

I.O.S.

**DAILY PLOTS OF CURRENT VECTORS
OBTAINED DURING JASIN 1978**

COLLATED BY

**D S COLLINS
AND
R T POLLARD**

**REPORT NO 29
1982**



INSTITUTE OF OCEANOGRAPHIC SCIENCES

**Wormley, Godalming,
Surrey, GU8 5UB.
(0428 - 79 - 4141)**

(Director: Dr. A.S. Laughton FRS)

**Bidston Observatory,
Birkenhead,
Merseyside, L43 7RA.
(051 - 653 - 8633)**

(Assistant Director: Dr. D.E. Cartwright)

**Crossway,
Taunton,
Somerset, TA1 2DW.
(0823 - 86211)**

(Assistant Director: M.J. Tucker)

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DAILY PLOTS OF CURRENT VECTORS
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DATA REPORT No. 29

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Institute of Oceanographic Sciences,
Brook Road, Wormley, Godalming,
Surrey, U.K. GU8 5UB

ABSTRACT

This data report is a collection of JASIN current meter records for the period mid-July to mid-September 1978. It is limited to those current meters close to 20m, 200m, 500m, 1000m and 1500m. Data are hourly averaged and smoothed using a 24-hour filter. Daily plots of the resulting vectors are displayed and wind vectors are included for reference. Additionally, temperature, recorded by most current meters, is presented after hourly-averaging and smoothing.

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METHOD OF DATA COLLECTION AND CALIBRATION

General

In this report, all moorings are identified by their JASIN reference number, normally a letter followed by a number. Details of these moorings are given in the Royal Society documents "Air-Sea Interaction Project; Operational Plans for 1978" and "Air-Sea Interaction Project; Summary of the 1978 Field Experiment". For convenience some of this information is reproduced in the section "Current Meter Information" and below.

Current Meters: 200m to 1500m

With the exception of mooring W1, all of these instruments are Aanderaa recording current meters (W1 (1000m) is an AMF Vector Averaging Current Meter). Aanderaa meters recorded data internally on magnetic tape at sampling intervals between 10 minutes and 1 hour during JASIN. The current speed is an integrated value over the sampling period while the current direction is a spot value. In this report, directions have been converted to true North. Nominal accuracies for an Aanderaa are:

±2 secs/day (clock)

±1 cm/sec or ±2% (speed) whichever is greater with a minimum cut-off of 1.5cm/sec.

±7.5° (direction) for speeds of 5cm/sec or less

±5.0° (direction) for speeds greater than 5cm/sec.

In this document, values are hourly averaged and filtered to remove variations of period less than 24 hours. The low-pass filter used is described by Zenk (1980). It is a symmetrical cosine taper (Tukey) filter with 47 weights (i.e. covering 46 hours). The half power frequency is $1/24 \text{ hour}^{-1}$. There is a loss of 23 hours of data at the start and at the end of the data series as a result of such filtering.

No attempt has been made to inter-compare current meters. All velocities have been calibrated independently by the data contributors.

All moorings are sub-surface. Data from moorings I1 to I5 and I3A, I4A have been processed under the guidance of W.J. Gould,

D2 by H. Dooley, E3, E4 by D.J. Ellett, K1 by R. Kase, and W1 by M. Briscoe (see table 1). Where data has been of dubious quality, it has been excluded. There are some resulting gaps in some of the time series presented.

Current Meters: 20m

Moorings H2, K2, W2 and W3 are surface moorings mainly with AMF Vector Averaging Current Meters. SPAR P2 is a drifting buoy, designed to follow the average water flow in the top 10 meters. The vectors displayed from this SPAR buoy represent the absolute velocities deduced by combining the current meter data with the velocity of the SPAR calculated by navigational fixes from the tending ship RRS Discovery. Also included are some float data, floats being drogued to depths of approximately 20m. These records are generally short, sometimes less than 24 hours and therefore have been averaged to a single approximately one-day mean velocity i.e. not by the usual filtering process. Float velocities are estimated by navigational fixes from a ship, typically approximately every 2 hours. Moorings W2, W3 have been processed under the guidance of M. Briscoe, H2 by D. Halpern, K2 by R. Kase, and SPAR P2 by R.T. Pollard. Float data is mainly from P.M. Saunders.

Wind Vectors

Wind data have been collated by T.H. Guymer. It should be noted that for consistency with current vectors, the plotted arrow indicates the direction to which the wind is blowing, vectors rotating about the arrow tail i.e. the point furthest from the arrowhead. Wind data are from mooring W2 (M. Briscoe) and from ships Hecla, Endurer, John Murray and Meteor. Ship winds have only been included when the ship was stationary at the time of measurement and all values are as at the height of measurement. No corrections have been made. As there are many data gaps in these series, the vectors have not been filtered (in contrast to the current data.) Wind vectors represent the hourly-averaged wind at midday. As such this provides an indication of the wind velocities as an aid to interpreting current variations. Corrected

wind data should be used for detailed analysis.

General Description of the Vector Plots

The plots are arranged six to a page where each plot shows wind vectors or current vectors at a particular depth, each being an hourly mean at midday, filtered or averaged as previously described. These values are also listed at the end of this report. A value of -999. indicates an absence of data. Unreliable data is also represented by -999.

The number in the bottom right-hand corner of each plot (e.g. 200.5) indicates the day number for 1978. For example, 200.5 is midday on day 200. A conversion table from day number to day/month follows (Table 2).

In the bottom left-hand corner of each plot is the approximate depth at which currents were measured. Details of instrument positions, depths and durations are given in Tables 4 to 8. Bottom contours appearing on plots 200m to 1500m are the contours for the appropriate depth. Current meter locations will be on the side of the contour which is the deeper. It therefore becomes obvious which areas are deep and which shallow. The continental shelf is to the bottom right of the plots, Rockall Bank is to the bottom left and the Wyville-Thompson Ridge is to the top right. (See Table 9 and the plot of bathymetric features).

Each vector may rotate about its tail i.e. the point furthest from the arrow head. The point of measurement is the point of the arrow tail. Arrows are scaled to represent the magnitude of the vector, scales for winds and currents appearing at the top of each page.

The second page of plots indicates the positions of the fixed moorings and typical positions of the ships providing wind data.

The duration of the plotted time series for each current meter will be slightly shorter than the duration of the raw data series because of the filtering process.

General Description of the Temperature Plots

Where temperature data are readily available for current meters, plots and data lists have been included. Temperature is only presented for the current meters from 200m to 1500m. Moorings D2 and W1 are not included.

Temperatures have been calibrated by the data contributors and no attempt has been made to validate or to inter-compare values. Temperatures are hourly-averaged and filtered to remove periods of less than 24 hours (see previous discussion). One plot is included per mooring, different depths being represented by plotted symbols. In the data lists, a value of -999. indicates an absence of measured data.

Note:

The 200m temperature for mooring E3 has been included although this contains some "bad" data. The value of 9.16 is the lowest temperature which could be recorded for this current meter. The data lists show a value of 9.16 for days 198 to 234 which is indicative of lower temperatures. This off-scale behaviour is obvious in the E3 plot.

ACKNOWLEDGEMENTS

This data report has only been possible with the help and co-operation of all those involved in the collection and processing of the data. Especial thanks to the scientists who have sent copies of their data for this publication.

REFERENCES

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- ZENK, W. 1980 A proposal for a low-pass filter for JASIN time series. JASIN NEWS, No. 15, Jan. 1980.

CONTRIBUTORS TO THE DATA REPORT

Contributor	Address
M.G. Briscoe	Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, U.S.A.
H.D. Dooley	Department of Agriculture and Fisheries for Scotland, Marine Laboratory, Torry, Aberdeen, UK
D.J. Ellett	Scottish Marine Biological Association, Dunstaffnage, Oban, UK
D. Halpern	Pacific Marine Environmental Laboratory, University of Washington, Seattle, Washington, USA
R. Käse	Institute für Meereskunde an der Universität, Kiel, F.R. Germany
W.J. Gould	Institute of Oceanographic Sciences, Wormley, Godalming, Surrey, UK
T.H. Guymer	" " "
R.T. Pollard	" " "
P.M. Saunders	" " "

TABLE 1

Date and Day Number, 1978

<u>Date</u>	<u>Day</u>	<u>Date</u>	<u>Day</u>	<u>Date</u>	<u>Day</u>
July 14	195	Aug. 1	213	Sept. 1	244
15	196	2	214	2	245
16	197	3	215	3	246
17	198	4	216	4	247
18	199	5	217	5	248
19	200	6	218	6	249
20	201	7	219	7	250
21	202	8	220	8	251
22	203	9	221	9	252
23	204	10	222	10	253
24	205	11	223	11	254
25	206	12	224	12	255
26	207	13	225	13	256
28	209	14	226	14	257
29	210	15	227	15	258
30	211	16	228	16	259
31	212	17	229	17	260
		18	230	18	261
		19	231		
		20	232		
		21	233		
		22	234		
		23	235		
		24	236		
		25	237		
		26	238		
		27	239		
		28	240		
		29	241		
		30	242		
		31	243		

TABLE 2

WIND RECORD INFORMATION : WIND PLOTS

SHIP/MOORING	LATITUDE (degrees)	LONGITUDE (degrees)	DURATION (days 1978)	COMMENTS
HECLA	60.250	-10.500	196-247	WITH GAPS IN RECORDING
ENDURER	60.250	-14.533	205-247	" " " "
JOHN MURRAY	VARIABLE	VARIABLE	197-240	" " " "
METEOR	59.000	-12.500	200-247	" " " "
W2	59.025	-12.550	212-249	

12

Note: Latitude and Longitude are in decimal degrees to assist in locating positions on the daily plots. For latitude and longitude in degrees and minutes, see the Royal Society reports.

TABLE 3

CURRENT METER AND FLOAT INFORMATION : 20m PLOTS

JASIN ref	IOS ref	LATITUDE (degrees)	LONGITUDE (degrees)	DEPTH (m)	DURATION (days 1978)	INSTRUMENT	COMMENTS
DOPY		VARIABLE	VARIABLE	0-20	241-247	FLOATS	WITH DATA GAPS
FLOATS		VARIABLE	VARIABLE	0-25	235-240	FLOATS	
H2		59.415	-12.500	19	198-245	V	
K2		58.983	-12.517	20	237-249	V	
SPAR	P2	VARIABLE	VARIABLE	17-21	211-256	V	
W2		59.025	-12.550	20	212-249	R	
W3		59.018	-12.572	17	212-248	V	

13

KEY: V = AMF VACM

R = RUSS DAVIS vector measuring current meter

TABLE 4

CURRENT METER INFORMATION : 200m PLOTS

JASIN ref	IOS ref	LATITUDE (degrees)	LONGITUDE (degrees)	DEPTH (m)	DURATION (days 1978)	INSTRUMENT	COMMENTS
E3		57.243	-10.605	159	198-260	A	
I1	250	59.987	-12.152	254	197-245	A	
I2	248	60.195	-9.257	211	196-248	A	
I3	255	58.500	-12.670	189	200-243	A	
I3A	258	58.930	-13.252	195	246-260	A	
I4	253	58.830	-11.663	198	199-237	A	
I4A	257	58.825	-11.643	211	241-260	A	
I5	256	58.250	-10.337	189	201-235	A	
K1		58.997	-12.510	200	195-248	A	

14

KEY: A = Aanderaa Current Meter

TABLE 5

CURRENT METER INFORMATION : 500m PLOTS

JASIN ref	IOS ref	LATITUDE (degrees)	LONGITUDE (degrees)	DEPTH	DURATION (days 1978)	INSTRUMENT	COMMENTS
D2		59.028	-8.533	535	195-236	A	
E3		57.243	-10.605	560	198-260	A	
E4		57.502	-12.267	500	195-253	A	
I1	250	59.987	-12.152	660	198-231*	A	
I2	248	60.195	-9.257	615	196-248	A	
I3	255	58.500	-12.670	595	200-243	A	
I3A	258	58.930	-13.252	599	246-260	A	
I4	253	58.830	-11.663	607	199-237	A	
I4A	257	58.825	-11.643	616	241-260	A	
I5	256	58.250	-10.337	596	201-235	A	
K1		58.997	-12.510	500	195-248	A	

15

KEY: A = Aanderaa Current Meter

*validity of data series uncertain
after day 232. Some truncation at
start of series

TABLE 6

CURRENT METER INFORMATION : 1000m PLOTS

JASIN ref	IOS ref	LATITUDE (degrees)	LONGITUDE (degrees)	DEPTH (m)	DURATION (days 1978)	INSTRU- MENT	COMMENTS
E3		57.243	-10.605	1060	198-260	A	
E4		57.502	-12.267	1000	195-253	A	
I1	250	59.987	-12.152	1066	197-235	A	Recording failed on on day 238
I2	248	60.195	-9.257	1032	196-248	A	
I3	255	58.500	-12.670	999	200-243	A	
I3A	258	58.930	-13.252	1004	246-260	A	
I4	253	58.830	-11.663	1016	199-238	A	Slightly different data truncation at end of series to other 14m.
I4A	257	58.825	-11.643	1022	241-260	A	
I5	256	58.250	-10.337	1003	201-235	A	Data gap on days 217- 218. Data recording problem
K1		58.997	-12.510	1000	195-248	A	
W1		59.018	-12.533	1000	212-246	V	

16

KEY: A = Aanderaa Current Meter

V = AMF VACM

TABLE 7

CURRENT METER INFORMATION : 1500m PLOTS

JASIN ref	IOS ref	LATITUDE (degrees)	LONGITUDE (degrees)	DEPTH (m)	DURATION (days 1978)	INSTRU- MENT	COMMENTS
E3		57.243	-10.605	1810	198-260	A	
E4		57.502	-12.267	1750	195-253	A	
I3	255	58.500	-12.670	1503	200-225	A	Recording failed on day 226
I3A	258	58.930	-13.252	1510	246-260	A	
I4	253	58.830	-11.663	1522	199-237	A	
I4A	257	58.825	-11.643	1527	241-260	A	
I5	256	58.250	-10.337	1511	201-235	A	

17

KEY: A = Aanderaa Current Meter

TABLE 8

BATHYMETRIC FEATURES OF THE JASIN AREA

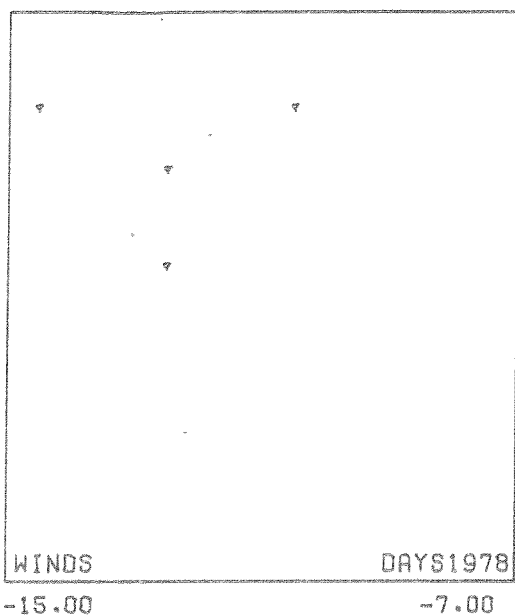
Note: Letter codes relate to the references plot which follows.

Depths are the minimum/maximum of 100m contours
appearing on a bathymetric chart

Letter Code	Feature	Minimum Depth	Maximum Depth
A	Rockall Bank	200m in most parts	
B			1100 m
C	George Bligh Bank	500 m	
D	Hatton Bank	500 m	
E			1200 m
F	Lousy Bank	300 m	
G			1200 m
H	Bill Bailey's Bank	100 m	
I			500 m
J	Faroe Bank	100 m	
K	Wyville Thompson Bank	400 m	
L	Continental Shelf		200 m
M			2100 m
N	Anton Dohrn Seamount	600 m	
O			2000 m
P	Rockall Trough		2000 m approx.
Q	Rosemary Bank	500 m	
R		1000 m	

TABLE 9

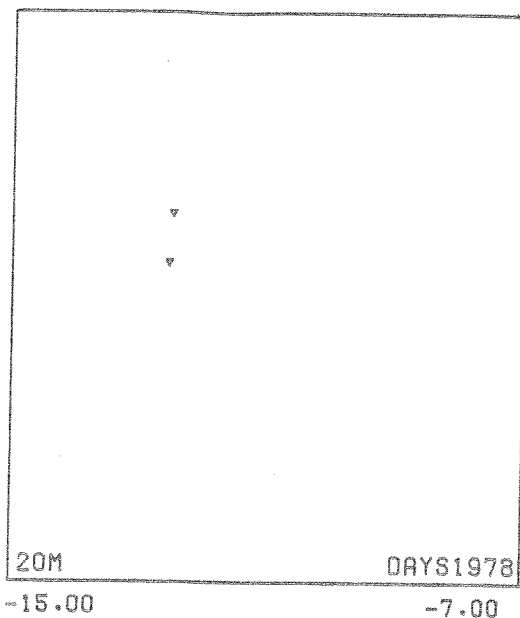
10 M/S (CURRENTS)



LATITUDE

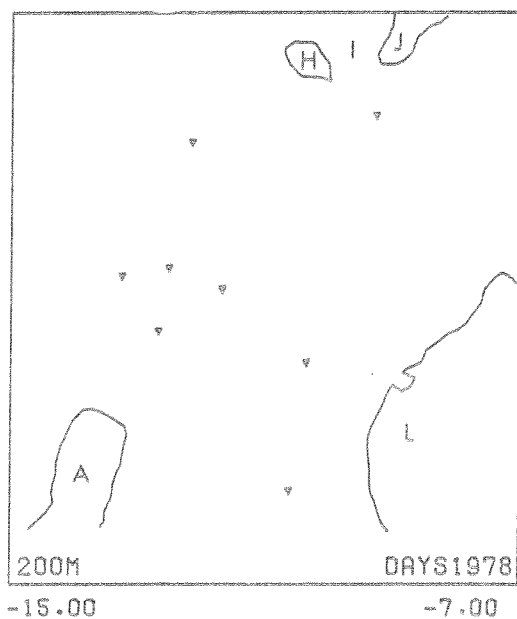
20 CM/S (CURRENTS)

61.00



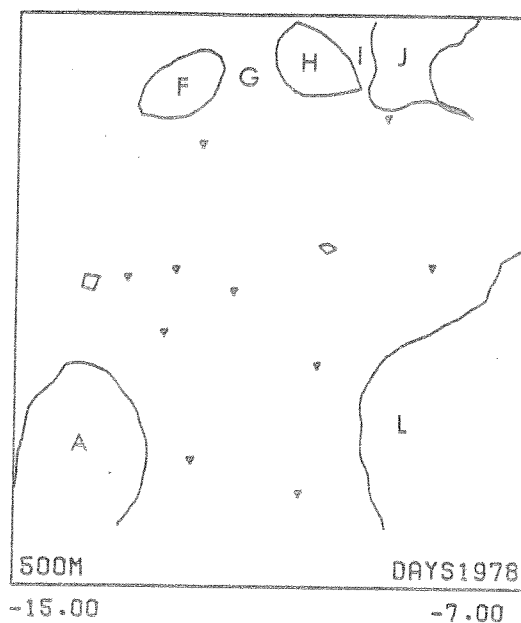
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61.00



-15.00

-7.00

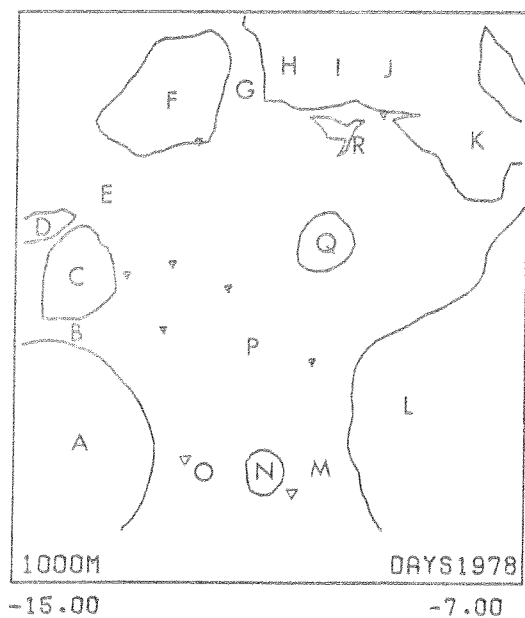


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-15.00

-7.00

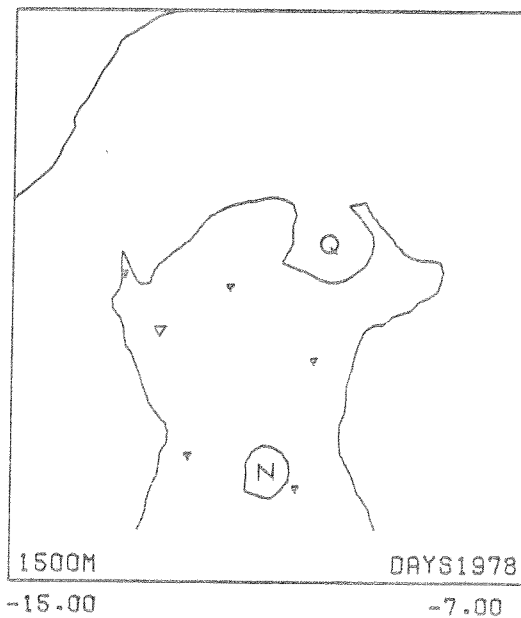
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-15.00

-7.00

LONGITUDE



56.50

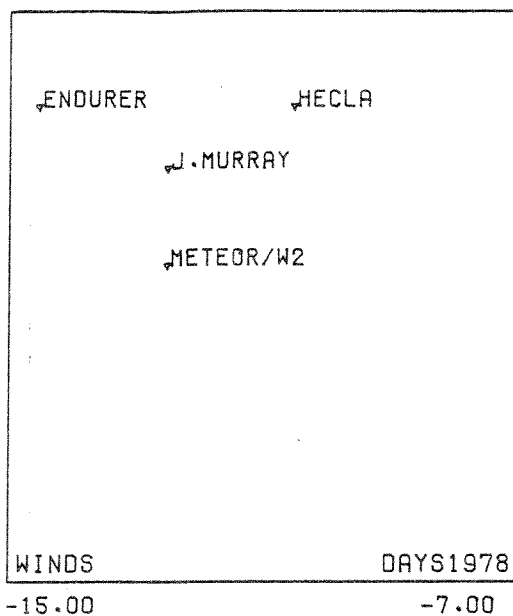
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-7.00

LONGITUDE

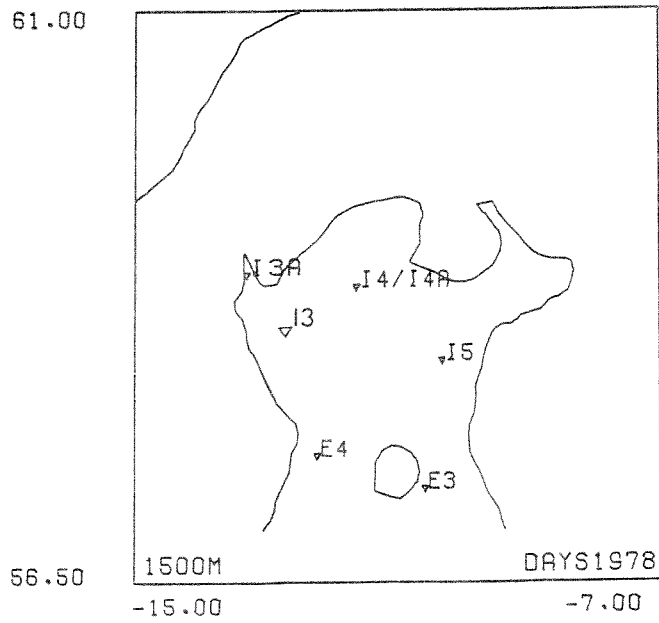
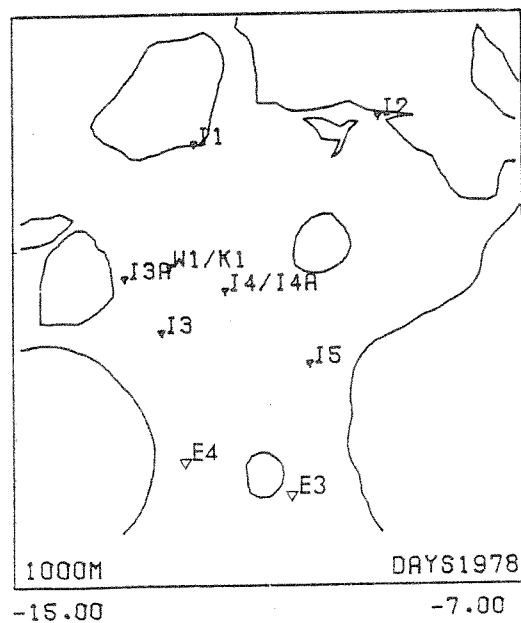
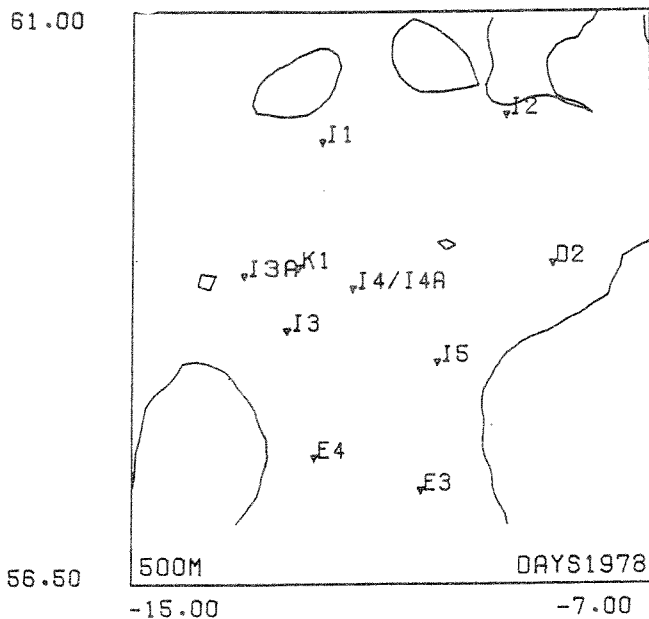
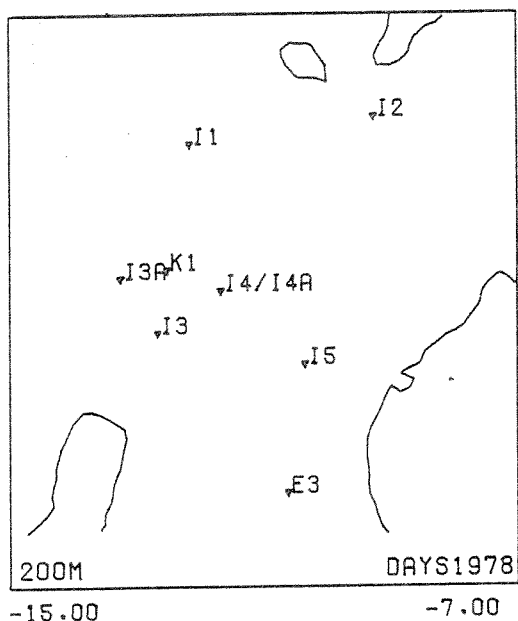
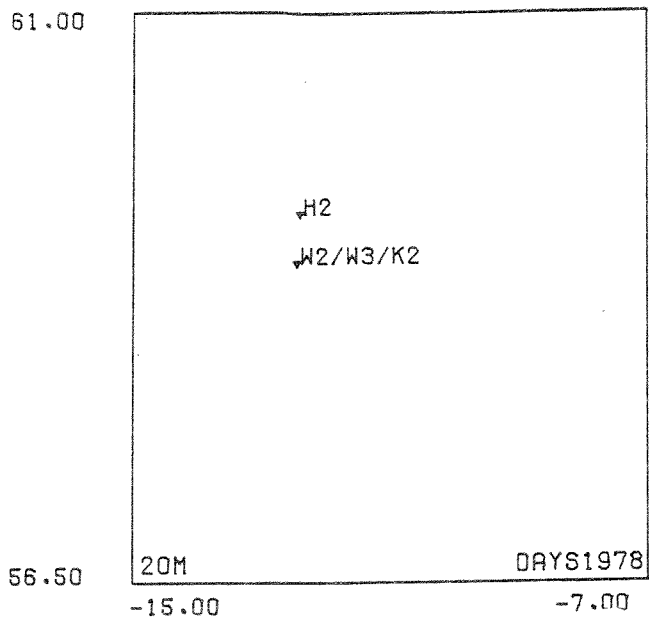
PLOT OF BATHYMETRIC FEATURES

