YR9	17	26				48 7.38	123 24.08	3.8	180.1	-.0	-3.8
	YR9	18	7				48 7.38	123 24.14	3.1	277.1	-3.0	.4
	YR9	19	0				48 7.48	123 24.36	10.2	302.8	-8.6	5.5
	YG6	7	14				48 7.48	123 25.30				
	YG6	7	32				48 7.49	123 25.20	11.5	85.7	11.5	.9
	YG6	7	48				48 7.49	123 25.12	9.7	90.0	9.7	.0
	YG6	8	16				48 7.49	123 24.97	11.5	87.2	11.5	.6
	YG6	9	7				48 7.46	123 24.73	9.9	100.6	9.7	-1.8
	YG6	9	37				48 7.42	123 24.63	8.0	120.9	6.9	-4.1
	YG6	10	10				48 7.40	123 24.57	4.0	110.5	3.8	-1.4
	YG6	10	43				48 7.39	123 24.54	2.6	122.6	2.2	-1.4
	YG6	11	13				48 7.37	123 24.50	3.2	130.5	2.4	-2.1
	YG6	11	47				48 7.35	123 24.48	1.8	138.3	1.2	-1.4
	YG6	12	16				48 7.32	123 24.42	5.7	131.1	4.3	-3.7
	YG6	13	41				48 7.21	123 24.43	4.0	183.6	-.3	-4.0
	YG6	14	34				48 7.18	123 24.43	2.0	180.1	-.0	-2.0

Plate 6g2.
DATE - 29 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YG7	14	50				48 7.68	123 24.25				
YG7	15	8				48 7.65	123 24.25	5.2	173.7	.6	-5.2
YG7	15	39				48 7.60	123 24.22	5.3	161.5	1.7	-5.0
YG7	16	16				48 7.51	123 24.14	8.7	149.3	4.5	-7.5
YG7	16	52				48 7.42	123 24.08	8.5	156.0	3.4	-7.7
YG7	17	29				48 7.38	123 24.08	3.3	180.1	-.0	-3.3
YG7	18	9				48 7.38	123 24.14	3.1	277.1	-3.1	.4
YG7	19	6				48 7.48	123 24.36	9.5	302.8	-8.0	5.2
* YB3	7	20				48 7.73	123 25.29				
YB3	7	29				48 7.71	123 25.25	11.8	136.9	8.0	-8.6
YB3	7	43				48 7.71	123 25.21	6.0	79.4	5.9	1.1
YB3	8	12				48 7.73	123 25.13	6.1	69.5	5.7	2.1
YB3	9	3				48 7.74	123 24.98	6.1	87.2	6.1	.3
YB3	9	32				48 7.76	123 24.92	5.0	58.1	4.3	2.7
YB3	10	4				48 7.79	123 24.87	4.3	48.2	3.2	2.9
YB3	10	37				48 7.82	123 24.82	4.2	48.2	3.1	2.8
YB3	11	6				48 7.85	123 24.79	3.8	33.9	2.2	3.2
YB3	11	41				48 7.89	123 24.74	4.6	40.0	3.0	3.5
YB3	12	8				48 7.93	123 24.70	5.3	40.8	3.5	4.0
* YB4	13	34				48 8.00	123 24.62				
YB4	14	23				48 8.02	123 24.58	2.1	53.3	1.7	1.3
YB4	15	2				48 8.03	123 24.61	1.8	296.5	-1.6	.8
YB4	15	33				48 8.05	123 24.65	3.3	306.8	-2.7	2.0
YB4	16	8				48 8.05	123 24.70	3.0	278.5	-3.0	.4
YB4	16	43				48 8.07	123 24.73	2.2	306.8	-1.8	1.3
YB4	17	21				48 8.12	123 24.78	4.7	320.7	-3.0	3.7
YB4	18	0				48 8.18	123 24.79	5.1	.1	.0	5.2
YB4	18	42				48 8.24	123 24.81	4.2	343.1	-1.2	4.0

Plate 6g3.
DATE - 29 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
* B11	7	5				48 7.93	123 25.37				
B11	7	25				48 7.93	123 25.34	3.0	120.9	2.6	-1.5
B11	7	39				48 7.94	123 25.31	5.5	53.3	4.4	3.3
B11	8	6				48 7.95	123 25.28	2.6	63.6	2.3	1.1
B11	8	59				48 7.96	123 25.25	1.3	63.6	1.2	.6
B11	9	27				48 7.96	123 25.23	1.6	69.5	1.5	.6
B11	10	1				48 7.97	123 25.22	.5	33.9	.3	.4
B11	10	34				48 7.97	123 25.23	.3	270.0	-.3	.0
B11	11	3				48 7.97	123 25.23	.5	.1	.0	.5
B11	11	34				48 7.98	123 25.22	.6	33.9	.3	.5
B11	12	3				48 7.97	123 25.22	.6	146.2	.4	-.5
B11	13	29				48 7.93	123 25.20	1.7	163.5	.5	-1.6
B11	14	17				48 7.86	123 25.32	6.9	229.0	-5.2	-4.5
B11	14	57				48 7.91	123 25.41	6.0	309.7	-4.7	3.9
B11	15	27				48 7.87	123 25.28	9.7	111.9	9.0	-3.6
B11	16	1				48 7.96	123 25.40	10.3	314.9	-7.3	7.3
B11	16	36				48 7.98	123 25.39	2.3	15.1	.6	2.2
B11	17	12				48 7.99	123 25.41	1.5	326.2	-.9	1.3
B11	17	55				48 7.96	123 25.43	2.5	209.2	-1.2	-2.2
B11	18	29				48 7.95	123 25.45	1.6	213.9	-.9	-1.4
G10	7	7				48 7.94	123 25.34				
G10	7	26				48 7.95	123 25.27	7.7	83.9	7.6	.8
G10	7	40				48 7.96	123 25.24	6.1	57.4	5.2	3.3
G10	8	8				48 7.97	123 25.18	4.2	74.8	4.1	1.1
G10	9	0				48 7.96	123 25.08	3.9	103.3	3.8	-.9
G10	9	29				48 7.94	123 25.04	4.2	120.9	3.6	-2.1
G10	10	3				48 7.96	123 24.99	3.6	50.4	2.7	2.3
G10	10	36				48 7.88	123 24.98	8.0	175.6	.6	-8.0
G10	11	5				48 7.87	123 24.98	1.1	180.1	-.0	-1.1
G10	11	39				48 7.87	123 25.00	1.6	253.4	-1.5	-.4
G10	12	7				48 7.87	123 25.04	2.8	293.1	-2.6	1.1
G11	13	32				48 7.81	123 25.05				
G11	14	19				48 7.80	123 25.00	2.2	98.5	2.2	-.3
G11	14	59				48 7.81	123 25.08	4.2	275.3	-4.1	.4
G11	15	29				48 7.80	123 25.09	.9	233.3	-.7	-.5
G11	16	3				48 7.81	123 25.09	.5	326.2	-.3	.4
G11	16	38				48 7.84	123 25.15	4.5	313.6	-3.3	3.1
G11	17	56				48 7.84	123 25.33	4.8	270.0	-4.8	.0

G11	18	35			48	7.88	123	25.32	3.2	9.6	.9	3.2

Plate 6c1.

DATE - 25 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR1	9	48				48	8.19	123	25.45				
YR1	9	29				48	8.20	123	25.35	.3	81.5	.3	.0
YR1	9	46				48	8.12	123	25.33	14.7	170.6	2.4	-14.5
YR1	10	3				48	8.08	123	25.33	7.3	184.9	-.6	-7.3
YR1	10	19				48	8.07	123	25.33	2.0	161.6	.6	-1.9
YR1	10	35				48	8.05	123	25.36	6.2	218.8	-3.9	-4.8
YR1	11	40				48	7.93	123	25.54	7.9	226.4	-5.7	-5.5
YR1	12	17				48	7.91	123	25.59	3.3	239.2	-2.8	-1.7
B4	8	57				48	7.89	123	25.31				
B4	9	17				48	7.85	123	25.16	16.4	109.2	15.5	-5.4
B4	9	32				48	7.83	123	25.07	13.4	112.5	12.4	-5.2
B4	9	51				48	7.82	123	25.08	1.4	233.3	-1.1	-.8
B4	10	6				48	7.78	123	25.00	13.2	123.2	11.0	-7.2
B4	10	23				48	7.75	123	24.94	9.7	131.1	7.3	-6.4
B4	10	39				48	7.71	123	24.88	10.9	134.9	7.8	-7.7
B4	11	47				48	7.60	123	24.59	10.1	119.5	8.8	-5.0
B4	12	27				48	7.40	123	24.62	15.5	185.8	-1.6	-15.4
G3	9	1				48	7.51	123	25.20				
G3	9	20				48	7.55	123	25.10	12.7	59.2	10.9	6.5
G3	9	36				48	7.50	123	25.02	14.1	133.0	10.3	-9.6
G3	9	53				48	7.50	123	24.92	12.2	90.0	12.2	.0
G3	10	25				48	7.49	123	24.73	12.4	96.7	12.3	-1.5
G3	10	43				48	7.42	123	24.68	12.5	152.8	5.7	-11.1
G3	12	0				48	7.27	123	24.22	13.7	116.0	12.4	-6.0

Plate 6c2.

DATE - 25 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YB2	9	5				48 7.31	123 25.10				
YB2	9	22				48 7.33	123 25.01	11.3	76.0	11.0	2.7
YB2	9	55				48 7.31	123 24.86	9.6	101.3	9.4	-1.9
YB2	10	11				48 7.33	123 24.77	12.3	71.7	11.6	3.9
YB2	10	27				48 7.31	123 24.71	8.7	116.5	7.8	-3.9
YB2	10	45				48 7.30	123 24.63	9.4	100.6	9.2	-1.7
YB2	11	51				48 7.19	123 24.37	9.6	122.3	8.1	-5.2
YB2	12	38				48 7.24	123 24.03	15.3	77.6	15.0	3.3
YG1	13	20				48 8.02	123 25.24				
YG1	13	35				48 8.21	123 25.65	68.7	304.7	-56.5	39.1
YG1	13	51				48 8.24	123 25.72	10.7	302.6	-9.1	5.8
YG1	14	13				48 8.25	123 25.81	8.6	279.4	-8.5	1.4
YG1	14	30				48 8.25	123 25.84	3.8	284.0	-3.7	.9
YG1	14	51				48 8.26	123 25.88	4.0	280.6	-3.9	.7
YG1	15	12				48 8.25	123 25.93	5.1	253.4	-4.9	-1.5
YG1	15	32				48 8.25	123 25.95	2.2	290.5	-2.1	.8
YG1	15	53				48 8.26	123 25.93	2.1	69.5	2.0	.7
G4	12	55				48 7.91	123 25.50				
G4	13	7				48 7.95	123 25.58	17.2	306.8	-13.8	10.3
G4	13	23				48 8.16	123 25.57	40.6	1.9	1.4	40.5
G4	13	39				48 8.03	123 25.83	41.5	232.8	-33.0	-25.1
G4	13	55				48 8.05	123 25.92	12.9	287.5	-12.3	3.9
G4	14	15				48 8.09	123 26.08	17.9	292.8	-16.5	6.9
G4	14	32				48 8.18	123 26.09	15.5	355.6	-1.2	15.4
G4	14	54				48 8.22	123 26.19	10.9	300.9	-9.4	5.6
G4	15	15				48 8.25	123 26.24	6.6	311.9	-4.9	4.4
G4	15	35				48 8.25	123 26.27	3.1	270.0	-3.1	.0
G4	15	57				48 8.16	123 26.39	17.0	221.8	-11.3	-12.6

Plate 6c3.