10 M/S (CURRENTS)



LATITUDE

20 CM/S (CURRENTS)

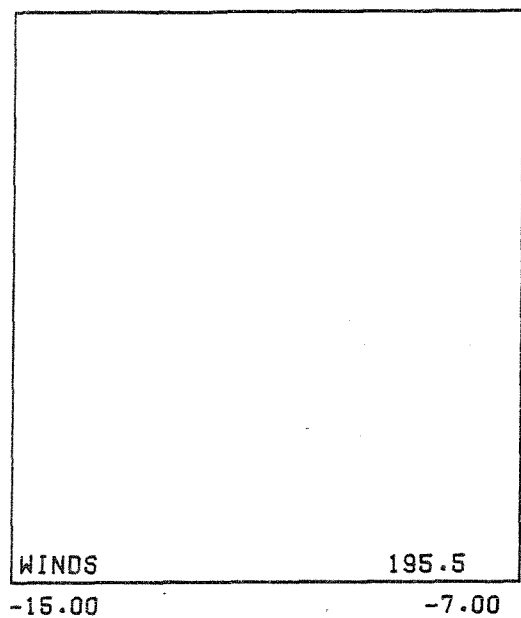


LONGITUDE

LONGITUDE

PLOT OF MOORING POSITIONS

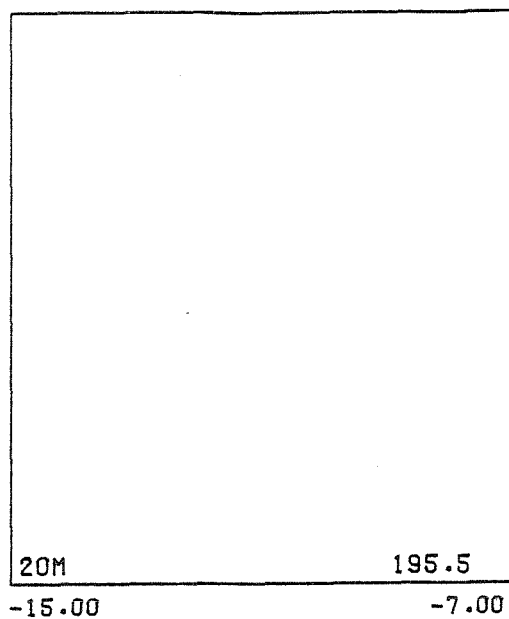
10 M/S (WINDS)



LATITUDE

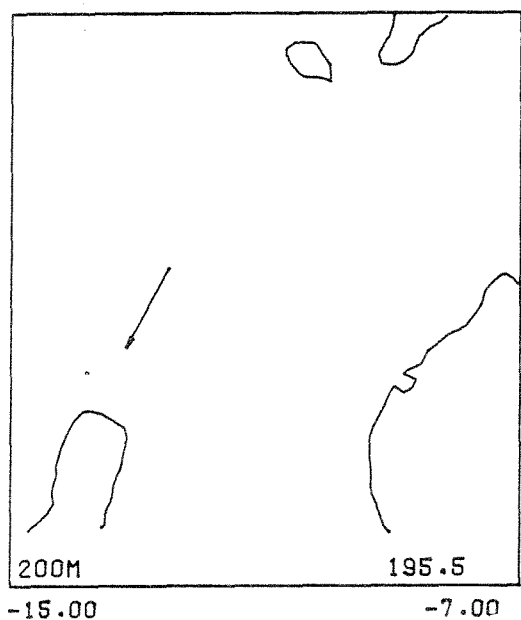
20 CM/S (CURRENTS)

61.00



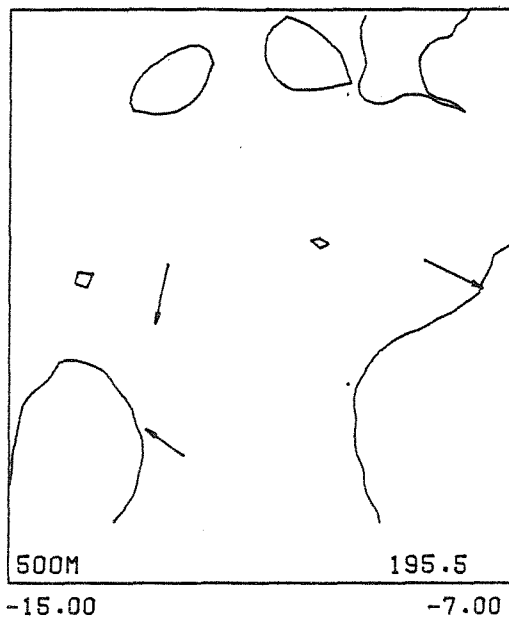
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61.00

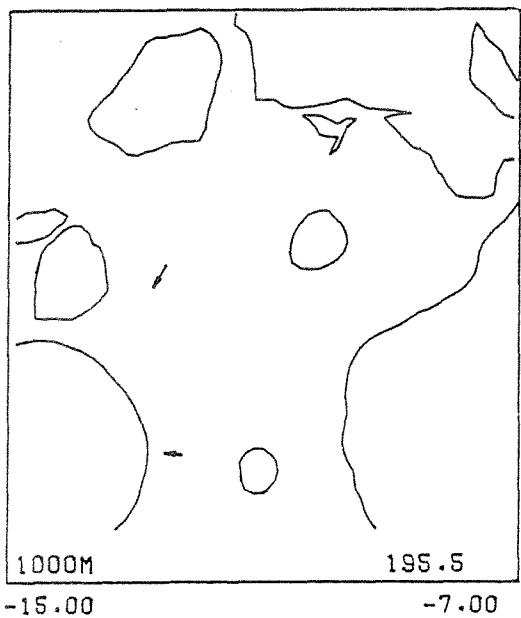


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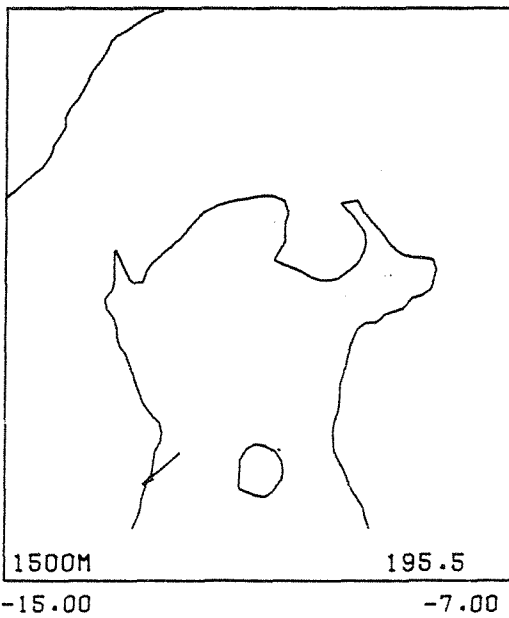
61.00



61.00

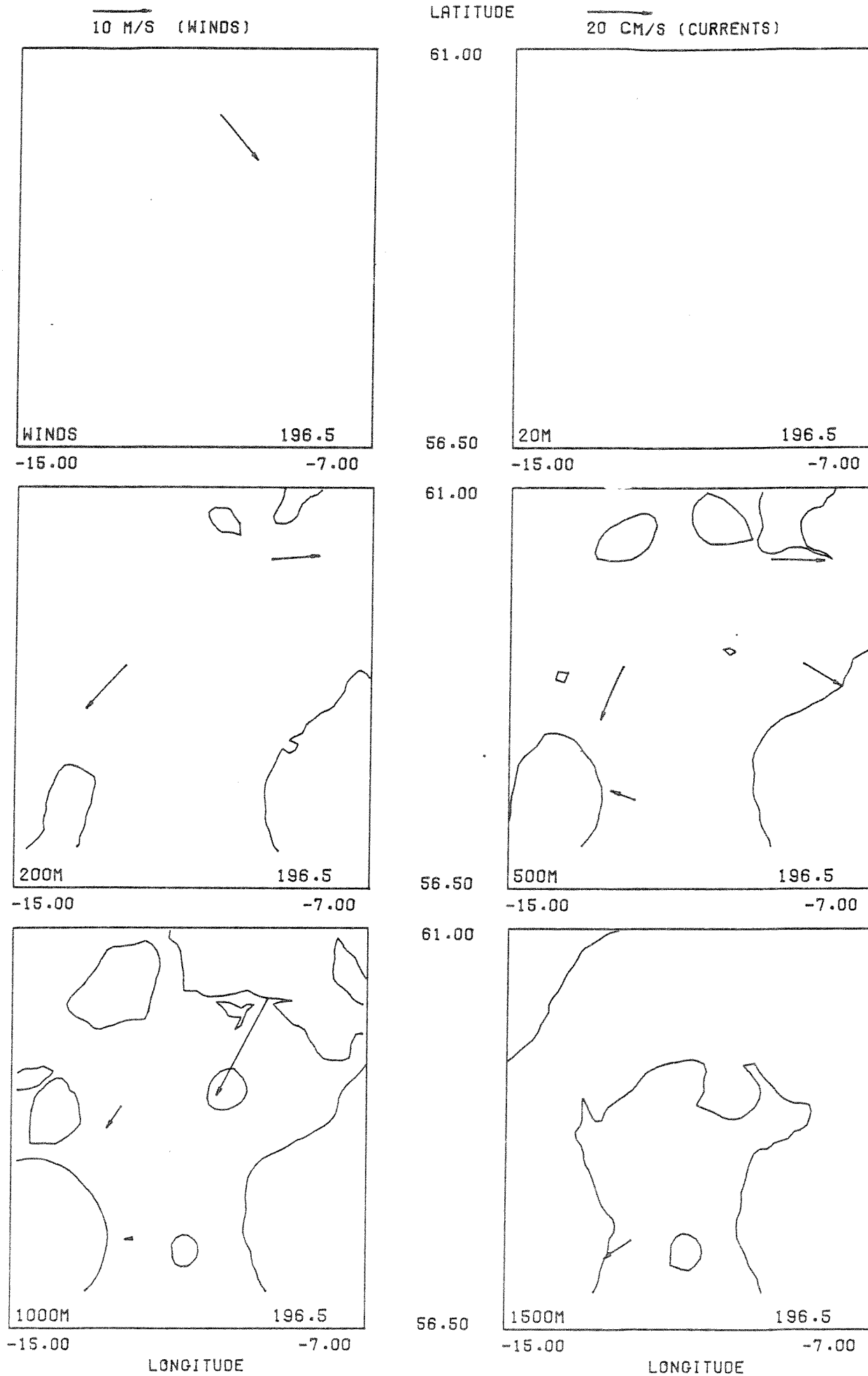


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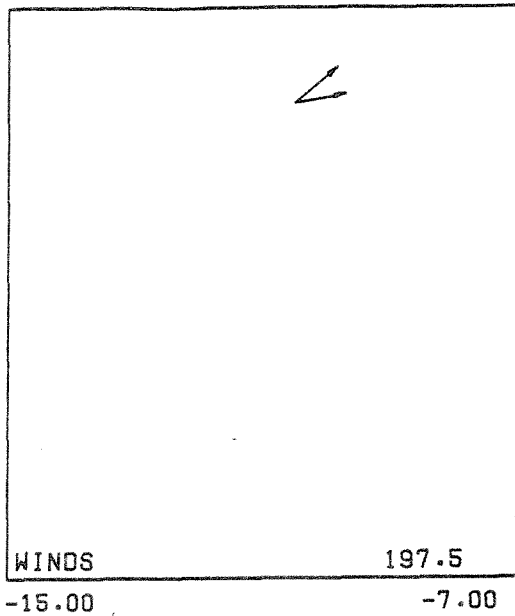


LONGITUDE

DAY 195



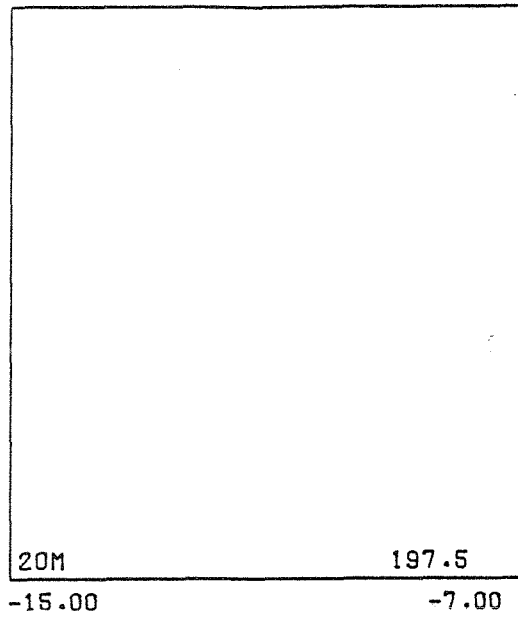
10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00



56.50

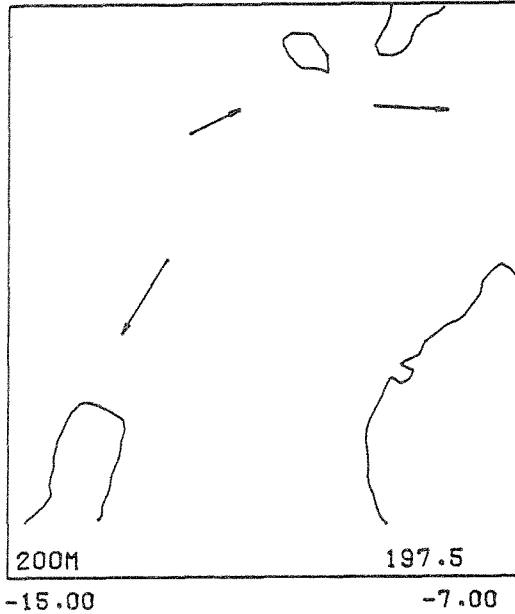
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197.5

-15.00

-7.00

61.00



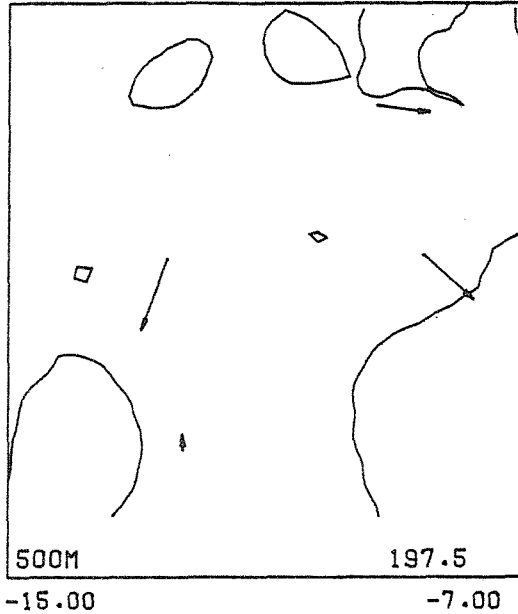
200M

197.5

-15.00

-7.00

56.50



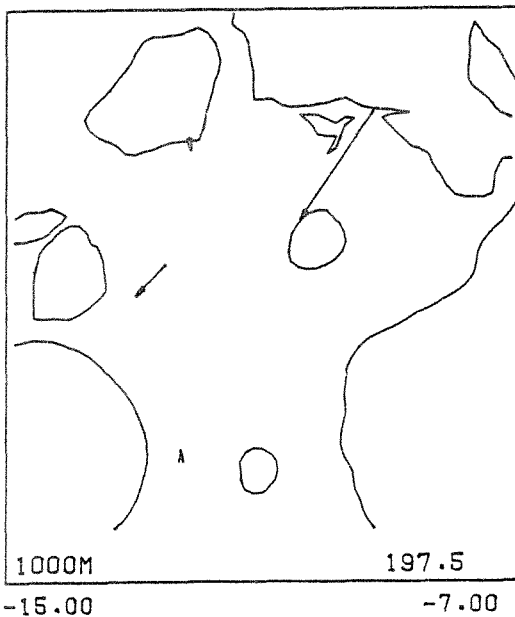
500M

197.5

-15.00

-7.00

61.00



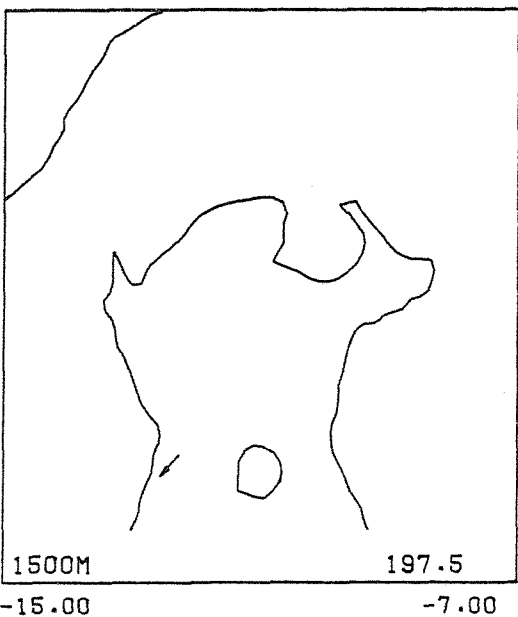
1000M

197.5

-15.00

-7.00

56.50



1500M

197.5

-15.00

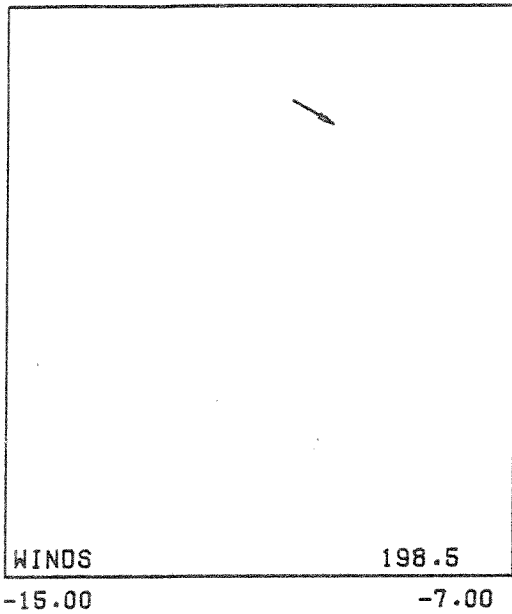
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LONGITUDE

LONGITUDE

DAY 197

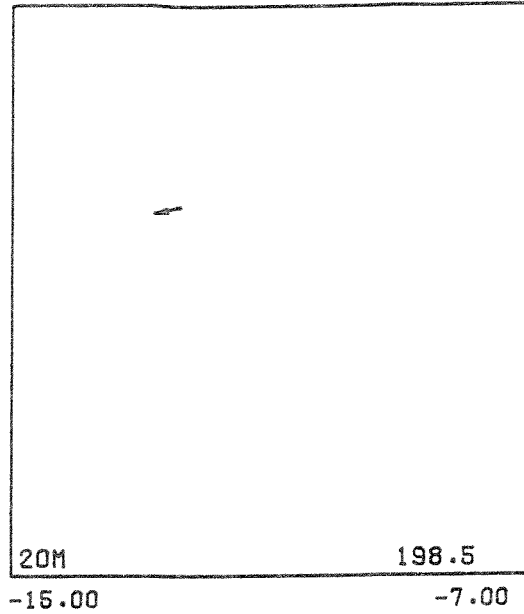
10 M/S (WINDS)



LATITUDE

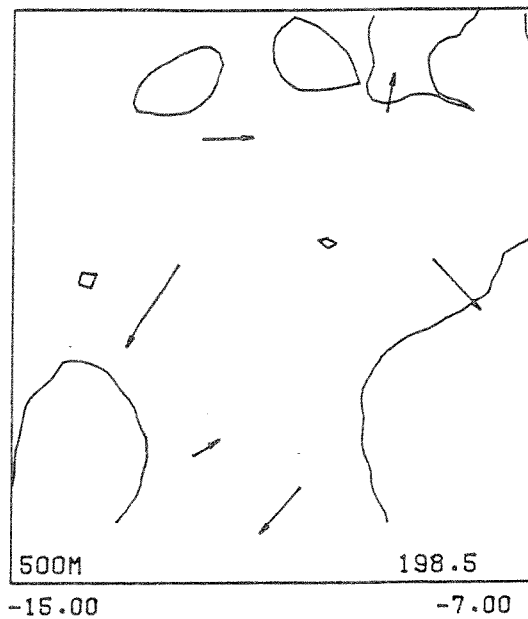
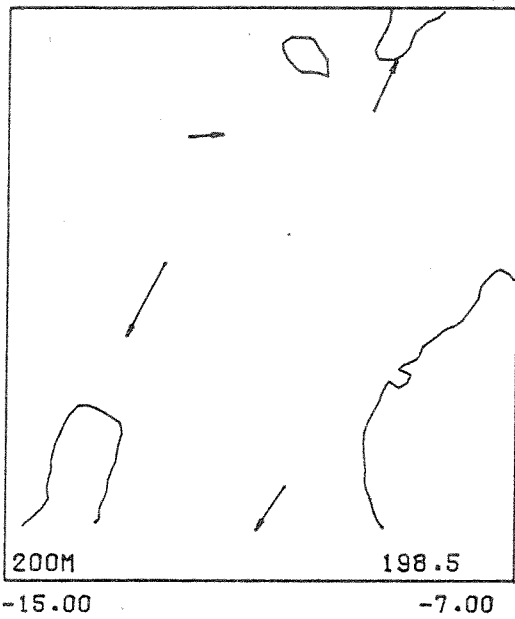
20 CM/S (CURRENTS)

61.00



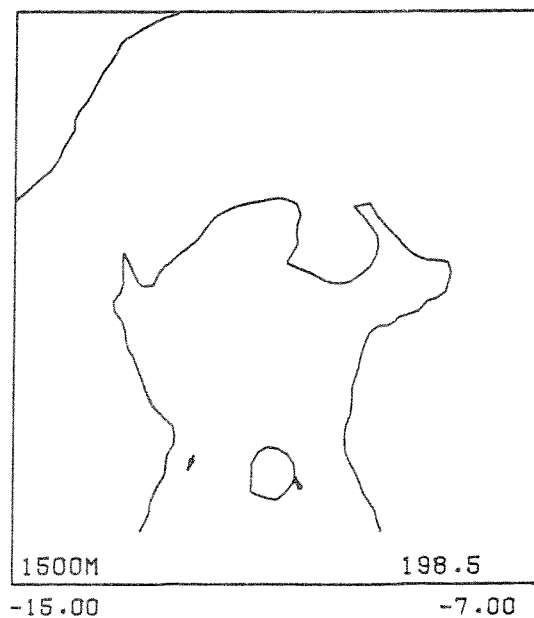
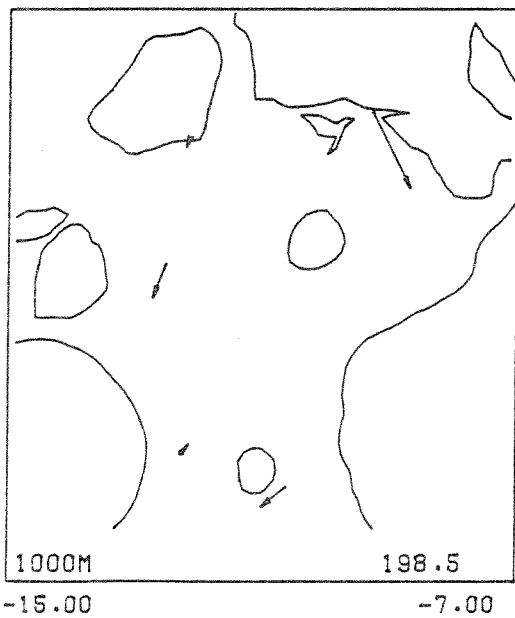
56.50

61.00



56.50

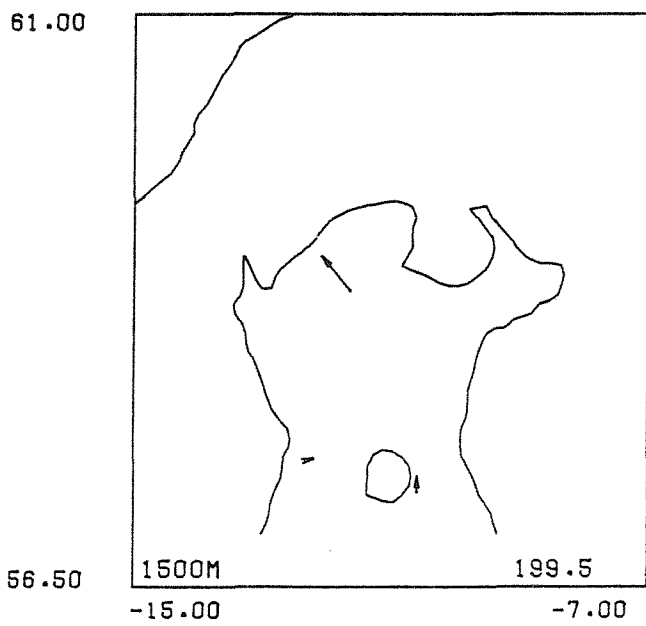
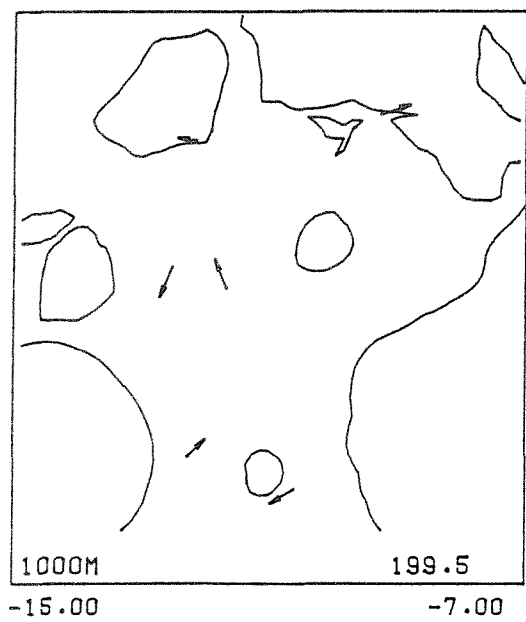
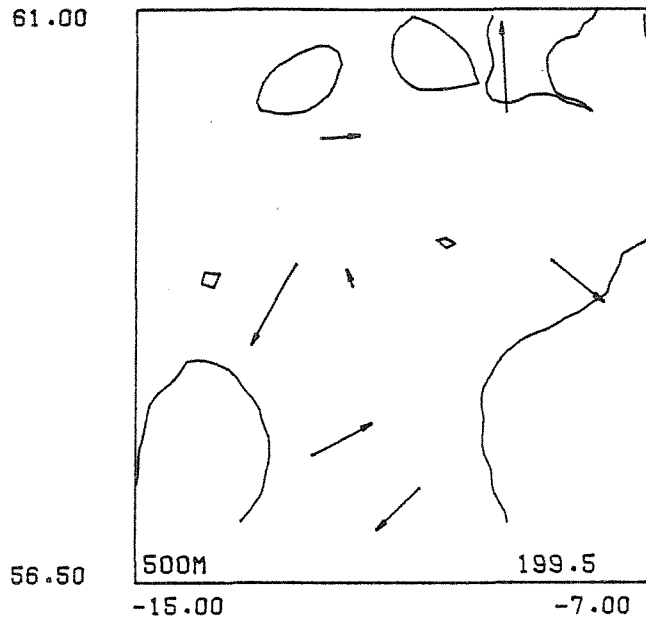
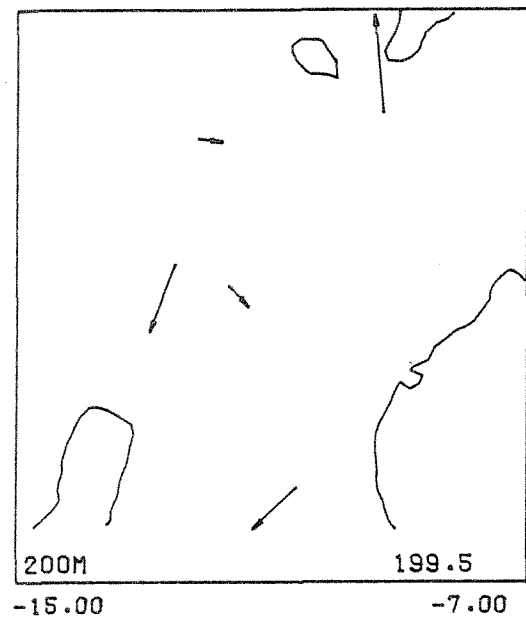
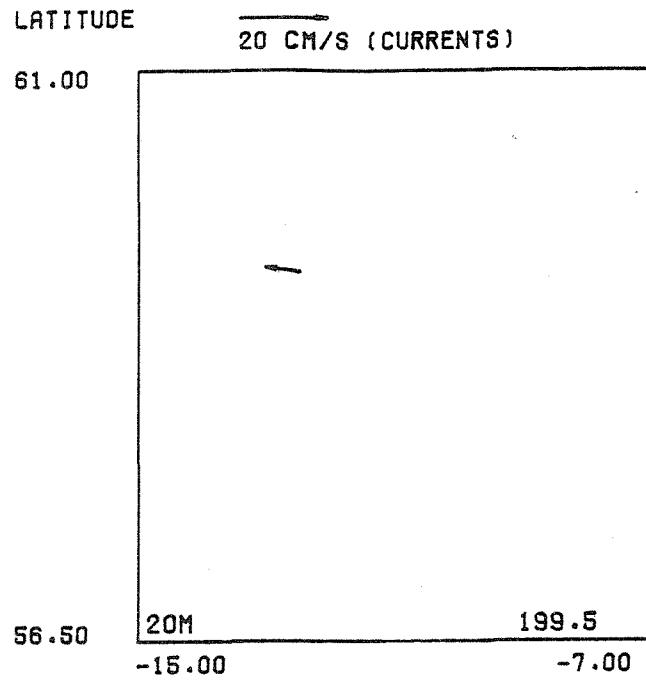
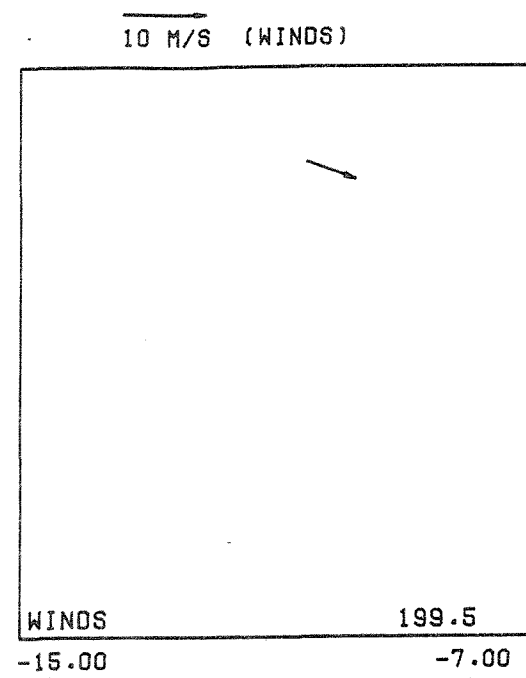
61.00



56.50

LONGITUDE

LONGITUDE



LONGITUDE

LONGITUDE

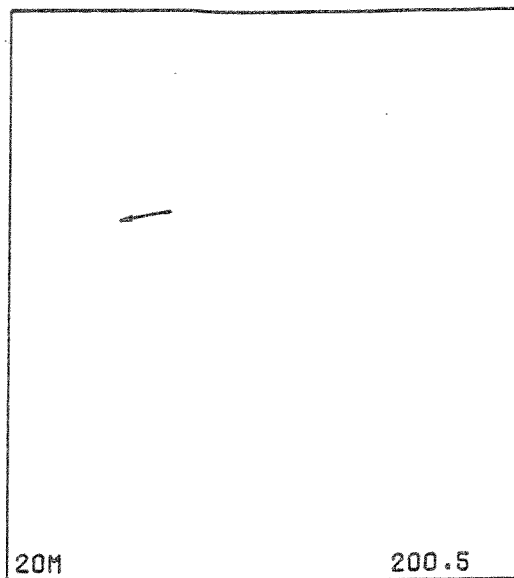
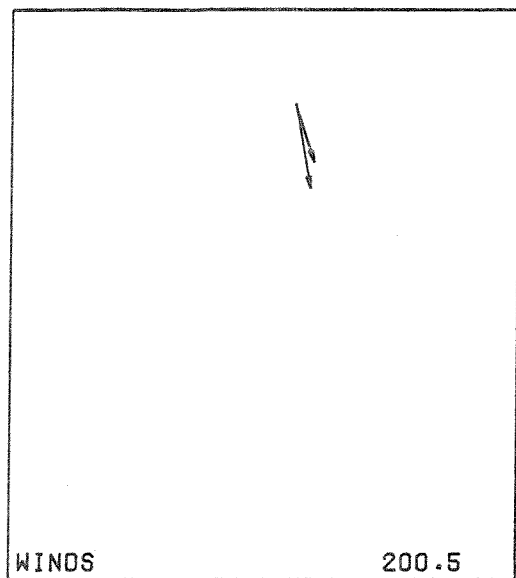
DAY 199

10 M/S (WINDS)

LATITUDE

20 CM/S (CURRENTS)

61.00



56.50

20M

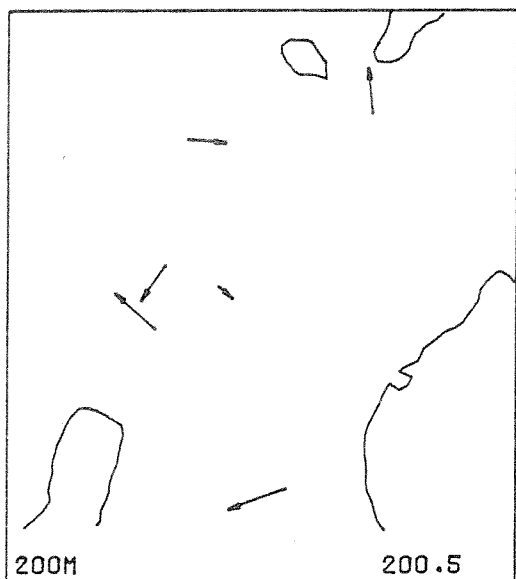
200.5

-15.00

-7.00

-15.00

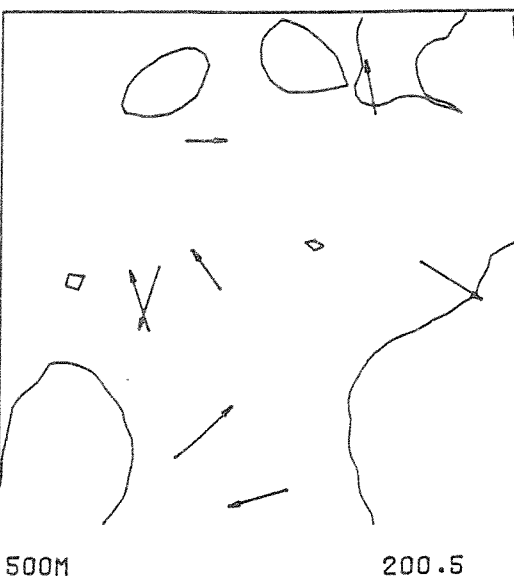
-7.00



-15.00

-7.00

61.00



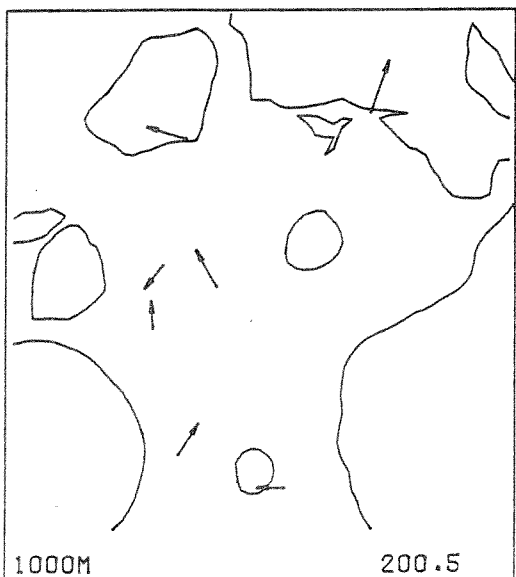
56.50

500M

200.5

-15.00

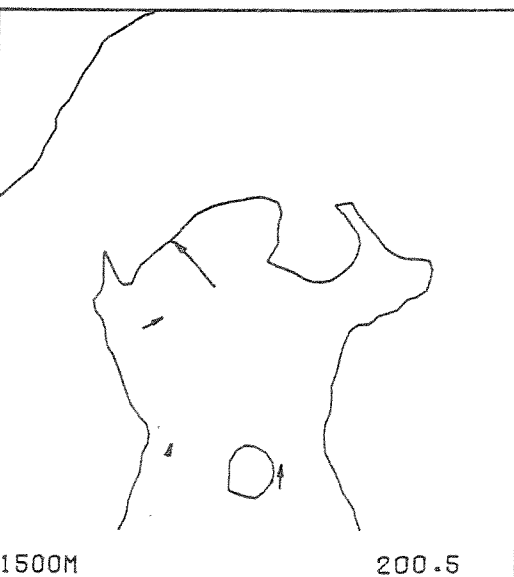
-7.00



-15.00

-7.00

61.00



56.50

1500M

200.5

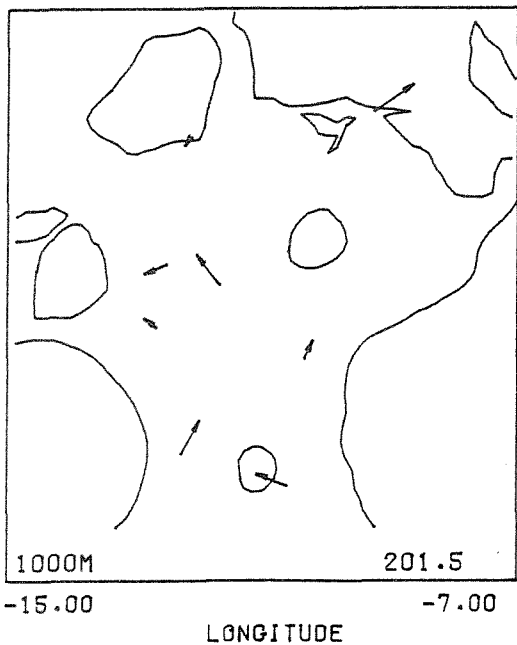
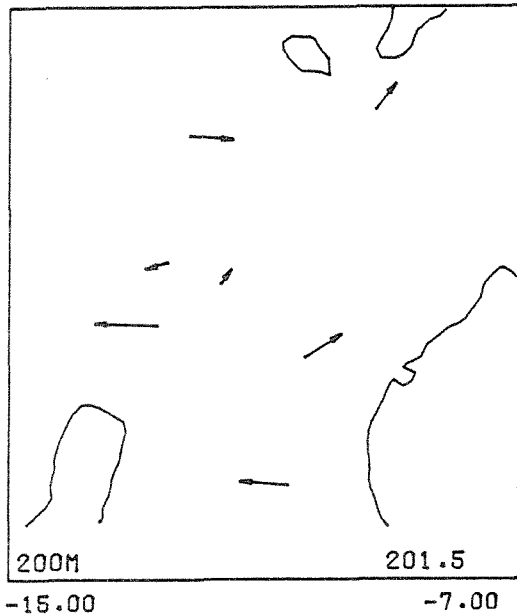
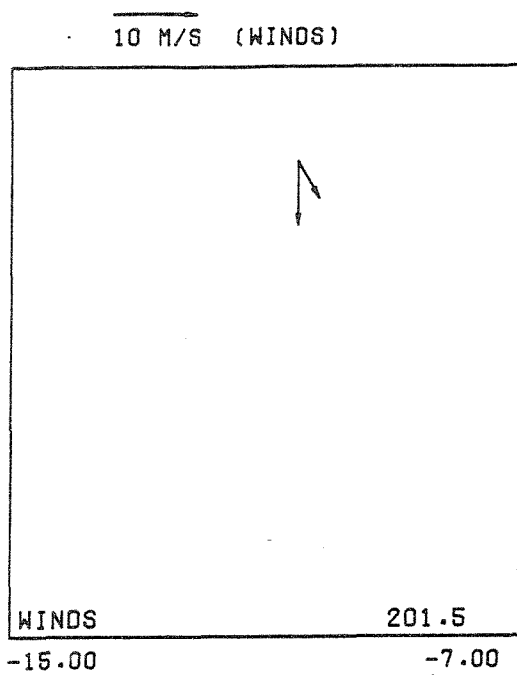
-15.00

-7.00

LONGITUDE

LONGITUDE

DAY 200



LATITUDE

61.00

56.50

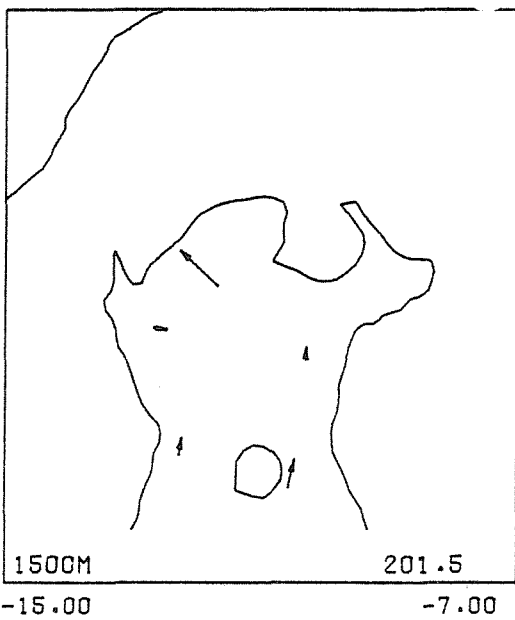
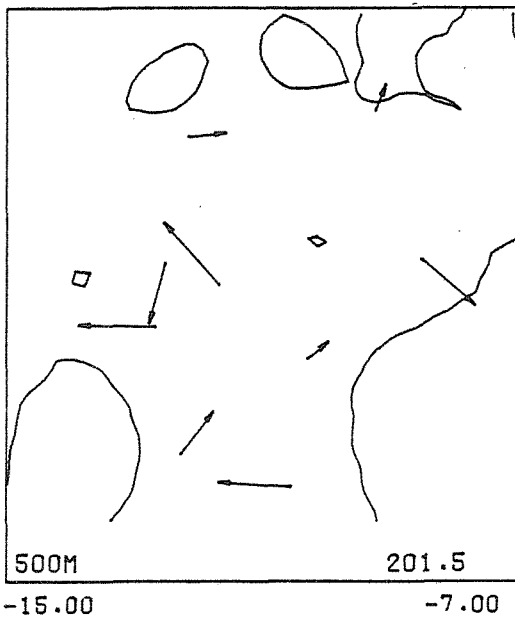
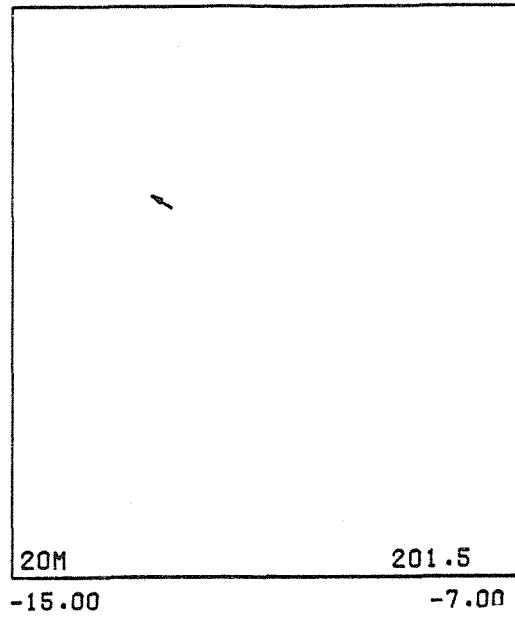
61.00

56.50

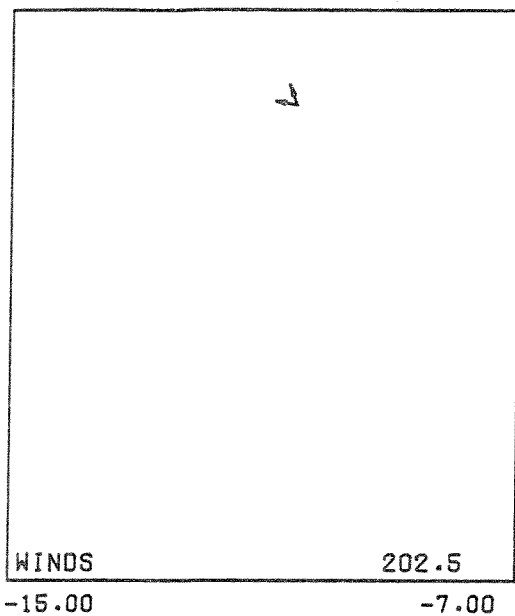
61.00

56.50

20 CM/S (CURRENTS)



10 M/S (WINDS)



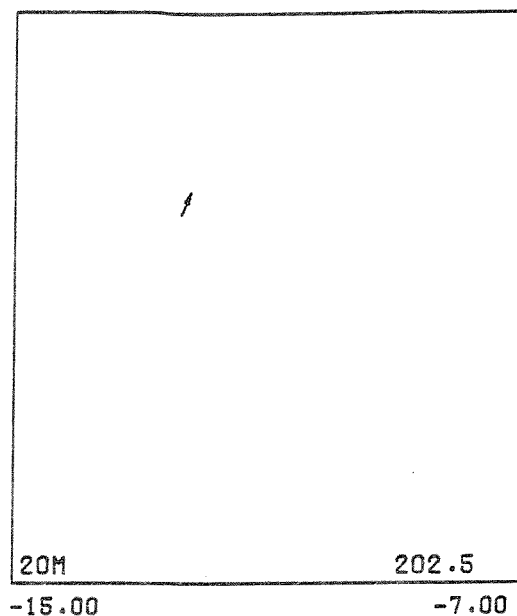
LATITUDE

20 CM/S (CURRENTS)

61.00

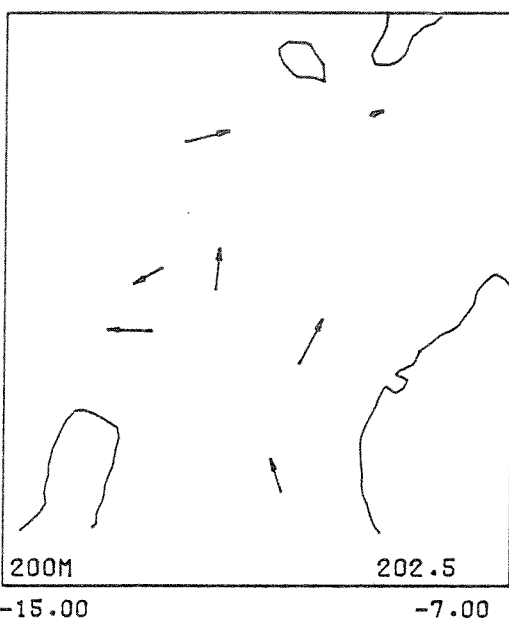
56.50

61.00



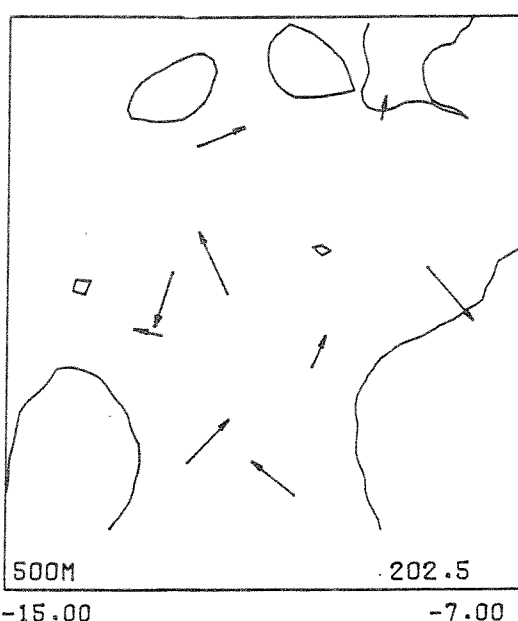
-15.00

-7.00



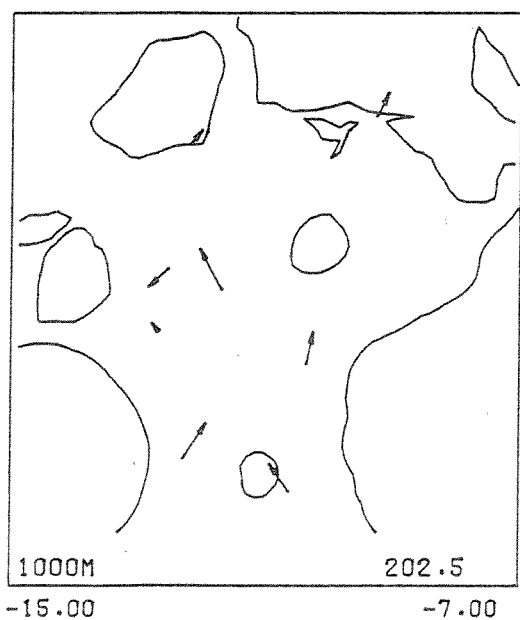
-15.00

-7.00



-15.00

-7.00

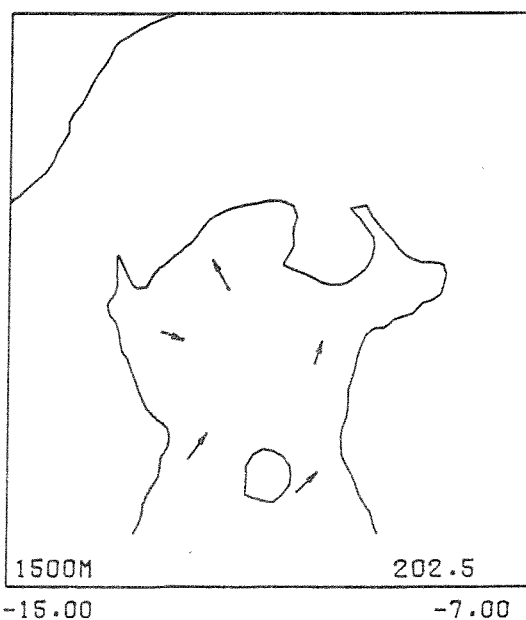


-15.00

-7.00

61.00

56.50



-15.00

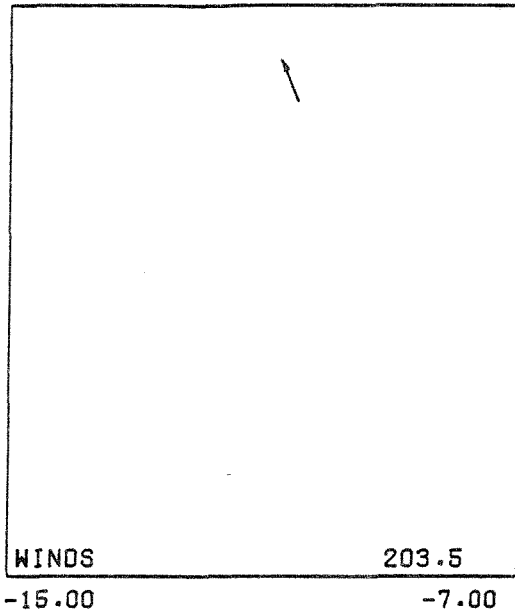
-7.00

LONGITUDE

LONGITUDE

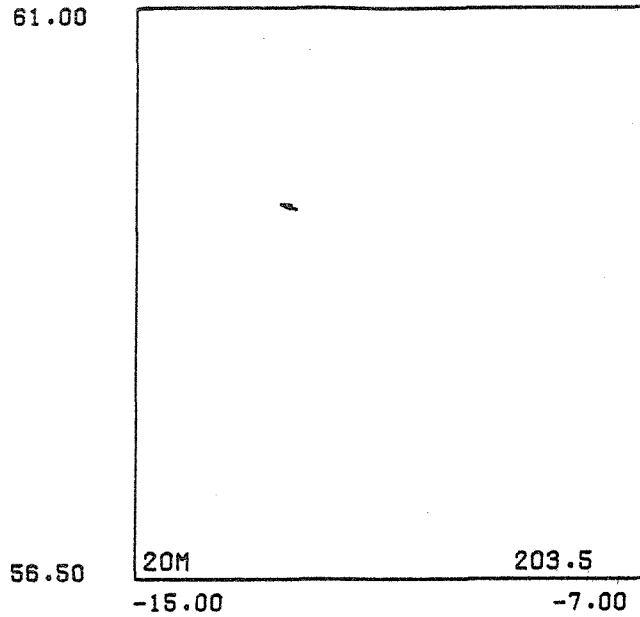
DAY 202

10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

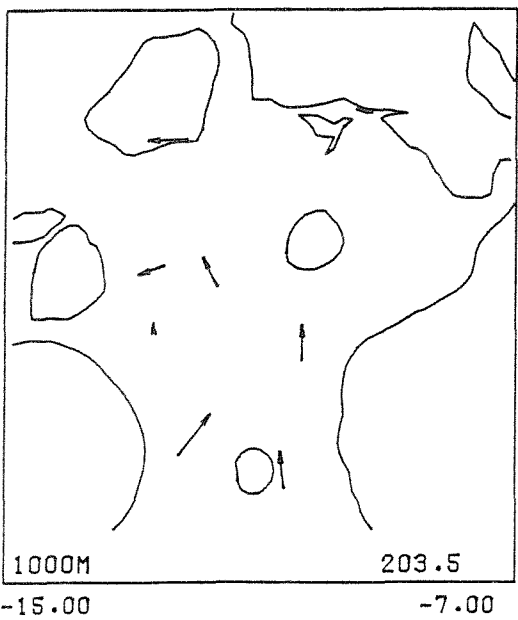
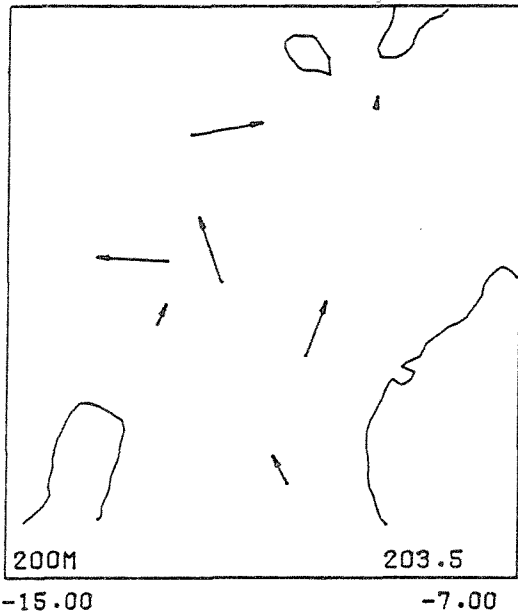


56.50

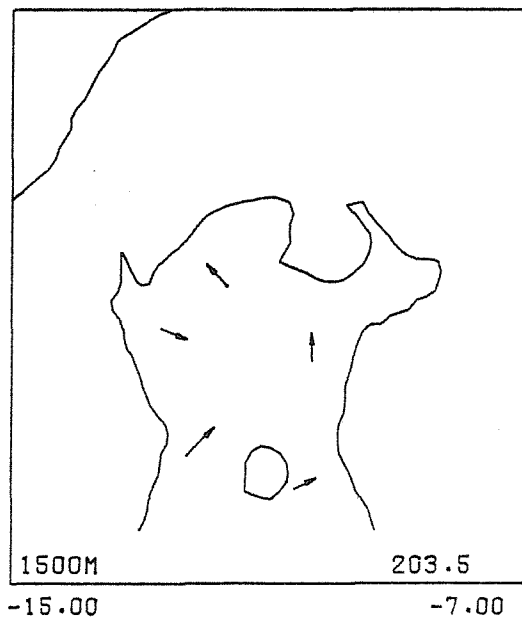
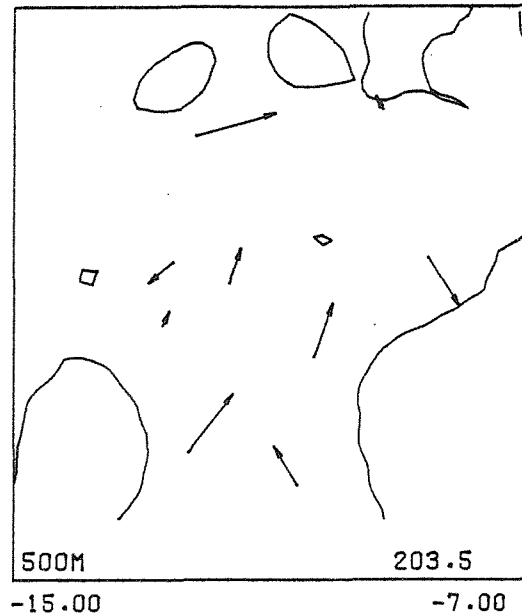
61.00

56.50

61.00



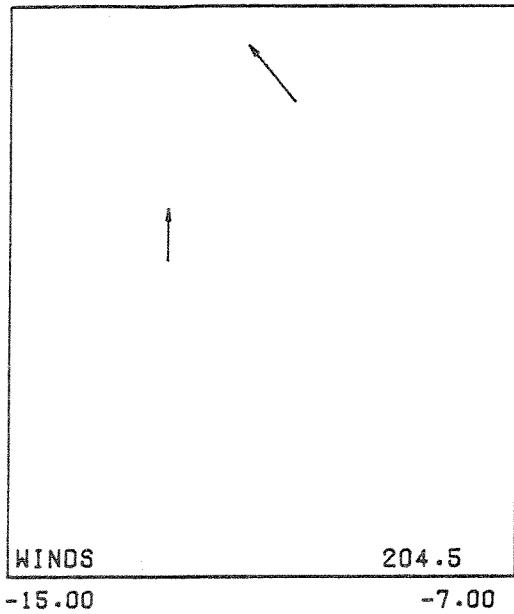
LONGITUDE



LONGITUDE

DAY 203

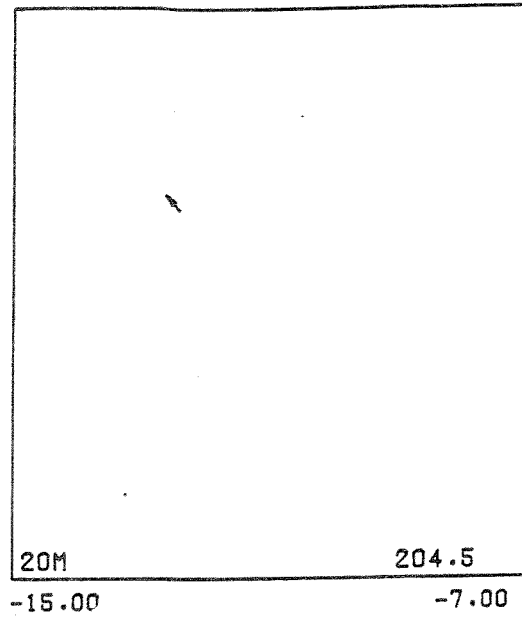
10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00