DATE - 25 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR2	12	58				48 7.87	123 25.30				
YR2	13	26				48 7.65	123 25.58	5.5	225.2	-3.9	-3.9
YR2	13	43				48 7.61	123 25.63	9.5	220.0	-6.1	-7.3
YR2	13	59				48 7.57	123 25.68	10.1	220.0	-6.5	-7.7
YR2	14	20				48 7.55	123 25.76	8.4	249.5	-7.9	-2.9
YR2	14	37				48 7.57	123 25.79	5.1	314.9	-3.7	3.6
YR2	14	59				48 7.57	123 25.88	8.5	270.0	-8.5	.0
YR2	15	20				48 7.60	123 25.90	4.8	336.0	-2.0	4.4
YR2	15	40				48 7.68	123 25.92	12.5	350.6	-2.0	12.4
YR2	16	4				48 7.64	123 25.93	5.2	189.6	-.9	-5.2
B5	13	1				48 7.42	123 25.55				
B5	13	12				48 7.40	123 25.56	7.3	195.1	-1.9	-7.0
B5	13	28				48 7.38	123 25.54	3.2	126.8	2.6	-1.9
B5	13	44				48 7.37	123 25.53	3.2	156.0	1.3	-2.9
B5	14	1				48 7.35	123 25.54	3.7	189.6	-.6	-3.6
B5	14	22				48 7.29	123 25.55	8.9	189.6	-1.5	-8.8
B5	14	42				48 7.29	123 25.59	4.1	272.1	-4.1	.2
B5	15	2				48 7.29	123 25.61	2.1	265.7	-2.1	-.2
B5	15	23				48 7.29	123 25.59	2.0	94.3	2.0	-.2
B5	15	44				48 7.27	123 25.49	10.2	105.8	9.9	-2.8
B5	16	10				48 7.26	123 25.40	7.3	99.4	7.2	-1.2

Plate 6d1.

DATE - 26 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
B6	7	53				48 7.74	123 24.68				
B6	8	31				48 7.57	123 24.40	20.6	132.2	15.2	-13.8
B6	8	58				48 7.72	123 24.34	17.8	15.1	4.6	17.2
B6	9	26				48 7.70	123 24.20	10.6	102.0	10.3	-2.2
B6	9	52				48 7.69	123 24.09	8.8	97.7	8.8	-1.2
B6	10	23				48 7.67	123 23.92	11.5	100.0	11.4	-2.0
G5	8	0				48 7.52	123 25.05				
G5	8	36				48 7.79	123 25.32	27.9	326.2	-15.5	23.2
G5	9	5				48 7.74	123 24.99	24.1	102.7	23.5	-5.3
G5	9	31				48 7.73	123 24.82	13.6	95.0	13.5	-1.2
G5	9	49				48 7.55	123 24.50	48.0	130.0	36.7	-30.9
G5	10	17				48 7.67	123 24.46	13.6	12.7	3.0	13.2
YR3	8	5				48 7.92	123 26.27				
YR3	8	40				48 7.88	123 25.97	18.1	101.3	17.7	-3.5
YR3	9	9				48 7.82	123 25.75	16.9	112.2	15.7	-6.4
YR3	9	36				48 7.76	123 25.49	21.1	109.0	19.9	-6.9
YR3	9	45				48 7.74	123 25.39	24.0	106.6	23.0	-6.9
YR3	10	9				48 7.72	123 25.22	14.9	100.0	14.7	-2.6
YG2	8	10				48 7.95	123 26.92				
YG2	8	45				48 7.88	123 26.74	12.3	120.2	10.6	-6.2
YG2	9	41				48 7.83	123 26.27	17.6	99.0	17.4	-2.8
YG2	10	4				48 7.81	123 26.00	24.4	96.3	24.3	-2.7

Plate 6d2.
DATE - 26 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
S3	14	29				48 8.53	123 27.24				
S3	14	43				48 8.60	123 26.79	68.3	76.9	66.5	15.4
S3	14	56				48 8.65	123 26.35	71.1	80.4	70.1	11.9
S3	15	8				48 8.65	123 25.90	77.6	90.0	77.6	.0
S3	15	21				48 8.63	123 25.36	86.1	93.2	85.9	-4.8
S3	15	33				48 8.61	123 24.87	84.6	93.5	84.5	-5.2
S3	15	43				48 8.53	123 24.31	118.5	102.0	115.8	-24.7
S3	15	59				48 8.37	123 23.42	119.1	105.0	115.1	-30.9
S3	16	32				48 7.84	123 21.95	104.6	118.3	92.1	-49.6
S2	14	30				48 8.55	123 27.24				
S2	14	44				48 8.63	123 26.75	74.6	76.3	72.4	17.6
S2	14	57				48 8.67	123 26.30	72.3	82.4	71.6	9.5
S2	15	9				48 8.65	123 25.90	69.2	94.3	69.0	-5.2
S2	15	22				48 8.61	123 25.44	73.8	97.4	73.2	-9.5
S2	15	34				48 8.61	123 24.97	81.0	90.0	81.1	.0
S2	15	46				48 8.54	123 24.40	99.9	100.4	98.3	-18.0
S2	16	2				48 8.42	123 23.55	112.3	101.9	109.9	-23.2
S2	16	34				48 7.99	123 21.93	112.6	111.6	104.7	-41.5
D2	14	31				48 8.58	123 27.22				
D2	14	46				48 8.65	123 26.77	63.8	76.9	62.1	14.4
D2	14	59				48 8.68	123 26.32	72.0	84.3	71.6	7.1
D2	15	10				48 8.65	123 25.89	81.3	95.9	80.9	-8.4
D2	15	23				48 8.60	123 25.52	60.1	101.4	58.9	-11.9
D2	15	36				48 8.58	123 25.17	55.9	94.9	55.7	-4.8
D2	15	52				48 8.55	123 24.77	52.0	96.4	51.7	-5.8
D2	16	13				48 8.48	123 24.14	62.9	99.4	62.1	-10.3

Plate 6e1.

DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
B7	6	34	22	14098	18687	48 7.91	123 25.39				
B7	6	43	7	14142	18651	48 7.91	123 25.36	8.4	85.3	8.4	.7
B7	6	56	31	14150	18681	48 7.94	123 25.36	6.8	357.8	-.3	6.8
B7	7	33	6	14329	18582	48 7.98	123 25.22	8.5	63.6	7.6	3.8
B7	7	55	26	14456	18391	48 7.92	123 25.10	14.3	127.8	11.3	-8.8
B7	8	10				48 7.95	123 24.97	16.4	84.3	16.3	1.6
B7	8	26				48 7.95	123 24.83	18.1	90.0	18.1	.0
B7	8	41				48 7.96	123 24.77	8.5	76.0	8.3	2.1
B7	8	59				48 7.97	123 24.66	12.8	82.3	12.6	1.7
B7	9	16				48 8.02	123 24.53	18.3	60.2	15.8	9.1
B7	9	35				48 8.05	123 24.45	10.0	60.8	8.7	4.9
B7	9	50				48 8.08	123 24.39	10.3	53.3	8.3	6.2
B7	10	7				48 8.10	123 24.35	6.1	53.3	4.9	3.6
B7	10	27	50	15558	17690	48 8.11	123 24.25	12.2	72.0	11.6	3.8
B7	10	49	31	15671	17595	48 8.11	123 24.16	8.9	89.7	8.9	.1
B7	11	3	10	15755	17539	48 8.12	123 24.09	10.3	76.8	10.0	2.3
B7	11	16	44	15799	17494	48 8.11	123 24.06	5.9	103.4	5.7	-1.4
B7	11	31	36	15856	17433	48 8.10	123 24.01	7.3	106.7	6.9	-2.1
B7	11	44	37	15849	17433	48 8.10	123 24.01	1.3	216.6	-.8	-1.1
B7	12	27				48 8.05	123 24.05	4.0	108.0	3.8	-1.3
B7	12	59	3	15775	17323	48 7.97	123 24.04	5.4	187.3	-.7	-5.4
B7	13	26	14	15740	17229	48 7.87	123 24.04	10.9	182.0	-.4	-10.9
B7	13	51				48 7.85	123 23.93	9.8	146.2	5.4	-8.1
B7	14	28	49	16151	16608	48 7.65	123 23.66	16.7	130.8	12.6	-10.9
B7	14	50				48 7.65	123 23.54	17.2	127.5	13.7	-10.5
B7	14	56				48 7.64	123 23.51	11.6	116.5	10.3	-5.2
B7	15	15				48 7.61	123 23.39	13.9	110.5	13.1	-4.9
B7	15	31				48 7.58	123 23.30	13.0	116.5	11.6	-5.8
B7	15	42				48 7.55	123 23.25	12.6	131.9	9.4	-8.4

Plate 6e2.

DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
G6	6	36	39	14070	18481	48 7.72	123 25.37				
G6	6	45	49	14164	18415	48 7.73	123 25.29	17.1	74.0	16.5	4.7
G6	7	57	36	14823	17971	48 7.84	123 24.78	14.8	88.9	14.8	.3
G6	8	15				48 7.88	123 24.59	19.3	83.5	19.2	2.2
G6	8	30				48 7.86	123 24.42	23.8	100.0	23.5	-4.1
G6	8	46				48 7.92	123 24.28	21.5	57.4	18.1	11.6
G6	9	2				48 7.96	123 24.18	15.1	59.2	12.9	7.7
G6	9	20				48 7.98	123 24.06	14.2	76.0	13.8	3.4
G6	9	38				48 8.03	123 23.97	13.4	50.4	10.4	8.6
G6	9	54				48 8.01	123 23.83	18.5	102.0	18.1	-3.9
G6	10	10				48 8.04	123 23.75	11.9	60.8	10.4	5.8
G6	10	25	21	16215	17112	48 8.09	123 23.71	15.9	71.1	15.0	5.2
G6	10	46	16	16251	17234	48 8.20	123 23.71	16.4	359.3	-.2	16.4
G6	11	6	11	16251	17388	48 8.31	123 23.74	17.6	348.8	-3.4	17.3
G6	11	18	21	16230	17532	48 8.40	123 23.79	23.8	340.8	-7.8	22.5
G6	11	33	50	16126	17845	48 8.55	123 23.93	36.3	329.0	-18.7	31.1
G6	11	40	23	15965	18055	48 8.61	123 24.08	54.3	297.5	-48.2	25.1
G6	12	9	26	15706	18551	48 8.79	123 24.37	28.6	314.0	-20.6	19.9
G6	13	7				48 8.84	123 24.58	-.0	-.0	-.0	-.0
G6	13	33				48 8.76	123 24.43	13.9	120.9	11.9	-7.1
G6	13	5	48	15472	18878	48 8.88	123 24.60	9.8	299.0	-8.6	4.7
G6	13	50	31	15765	18476	48 8.78	123 24.32	15.2	118.1	13.4	-7.1
G6	14	10	51	16257	18061	48 8.77	123 23.90	42.1	91.7	42.1	-1.2