56.50

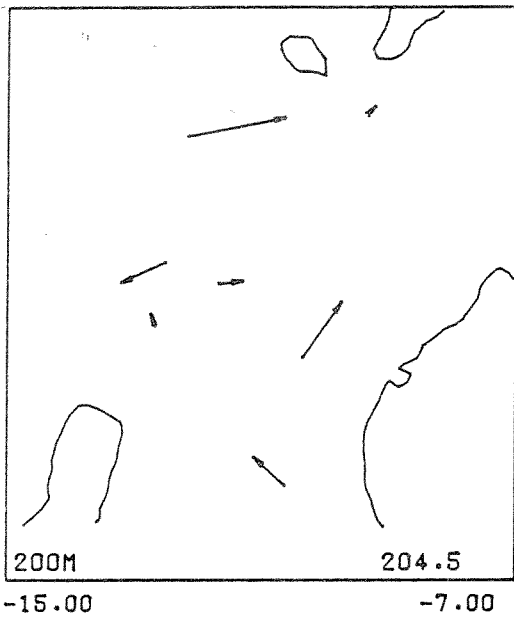
20M

204.5

-15.00

-7.00

61.00



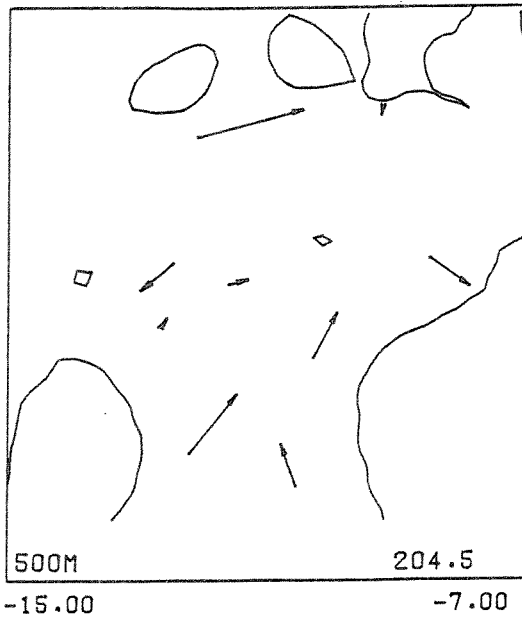
200M

204.5

-15.00

-7.00

56.50



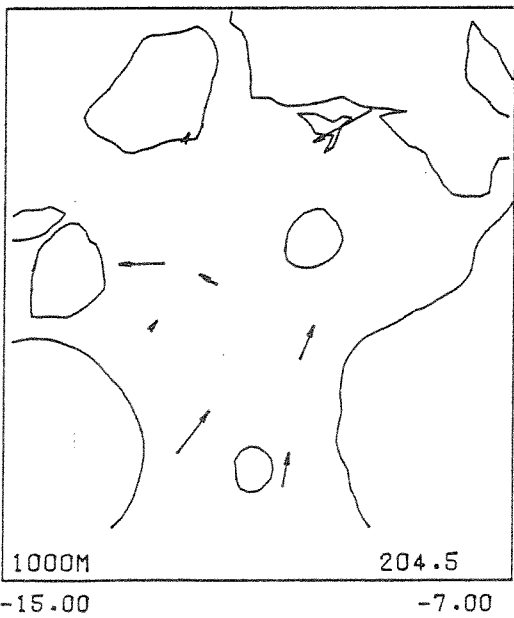
500M

204.5

-15.00

-7.00

61.00



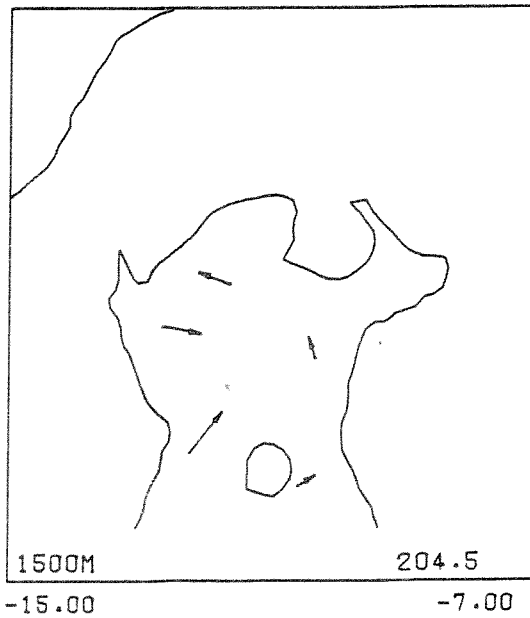
1000M

204.5

-15.00

-7.00

56.50



1500M

204.5

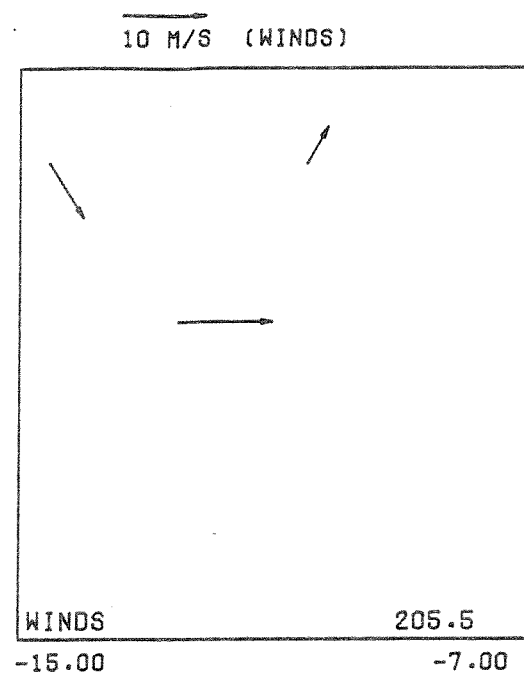
-15.00

-7.00

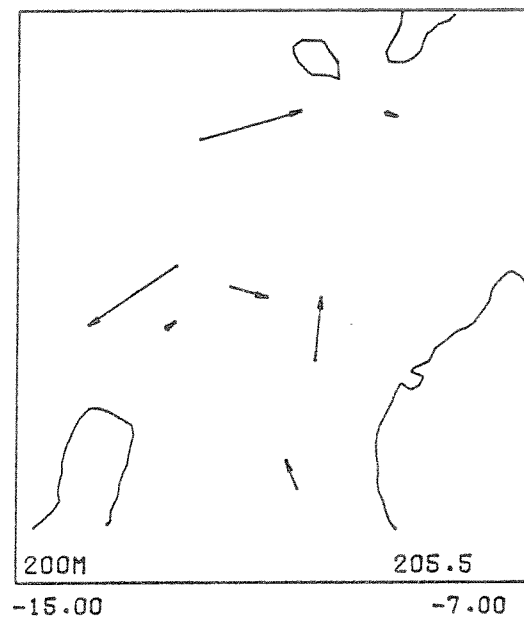
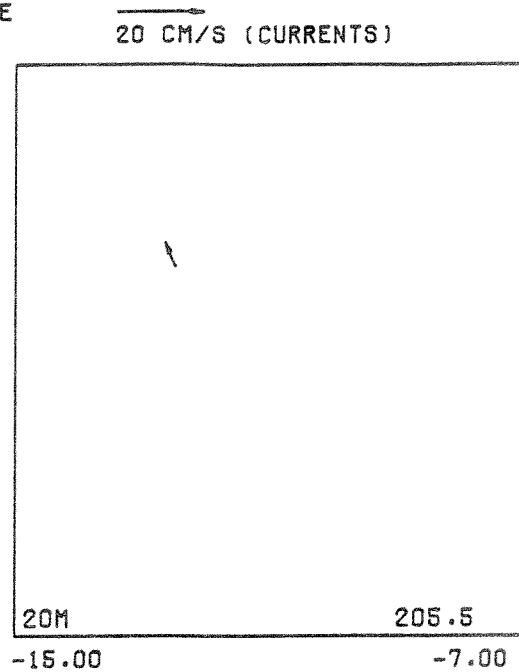
LONGITUDE

LONGITUDE

DAY 204



LATITUDE

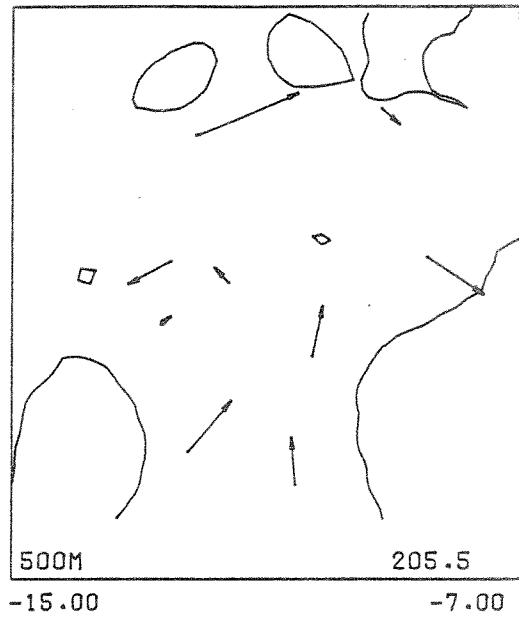


61.00

56.50

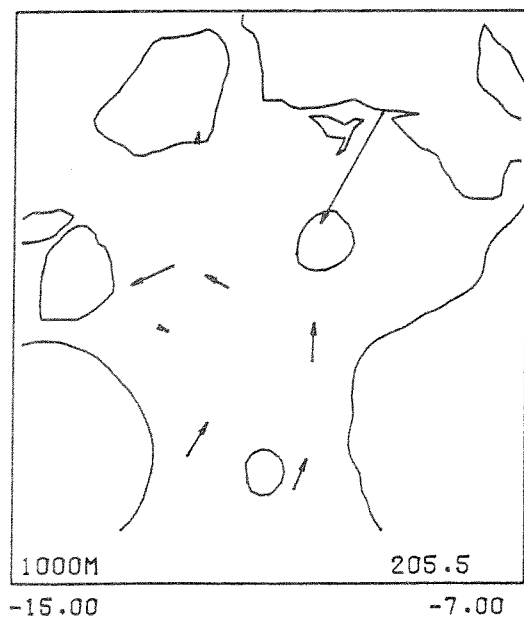
61.00

56.50



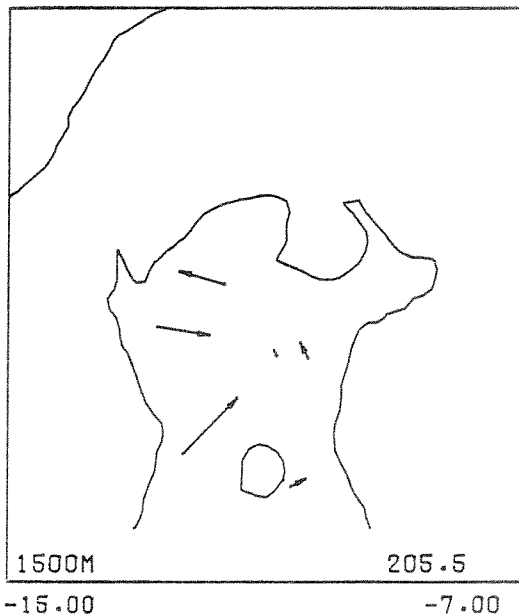
-15.00

-7.00



61.00

56.50



-15.00

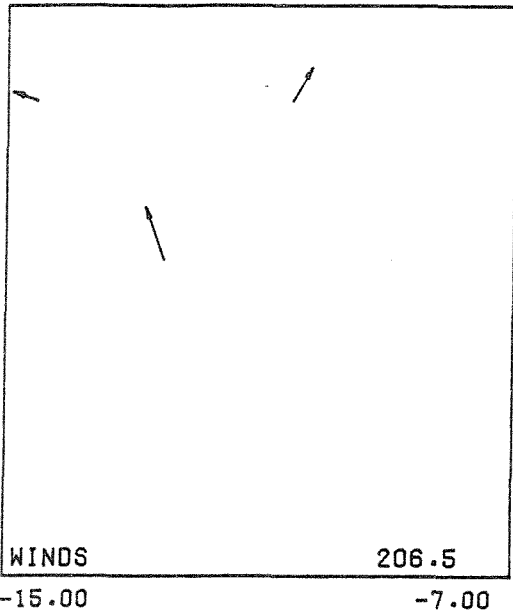
-7.00

LONGITUDE

LONGITUDE

DAY 205

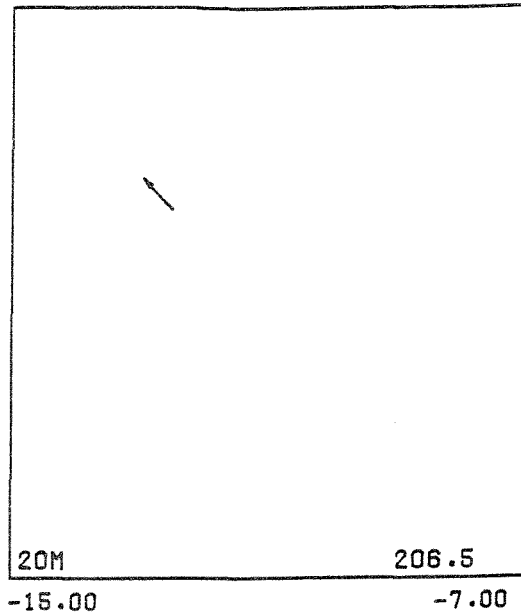
10 M/S (WINDS)



LATITUDE

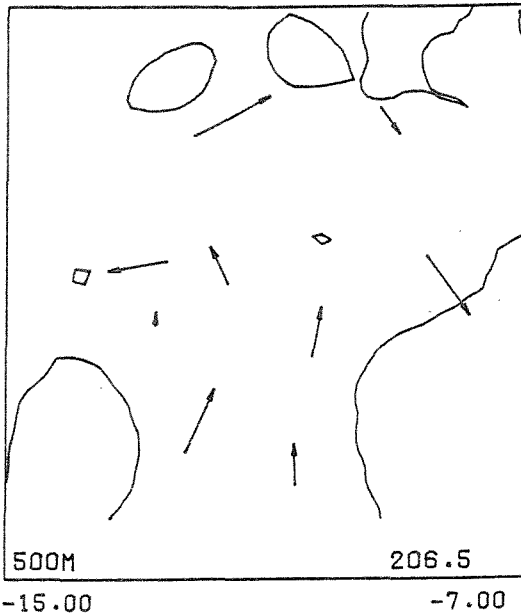
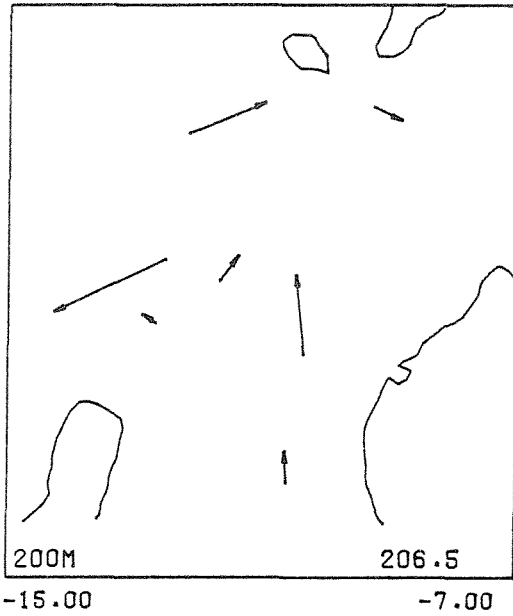
20 CM/S (CURRENTS)

61.00



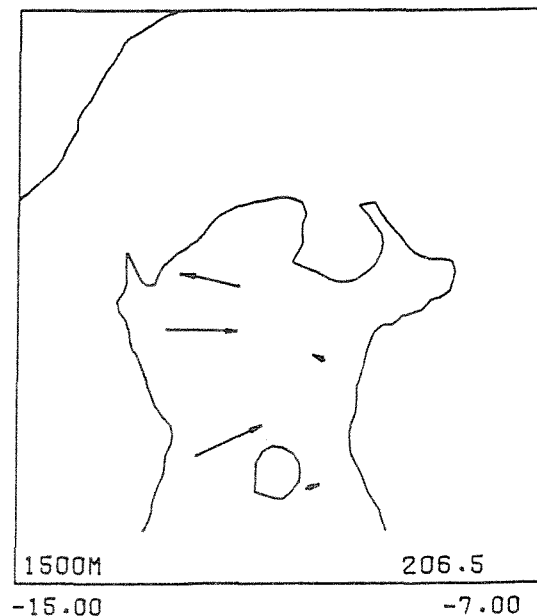
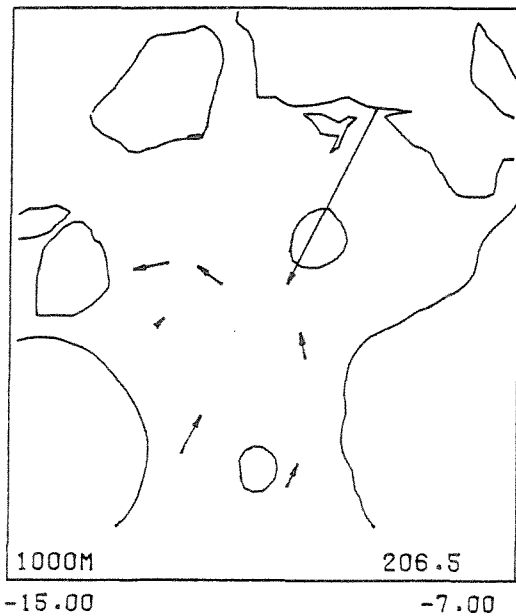
56.50

61.00



56.50

61.00



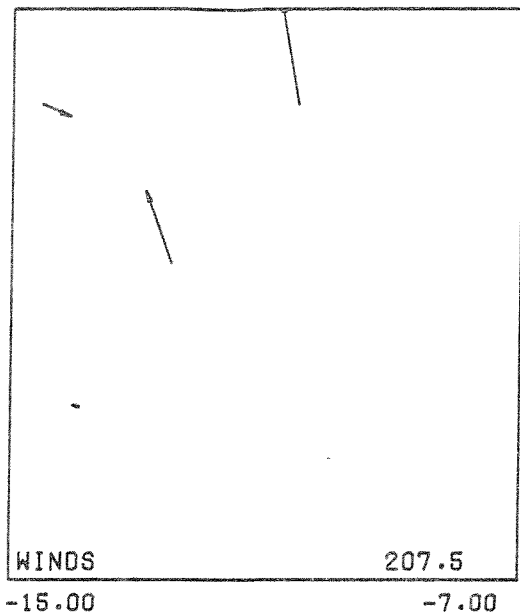
56.50

LONGITUDE

LONGITUDE

DAY 206

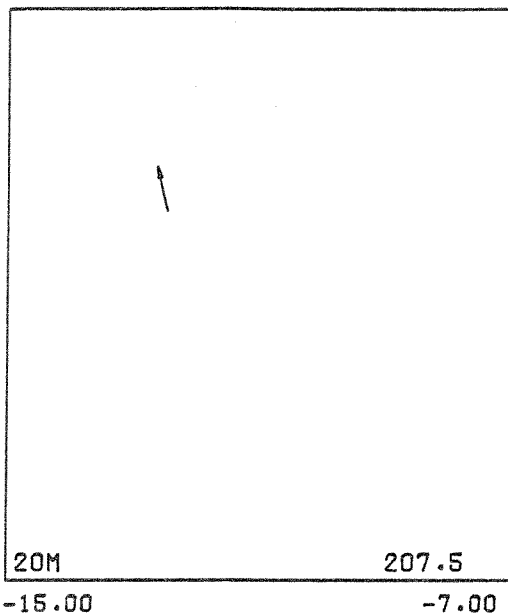
10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00



56.50

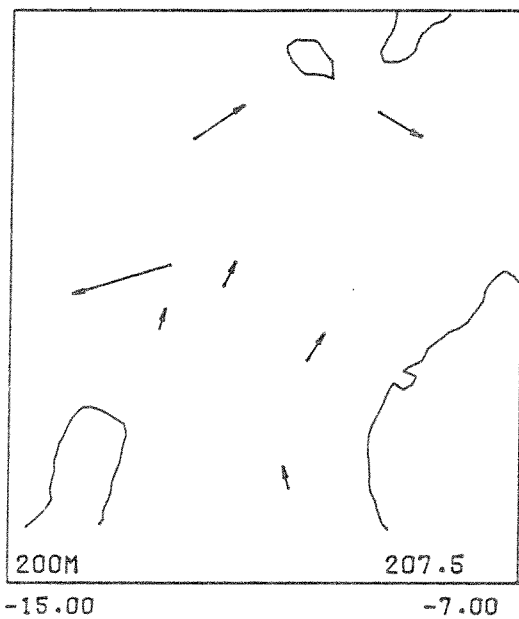
20M

207.5

-15.00

-7.00

61.00



-15.00

-7.00

56.50

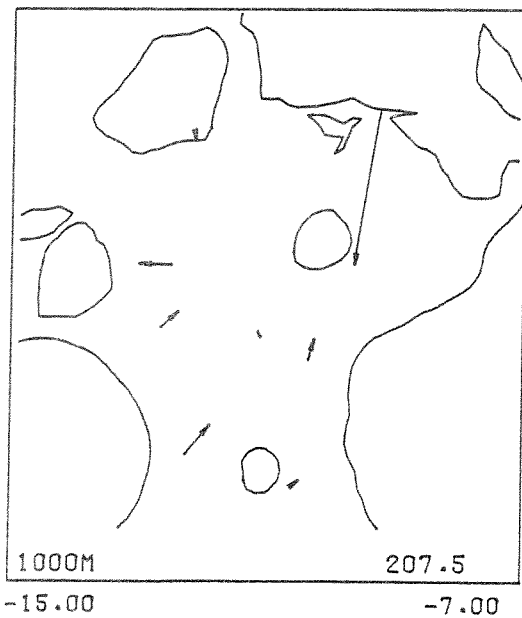
500M

207.5

-15.00

-7.00

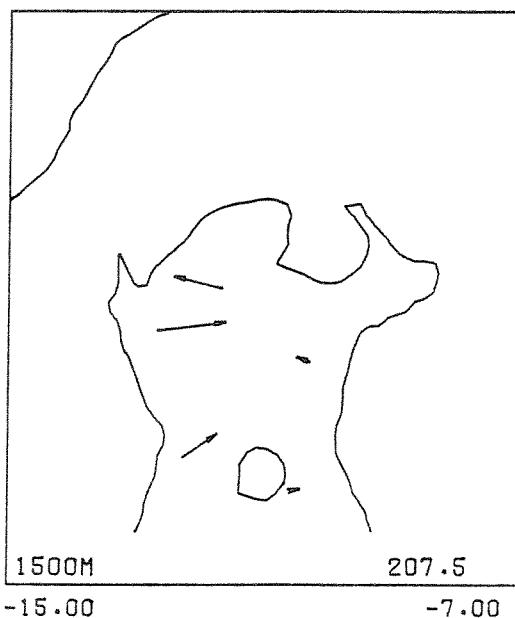
61.00



-15.00

-7.00

LONGITUDE

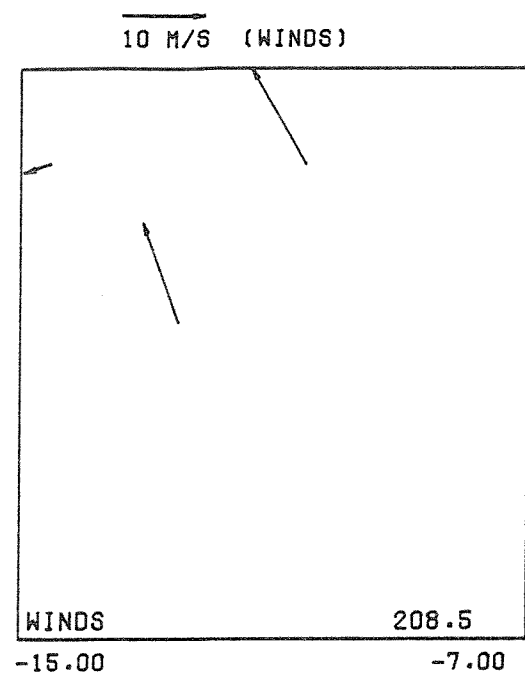


-15.00

-7.00

LONGITUDE

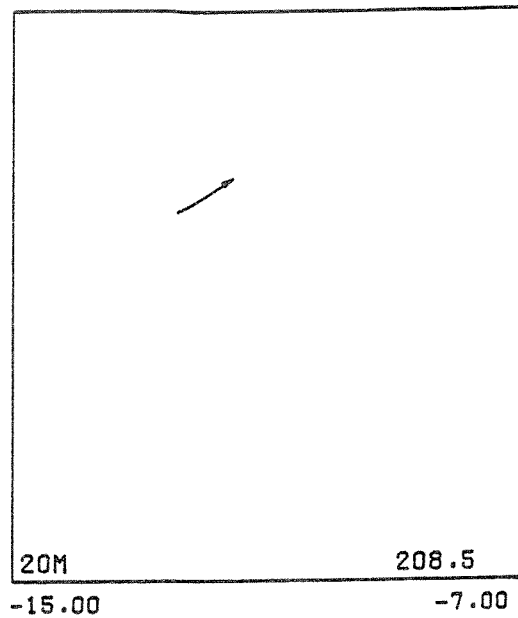
DAY 207



LATITUDE

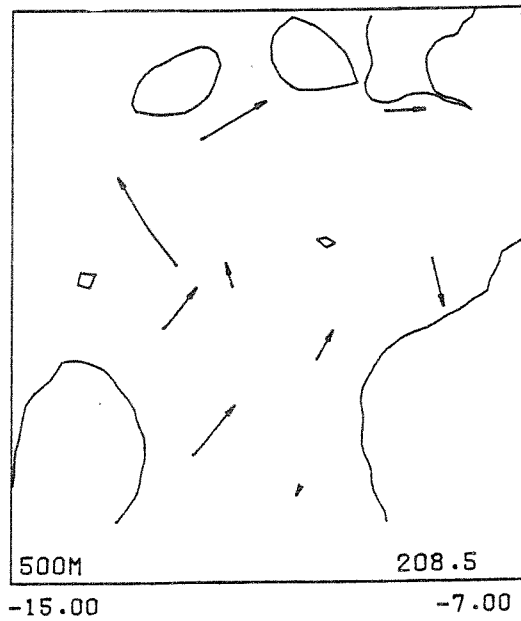
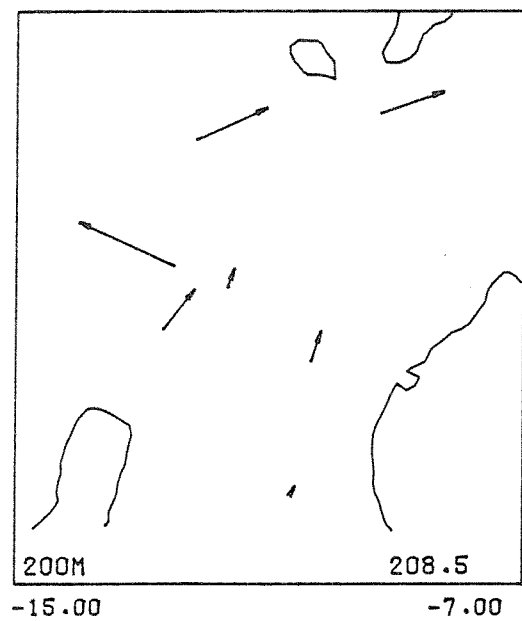
20 CM/S (CURRENTS)

61.00



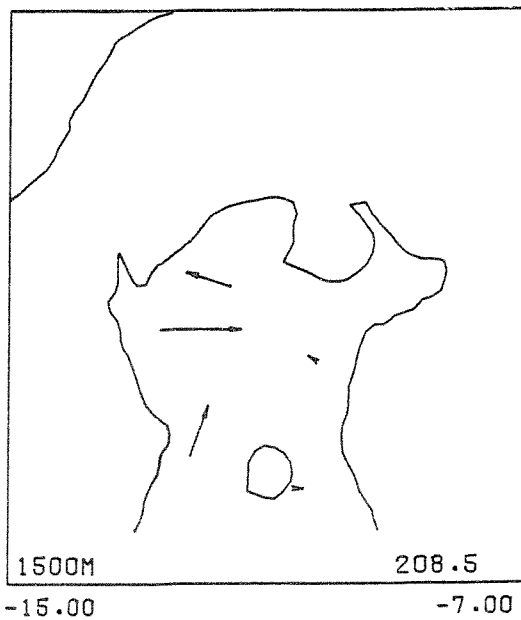
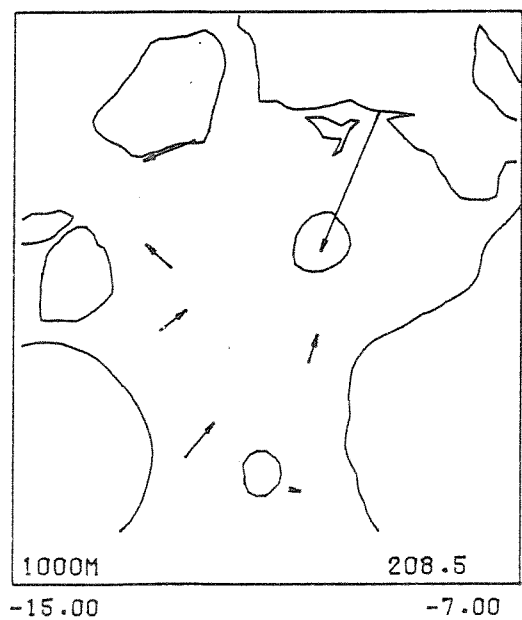
56.50