Plate 6e3.
DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YG3	6	38	5	13832	18409	48 7.47	123 25.51				
YG3	6	47	16	13874	18398	48 7.50	123 25.48	10.4	38.9	6.6	8.1
YG3	7	1	7	13924	18370	48 7.51	123 25.44	6.5	59.6	5.6	3.3
YG3	7	36	7	14101	18256	48 7.55	123 25.30	8.7	67.5	8.1	3.3
YG3	7	52	49	14230	18196	48 7.59	123 25.21	14.7	53.5	11.8	8.7
YG3	8	19				48 7.55	123 25.05	14.4	101.3	14.1	-2.8
YG3	8	34				48 7.56	123 24.96	12.6	80.6	12.4	2.1
YG3	8	52				48 7.61	123 24.80	20.3	65.0	18.4	8.6
YG3	9	8				48 7.62	123 24.71	11.8	80.6	11.6	1.9
YG3	9	26				48 7.62	123 24.61	11.5	90.0	11.5	.0
YG3	9	44				48 7.60	123 24.54	8.7	113.1	8.0	-3.4
YG3	10	0				48 7.56	123 24.50	9.3	146.2	5.2	-7.7
YG3	10	16				48 7.52	123 24.40	15.1	120.9	12.9	-7.7
YG3	10	28	40	15237	17200	48 7.49	123 24.37	11.3	100.5	11.1	-2.1
YG3	10	47	12	15402	17047	48 7.48	123 24.23	15.2	96.2	15.1	-1.6
YG3	11	3	51	15439	17007	48 7.47	123 24.20	4.1	106.1	3.9	-1.3
YG3	11	17	16	15530	16919	48 7.47	123 24.13	11.8	100.1	11.6	-2.1
YG3	11	32	18	15620	16799	48 7.43	123 24.05	13.3	124.4	10.9	-7.5
YG3	11	45	42	15717	16663	48 7.38	123 23.96	17.0	128.7	13.3	-10.7
YG3	12	38				48 7.24	123 23.57	14.3	119.1	12.5	-7.0
YG3	12	56	38	16321	15880	48 7.14	123 23.44	18.5	124.9	15.1	-10.6
YG3	13	22	29	16646	15551	48 7.09	123 23.18	22.1	104.7	21.4	-5.6
YG3	13	43	51	17043	15221	48 7.10	123 22.86	31.0	88.0	31.0	1.1

Plate 6e4.

DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR4	6	31	38	14180	18886	48 8.12	123 25.39				
YR4	6	41	22	14225	18840	48 8.11	123 25.35	8.4	101.5	8.2	-1.7
YR4	6	55	19	14213	18851	48 8.11	123 25.36	1.4	270.0	-1.4	-.0
YR4	7	31	36	14325	18713	48 8.08	123 25.26	6.4	114.3	5.8	-2.6
YR4	7	56	39	14426	18608	48 8.07	123 25.17	7.4	103.0	7.2	-1.7
YR4	8	24				48 8.02	123 25.08	8.0	104.0	7.8	-1.9
YR4	8	39				48 8.00	123 25.02	9.2	116.5	8.3	-4.1
YR4	8	57				48 7.98	123 24.94	9.8	110.5	9.2	-3.4
YR4	9	15				48 7.97	123 24.84	11.6	98.5	11.5	-1.7
YR4	9	31				48 7.97	123 24.75	11.7	85.3	11.6	1.0
YR4	10	5				48 8.01	123 24.60	9.7	70.8	9.1	3.2
YR4	10	26	40	15220	17868	48 8.03	123 24.51	9.2	95.8	9.2	-.9
YR4	10	48	26	15335	17785	48 8.04	123 24.41	8.8	79.8	8.7	1.6
YR4	11	5	14	15486	17680	48 8.05	123 24.30	15.0	77.7	14.7	3.2
YR4	11	19	26	15524	17665	48 8.07	123 24.27	4.8	54.7	4.0	2.8
YR4	11	30	31	15493	17635	48 8.02	123 24.28	12.1	192.0	-2.5	-11.8
YR4	11	44	2	15580	17537	48 8.01	123 24.21	12.4	109.8	11.7	-4.2
YR4	12	25				48 7.82	123 24.05	9.6	123.2	8.0	-5.2
YR4	12	59	46	15757	17233	48 7.89	123 24.03	6.9	135.6	4.8	-4.9
YR4	13	24	42	15853	17034	48 7.79	123 23.93	14.2	144.5	8.3	-11.6
YR4	13	46	38	15966	16845	48 7.72	123 23.82	14.7	136.1	10.2	-10.6
YR4	14	27	55	16405	16275	48 7.55	123 23.43	23.0	122.2	19.5	-12.3
YR4	14	52				48 7.59	123 23.28	19.3	111.9	17.9	-7.2
YR4	15	1				48 7.59	123 23.21	16.1	90.0	16.1	.0
YR4	15	19				48 7.52	123 23.06	21.0	124.9	17.2	-12.0
YR4	15	37				48 7.50	123 22.83	26.7	97.4	26.4	-3.4
YR4	15	59				48 7.45	123 22.71	13.3	121.9	11.3	-7.0

Plate 6f1.
DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
B8	6	24				48	8.19	123	24.83				
B8	7	22	11	15225	18043	48	8.16	123	24.54	12.6	109.9	11.9	-4.3
B8	7	31	22	15277	17986	48	8.15	123	24.50	10.8	108.0	10.3	-3.3
B8	7	46	36	15401	17855	48	8.13	123	24.39	15.1	105.1	14.6	-3.9
B8	8	3	42	15550	17702	48	8.11	123	24.26	16.0	103.1	15.5	-3.6
B8	8	36	28	15917	17393	48	8.11	123	23.96	19.0	90.5	19.0	-.2
B8	8	48	19	16056	17297	48	8.13	123	23.85	19.7	78.1	19.2	4.1
B8	9	13	9	16360	17191	48	8.23	123	23.63	22.5	54.4	18.3	13.1
B8	9	36	48	16597	17196	48	8.37	123	23.48	22.6	35.9	13.2	18.3
B9	10	22				48	7.55	123	24.34				
B9	10	55	56	15641	16912	48	7.54	123	24.05	47.3	202.8	-18.4	-43.6
B9	11	9	33	15734	16805	48	7.52	123	23.97	13.2	114.1	12.1	-5.4
B9	11	32				48	7.54	123	23.85	14.5	91.7	14.5	-.4
B9	11	44				48	7.53	123	23.76	15.7	99.4	15.5	-2.6
B9	12	5				48	7.53	123	23.55	20.7	92.0	20.7	-.7
B9	12	28				48	7.51	123	23.47	7.5	105.6	7.2	-2.0
B9	12	38				48	7.44	123	23.37	29.9	136.3	20.7	-21.6
B9	12	59				48	7.42	123	23.21	16.0	100.6	15.8	-2.9
B9	13	24				48	7.50	123	22.99	20.7	61.5	18.2	9.9
B9	13	39				48	7.55	123	22.88	18.3	55.9	15.2	10.3
B10	15	22	18	14369	18226	48	7.72	123	25.12				
B10	15	48				48	7.68	123	25.04	5.8	146.2	3.2	-4.8
B10	16	1	27	14441	18042	48	7.62	123	25.04	7.4	142.7	4.5	-5.8
B10	16	11	48	14473	18024	48	7.63	123	25.02	5.4	61.6	4.8	2.6
B10	16	34	57	14496	17957	48	7.59	123	24.99	5.9	155.8	2.4	-5.4
B10	16	53	30	14548	17890	48	7.57	123	24.94	6.1	121.3	5.2	-3.2
B10	17	8	23	14577	17857	48	7.56	123	24.92	3.7	112.7	3.4	-1.4

Plate 6f2.

DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
G8	6	19				48	8.19	123 25.15				
G8	7	20	41	14698	18475	48	8.15	123 24.97	-.0	-.0	-.0	-.0
G8	7	32	1	14746	18434	48	8.15	123 24.93	7.1	89.4	7.1	.1
G8	7	44	32	14792	18371	48	8.13	123 24.89	8.4	121.4	7.2	-4.4
G8	8	4	30	14841	18299	48	8.11	123 24.84	6.0	125.2	4.9	-3.5
G8	8	38	35	15004	18062	48	8.03	123 24.68	11.6	125.6	9.4	-6.8
G8	8	51	43	15052	17983	48	8.00	123 24.64	10.1	132.2	7.5	-6.8
G8	9	10	22	15155	17837	48	7.96	123 24.54	13.1	125.1	10.7	-7.5
G8	9	41	6	15301	17593	48	7.86	123 24.40	13.5	134.4	9.7	-9.4
G8	9	57	9	15362	17501	48	7.83	123 24.34	9.7	130.0	7.4	-6.2
G8	10	11				48	7.82	123 24.29	11.0	120.2	9.5	-5.5
G8	10	54	44	15684	17103	48	7.73	123 24.05	11.6	117.6	10.2	-5.4
G8	11	12	44	15781	16995	48	7.71	123 23.97	10.2	110.1	9.6	-3.5
G8	11	39				48	7.75	123 23.95	12.7	130.5	9.6	-8.2
G8	12	0				48	7.74	123 23.90	5.1	106.6	4.9	-1.5
G8	12	23				48	7.74	123 23.85	4.5	90.0	4.5	.0
G8	12	33				48	7.74	123 23.83	4.1	90.0	4.1	.0
G8	12	53				48	7.69	123 23.78	9.3	146.2	5.2	-7.7
G8	13	19	29	16156	16480	48	7.55	123 23.63	12.0	151.5	5.7	-10.6
G8	13	43	15	16349	16212	48	7.46	123 23.46	18.9	127.7	14.9	-11.5
G8	14	25				48	7.43	123 22.68	36.9	101.1	36.2	-7.1
G9	14	52				48	8.28	123 24.80				
G9	15	59	20	14751	18537	48	8.23	123 24.95	6.8	256.8	-6.6	-1.5
G9	16	18	8	14721	18554	48	8.22	123 24.98	2.7	245.4	-2.5	-1.1
G9	16	29	40	14673	18576	48	8.21	123 25.01	7.4	239.0	-6.3	-3.8
G9	16	48	20	14746	18560	48	8.24	123 24.96	7.9	43.3	5.4	5.8
G9	17	6	54	14678	18552	48	8.19	123 25.00	9.3	208.6	-4.5	-8.2
YG4	6	35	0	15052	17955	48	7.98	123 24.63				
YG4	6	38	58	15079	17934	48	7.98	123 24.61	11.4	83.7	11.3	1.3
YG4	6	43	16	15113	17919	48	7.99	123 24.58	14.1	57.6	11.9	7.6
YG4	6	56	37	15189	17873	48	8.01	123 24.53	8.5	68.8	7.9	3.1
YG4	7	17	21	15339	17786	48	8.04	123 24.41	13.6	68.1	12.6	5.1
YG4	7	33	29	15480	17700	48	8.07	123 24.30	14.7	70.8	13.9	4.8
YG4	7	43	33	15561	17632	48	8.07	123 24.24	13.6	89.6	13.6	.1
YG4	7	59	45	15712	17526	48	8.08	123 24.12	15.6	78.9	15.3	3.0
YG4	8	34	52	16100	17250	48	8.12	123 23.81	18.4	80.2	18.1	3.2
YG4	8	54	45	16362	17088	48	8.16	123 23.61	22.0	73.5	21.1	6.2
YG4	9	11	51	16460	17108	48	8.23	123 23.55	14.9	28.8	7.2	13.1
YG4	9	37	54	16539	17165	48	8.32	123 23.51	10.7	16.8	3.1	10.3

Plate 6f3.
DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YG5	10	18				48	7.72	123	24.31				
YG5	10	41	24	15540	17128	48	7.65	123	24.15	38.6	213.1	-21.1	-32.3
YG5	10	58	17	15629	17012	48	7.62	123	24.07	11.5	122.2	9.7	-6.1
YG5	11	11	40	15723	16904	48	7.60	123	23.99	13.5	113.3	12.4	-5.4
YG5	11	41				48	7.63	123	23.92	6.2	90.0	6.2	.0
YG5	12	2				48	7.64	123	23.84	8.0	79.4	7.9	1.5
YG5	12	19				48	7.65	123	23.79	6.2	81.5	6.1	.9
YG5	12	35				48	7.65	123	23.72	9.1	83.9	9.1	1.0
YG5	12	55				48	7.62	123	23.59	14.2	109.0	13.4	-4.6
YG5	13	20	29	16500	16105	48	7.48	123	23.34	10.8	105.2	10.5	-2.8
YG5	13	48	7	16810	15738	48	7.39	123	23.08	22.3	117.0	19.8	-10.1
YG5	14	27	33	17510	15053	48	7.30	123	22.50	31.0	102.5	30.3	-6.7
YG5	15	33	27	14313	17922	48	7.41	123	25.10	12.4	149.1	6.4	-10.7
YG5	16	3	30	14717	17797	48	7.62	123	24.82	28.9	43.6	19.9	20.9
YG5	16	13	30	14459	17775	48	7.40	123	24.98	76.4	207.0	-34.7	-68.1
YG5	16	36	58	14498	17655	48	7.32	123	24.94	11.2	159.6	3.9	-10.5
YG5	16	51	39	14535	17616	48	7.31	123	24.91	4.5	106.3	4.3	-1.3
YG5	17	10	15	14493	17560	48	7.22	123	24.93	15.1	189.0	-2.4	-14.9
YG5	17	23	11	14677	17548	48	7.36	123	24.80	39.7	31.0	20.4	34.0
YR5	6	30	23	15171	18105	48	8.17	123	24.59				
YR5	6	36	18	15191	18081	48	8.17	123	24.57	6.9	113.3	6.3	-2.7
YR5	6	41	53	15238	18042	48	8.17	123	24.53	14.2	89.3	14.2	.2
YR5	7	0	54	15392	17895	48	8.16	123	24.40	14.3	98.1	14.2	-2.0
YR5	7	16	5	15536	17756	48	8.14	123	24.28	16.9	99.1	16.6	-2.7
YR5	7	30	53	15714	17596	48	8.13	123	24.13	20.8	94.5	20.7	-1.6
YR5	7	45	56	15934	17393	48	8.12	123	23.95	25.5	96.4	25.4	-2.8
YR5	7	59	15	16209	17178	48	8.13	123	23.72	34.7	86.0	34.6	2.5
YR5	8	34	12	16643	16909	48	8.19	123	23.39	20.8	74.4	20.0	5.6
YR5	8	47	42	16719	16867	48	8.21	123	23.33	9.5	69.3	8.9	3.4
YR5	9	8	37	16701	16878	48	8.21	123	23.34	1.4	255.9	-1.4	-.3
YR5	9	35	24	16691	16968	48	8.26	123	23.37	6.9	343.6	-2.0	6.7

Plate 6f4.

DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR6	10	42	56	15570	17025	48 7.59	123 24.12				
YR6	10	53	23	15663	16952	48 7.59	123 24.04	14.8	84.1	14.7	1.5
YR6	10	57	14	15662	16942	48 7.58	123 24.04	7.2	173.7	.8	-7.1
YR6	11	10	41	15749	16852	48 7.57	123 23.97	11.6	105.1	11.2	-3.0
YR6	11	29				48 7.61	123 23.92	12.4	104.6	12.0	-3.1
YR6	11	42				48 7.63	123 23.84	13.6	69.5	12.7	4.8
YR6	12	3				48 7.62	123 23.73	10.9	97.7	10.8	-1.5
YR6	12	26				48 7.63	123 23.63	9.1	81.5	9.0	1.3
YR6	12	36				48 7.63	123 23.58	10.3	90.0	10.4	.0
YR6	12	57				48 7.60	123 23.44	14.5	107.7	13.8	-4.4
YR6	13	15	2	16673	15927	48 7.45	123 23.20	13.2	103.1	12.8	-3.0
YR6	13	35	56	16965	15603	48 7.38	123 22.95	72.9	11.4	14.4	71.4
YR6	13	42	33	17081	15470	48 7.35	123 22.85	34.0	114.8	30.9	-14.2
YR6	14	8	17	17487	15052	48 7.28	123 22.52	28.3	107.0	27.1	-8.3
YR6	14	28	55	17934	14672	48 7.27	123 22.16	36.3	92.0	36.3	-1.3
YR7	14	54				48 8.07	123 24.97				
YR7	15	31	39	14660	18341	48 8.02	123 24.96	13.0	228.1	-9.7	-8.7
YR7	15	59	51	14683	18336	48 8.03	123 24.95	1.7	42.3	1.1	1.3
YR7	16	10	42	14774	18308	48 8.07	123 24.88	16.2	48.1	12.1	10.8
YR7	16	32	59	14750	18290	48 8.04	123 24.89	4.2	193.5	-1.0	-4.1
YR7	16	49	30	14837	18223	48 8.05	123 24.83	8.7	82.5	8.7	1.1
YR7	17	4	21	14871	18212	48 8.06	123 24.80	4.3	50.0	3.3	2.8
YB2	14	58				48 7.49	123 25.25				
YB2	15	46				48 7.39	123 25.09	9.4	133.0	6.9	-6.4
YB2	16	13				48 7.35	123 24.99	8.9	120.9	7.7	-4.6
YB2	16	37				48 7.32	123 24.92	7.2	122.6	6.0	-3.9
YB2	16	58				48 7.32	123 24.85	6.9	90.0	6.9	.0
YB2	17	21				48 7.34	123 24.76	8.5	71.7	8.1	2.7
YB2	17	55				48 7.43	123 24.64	11.0	41.8	7.3	8.2

Plate 6g1.
DATE - 29 APRIL 1978

	DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
*	YR8	7	12				48	7.47	123	25.32				
	YR8	7	31				48	7.46	123	25.25	8.3	101.3	8.2	-1.6
	YR8	7	47				48	7.46	123	25.20	5.8	90.0	5.8	.0
	YR8	8	14				48	7.45	123	25.12	6.2	100.6	6.1	-1.1
	YR8	9	5				48	7.43	123	25.01	4.6	105.2	4.5	-1.2
	YR8	9	35				48	7.42	123	24.97	3.3	108.4	3.1	-1.0
	YR8	10	7				48	7.41	123	24.94	2.2	116.5	1.9	-1.0
	YR8	10	41				48	7.39	123	24.92	2.0	153.4	.9	-1.8
	YR8	11	10				48	7.40	123	24.91	.9	53.3	.7	.5
	YR8	11	44				48	7.38	123	24.91	.9	180.1	-.0	-.9
	YR8	12	14				48	7.39	123	24.89	1.5	69.5	1.4	.5
	YR8	13	38				48	7.40	123	24.89	.2	.1	.0	.2
*	YR9	14	50				48	7.68	123	24.25				
	YR9	15	6				48	7.65	123	24.25	5.8	173.7	.6	-5.8
	YR9	15	37				48	7.59	123	24.22	5.7	163.1	1.7	-5.5
	YR9	16	13				48	7.51	123	24.14	8.6	147.8	4.6	-7.3
	YR9	16	49				48	7.43	123	24.08	8.1	154.7	3.4	-7.3
	YR9	17	26				48	7.38	123	24.08	3.8	180.1	-.0	-3.8
	YR9	18	7				48	7.38	123	24.14	3.1	277.1	-3.0	.4
	YR9	19	0				48	7.48	123	24.36	10.2	302.8	-8.6	5.5
	YG6	7	14				48	7.48	123	25.30				
	YG6	7	32				48	7.49	123	25.20	11.5	85.7	11.5	.9
	YG6	7	48				48	7.49	123	25.12	9.7	90.0	9.7	.0
	YG6	8	16				48	7.49	123	24.97	11.5	87.2	11.5	.6
	YG6	9	7				48	7.46	123	24.73	9.9	100.6	9.7	-1.8
	YG6	9	37				48	7.42	123	24.63	8.0	120.9	6.9	-4.1
	YG6	10	10				48	7.40	123	24.57	4.0	110.5	3.8	-1.4
	YG6	10	43				48	7.39	123	24.54	2.6	122.6	2.2	-1.4
	YG6	11	13				48	7.37	123	24.50	3.2	130.5	2.4	-2.1
	YG6	11	47				48	7.35	123	24.48	1.8	138.3	1.2	-1.4
	YG6	12	16				48	7.32	123	24.42	5.7	131.1	4.3	-3.7
	YG6	13	41				48	7.21	123	24.43	4.0	183.6	-.3	-4.0
	YG6	14	34				48	7.18	123	24.43	2.0	180.1	-.0	-2.0

Plate 6g2.
DATE - 29 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YG7	14	50				48 7.68	123 24.25				
YG7	15	8				48 7.65	123 24.25	5.2	173.7	.6	-5.2
YG7	15	39				48 7.60	123 24.22	5.3	161.5	1.7	-5.0
YG7	16	16				48 7.51	123 24.14	8.7	149.3	4.5	-7.5
YG7	16	52				48 7.42	123 24.08	8.5	156.0	3.4	-7.7
YG7	17	29				48 7.38	123 24.08	3.3	180.1	-.0	-3.3
YG7	18	9				48 7.38	123 24.14	3.1	277.1	-3.1	.4
YG7	19	6				48 7.48	123 24.36	9.5	302.8	-8.0	5.2
* YB3	7	20				48 7.73	123 25.29				
YB3	7	29				48 7.71	123 25.25	11.8	136.9	8.0	-8.6
YB3	7	43				48 7.71	123 25.21	6.0	79.4	5.9	1.1
YB3	8	12				48 7.73	123 25.13	6.1	69.5	5.7	2.1
YB3	9	3				48 7.74	123 24.98	6.1	87.2	6.1	.3
YB3	9	32				48 7.76	123 24.92	5.0	58.1	4.3	2.7
YB3	10	4				48 7.79	123 24.87	4.3	48.2	3.2	2.9
YB3	10	37				48 7.82	123 24.82	4.2	48.2	3.1	2.8
YB3	11	6				48 7.85	123 24.79	3.8	33.9	2.2	3.2
YB3	11	41				48 7.89	123 24.74	4.6	40.0	3.0	3.5
YB3	12	8				48 7.93	123 24.70	5.3	40.8	3.5	4.0
* YB4	13	34				48 8.00	123 24.62				
YB4	14	23				48 8.02	123 24.58	2.1	53.3	1.7	1.3
YB4	15	2				48 8.03	123 24.61	1.8	296.5	-1.6	.8
YB4	15	33				48 8.05	123 24.65	3.3	306.8	-2.7	2.0
YB4	16	8				48 8.05	123 24.70	3.0	278.5	-3.0	.4
YB4	16	43				48 8.07	123 24.73	2.2	306.8	-1.8	1.3
YB4	17	21				48 8.12	123 24.78	4.7	320.7	-3.0	3.7
YB4	18	0				48 8.18	123 24.79	5.1	.1	.0	5.2
YB4	18	42				48 8.24	123 24.81	4.2	343.1	-1.2	4.0

Plate 6g3.