61.00



56.50

61.00



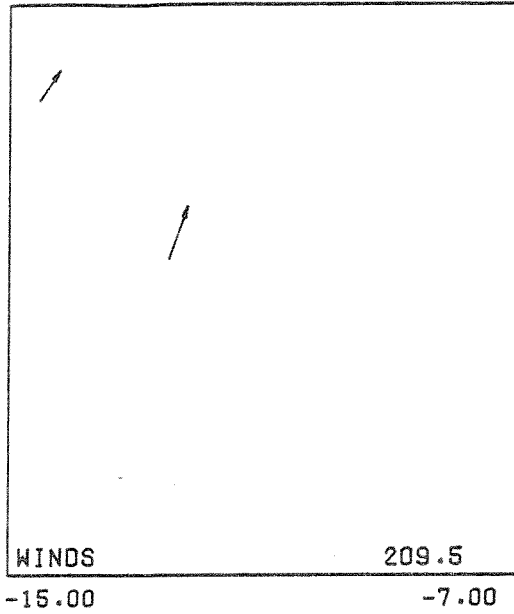
56.50

LONGITUDE

LONGITUDE

DAY 208

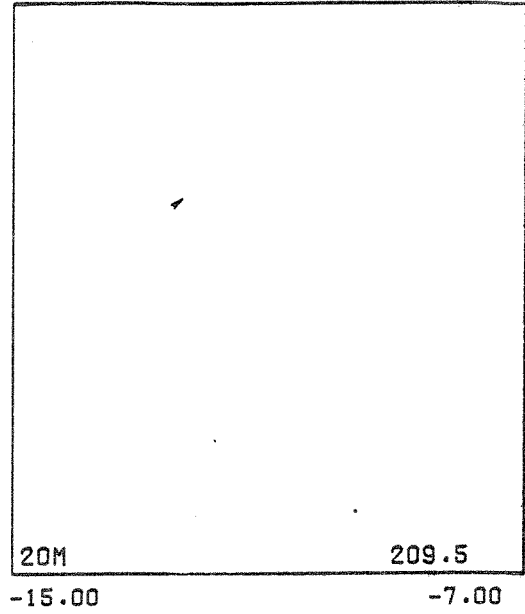
10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00



56.50

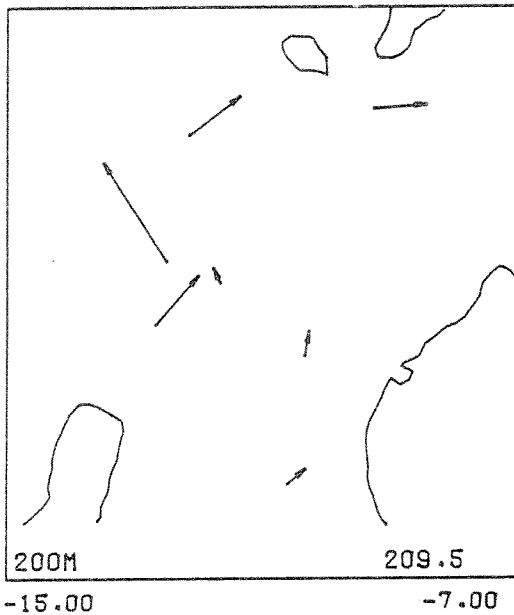
20M

209.5

-15.00

-7.00

61.00



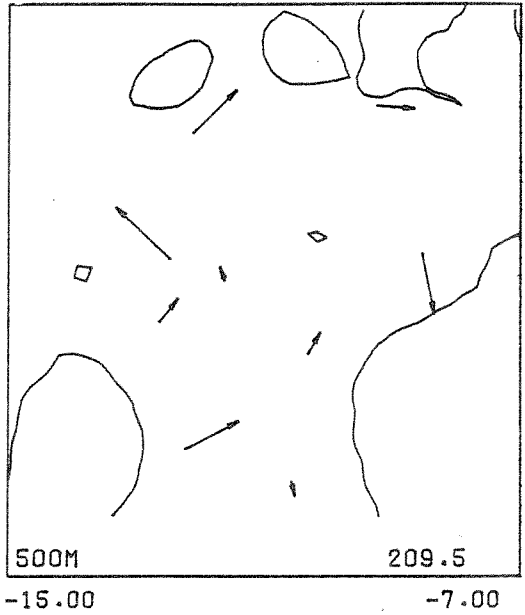
200M

209.5

-15.00

-7.00

56.50



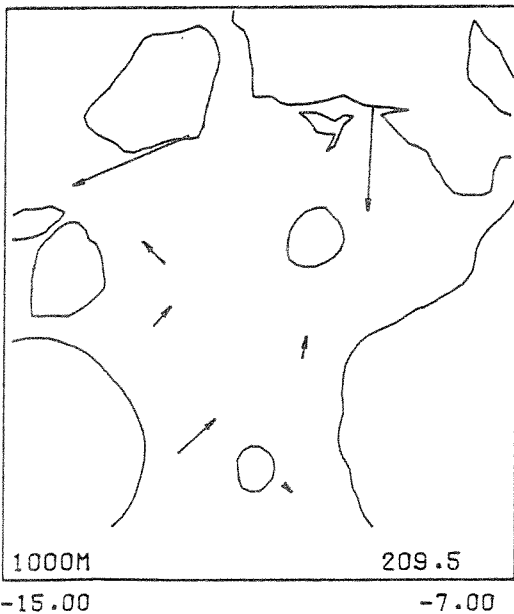
500M

209.5

-15.00

-7.00

61.00



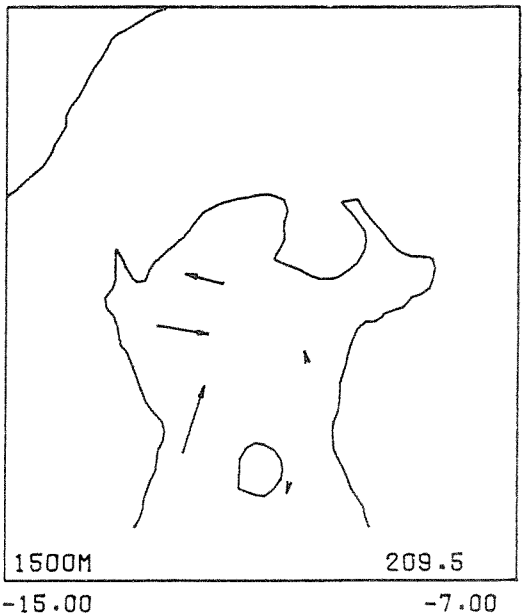
1000M

209.5

-15.00

-7.00

56.50



1500M

209.5

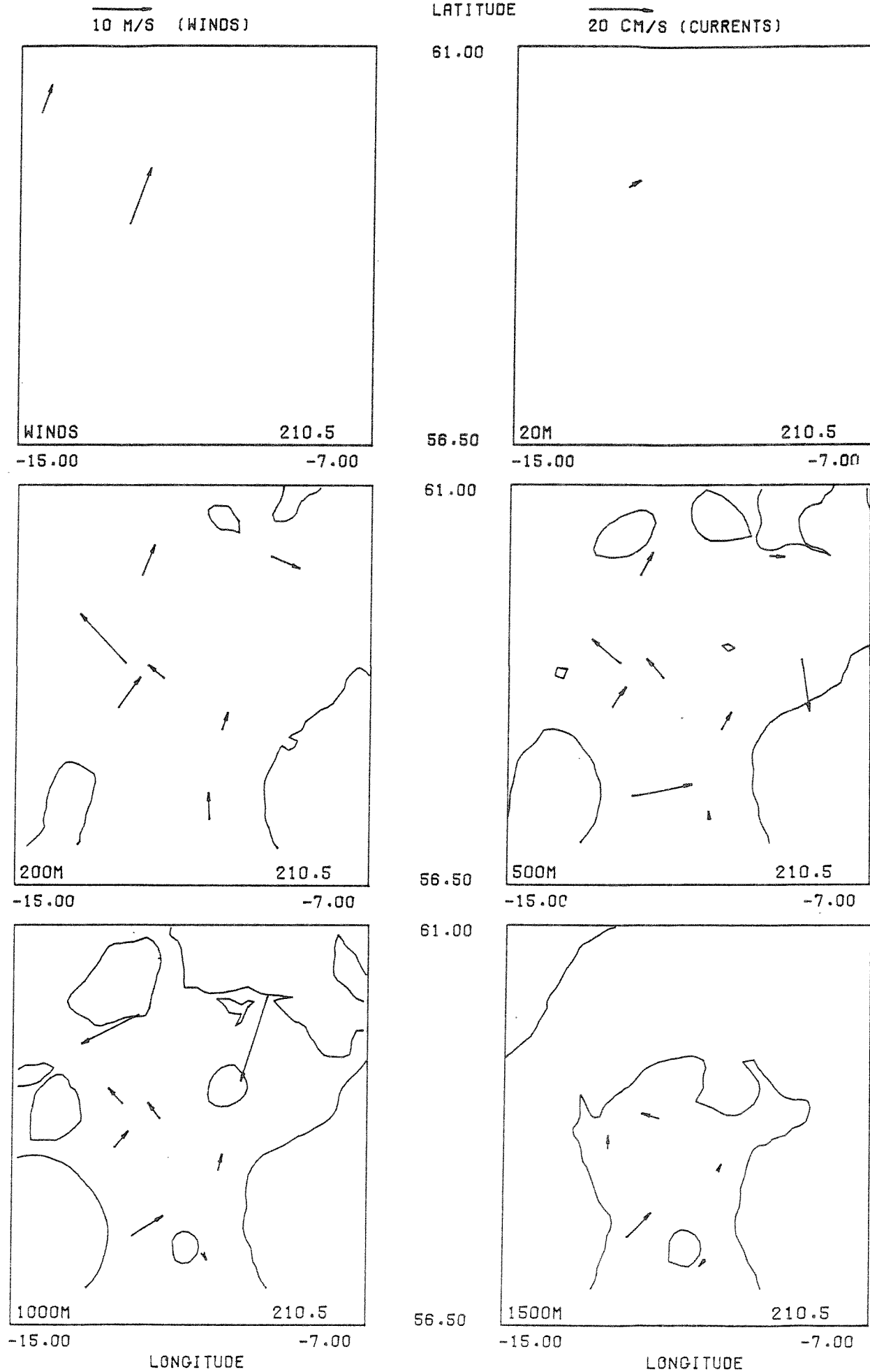
-15.00

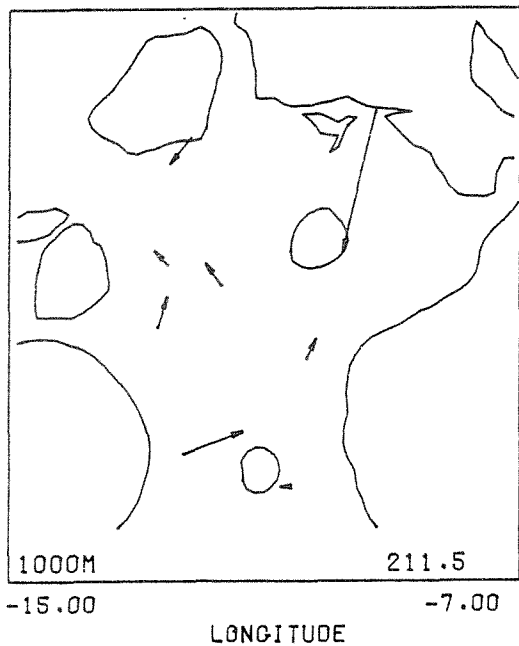
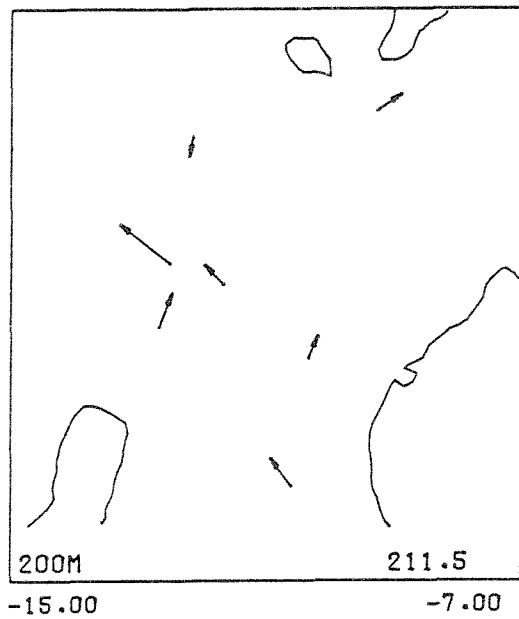
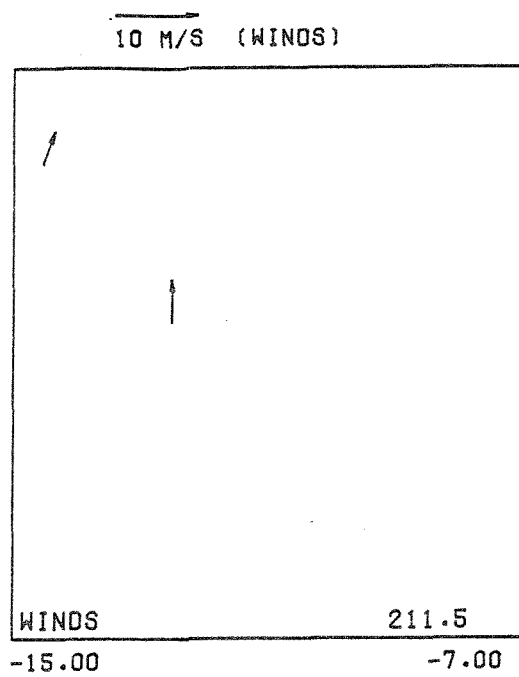
-7.00

LONGITUDE

LONGITUDE

DAY 209

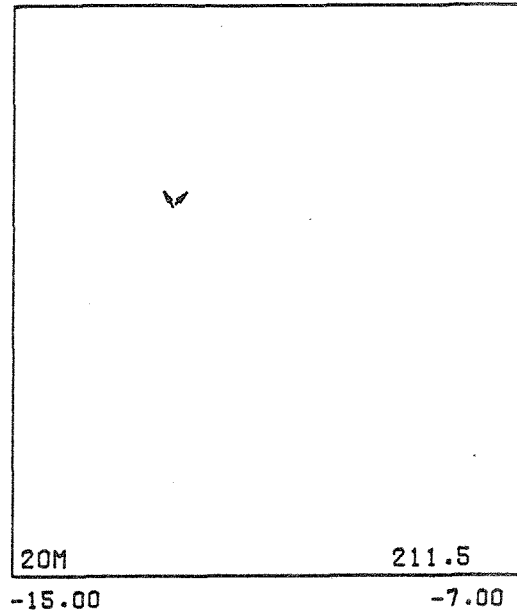




LATITUDE

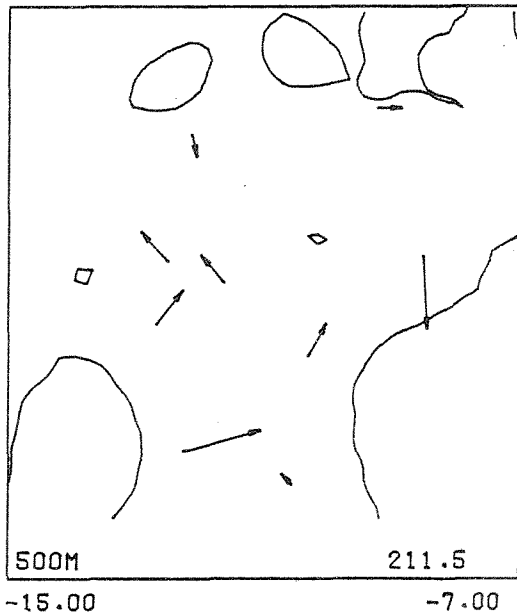
20 CM/S (CURRENTS)

61.00



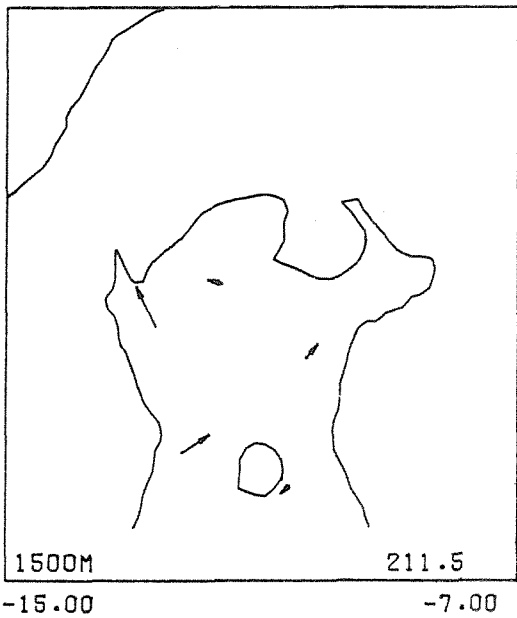
56.50

61.00



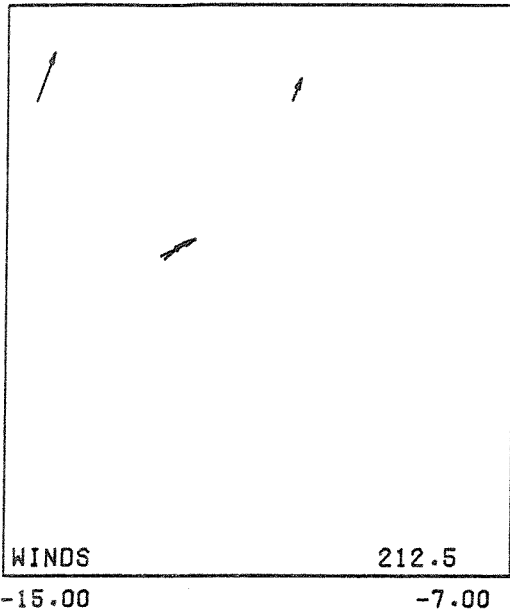
56.50

61.00



56.50

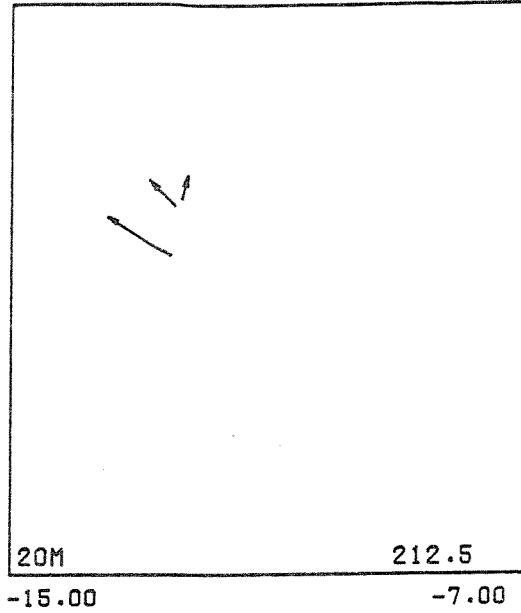
10 M/S (WINDS)



LATITUDE

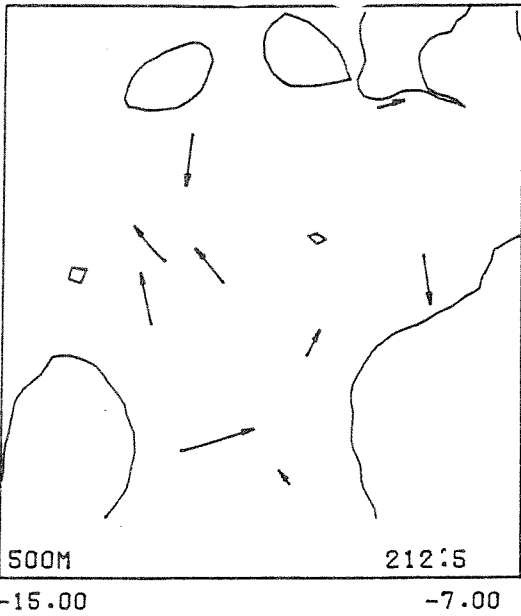
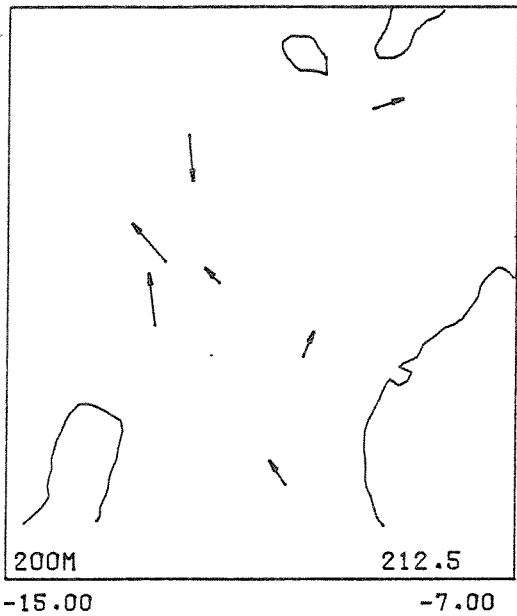
20 CM/S (CURRENTS)

61.00



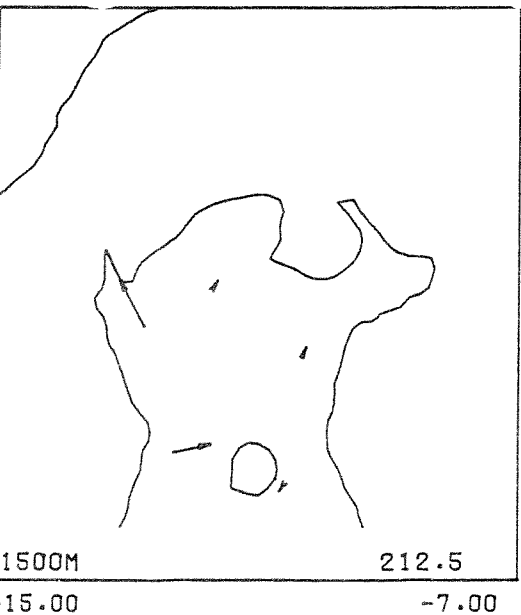
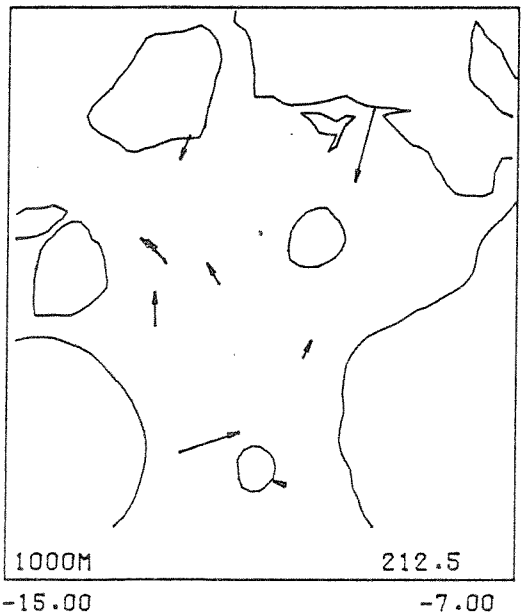
56.50

61.00



56.50

61.00

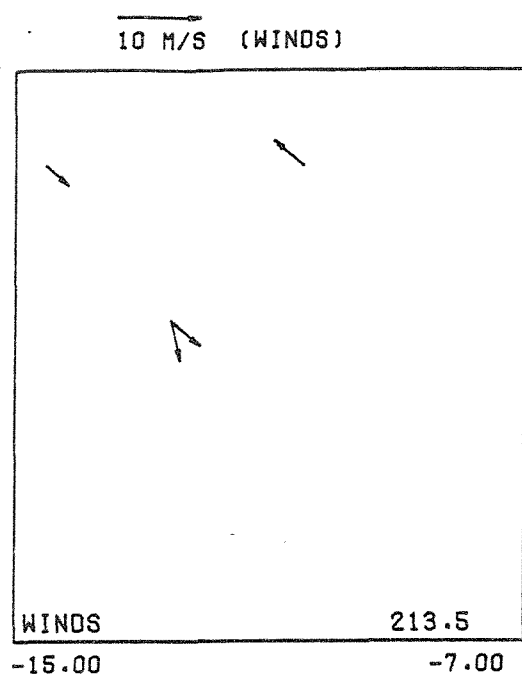


56.50

LONGITUDE

LONGITUDE

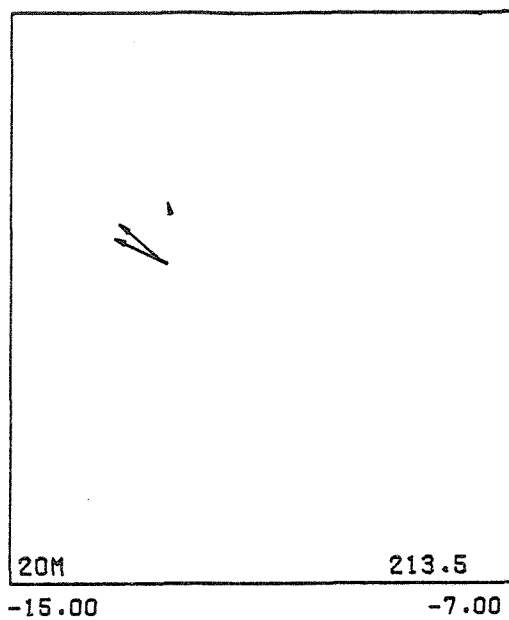
DAY 212



LATITUDE

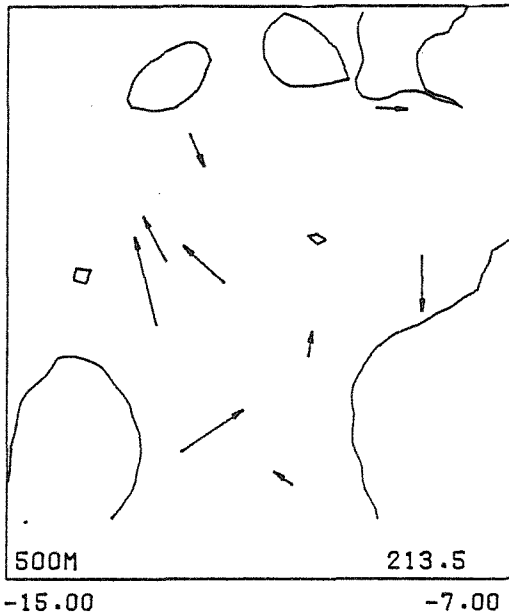
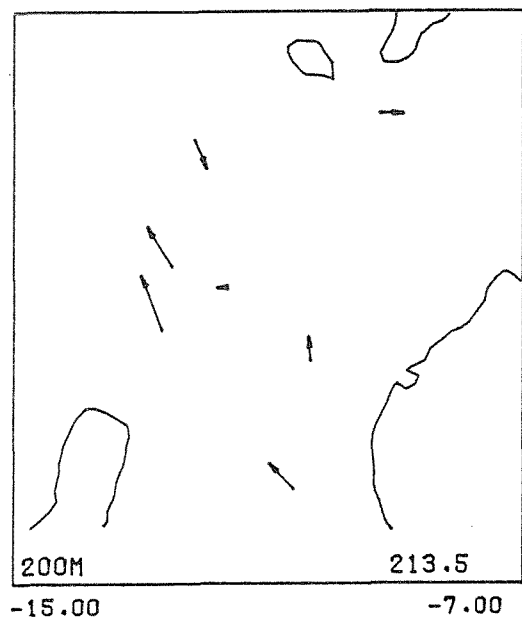
20 CM/S (CURRENTS)

61.00



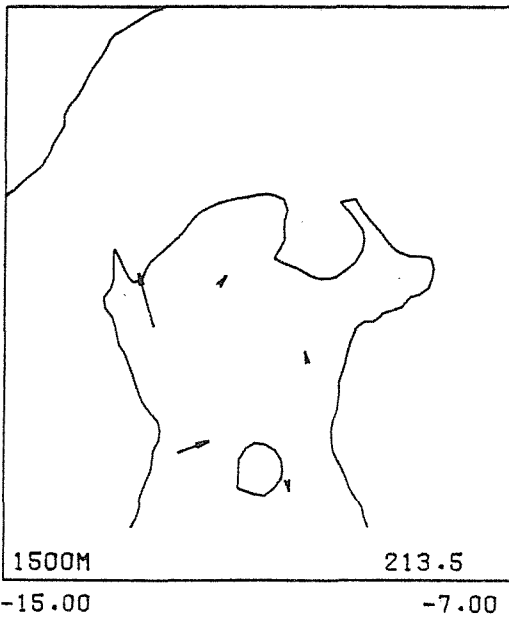
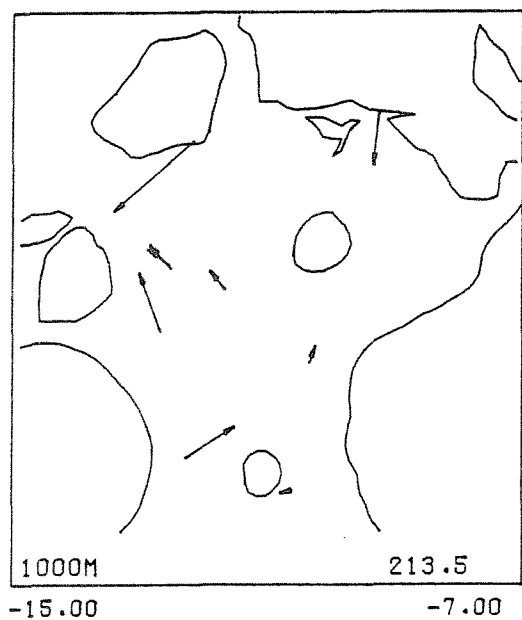
56.50