DATE - 29 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
* B11	7	5				48 7.93	123 25.37				
B11	7	25				48 7.93	123 25.34	3.0	120.9	2.6	-1.5
B11	7	39				48 7.94	123 25.31	5.5	53.3	4.4	3.3
B11	8	6				48 7.95	123 25.28	2.6	63.6	2.3	1.1
B11	8	59				48 7.96	123 25.25	1.3	63.6	1.2	.6
B11	9	27				48 7.96	123 25.23	1.6	69.5	1.5	.6
B11	10	1				48 7.97	123 25.22	.5	33.9	.3	.4
B11	10	34				48 7.97	123 25.23	.3	270.0	-.3	.0
B11	11	3				48 7.97	123 25.23	.5	.1	.0	.5
B11	11	34				48 7.98	123 25.22	.6	33.9	.3	.5
B11	12	3				48 7.97	123 25.22	.6	146.2	.4	-.5
B11	13	29				48 7.93	123 25.20	1.7	163.5	.5	-1.6
B11	14	17				48 7.86	123 25.32	6.9	229.0	-5.2	-4.5
B11	14	57				48 7.91	123 25.41	6.0	309.7	-4.7	3.9
B11	15	27				48 7.87	123 25.28	9.7	111.9	9.0	-3.6
B11	16	1				48 7.96	123 25.40	10.3	314.9	-7.3	7.3
B11	16	36				48 7.98	123 25.39	2.3	15.1	.6	2.2
B11	17	12				48 7.95	123 25.41	1.5	326.2	-.9	1.3
B11	17	55				48 7.96	123 25.43	2.5	209.2	-1.2	-2.2
B11	18	29				48 7.95	123 25.45	1.6	213.9	-.9	-1.4
G10	7	7				48 7.94	123 25.34				
G10	7	26				48 7.95	123 25.27	7.7	83.9	7.6	.8
G10	7	40				48 7.96	123 25.24	6.1	57.4	5.2	3.3
G10	8	8				48 7.97	123 25.16	4.2	74.8	4.1	1.1
G10	9	0				48 7.96	123 25.08	3.9	103.3	3.8	-.9
G10	9	29				48 7.94	123 25.04	4.2	120.9	3.6	-2.1
G10	10	3				48 7.96	123 24.99	3.6	50.4	2.7	2.3
G10	10	36				48 7.88	123 24.98	8.0	175.6	.6	-8.0
G10	11	5				48 7.87	123 24.98	1.1	180.1	-.0	-1.1
G10	11	39				48 7.87	123 25.00	1.6	253.4	-1.5	-.4
G10	12	7				48 7.87	123 25.04	2.8	293.1	-2.6	1.1
G11	13	32				48 7.81	123 25.05				
G11	14	19				48 7.80	123 25.00	2.2	98.5	2.2	-.3
G11	14	59				48 7.81	123 25.08	4.2	275.3	-4.1	.4
G11	15	29				48 7.80	123 25.09	.9	233.3	-.7	-.5
G11	16	3				48 7.81	123 25.09	.5	326.2	-.3	.4
G11	16	38				48 7.84	123 25.15	4.5	313.6	-3.3	3.1
G11	17	56				48 7.84	123 25.33	4.8	270.0	-4.8	.0
G11	18	35				48 7.88	123 25.32	3.2	9.6	.5	3.2

Plate 6c1.

DATE - 25 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR1	9	48				48 8.19	123 25.45				
YR1	9	29				48 8.20	123 25.35	.3	81.5	.3	.0
YR1	9	46				48 8.12	123 25.33	14.7	170.6	2.4	-14.5
YR1	10	3				48 8.08	123 25.33	7.3	184.9	-.6	-7.3
YR1	10	19				48 8.07	123 25.33	2.0	161.6	.6	-1.9
YR1	10	35				48 8.05	123 25.36	6.2	218.8	-3.9	-4.8
YR1	11	40				48 7.93	123 25.54	7.9	226.4	-5.7	-5.5
YR1	12	17				48 7.91	123 25.59	3.3	239.2	-2.8	-1.7
B4	8	57				48 7.89	123 25.31				
B4	9	17				48 7.85	123 25.16	16.4	109.2	15.5	-5.4
B4	9	32				48 7.83	123 25.07	13.4	112.5	12.4	-5.2
B4	9	51				48 7.82	123 25.08	1.4	233.3	-1.1	-.8
B4	10	6				48 7.78	123 25.00	13.2	123.2	11.0	-7.2
B4	10	23				48 7.75	123 24.94	9.7	131.1	7.3	-6.4
B4	10	39				48 7.71	123 24.88	10.9	134.9	7.8	-7.7
B4	11	47				48 7.60	123 24.59	10.1	119.5	8.8	-5.0
B4	12	27				48 7.40	123 24.62	15.5	185.8	-1.6	-15.4
G3	9	1				48 7.51	123 25.20				
G3	9	20				48 7.55	123 25.10	12.7	59.2	10.9	6.5
G3	9	36				48 7.50	123 25.02	14.1	133.0	10.3	-9.6
G3	9	53				48 7.50	123 24.92	12.2	90.0	12.2	.0
G3	10	25				48 7.49	123 24.73	12.4	96.7	12.3	-1.5
G3	10	43				48 7.42	123 24.68	12.5	152.8	5.7	-11.1
G3	12	0				48 7.27	123 24.22	13.7	116.0	12.4	-6.0

Plate 6c2.

DATE - 25 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YB2	9	5				48 7.31	123 25.10				
YB2	9	22				48 7.33	123 25.01	11.3	76.0	11.0	2.7
YB2	9	55				48 7.31	123 24.86	9.6	101.3	9.4	-1.9
YB2	10	11				48 7.33	123 24.77	12.3	71.7	11.6	3.9
YB2	10	27				48 7.31	123 24.71	8.7	116.5	7.8	-3.9
YB2	10	45				48 7.30	123 24.63	9.4	100.6	9.2	-1.7
YB2	11	51				48 7.19	123 24.37	9.6	122.3	8.1	-5.2
YB2	12	38				48 7.24	123 24.03	15.3	77.6	15.0	3.3
YG1	13	20				48 8.02	123 25.24				
YG1	13	35				48 8.21	123 25.65	68.7	304.7	-56.5	39.1
YG1	13	51				48 8.24	123 25.72	10.7	302.6	-9.1	5.8
YG1	14	13				48 8.25	123 25.81	8.6	279.4	-8.5	1.4
YG1	14	30				48 8.25	123 25.84	3.8	284.0	-3.7	.9
YG1	14	51				48 8.26	123 25.88	4.0	280.6	-3.9	.7
YG1	15	12				48 8.25	123 25.93	5.1	253.4	-4.9	-1.5
YG1	15	32				48 8.25	123 25.95	2.2	290.5	-2.1	.8
YG1	15	53				48 8.26	123 25.93	2.1	69.5	2.0	.7
G4	12	55				48 7.91	123 25.50				
G4	13	7				48 7.95	123 25.58	17.2	306.8	-13.8	10.3
G4	13	23				48 8.16	123 25.57	40.6	1.9	1.4	40.5
G4	13	39				48 8.03	123 25.83	41.5	232.8	-33.0	-25.1
G4	13	55				48 8.05	123 25.92	12.9	287.5	-12.3	3.9
G4	14	15				48 8.09	123 26.08	17.9	292.8	-16.5	6.9
G4	14	32				48 8.18	123 26.09	15.5	355.6	-1.2	15.4
G4	14	54				48 8.22	123 26.19	10.9	300.9	-9.4	5.6
G4	15	15				48 8.25	123 26.24	6.6	311.9	-4.9	4.4
G4	15	35				48 8.25	123 26.27	3.1	270.0	-3.1	.0
G4	15	57				48 8.16	123 26.39	17.0	221.8	-11.3	-12.6

Plate 6c3.

DATE - 25 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR2	12	58				48 7.87	123 25.30				
YR2	13	26				48 7.65	123 25.58	5.5	225.2	-3.9	-3.9
YR2	13	43				48 7.61	123 25.63	5.5	220.0	-6.1	-7.3
YR2	13	59				48 7.57	123 25.68	10.1	220.0	-6.5	-7.7
YR2	14	20				48 7.55	123 25.76	8.4	249.5	-7.9	-2.9
YR2	14	37				48 7.57	123 25.79	5.1	314.9	-3.7	3.6
YR2	14	59				48 7.57	123 25.88	8.5	270.0	-8.5	.0
YR2	15	20				48 7.60	123 25.90	4.8	336.0	-2.0	4.4
YR2	15	40				48 7.68	123 25.92	12.5	350.6	-2.0	12.4
YR2	16	4				48 7.64	123 25.93	5.2	189.6	-.9	-5.2
B5	13	1				48 7.42	123 25.55				
B5	13	12				48 7.40	123 25.56	7.3	195.1	-1.9	-7.0
B5	13	28				48 7.38	123 25.54	3.2	126.8	2.6	-1.9
B5	13	44				48 7.37	123 25.53	3.2	156.0	1.3	-2.9
B5	14	1				48 7.35	123 25.54	3.7	189.6	-.6	-3.6
B5	14	22				48 7.29	123 25.55	8.9	189.6	-1.5	-8.8
B5	14	42				48 7.29	123 25.59	4.1	272.1	-4.1	.2
B5	15	2				48 7.29	123 25.61	2.1	265.7	-2.1	-.2
B5	15	23				48 7.29	123 25.59	2.0	94.3	2.0	-.2
B5	15	44				48 7.27	123 25.49	10.2	105.8	9.9	-2.8
B5	16	10				48 7.26	123 25.40	7.3	99.4	7.2	-1.2

Plate 6d1.

DATE - 26 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
B6	7	53				48 7.74	123 24.68				
B6	8	31				48 7.57	123 24.40	20.6	132.2	15.2	-13.8
B6	8	58				48 7.72	123 24.34	17.8	15.1	4.6	17.2
B6	9	26				48 7.70	123 24.20	10.6	102.0	10.3	-2.2
B6	9	52				48 7.69	123 24.09	8.8	97.7	8.8	-1.2
B6	10	23				48 7.67	123 23.92	11.5	100.0	11.4	-2.0
G5	8	0				48 7.52	123 25.05				
G5	8	36				48 7.79	123 25.32	27.9	326.2	-15.5	23.2
G5	9	5				48 7.74	123 24.99	24.1	102.7	23.5	-5.3
G5	9	31				48 7.73	123 24.82	13.6	95.0	13.5	-1.2
G5	9	49				48 7.55	123 24.50	48.0	130.0	36.7	-30.9
G5	10	17				48 7.67	123 24.46	13.6	12.7	3.0	13.2
YR3	8	5				48 7.92	123 26.27				
YR3	8	40				48 7.88	123 25.97	18.1	101.3	17.7	-3.5
YR3	9	9				48 7.82	123 25.75	16.9	112.2	15.7	-6.4
YR3	9	36				48 7.76	123 25.49	21.1	109.0	19.9	-6.9
YR3	9	45				48 7.74	123 25.39	24.0	106.6	23.0	-6.9
YR3	10	9				48 7.72	123 25.22	14.9	100.0	14.7	-2.6
YG2	8	10				48 7.95	123 26.92				
YG2	8	45				48 7.88	123 26.74	12.3	120.2	10.6	-6.2
YG2	9	41				48 7.83	123 26.27	17.6	99.0	17.4	-2.8
YG2	10	4				48 7.81	123 26.00	24.4	96.3	24.3	-2.7

Plate 6d2.
DATE - 26 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
S3	14	29				48 8.53	123 27.24				
S3	14	43				48 8.60	123 26.79	68.3	76.9	66.5	15.4
S3	14	56				48 8.65	123 26.35	71.1	80.4	70.1	11.9
S3	15	8				48 8.65	123 25.90	77.6	90.0	77.6	.0
S3	15	21				48 8.63	123 25.36	86.1	93.2	85.9	-4.8
S3	15	33				48 8.61	123 24.87	84.6	93.5	84.5	-5.2
S3	15	43				48 8.53	123 24.31	118.5	102.0	115.8	-24.7
S3	15	59				48 8.37	123 23.42	119.1	105.0	115.1	-30.9
S3	16	32				48 7.84	123 21.95	104.6	118.3	92.1	-49.6
S2	14	30				48 8.55	123 27.24				
S2	14	44				48 8.63	123 26.75	74.6	76.3	72.4	17.6
S2	14	57				48 8.67	123 26.30	72.3	82.4	71.6	9.5
S2	15	9				48 8.65	123 25.90	69.2	94.3	69.0	-5.2
S2	15	22				48 8.61	123 25.44	73.8	97.4	73.2	-9.5
S2	15	34				48 8.61	123 24.97	81.0	90.0	81.1	.0
S2	15	46				48 8.54	123 24.40	99.9	100.4	98.3	-18.0
S2	16	2				48 8.42	123 23.55	112.3	101.9	109.9	-23.2
S2	16	34				48 7.99	123 21.93	112.6	111.6	104.7	-41.5
D2	14	31				48 8.58	123 27.22				
D2	14	46				48 8.65	123 26.77	63.8	76.9	62.1	14.4
D2	14	59				48 8.68	123 26.32	72.0	84.3	71.6	7.1
D2	15	10				48 8.65	123 25.89	81.3	95.9	80.9	-8.4
D2	15	23				48 8.60	123 25.52	60.1	101.4	58.9	-11.9
D2	15	36				48 8.58	123 25.17	55.9	94.9	55.7	-4.8
D2	15	52				48 8.55	123 24.77	52.0	96.4	51.7	-5.8
D2	16	13				48 8.48	123 24.14	62.9	99.4	62.1	-10.3

Plate 6e1.

DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
B7	6	34	22	14098	18687	48 7.91	123 25.39				
B7	6	43	7	14142	18651	48 7.91	123 25.36	8.4	85.3	8.4	.7
B7	6	56	31	14150	18681	48 7.94	123 25.36	6.8	357.8	-.3	6.8
B7	7	33	6	14329	18582	48 7.98	123 25.22	8.5	63.6	7.6	3.8
B7	7	55	26	14456	18391	48 7.92	123 25.10	14.3	127.8	11.3	-8.8
B7	8	10				48 7.95	123 24.97	16.4	84.3	16.3	1.6
B7	8	26				48 7.95	123 24.83	18.1	90.0	18.1	.0
B7	8	41				48 7.96	123 24.77	8.5	76.0	8.3	2.1
B7	8	59				48 7.97	123 24.66	12.8	82.3	12.6	1.7
B7	9	16				48 8.02	123 24.53	18.3	60.2	15.8	9.1
B7	9	35				48 8.05	123 24.45	10.0	60.8	8.7	4.9
B7	9	50				48 8.08	123 24.39	10.3	53.3	8.3	6.2
B7	10	7				48 8.10	123 24.35	6.1	53.3	4.9	3.6
B7	10	27	50	15558	17690	48 8.11	123 24.25	12.2	72.0	11.6	3.8
B7	10	49	31	15671	17595	48 8.11	123 24.16	8.9	89.7	8.9	.1
B7	11	3	10	15755	17539	48 8.12	123 24.09	10.3	76.8	10.0	2.3
B7	11	16	44	15799	17494	48 8.11	123 24.06	5.9	103.4	5.7	-1.4
B7	11	31	36	15856	17433	48 8.10	123 24.01	7.3	106.7	6.9	-2.1
B7	11	44	37	15849	17433	48 8.10	123 24.01	1.3	216.6	-.8	-1.1
B7	12	27				48 8.05	123 24.05	4.0	108.0	3.8	-1.3
B7	12	59	3	15775	17323	48 7.97	123 24.04	5.4	187.3	-.7	-5.4
B7	13	26	14	15740	17229	48 7.67	123 24.04	10.9	182.0	-.4	-10.9
B7	13	51				48 7.85	123 23.93	9.8	146.2	5.4	-8.1
B7	14	28	49	16151	16608	48 7.65	123 23.66	16.7	130.8	12.6	-10.9
B7	14	50				48 7.65	123 23.54	17.2	127.5	13.7	-10.5
B7	14	56				48 7.64	123 23.51	11.6	116.5	10.3	-5.2
B7	15	15				48 7.61	123 23.39	13.9	110.5	13.1	-4.9
B7	15	31				48 7.58	123 23.30	13.0	116.5	11.6	-5.8
B7	15	42				48 7.55	123 23.25	12.6	131.9	9.4	-8.4

Plate 6e2.

DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
G6	6	36	39	14070	18481	48 7.72	123 25.37				
G6	6	45	49	14164	18415	48 7.73	123 25.29	17.1	74.0	16.5	4.7
G6	7	57	36	14823	17971	48 7.84	123 24.78	14.8	88.9	14.8	.3
G6	8	15				48 7.88	123 24.59	19.3	83.5	19.2	2.2
G6	8	30				48 7.86	123 24.42	23.8	100.0	23.5	-4.1
G6	8	46				48 7.92	123 24.28	21.5	57.4	18.1	11.6
G6	9	2				48 7.96	123 24.18	15.1	59.2	12.9	7.7
G6	9	20				48 7.98	123 24.06	14.2	76.0	13.8	3.4
G6	9	38				48 8.03	123 23.97	13.4	50.4	10.4	8.6
G6	9	54				48 8.01	123 23.83	18.5	102.0	18.1	-3.9
G6	10	10				48 8.04	123 23.75	11.9	60.8	10.4	5.8
G6	10	25	21	16215	17112	48 8.09	123 23.71	15.9	71.1	15.0	5.2
G6	10	46	16	16251	17234	48 8.20	123 23.71	16.4	359.3	-.2	16.4
G6	11	6	11	16251	17388	48 8.31	123 23.74	17.6	348.8	-3.4	17.3
G6	11	18	21	16230	17532	48 8.40	123 23.79	23.8	340.8	-7.8	22.5
G6	11	33	50	16126	17845	48 8.55	123 23.93	36.3	329.0	-18.7	31.1
G6	11	40	23	15965	18055	48 8.61	123 24.08	54.3	297.5	-48.2	25.1
G6	12	9	26	15706	18551	48 8.79	123 24.37	28.6	314.0	-20.6	19.9
G6	13	7				48 8.84	123 24.58	-.0	-.0	-.0	-.0
G6	13	33				48 8.76	123 24.43	13.9	120.9	11.9	-7.1
G6	13	5	48	15472	18878	48 8.86	123 24.60	9.8	299.0	-8.6	4.7
G6	13	50	31	15765	18476	48 8.78	123 24.32	15.2	118.1	13.4	-7.1
G6	14	10	51	16257	18061	48 8.77	123 23.90	42.1	91.7	42.1	-1.2

Plate 6e3.

DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YG3	6	38	5	13832	18409	48 7.47	123 25.51				
YG3	6	47	16	13874	18398	48 7.50	123 25.48	10.4	38.9	6.6	8.1
YG3	7	1	7	13924	18370	48 7.51	123 25.44	6.5	59.8	5.6	3.3
YG3	7	36	7	14101	18256	48 7.55	123 25.30	8.7	67.5	8.1	3.3
YG3	7	52	49	14230	18196	48 7.59	123 25.21	14.7	53.5	11.8	8.7
YG3	8	19				48 7.55	123 25.05	14.4	101.3	14.1	-2.8
YG3	8	34				48 7.56	123 24.96	12.6	80.8	12.4	2.1
YG3	8	52				48 7.61	123 24.80	20.3	65.0	18.4	8.6
YG3	9	8				48 7.62	123 24.71	11.8	80.6	11.6	1.9
YG3	9	26				48 7.62	123 24.61	11.5	90.0	11.5	.0
YG3	9	44				48 7.60	123 24.54	8.7	113.1	8.0	-3.4
YG3	10	0				48 7.56	123 24.50	9.3	146.2	5.2	-7.7
YG3	10	16				48 7.52	123 24.40	15.1	120.9	12.9	-7.7
YG3	10	28	40	15237	17200	48 7.49	123 24.37	11.3	100.5	11.1	-2.1
YG3	10	47	12	15402	17047	48 7.48	123 24.23	15.2	96.2	15.1	-1.6
YG3	11	3	51	15439	17007	48 7.47	123 24.20	4.1	108.1	3.9	-1.3
YG3	11	17	16	15530	16919	48 7.47	123 24.13	11.8	100.1	11.6	-2.1
YG3	11	32	18	15620	16799	48 7.43	123 24.05	13.3	124.4	10.9	-7.5
YG3	11	45	42	15717	16663	48 7.38	123 23.96	17.0	128.7	13.3	-10.7
YG3	12	38				48 7.24	123 23.57	14.3	119.1	12.5	-7.0
YG3	12	56	38	16321	15880	48 7.14	123 23.44	18.5	124.9	15.1	-10.6
YG3	13	22	29	16646	15551	48 7.09	123 23.18	22.1	104.7	21.4	-5.6
YG3	13	43	51	17043	15221	48 7.10	123 22.86	31.0	88.0	31.0	1.1

Plate 6e4.