61.00



56.50

61.00



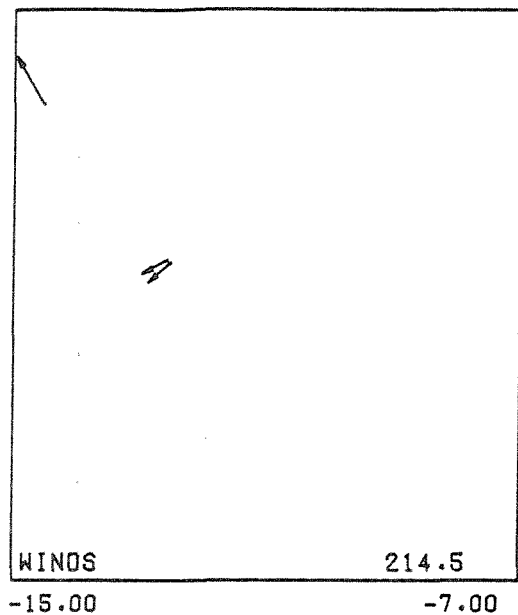
56.50

LONGITUDE

LONGITUDE

DAY 213

10 M/S (WINDS)

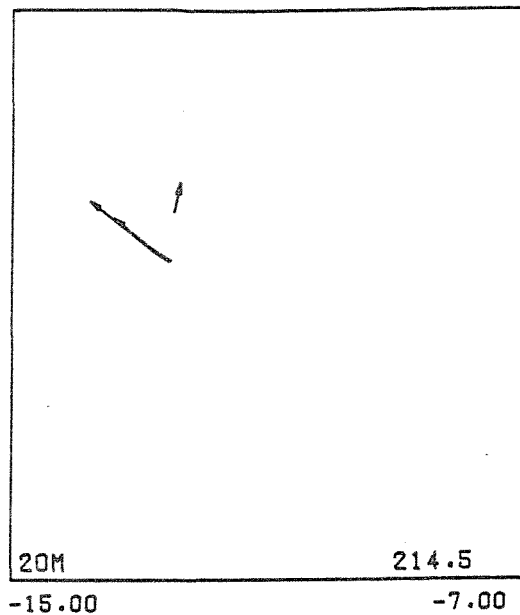


LATITUDE

20 CM/S (CURRENTS)

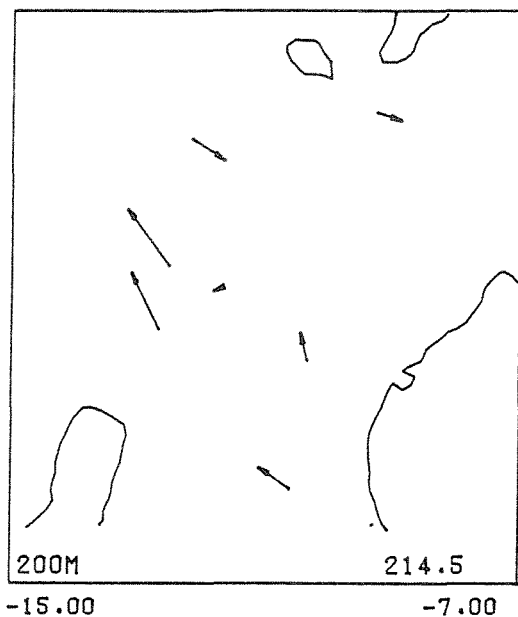
61.00

56.50



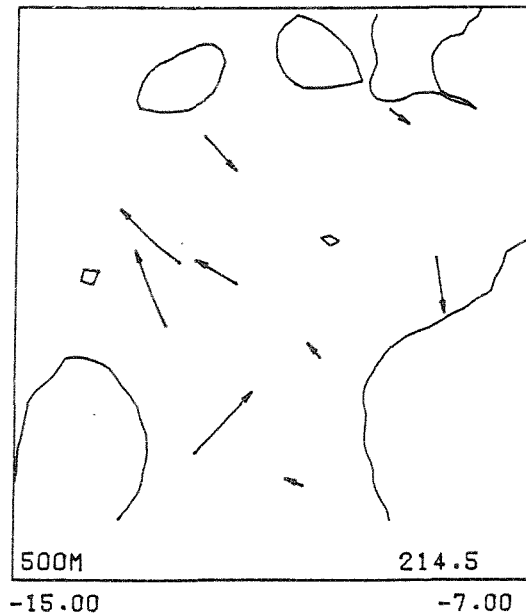
61.00

56.50



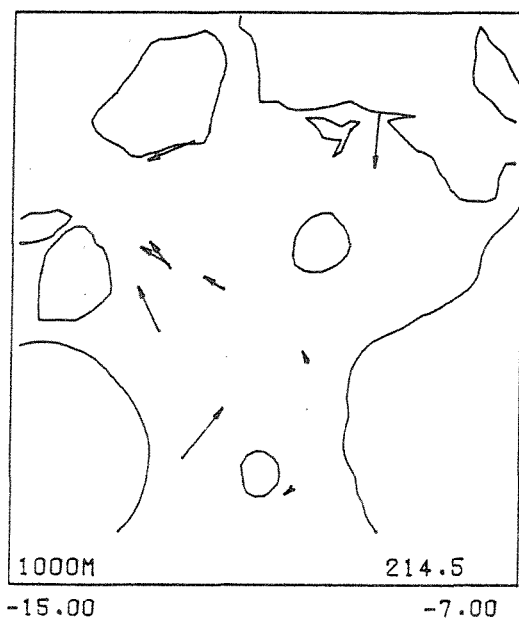
-15.00

-7.00



-15.00

-7.00

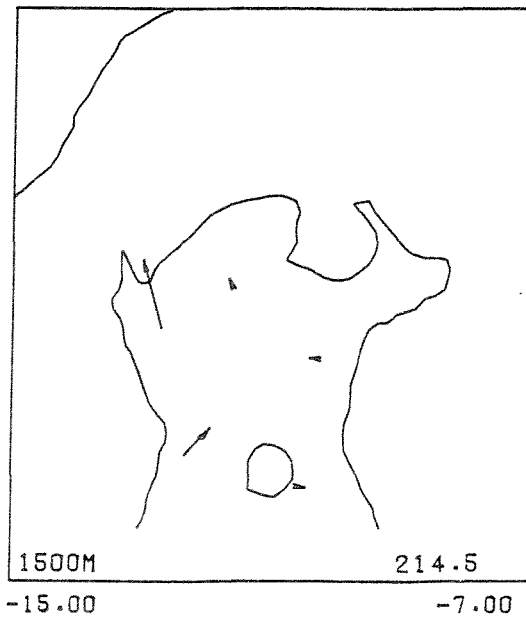


-15.00

-7.00

61.00

56.50



-15.00

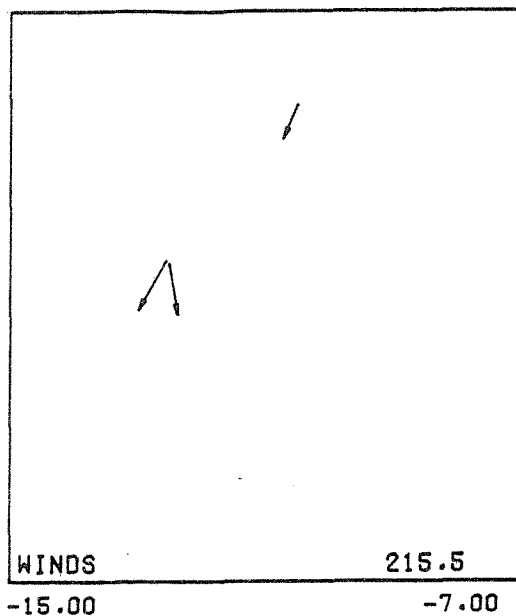
-7.00

LONGITUDE

LONGITUDE

DAY 214

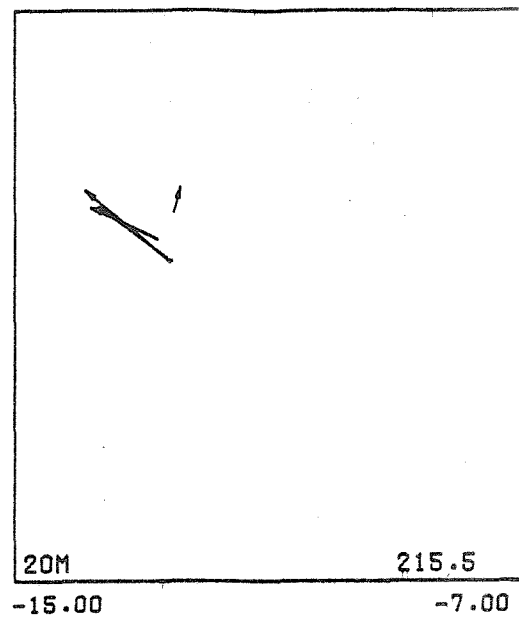
10 M/S (WINDS)



LATITUDE

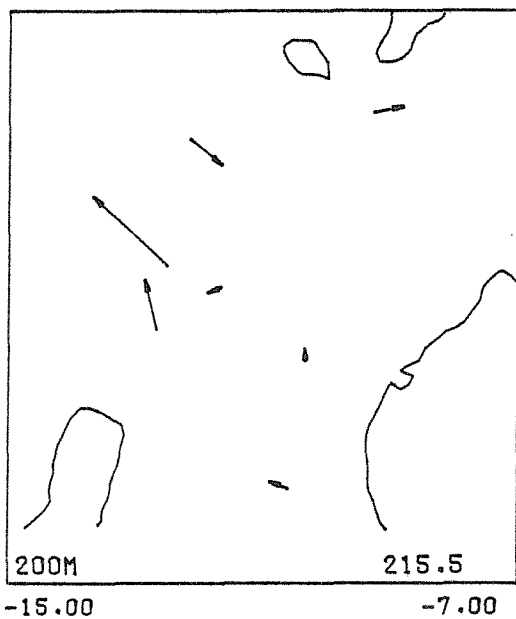
20 CM/S (CURRENTS)

61.00

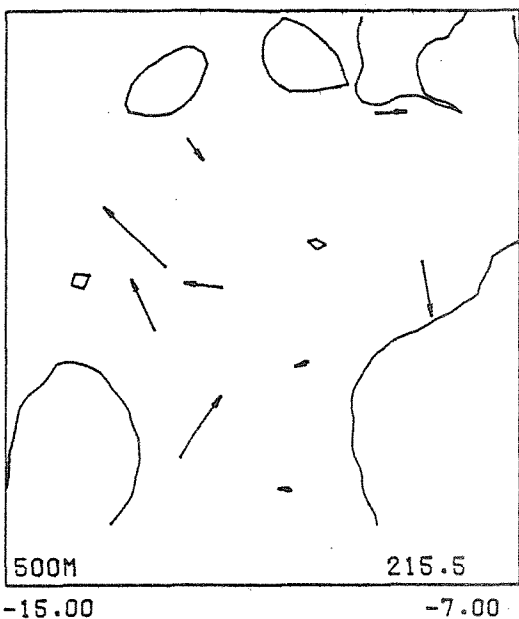


56.50

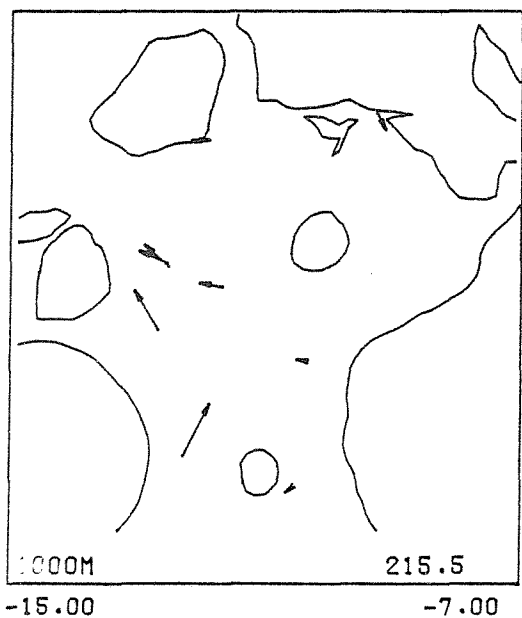
61.00



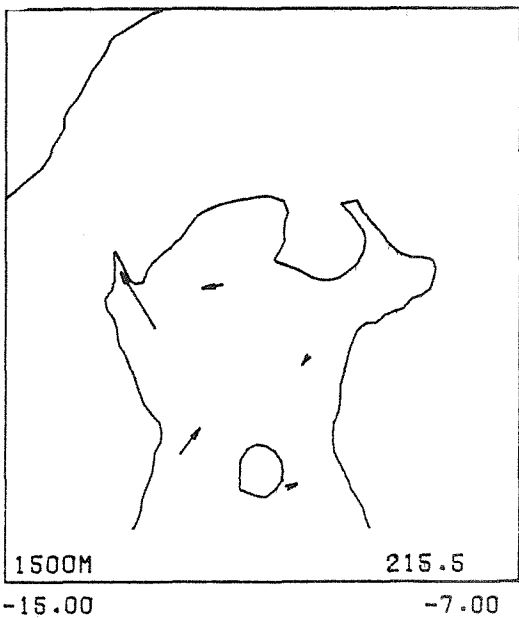
56.50



61.00



56.50

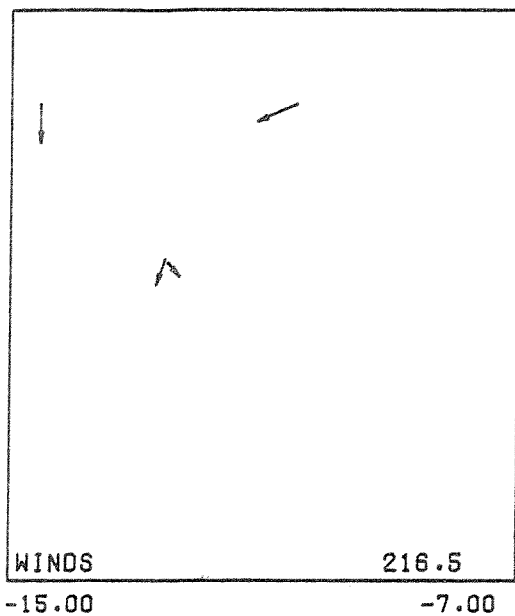


LONGITUDE

LONGITUDE

DAY 215

10 M/S (WINDS)

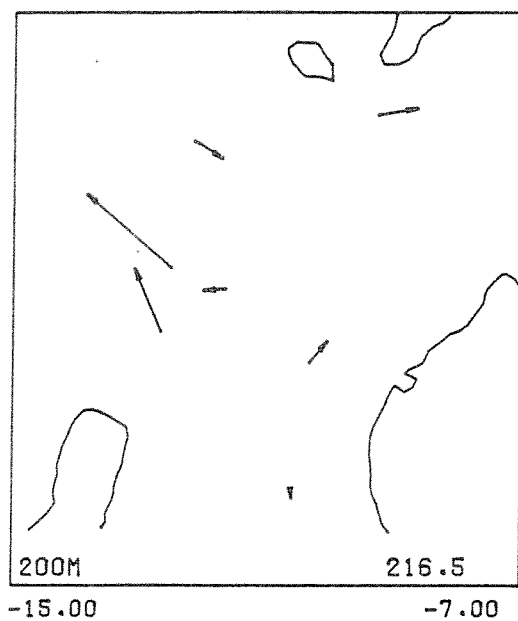
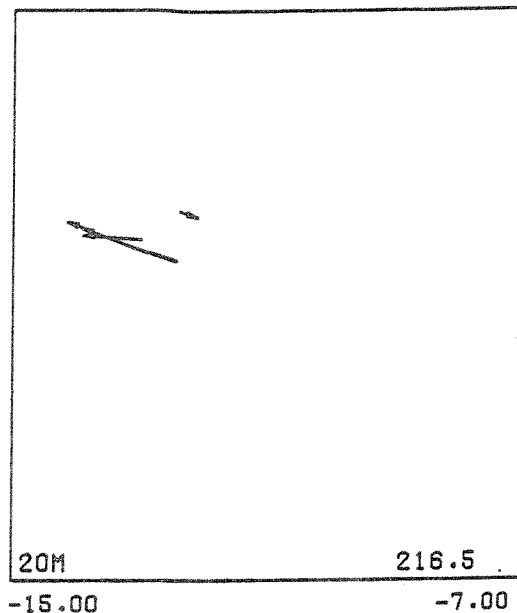


LATITUDE

20 CM/S (CURRENTS)

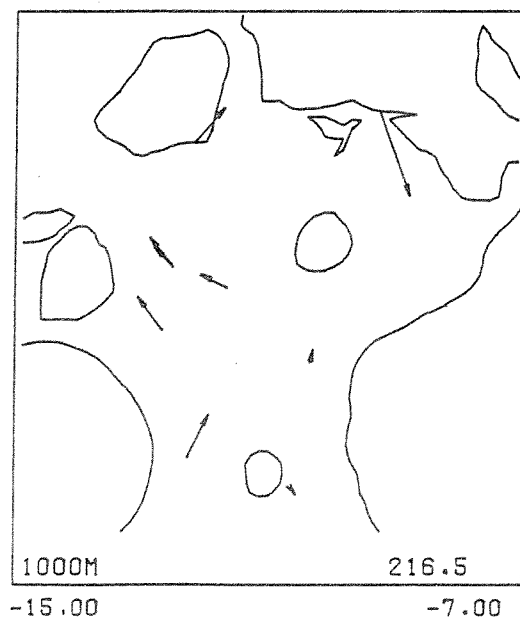
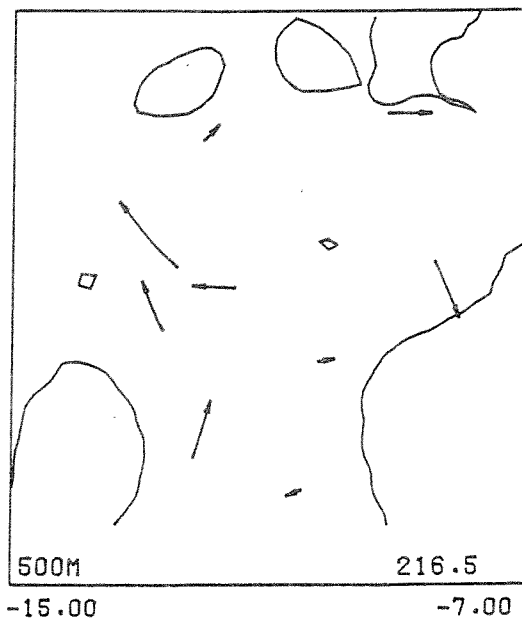
61.00

56.50



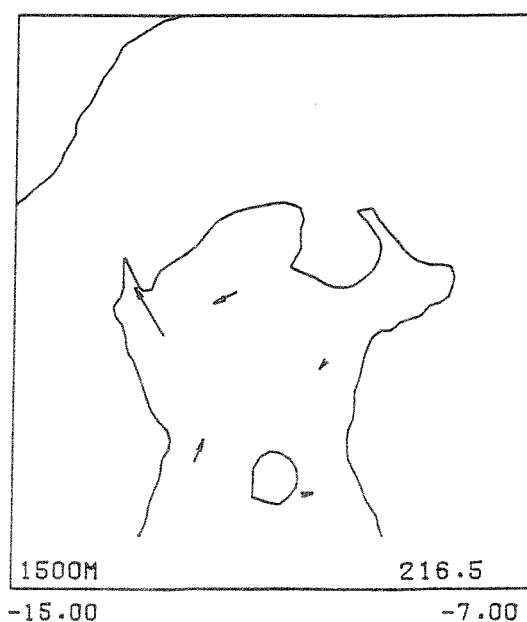
61.00

56.50



61.00

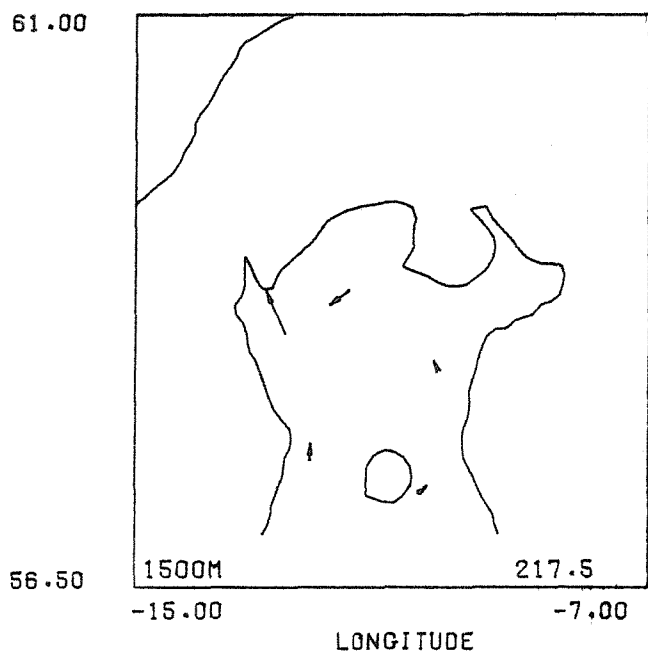
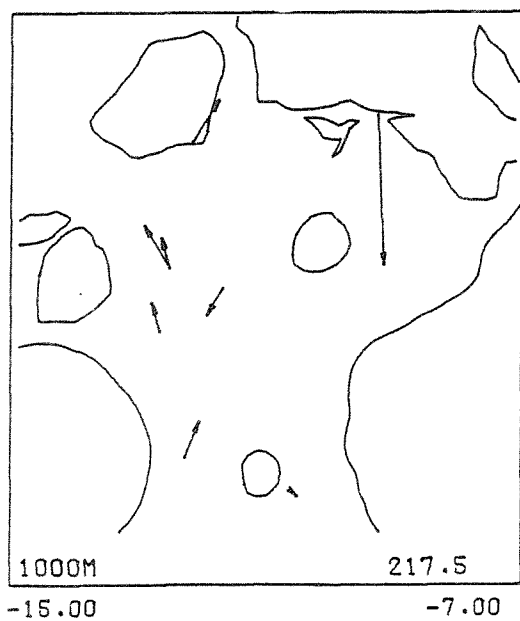
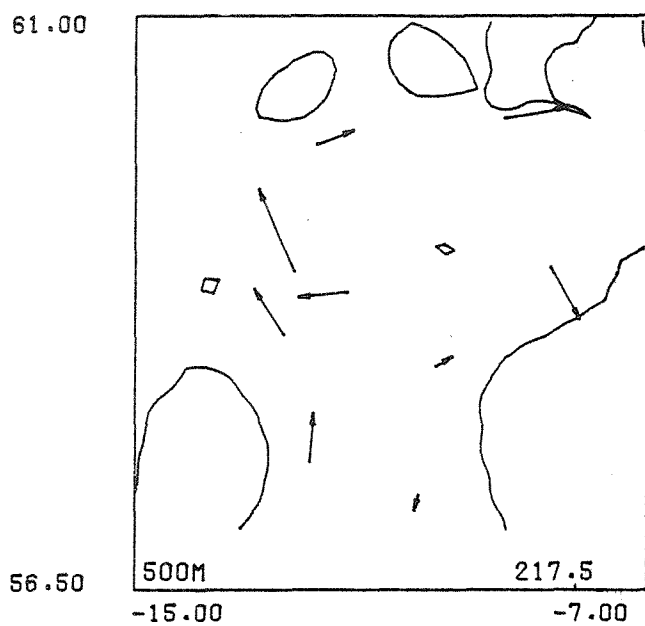
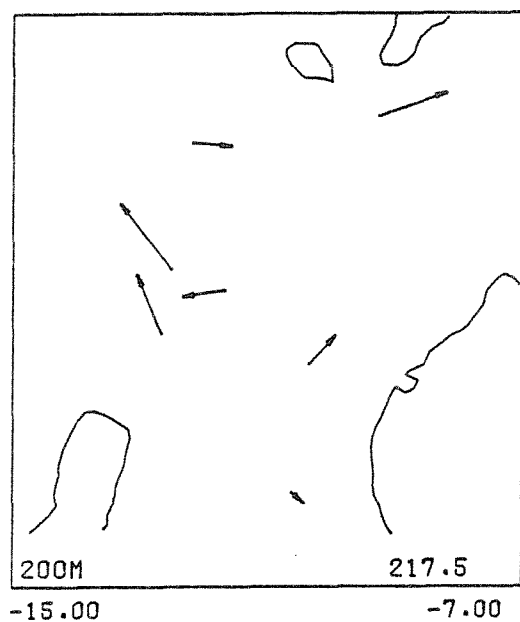
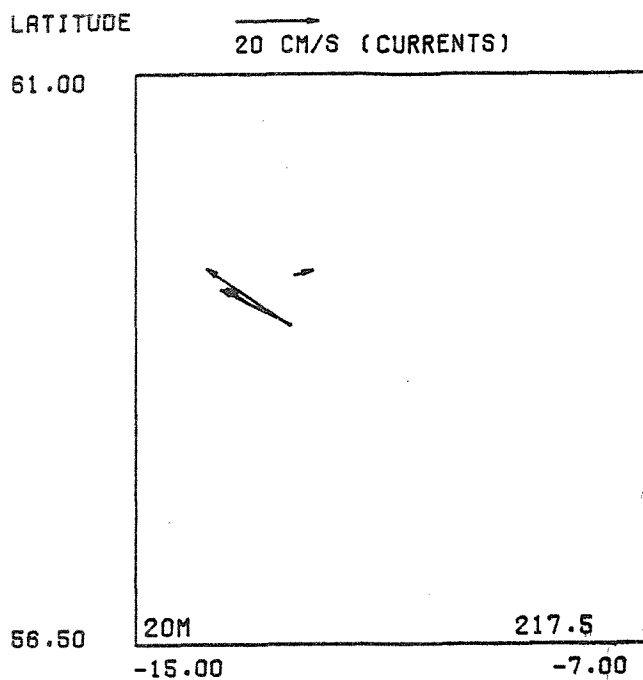
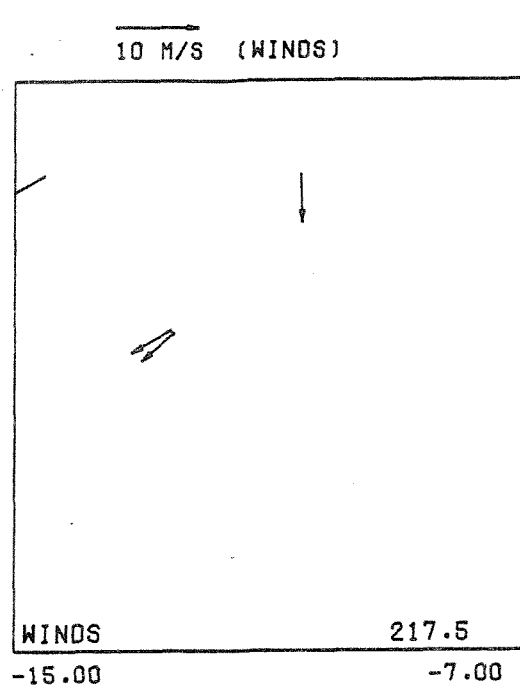
56.50



LONGITUDE

LONGITUDE

DAY 216

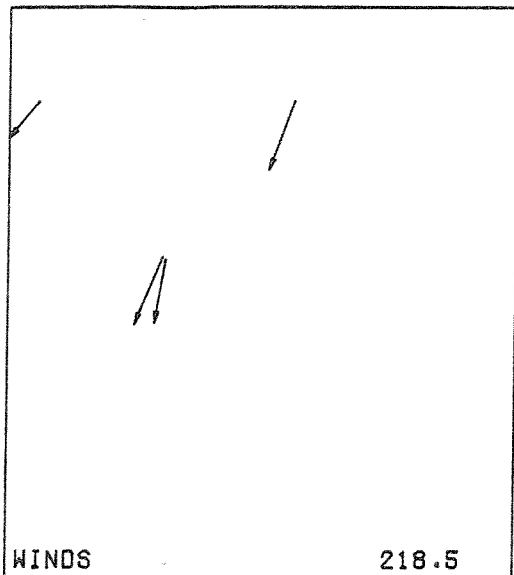


LONGITUDE

LONGITUDE

DAY 217

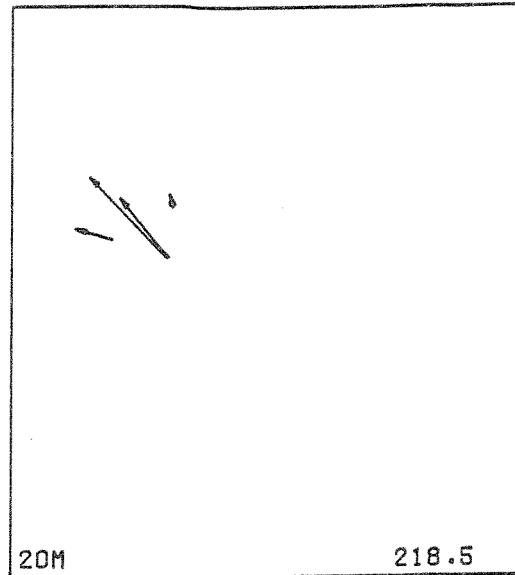
10 M/S (WINDS)