DATE - 27 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE		LONGITUDE		SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR4	6	31	38	14180	18886	48	8.12	123	25.39				
YR4	6	41	22	14225	18840	48	8.11	123	25.35	8.4	101.5	8.2	-1.7
YR4	6	55	19	14213	18851	48	8.11	123	25.36	1.4	270.0	-1.4	-.0
YR4	7	31	36	14325	18713	48	8.08	123	25.26	6.4	114.3	5.8	-2.6
YR4	7	56	38	14426	18608	48	8.07	123	25.17	7.4	103.0	7.2	-1.7
YR4	8	24				48	8.02	123	25.08	8.0	104.0	7.8	-1.9
YR4	8	39				48	8.00	123	25.02	9.2	116.5	8.3	-4.1
YR4	8	57				48	7.98	123	24.94	9.8	110.5	9.2	-3.4
YR4	9	15				48	7.97	123	24.84	11.6	98.5	11.5	-1.7
YR4	9	31				48	7.97	123	24.75	11.7	85.3	11.6	1.0
YR4	10	5				48	8.01	123	24.60	9.7	70.8	9.1	3.2
YR4	10	26	40	15220	17868	48	8.03	123	24.51	9.2	95.8	9.2	-.9
YR4	10	48	26	15335	17785	48	8.04	123	24.41	8.8	79.8	8.7	1.6
YR4	11	5	14	15486	17680	48	8.05	123	24.30	15.0	77.7	14.7	3.2
YR4	11	19	26	15524	17665	48	8.07	123	24.27	4.8	54.7	4.0	2.8
YR4	11	30	31	15493	17635	48	8.02	123	24.28	12.1	192.0	-2.5	-11.8
YR4	11	44	2	15580	17537	48	8.01	123	24.21	12.4	109.8	11.7	-4.2
YR4	12	25				48	7.82	123	24.05	9.6	123.2	8.0	-5.2
YR4	12	59	46	15757	17233	48	7.89	123	24.03	6.9	135.6	4.8	-4.9
YR4	13	24	42	15853	17034	48	7.79	123	23.93	14.2	144.5	8.3	-11.6
YR4	13	46	38	15966	16845	48	7.72	123	23.82	14.7	136.1	10.2	-10.6
YR4	14	27	55	16405	16275	48	7.55	123	23.43	23.0	122.2	19.5	-12.3
YR4	14	52				48	7.59	123	23.28	19.3	111.9	17.9	-7.2
YR4	15	1				48	7.59	123	23.21	16.1	90.0	16.1	.0
YR4	15	19				48	7.52	123	23.06	21.0	124.9	17.2	-12.0
YR4	15	37				48	7.50	123	22.83	26.7	97.4	26.4	-3.4
YR4	15	59				48	7.45	123	22.71	13.3	121.9	11.3	-7.0

Plate 6f1.
DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
B8	6	24				48 8.19	123 24.83				
B8	7	22	11	15225	18043	48 8.16	123 24.54	12.6	109.9	11.9	-4.3
B8	7	31	22	15277	17986	48 8.15	123 24.50	10.8	108.0	10.3	-3.3
B8	7	46	36	15401	17855	48 8.13	123 24.39	15.1	105.1	14.6	-3.9
B8	8	3	42	15550	17702	48 8.11	123 24.26	16.0	103.1	15.5	-3.6
B8	8	36	28	15917	17393	48 8.11	123 23.96	19.0	90.5	19.0	-.2
B8	8	48	19	16056	17297	48 8.13	123 23.85	19.7	78.1	19.2	4.1
B8	9	13	9	16360	17191	48 8.23	123 23.63	22.5	54.4	18.3	13.1
B8	9	36	48	16597	17196	48 8.37	123 23.48	22.6	35.9	13.2	18.3
B9	10	22				48 7.55	123 24.34				
B9	10	55	56	15641	16912	48 7.54	123 24.05	47.3	202.8	-18.4	-43.6
B9	11	9	33	15734	16805	48 7.52	123 23.97	13.2	114.1	12.1	-5.4
B9	11	32				48 7.54	123 23.85	14.5	91.7	14.5	-.4
B9	11	44				48 7.53	123 23.76	15.7	99.4	15.5	-2.6
B9	12	5				48 7.53	123 23.55	20.7	92.0	20.7	-.7
B9	12	28				48 7.51	123 23.47	7.5	105.6	7.2	-2.0
B9	12	38				48 7.44	123 23.37	29.9	136.3	20.7	-21.6
B9	12	59				48 7.42	123 23.21	16.0	100.6	15.8	-2.9
B9	13	24				48 7.50	123 22.99	20.7	61.5	18.2	9.9
B9	13	39				48 7.55	123 22.88	18.3	55.9	15.2	10.3
B10	15	22	18	14369	18226	48 7.72	123 25.12				
B10	15	48				48 7.68	123 25.04	5.8	146.2	3.2	-4.8
B10	16	1	27	14441	18042	48 7.62	123 25.04	7.4	142.7	4.5	-5.8
B10	16	11	48	14473	18024	48 7.63	123 25.02	5.4	61.6	4.8	2.6
B10	16	34	57	14496	17957	48 7.59	123 24.99	5.9	155.8	2.4	-5.4
B10	16	53	30	14548	17890	48 7.57	123 24.94	6.1	121.3	5.2	-3.2
B10	17	8	23	14577	17857	48 7.56	123 24.92	3.7	112.7	3.4	-1.4

Plate 6f2.

DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
G8	6	19				48 8.19	123 25.15				
G8	7	20	41	14698	18475	48 8.15	123 24.97	-.0	-.0	-.0	-.0
G8	7	32	1	14746	18434	48 8.15	123 24.93	7.1	89.4	7.1	.1
G8	7	44	32	14792	18371	48 8.13	123 24.89	8.4	121.4	7.2	-4.4
G8	8	4	30	14841	18299	48 8.11	123 24.84	6.0	125.2	4.9	-3.5
G8	8	38	35	15004	18062	48 8.03	123 24.68	11.6	125.6	9.4	-6.8
G8	8	51	43	15052	17983	48 8.00	123 24.64	10.1	132.2	7.5	-6.8
G8	9	10	22	15155	17837	48 7.96	123 24.54	13.1	125.1	10.7	-7.5
G8	9	41	6	15301	17593	48 7.86	123 24.40	13.5	134.4	9.7	-9.4
G8	9	57	9	15362	17501	48 7.83	123 24.34	9.7	130.0	7.4	-6.2
G8	10	11				48 7.82	123 24.29	11.0	120.2	9.5	-5.5
G8	10	54	44	15684	17103	48 7.73	123 24.05	11.6	117.6	10.2	-5.4
G8	11	12	44	15781	16995	48 7.71	123 23.97	10.2	110.1	9.6	-3.5
G8	11	39				48 7.75	123 23.95	12.7	130.5	9.6	-8.2
G8	12	0				48 7.74	123 23.90	5.1	106.6	4.9	-1.5
G8	12	23				48 7.74	123 23.85	4.5	90.0	4.5	.0
G8	12	33				48 7.74	123 23.83	4.1	90.0	4.1	.0
G8	12	53				48 7.69	123 23.78	9.3	146.2	5.2	-7.7
G8	13	19	29	16156	16480	48 7.55	123 23.63	12.0	151.5	5.7	-10.6
G8	13	43	15	16349	16212	48 7.46	123 23.46	18.9	127.7	14.9	-11.5
G8	14	25				48 7.43	123 22.68	36.9	101.1	36.2	-7.1
G9	14	52				48 8.28	123 24.80				
G9	15	59	20	14751	18537	48 8.23	123 24.95	6.8	256.8	-6.6	-1.5
G9	16	18	8	14721	18554	48 8.22	123 24.98	2.7	245.4	-2.5	-1.1
G9	16	29	40	14673	18576	48 8.21	123 25.01	7.4	239.0	-6.3	-3.8
G9	16	48	20	14746	18560	48 8.24	123 24.96	7.9	43.3	5.4	5.8
G9	17	6	54	14678	18552	48 8.19	123 25.00	9.3	208.6	-4.5	-8.2
YG4	6	35	0	15052	17955	48 7.98	123 24.63				
YG4	6	38	58	15079	17934	48 7.98	123 24.61	11.4	83.7	11.3	1.3
YG4	6	43	16	15113	17919	48 7.99	123 24.58	14.1	57.6	11.9	7.6
YG4	6	58	37	15189	17873	48 8.01	123 24.53	8.5	68.8	7.9	3.1
YG4	7	17	21	15339	17786	48 8.04	123 24.41	13.6	68.1	12.6	5.1
YG4	7	33	29	15480	17700	48 8.07	123 24.30	14.7	70.8	13.9	4.8
YG4	7	43	33	15561	17632	48 8.07	123 24.24	13.6	89.6	13.6	.1
YG4	7	59	45	15712	17526	48 8.08	123 24.12	15.6	78.9	15.3	3.0
YG4	8	34	52	16100	17250	48 8.12	123 23.81	18.4	80.2	18.1	3.2
YG4	8	54	45	16362	17088	48 8.16	123 23.61	22.0	73.5	21.1	6.2
YG4	9	11	51	16460	17108	48 8.23	123 23.55	14.9	28.8	7.2	13.1
YG4	9	37	54	16539	17165	48 8.32	123 23.51	10.7	16.8	3.1	10.3

Plate 6f3.
DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS CM/SEC) LONGSHORE	OFFSHORE
YG5	10	18				48 7.72	123 24.31				
YG5	10	41	24	15540	17128	48 7.65	123 24.15	38.6	213.1	-21.1	-32.3
YG5	10	58	17	15629	17012	48 7.62	123 24.07	11.5	122.2	9.7	-6.1
YG5	11	11	40	15723	16904	48 7.60	123 23.99	13.5	113.3	12.4	-5.4
YG5	11	41				48 7.63	123 23.92	6.2	90.0	6.2	.0
YG5	12	2				48 7.64	123 23.84	8.0	79.4	7.9	1.5
YG5	12	19				48 7.65	123 23.79	6.2	81.5	6.1	.9
YG5	12	35				48 7.65	123 23.72	9.1	83.9	9.1	1.0
YG5	12	55				48 7.62	123 23.59	14.2	109.0	13.4	-4.6
YG5	13	20	29	16500	16105	48 7.46	123 23.34	10.8	105.2	10.5	-2.8
YG5	13	48	7	16810	15738	48 7.39	123 23.08	22.3	117.0	19.8	-10.1
YG5	14	27	33	17510	15053	48 7.30	123 22.50	31.0	102.5	30.3	-6.7
YG5	15	33	27	14313	17922	48 7.41	123 25.10	12.4	149.1	6.4	-10.7
YG5	16	3	30	14717	17797	48 7.62	123 24.82	28.9	43.6	19.9	20.9
YG5	16	13	30	14459	17775	48 7.40	123 24.98	76.4	207.0	-34.7	-68.1
YG5	16	36	58	14498	17655	48 7.32	123 24.94	11.2	159.6	3.9	-10.5
YG5	16	51	39	14535	17616	48 7.31	123 24.91	4.5	106.3	4.3	-1.3
YG5	17	10	15	14493	17560	48 7.22	123 24.93	15.1	189.0	-2.4	-14.9
YG5	17	23	11	14677	17548	48 7.36	123 24.80	39.7	31.0	20.4	34.0
YR5	6	30	23	15171	18105	48 8.17	123 24.59				
YR5	6	36	18	15191	18081	48 8.17	123 24.57	6.9	113.3	6.3	-2.7
YR5	6	41	53	15238	18042	48 8.17	123 24.53	14.2	89.3	14.2	.2
YR5	7	0	54	15392	17895	48 8.16	123 24.40	14.3	98.1	14.2	-2.0
YR5	7	16	5	15536	17756	48 8.14	123 24.26	16.9	99.1	16.6	-2.7
YR5	7	30	53	15714	17596	48 8.13	123 24.13	20.8	94.5	20.7	-1.6
YR5	7	45	56	15934	17393	48 8.12	123 23.95	25.5	96.4	25.4	-2.8
YR5	7	59	15	16209	17178	48 8.13	123 23.72	34.7	86.0	34.6	2.5
YR5	8	34	12	16643	16909	48 8.19	123 23.39	20.8	74.4	20.0	5.6
YR5	8	47	42	16719	16867	48 8.21	123 23.33	9.5	69.3	8.9	3.4
YR5	9	8	37	16701	16878	48 8.21	123 23.34	1.4	255.9	-1.4	-.3
YR5	9	35	24	16691	16968	48 8.26	123 23.37	6.9	343.6	-2.0	6.7

Plate 6f4.