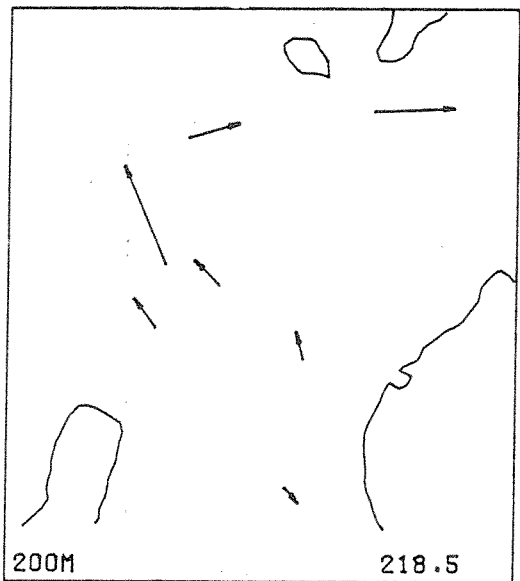
-15.00 -7.00

LATITUDE

20 CM/S (CURRENTS)



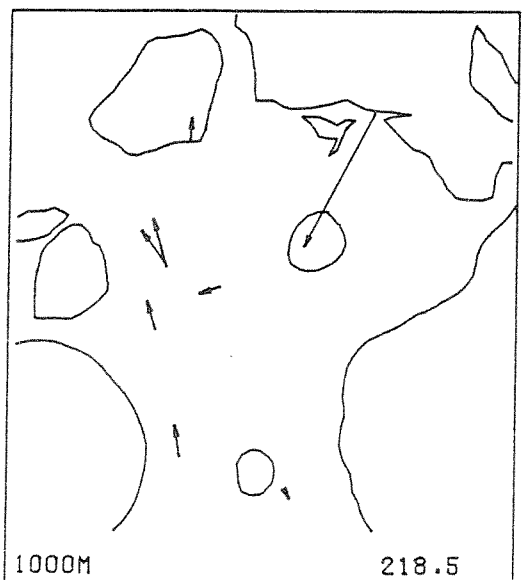
-15.00 -7.00



-15.00 -7.00

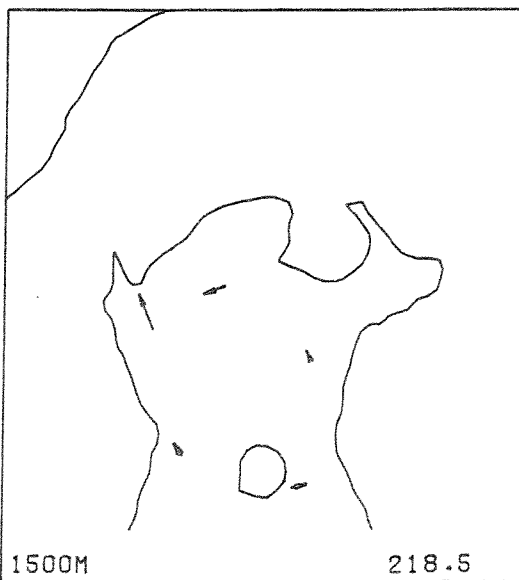


-15.00 -7.00



-15.00 -7.00

LONGITUDE

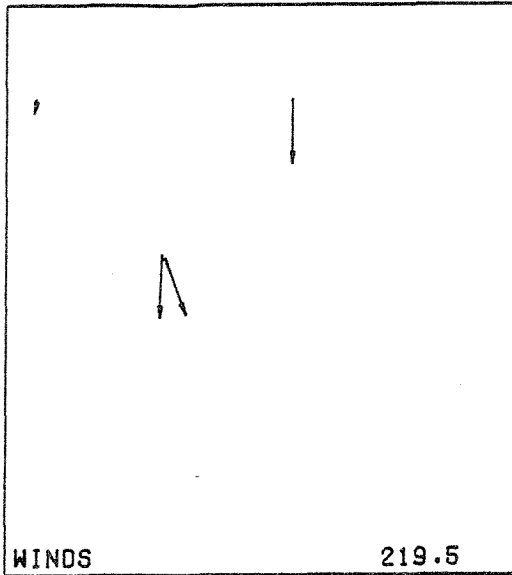


56.50 -15.00 -7.00

LONGITUDE

DAY 218

10 M/S (WINDS)

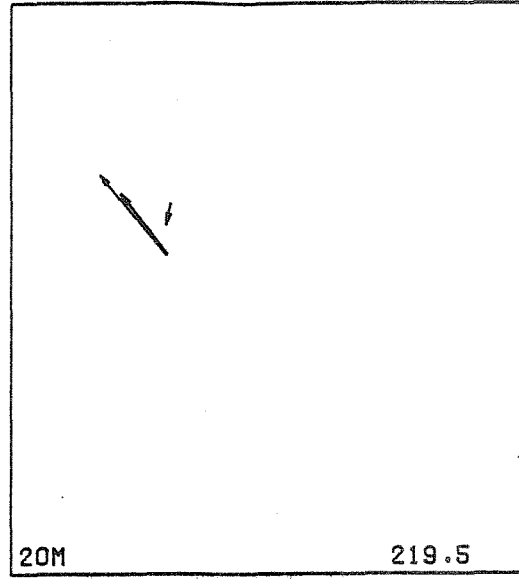


-15.00 -7.00

LATITUDE

20 CM/S (CURRENTS)

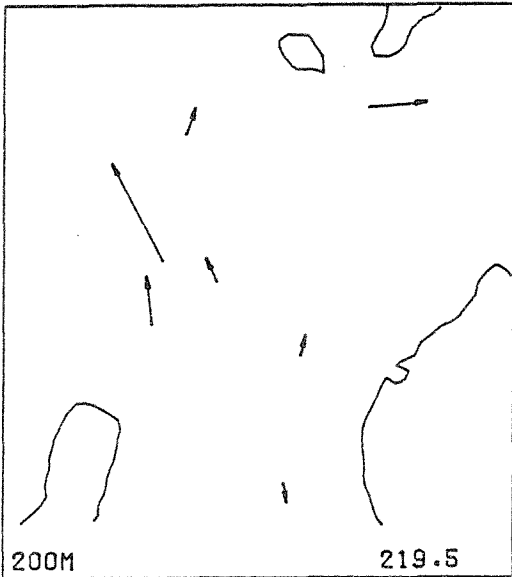
61.00



-15.00 -7.00

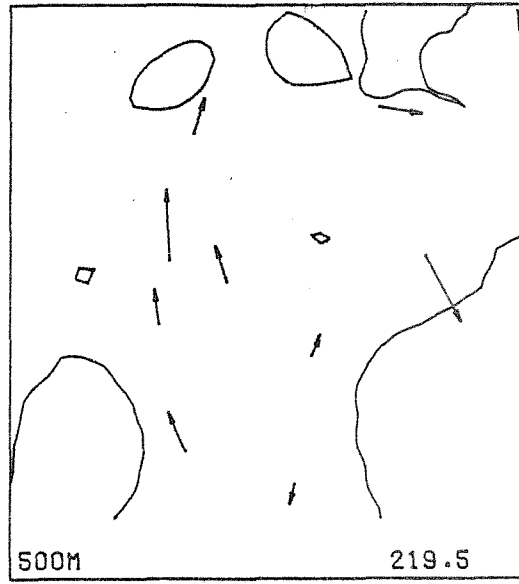
56.50

61.00



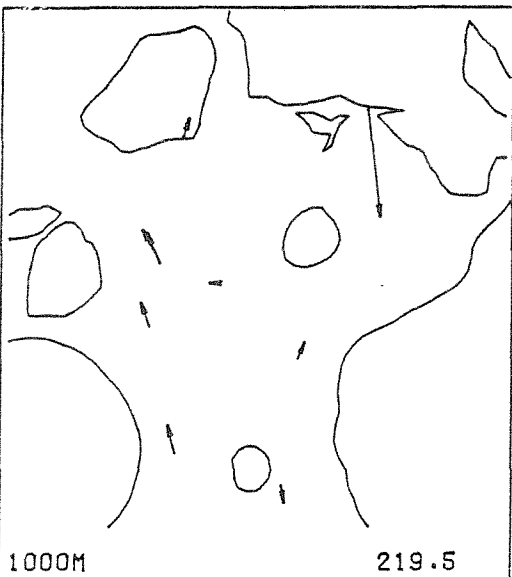
-15.00 -7.00

56.50



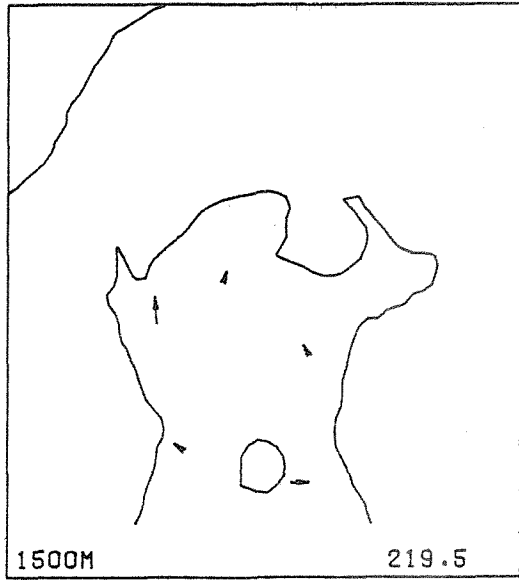
-15.00 -7.00

61.00



-15.00 -7.00

56.50



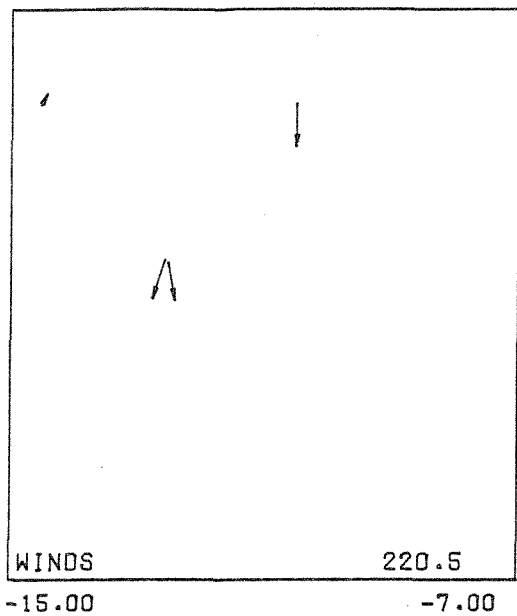
-15.00 -7.00

LONGITUDE

LONGITUDE

DAY 219

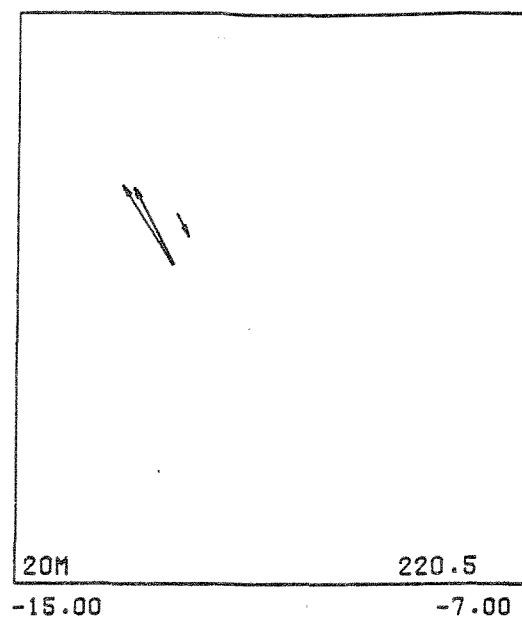
10 M/S (WINDS)



LATITUDE

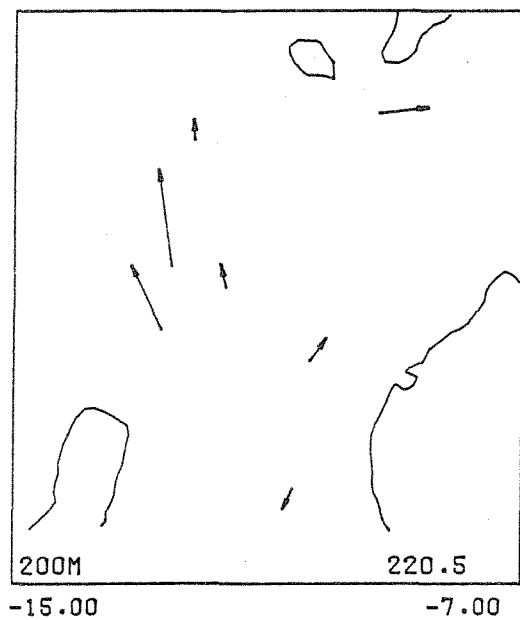
20 CM/S (CURRENTS)

61.00



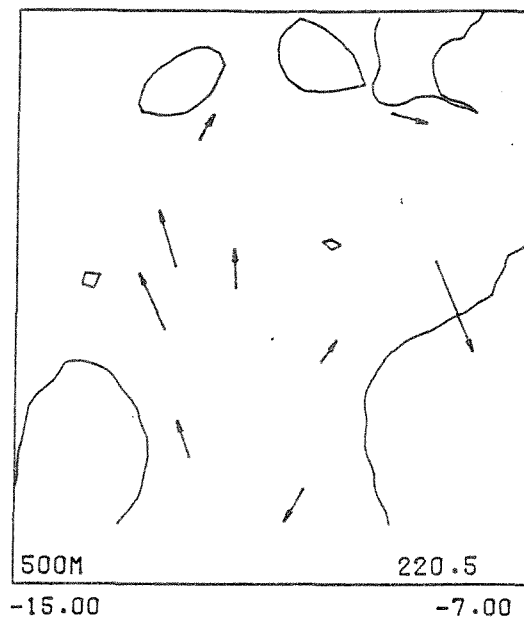
56.50

61.00



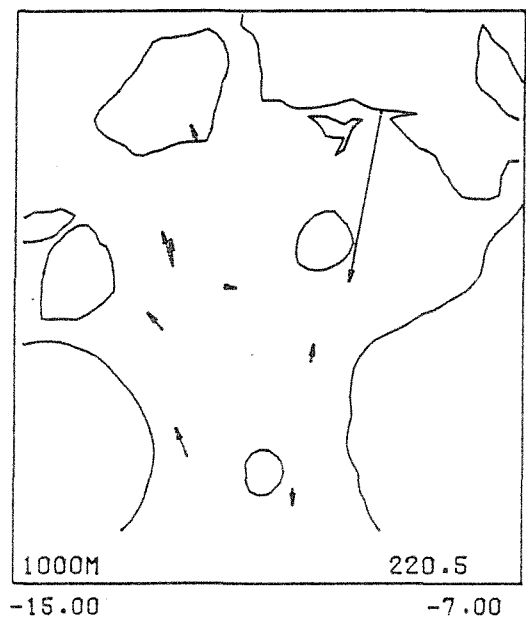
56.50

61.00



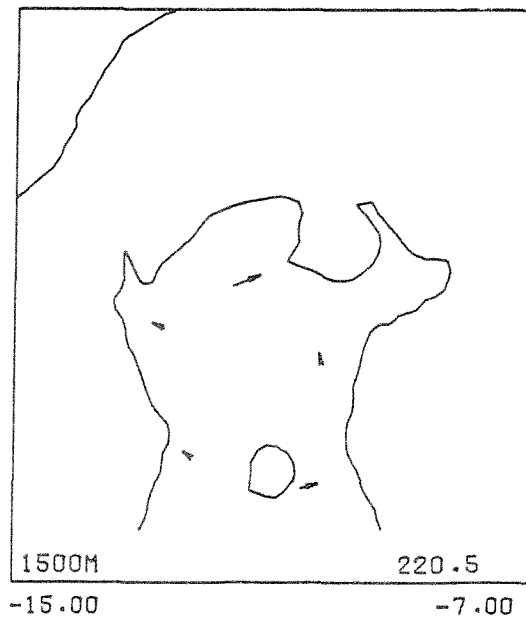
-15.00

-7.00



56.50

61.00



-15.00

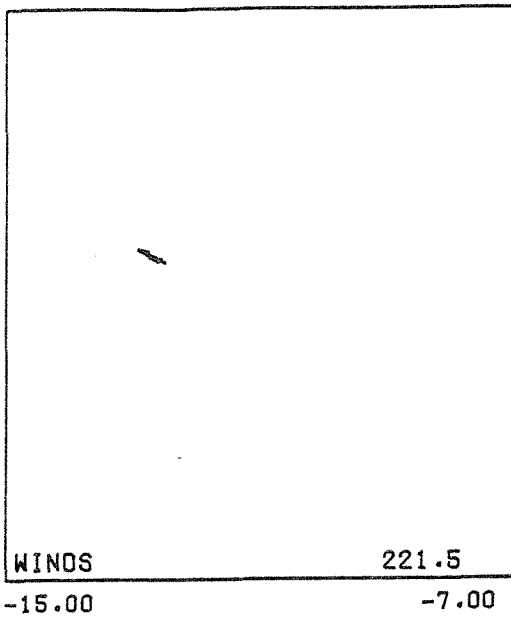
-7.00

LONGITUDE

LONGITUDE

DAY 220

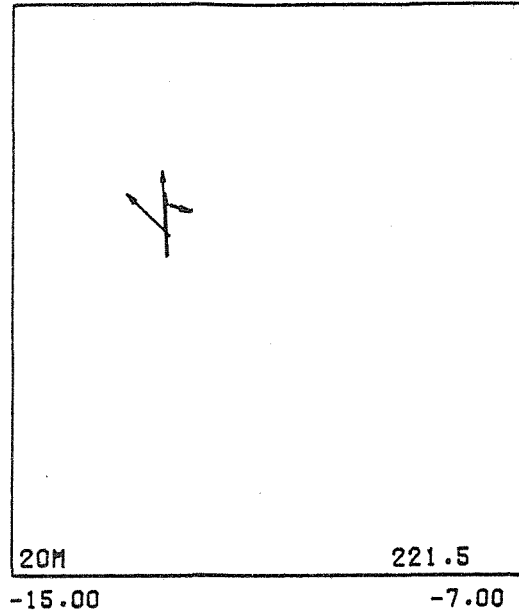
10 M/S (WINDS)



LATITUDE

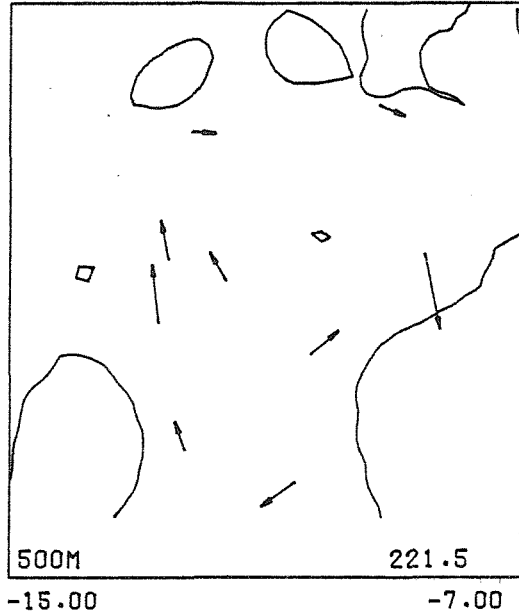
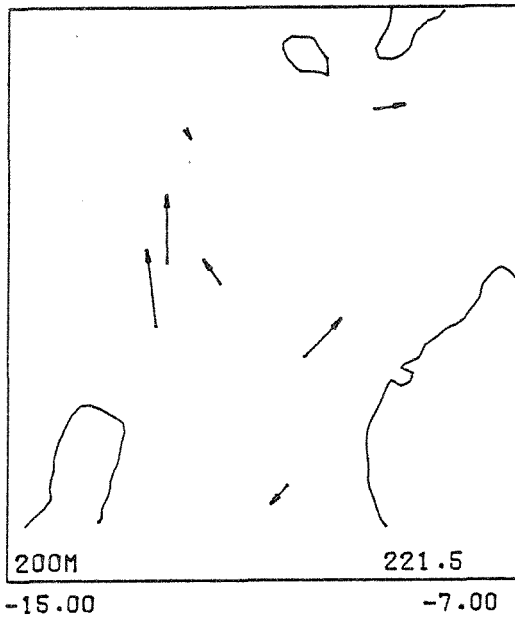
20 CM/S (CURRENTS)

61.00



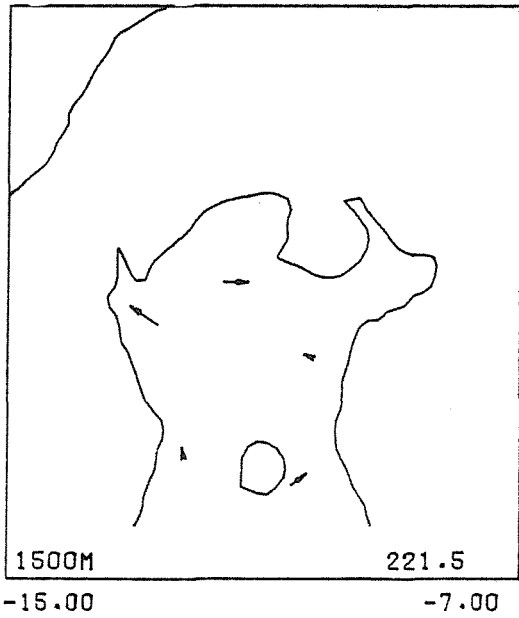
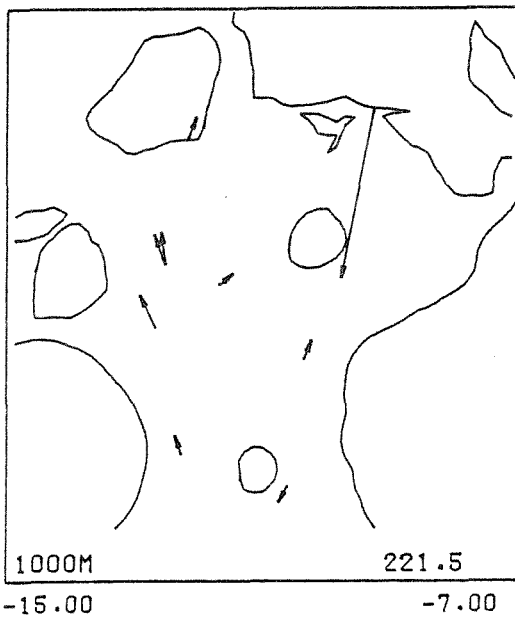
56.50

61.00



56.50

61.00



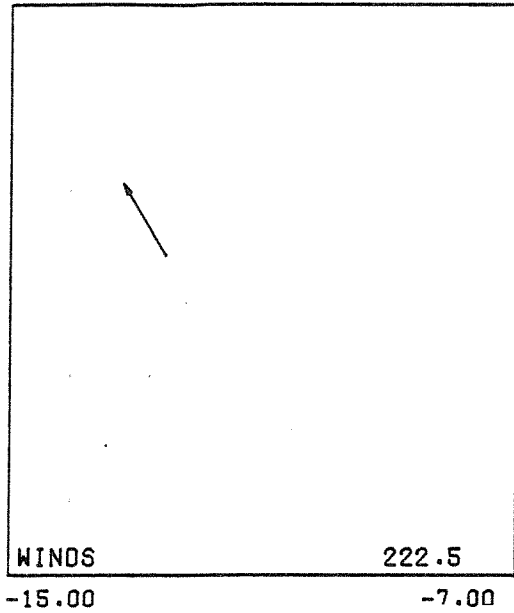
56.50

LONGITUDE

LONGITUDE

DAY 221

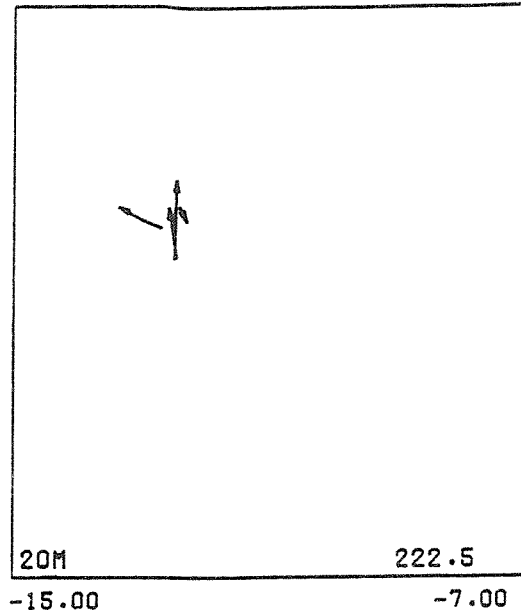
10 M/S (WINDS)



LATITUDE

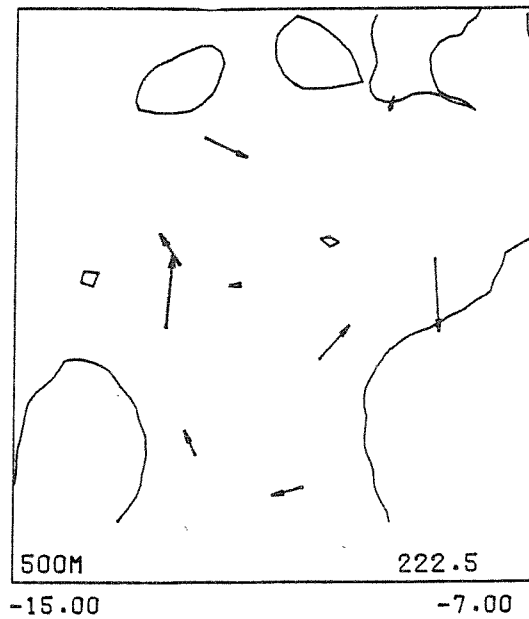
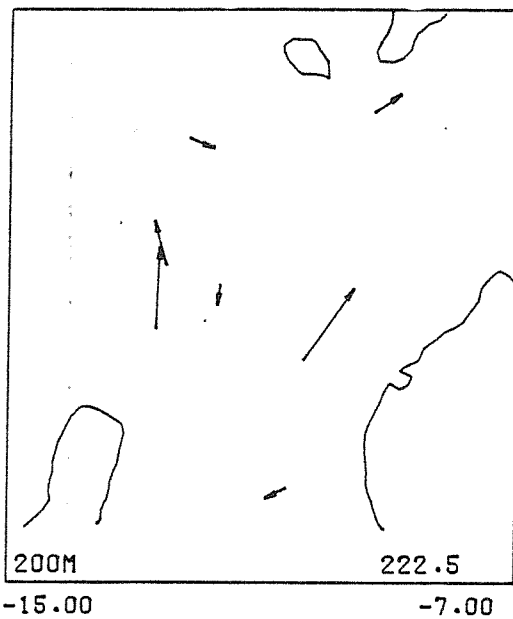
20 CM/S (CURRENTS)

61.00



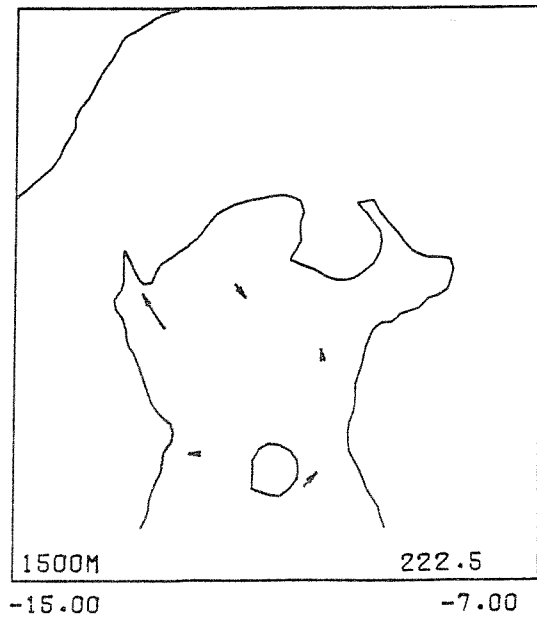
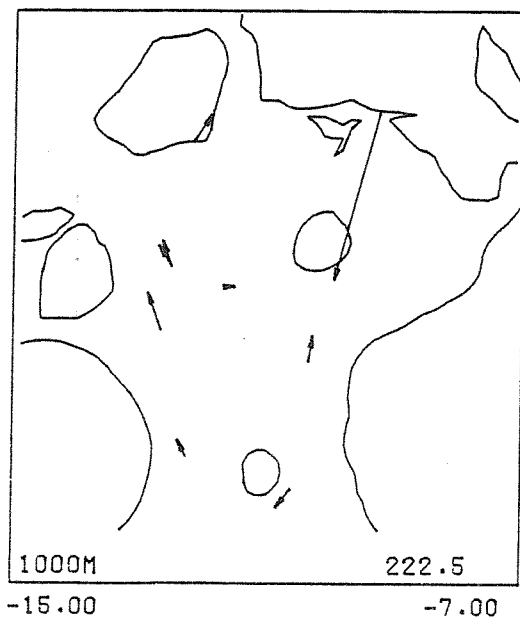
56.50