DATE - 28 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YR6	10	42	56	15570	17025	48 7.59	123 24.12				
YR6	10	53	23	15663	16952	48 7.59	123 24.04	14.8	84.1	14.7	1.5
YR6	10	57	14	15662	16942	48 7.58	123 24.04	7.2	173.7	.8	-7.1
YR6	11	10	41	15749	16852	48 7.57	123 23.97	11.6	105.1	11.2	-3.0
YR6	11	29				48 7.61	123 23.92	12.4	104.6	12.0	-3.1
YR6	11	42				48 7.63	123 23.84	13.6	69.5	12.7	4.8
YR6	12	3				48 7.62	123 23.73	10.9	97.7	10.8	-1.5
YR6	12	26				48 7.63	123 23.63	9.1	81.5	9.0	1.3
YR6	12	36				48 7.63	123 23.58	10.3	90.0	10.4	.0
YR6	12	57				48 7.60	123 23.44	14.5	107.7	13.8	-4.4
YR6	13	15	2	16673	15927	48 7.45	123 23.20	13.2	103.1	12.8	-3.0
YR6	13	35	56	16965	15603	48 7.38	123 22.95	72.9	11.4	14.4	71.4
YR6	13	42	33	17081	15470	48 7.35	123 22.85	34.0	114.8	30.9	-14.2
YR6	14	8	17	17487	15052	48 7.28	123 22.52	28.3	107.0	27.1	-8.3
YR6	14	28	55	17934	14672	48 7.27	123 22.16	36.3	92.0	36.3	-1.3
YR7	14	54				48 8.07	123 24.97				
YR7	15	31	39	14660	18341	48 8.02	123 24.96	13.0	228.1	-9.7	-8.7
YR7	15	59	51	14683	18336	48 8.03	123 24.95	1.7	42.3	1.1	1.3
YR7	16	10	42	14774	18308	48 8.07	123 24.88	16.2	48.1	12.1	10.8
YR7	16	32	59	14750	18290	48 8.04	123 24.89	4.2	193.5	-1.0	-4.1
YR7	16	49	30	14837	18223	48 8.05	123 24.83	8.7	82.5	8.7	1.1
YR7	17	4	21	14871	18212	48 8.06	123 24.80	4.3	50.0	3.3	2.8
YB2	14	58				48 7.49	123 25.25				
YB2	15	46				48 7.39	123 25.09	9.4	133.0	6.9	-6.4
YB2	16	13				48 7.35	123 24.99	8.9	120.9	7.7	-4.6
YB2	16	37				48 7.32	123 24.92	7.2	122.6	6.0	-3.9
YB2	16	58				48 7.32	123 24.85	6.9	90.0	6.9	.0
YB2	17	21				48 7.34	123 24.76	8.5	71.7	8.1	2.7
YB2	17	55				48 7.43	123 24.64	11.0	41.8	7.3	8.2

Plate 6g1.
DATE - 29 APRIL 1978

	DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
*	YR8	7	12				48 7.47	123 25.32				
	YR8	7	31				48 7.46	123 25.25	8.3	101.3	8.2	-1.6
	YR8	7	47				48 7.46	123 25.20	5.8	90.0	5.8	.0
	YR8	8	14				48 7.45	123 25.12	6.2	100.6	6.1	-1.1
	YR8	9	5				48 7.43	123 25.01	4.6	105.2	4.5	-1.2
	YR8	9	35				48 7.42	123 24.97	3.3	108.4	3.1	-1.0
	YR8	10	7				48 7.41	123 24.94	2.2	116.5	1.9	-1.0
	YR8	10	41				48 7.39	123 24.92	2.0	153.4	.9	-1.8
	YR8	11	10				48 7.40	123 24.91	.9	53.3	.7	.5
	YR8	11	44				48 7.38	123 24.91	.9	180.1	-.0	-.9
	YR8	12	14				48 7.39	123 24.89	1.5	69.5	1.4	.5
	YR8	13	38				48 7.40	123 24.89	.2	.1	.0	.2
*	YR9	14	50				48 7.68	123 24.25				
	YR9	15	6				48 7.65	123 24.25	5.8	173.7	.6	-5.8
	YR9	15	37				48 7.59	123 24.22	5.7	163.1	1.7	-5.5
	YR9	16	13				48 7.51	123 24.14	8.6	147.8	4.6	-7.3
	YR9	16	49				48 7.43	123 24.08	8.1	154.7	3.4	-7.3
	YR9	17	26				48 7.38	123 24.08	3.8	180.1	-.0	-3.8
	YR9	18	7				48 7.38	123 24.14	3.1	277.1	-3.0	.4
	YR9	19	0				48 7.48	123 24.36	10.2	302.8	-8.6	5.5
	YG6	7	14				48 7.48	123 25.30				
	YG6	7	32				48 7.49	123 25.20	11.5	85.7	11.5	.9
	YG6	7	48				48 7.49	123 25.12	9.7	90.0	9.7	.0
	YG6	8	16				48 7.49	123 24.97	11.5	87.2	11.5	.6
	YG6	9	7				48 7.46	123 24.73	9.9	100.6	9.7	-1.8
	YG6	9	37				48 7.42	123 24.63	8.0	120.9	6.9	-4.1
	YG6	10	10				48 7.40	123 24.57	4.0	110.5	3.8	-1.4
	YG6	10	43				48 7.39	123 24.54	2.6	122.6	2.2	-1.4
	YG6	11	13				48 7.37	123 24.50	3.2	130.5	2.4	-2.1
	YG6	11	47				48 7.35	123 24.48	1.6	138.3	1.2	-1.4
	YG6	12	16				48 7.32	123 24.42	5.7	131.1	4.3	-3.7
	YG6	13	41				48 7.21	123 24.43	4.0	183.6	-.3	-4.0
	YG6	14	34				48 7.18	123 24.43	2.0	180.1	-.0	-2.0

Plate 6g2.
DATE - 29 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
YG7	14	50				48 7.68	123 24.25				
YG7	15	8				48 7.65	123 24.25	5.2	173.7	.6	-5.2
YG7	15	39				48 7.60	123 24.22	5.3	161.5	1.7	-5.0
YG7	16	16				48 7.51	123 24.14	8.7	149.3	4.5	-7.5
YG7	16	52				48 7.42	123 24.08	8.5	156.0	3.4	-7.7
YG7	17	29				48 7.38	123 24.08	3.3	180.1	-.0	-3.3
YG7	18	9				48 7.38	123 24.14	3.1	277.1	-3.1	.4
YG7	19	6				48 7.48	123 24.36	9.5	302.8	-8.0	5.2
* YB3	7	20				48 7.73	123 25.29				
YB3	7	29				48 7.71	123 25.25	11.8	136.9	8.0	-8.6
YB3	7	43				48 7.71	123 25.21	6.0	79.4	5.9	1.1
YB3	8	12				48 7.73	123 25.13	6.1	69.5	5.7	2.1
YB3	9	3				48 7.74	123 24.98	6.1	87.2	6.1	.3
YB3	9	32				48 7.76	123 24.92	5.0	58.1	4.3	2.7
YB3	10	4				48 7.79	123 24.87	4.3	48.2	3.2	2.9
YB3	10	37				48 7.82	123 24.82	4.2	48.2	3.1	2.8
YB3	11	6				48 7.85	123 24.79	3.8	33.9	2.2	3.2
YB3	11	41				48 7.89	123 24.74	4.6	40.0	3.0	3.5
YB3	12	8				48 7.93	123 24.70	5.3	40.8	3.5	4.0
* YB4	13	34				48 8.00	123 24.62				
YB4	14	23				48 8.02	123 24.58	2.1	53.3	1.7	1.3
YB4	15	2				48 8.03	123 24.61	1.8	296.5	-1.6	.8
YB4	15	33				48 8.05	123 24.65	3.3	306.8	-2.7	2.0
YB4	16	8				48 8.05	123 24.70	3.0	278.5	-3.0	.4
YB4	16	43				48 8.07	123 24.73	2.2	306.8	-1.8	1.3
YB4	17	21				48 8.12	123 24.78	4.7	320.7	-3.0	3.7
YB4	18	0				48 8.18	123 24.79	5.1	.1	.0	5.2
YB4	18	42				48 8.24	123 24.81	4.2	343.1	-1.2	4.0

Plate 6g3.

DATE - 29 APRIL 1978

DROGUE NO.	TIME (PST) HOUR	MIN	SEC	RANGE (M)	RANGE (M)	LATITUDE	LONGITUDE	SPEED (CM/SEC)	DIRECTION (DEG TRUE)	COMPONENTS (CM/SEC) LONGSHORE	OFFSHORE
* B11	7	5				48 7.93	123 25.37				
B11	7	25				48 7.93	123 25.34	3.0	120.9	2.6	-1.5
B11	7	39				48 7.94	123 25.31	5.5	53.3	4.4	3.3
B11	8	6				48 7.95	123 25.28	2.6	63.6	2.3	1.1
B11	8	59				48 7.96	123 25.25	1.3	63.6	1.2	.6
B11	9	27				48 7.96	123 25.23	1.6	69.5	1.5	.6
B11	10	1				48 7.97	123 25.22	.5	33.9	.3	.4
B11	10	34				48 7.97	123 25.23	.3	270.0	-.3	.0
B11	11	3				48 7.97	123 25.23	.5	.1	.0	.5
B11	11	34				48 7.98	123 25.22	.6	33.9	.3	.5
B11	12	3				48 7.97	123 25.22	.6	146.2	.4	-.5
B11	13	29				48 7.93	123 25.20	1.7	163.5	.5	-1.6
B11	14	17				48 7.86	123 25.32	6.9	229.0	-5.2	-4.5
B11	14	57				48 7.91	123 25.41	6.0	309.7	-4.7	3.7
B11	15	27				48 7.87	123 25.28	9.7	111.9	9.0	-3.6
B11	16	1				48 7.96	123 25.40	10.3	314.9	-7.3	7.3
B11	16	36				48 7.98	123 25.39	2.3	15.1	.6	2.2
B11	17	12				48 7.99	123 25.41	1.5	326.2	-.9	1.3
B11	17	55				48 7.96	123 25.43	2.5	209.2	-1.2	-2.2
B11	18	29				48 7.95	123 25.45	1.6	213.9	-.9	-1.4
G10	7	7				48 7.94	123 25.34				
G10	7	26				48 7.95	123 25.27	7.7	83.9	7.6	.8
G10	7	40				48 7.96	123 25.24	6.1	57.4	5.2	3.3
G10	8	8				48 7.97	123 25.18	4.2	74.8	4.1	1.1
G10	9	0				48 7.96	123 25.08	3.9	103.3	3.8	-.9
G10	9	29				48 7.94	123 25.04	4.2	120.9	3.6	-2.1
G10	10	3				48 7.96	123 24.99	3.6	50.4	2.7	2.3
G10	10	36				48 7.88	123 24.98	8.0	175.6	.6	-8.0
G10	11	5				48 7.87	123 24.98	1.1	180.1	-.0	-1.1
G10	11	39				48 7.87	123 25.00	1.6	253.4	-1.5	-.4
G10	12	7				48 7.87	123 25.04	2.8	293.1	-2.6	1.1

G11	13	32	48	7.81	123	25.05				
G11	14	19	48	7.80	123	25.00	2.2	98.5	2.2	-.3
G11	14	59	48	7.81	123	25.08	4.2	275.3	-4.1	.4
G11	15	29	48	7.80	123	25.09	.9	233.3	-.7	-.5
G11	16	3	48	7.81	123	25.09	.5	326.2	-.3	.4
G11	16	38	48	7.84	123	25.15	4.5	313.6	-3.3	3.1
G11	17	56	48	7.84	123	25.33	4.8	270.0	-4.8	.0
G11	18	35	48	7.88	123	25.32	3.2	9.6	.5	3.2