61.00



56.50

61.00



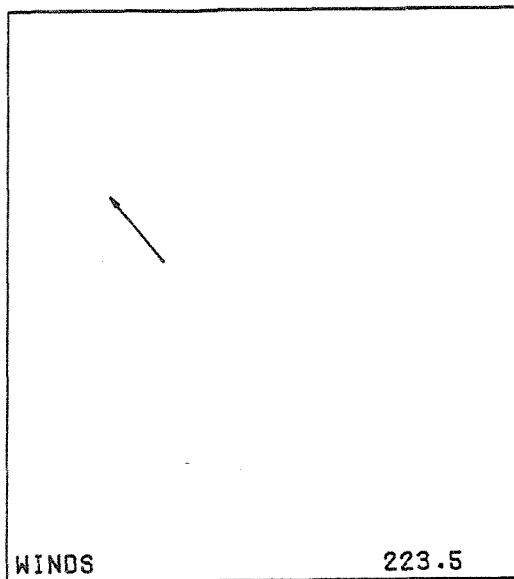
56.50

LONGITUDE

LONGITUDE

DAY 222

10 M/S (WINDS)

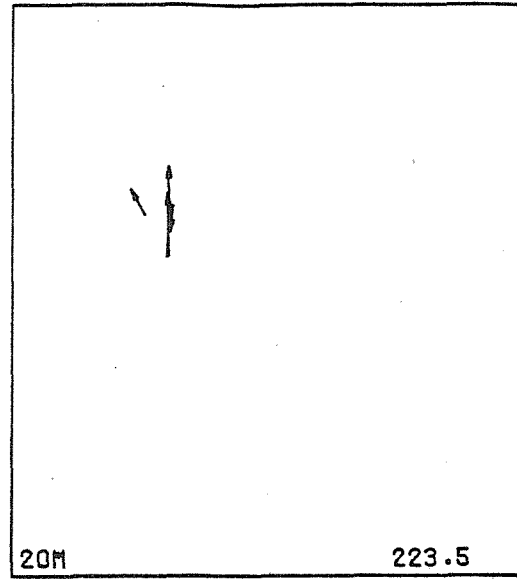


-15.00 -7.00

LATITUDE

61.00

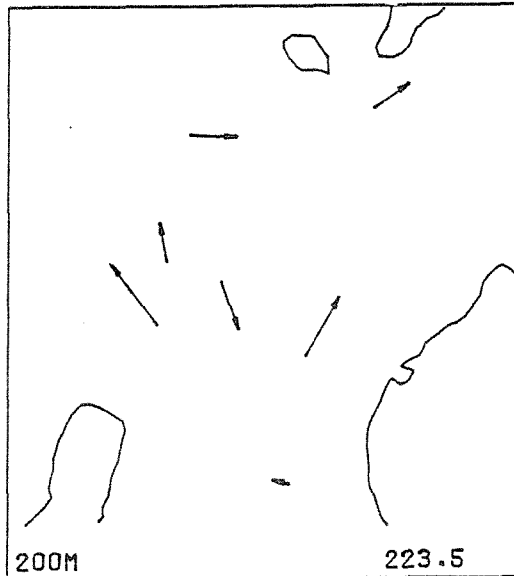
20 CM/S (CURRENTS)



-15.00 -7.00

56.50

61.00



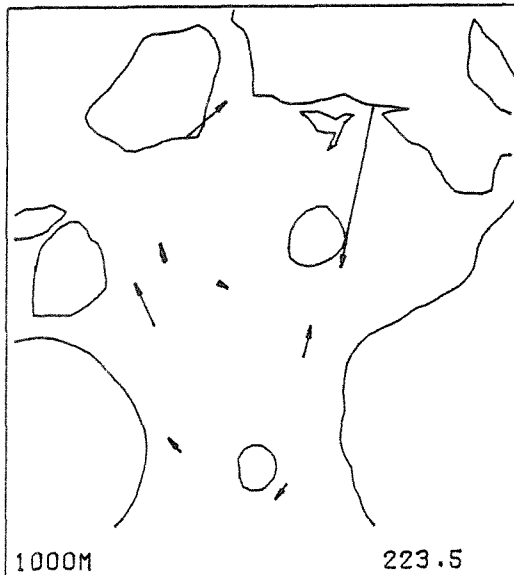
-15.00 -7.00



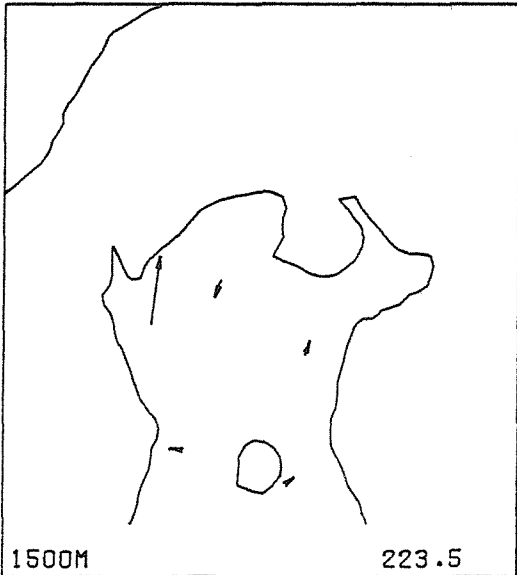
-15.00 -7.00

56.50

61.00



-15.00 -7.00



-15.00 -7.00

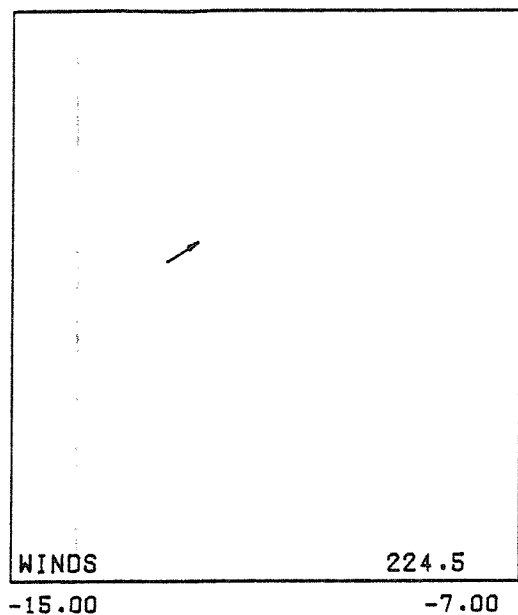
56.50

LONGITUDE

LONGITUDE

DAY 223

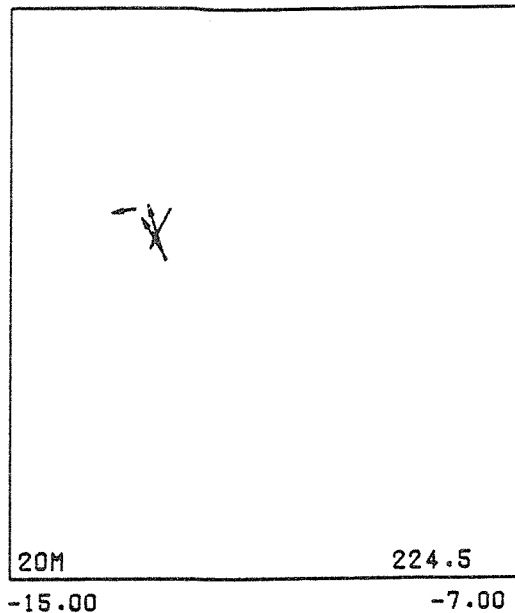
10 M/S (WINDS)



LATITUDE

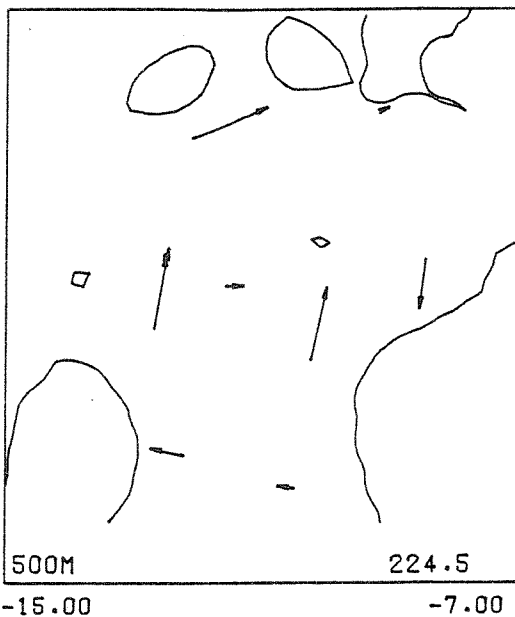
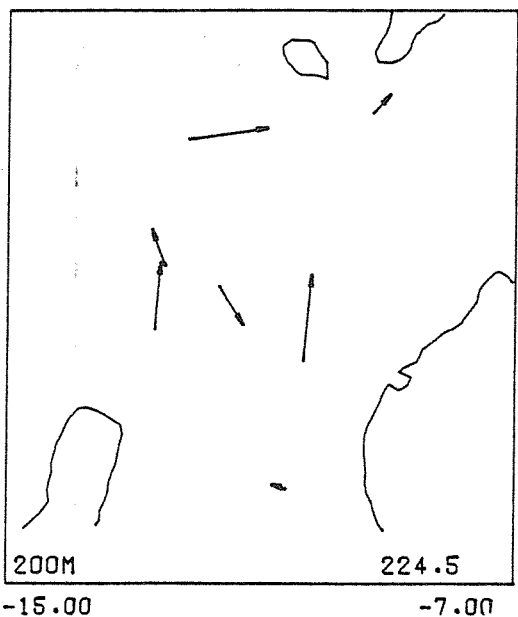
20 CM/S (CURRENTS)

61.00



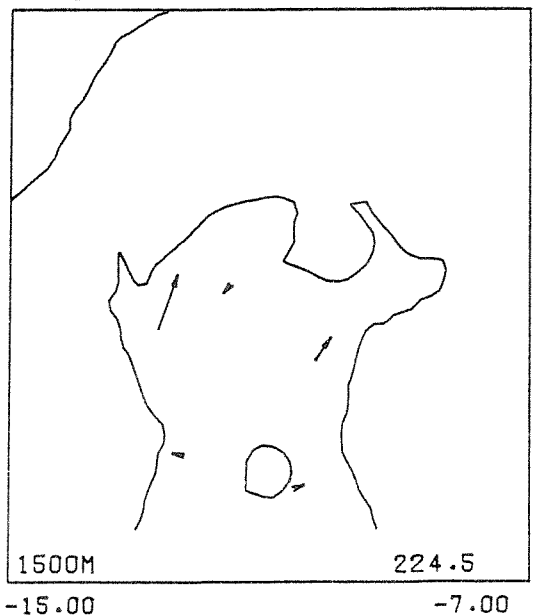
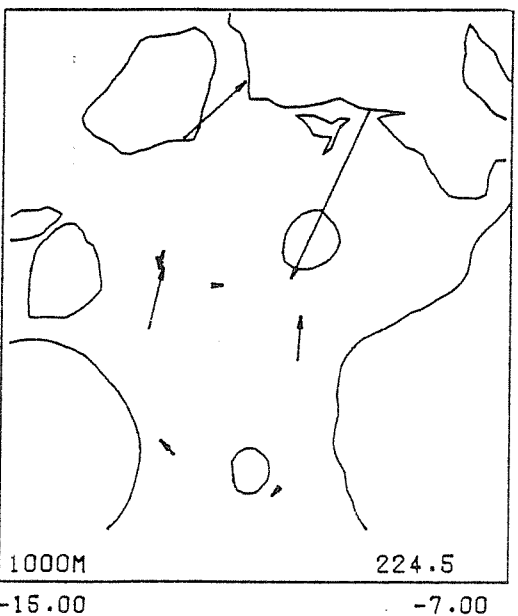
56.50

61.00



56.50

61.00

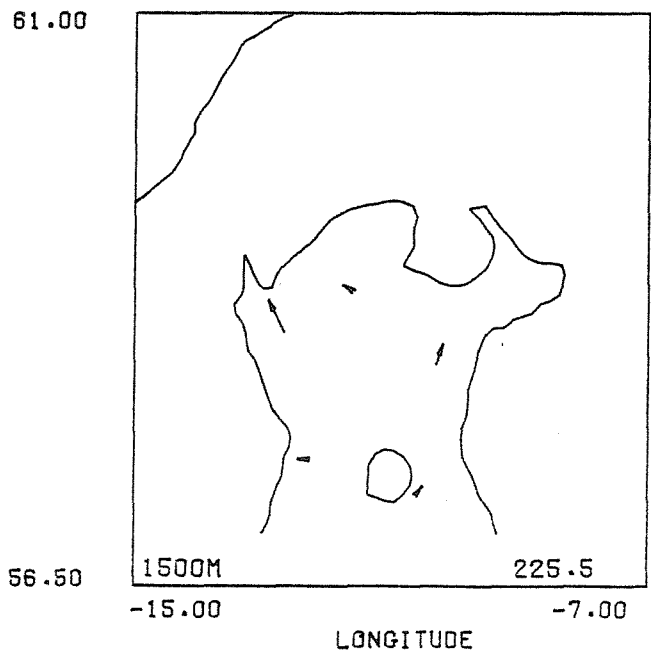
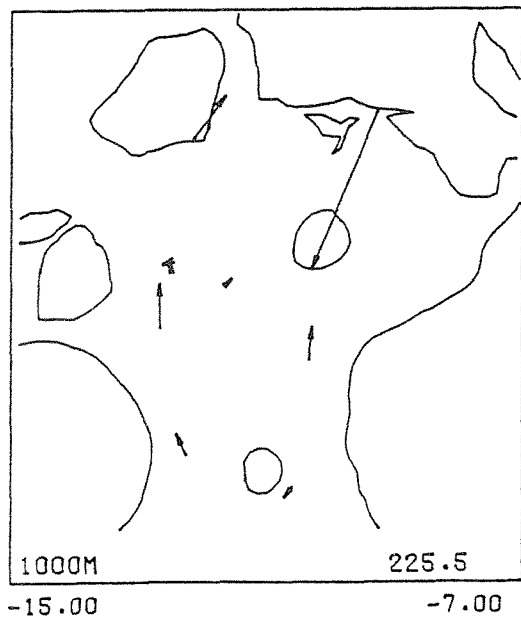
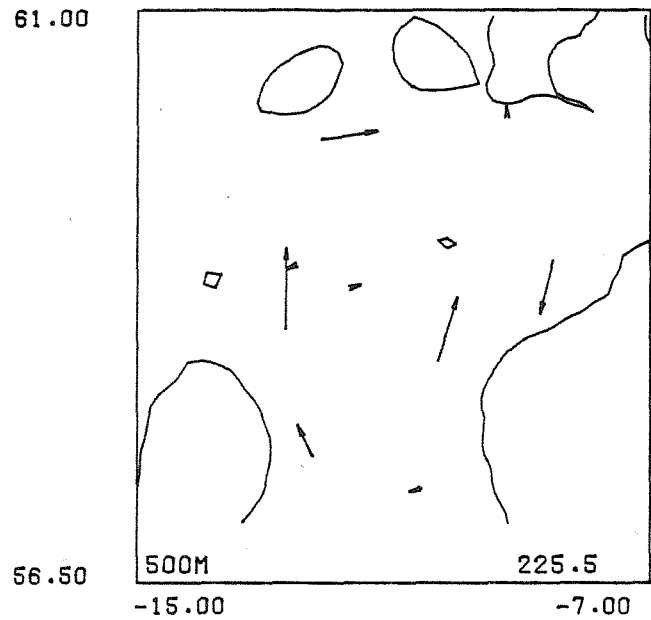
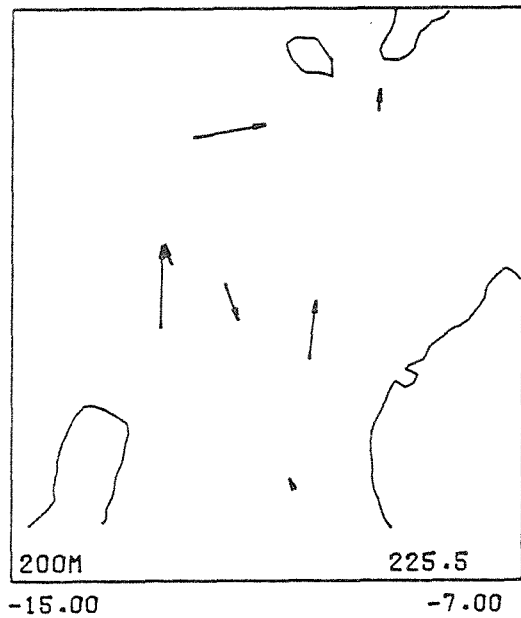
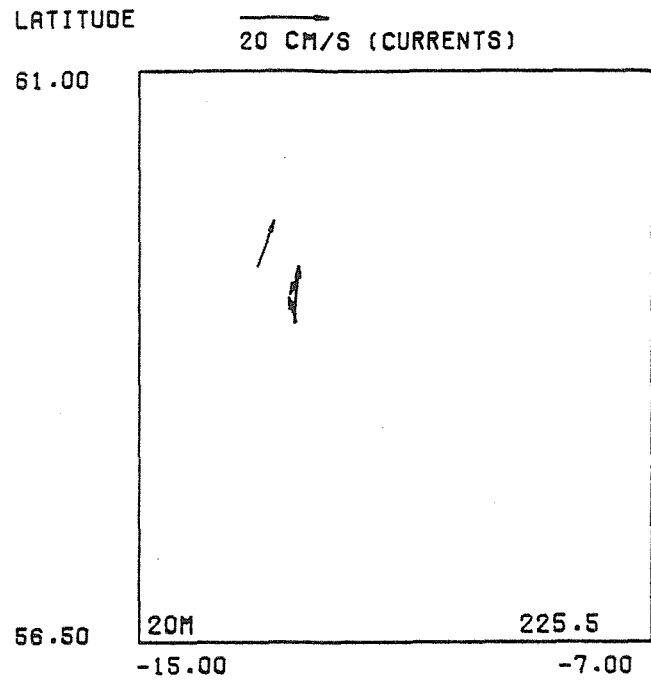
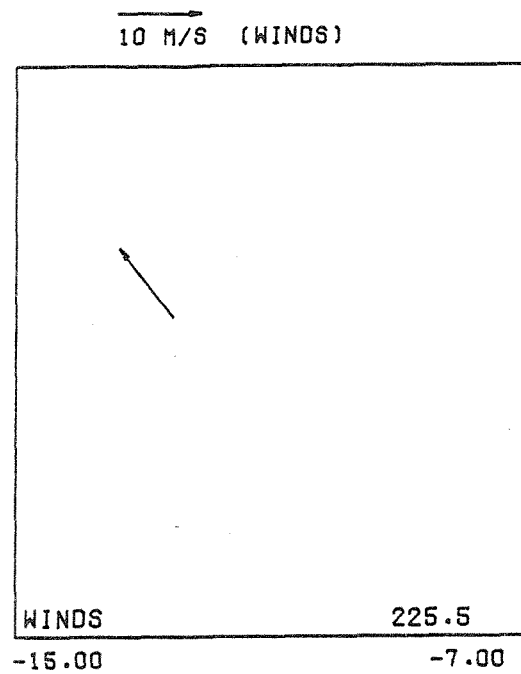


56.50

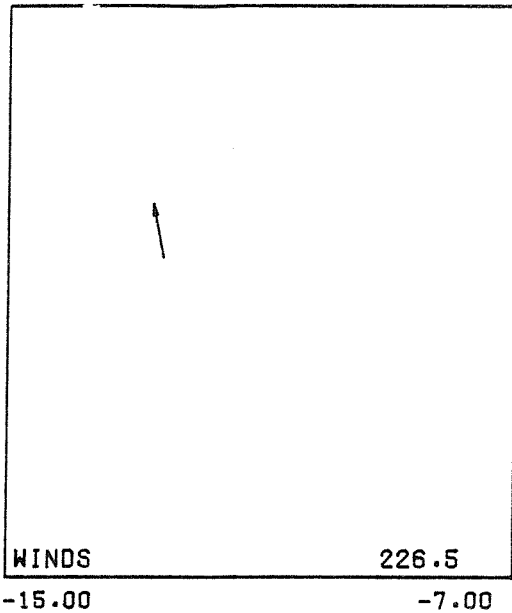
LONGITUDE

LONGITUDE

DAY 224



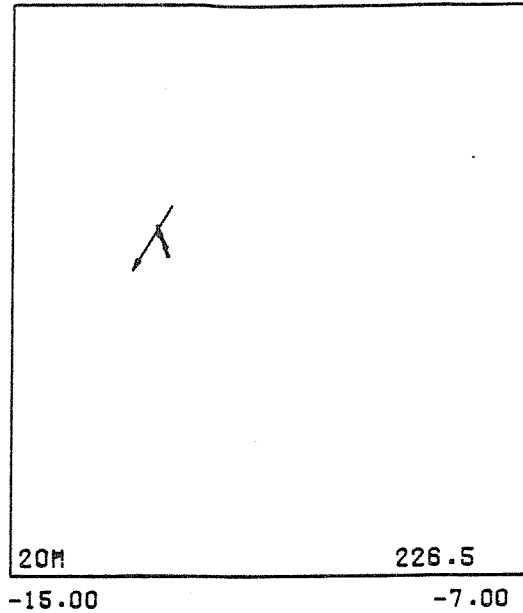
10 M/S (WINDS)



LATITUDE

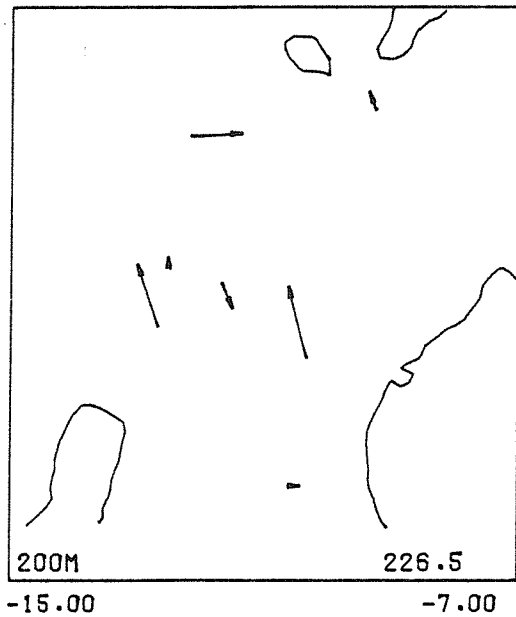
20 CM/S (CURRENTS)

61.00



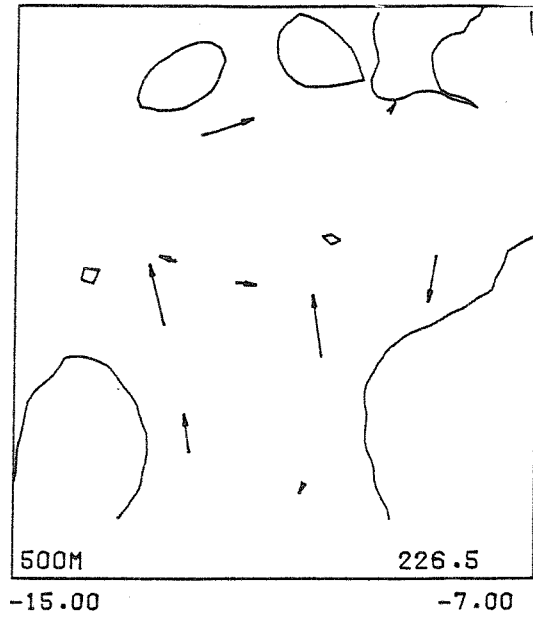
56.50

61.00



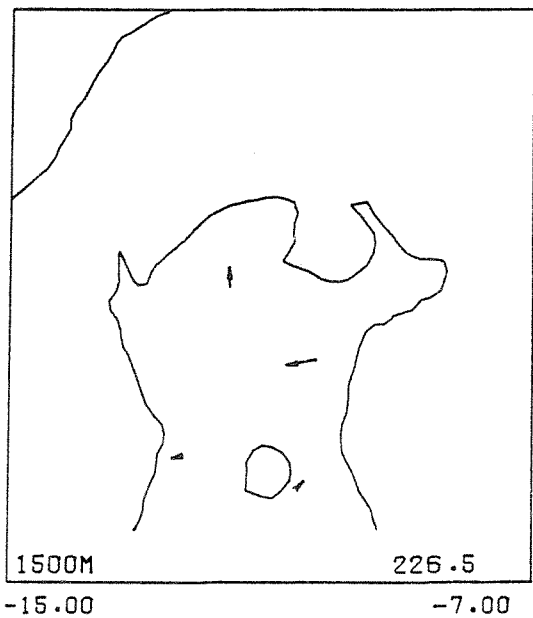
56.50

61.00



56.50

61.00



56.50

61.00

1500M

226.5

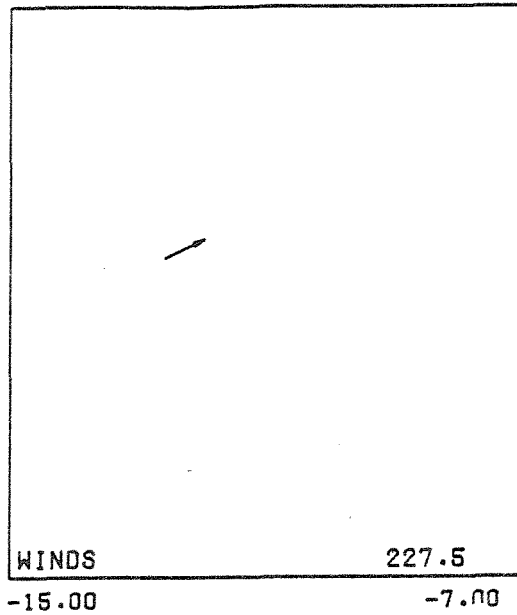
-15.00

-7.00

LONGITUDE

DAY 226

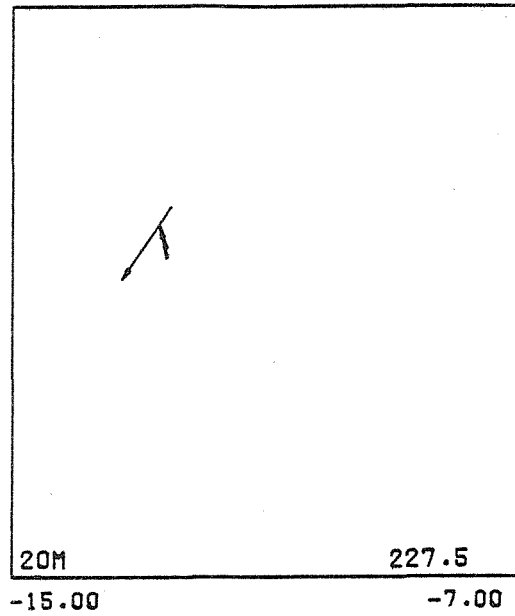
10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00



56.50

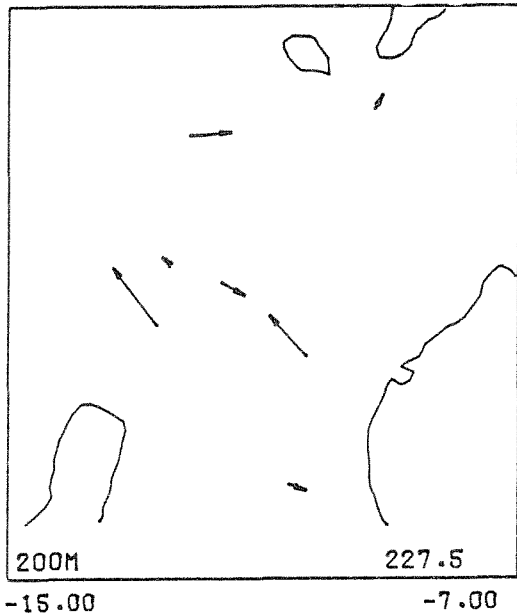
20M

227.5

-15.00

-7.00

61.00



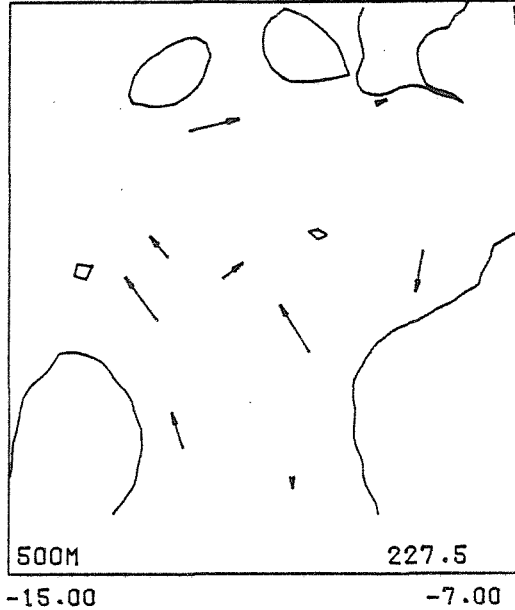
200M

227.5

-15.00

-7.00

56.50



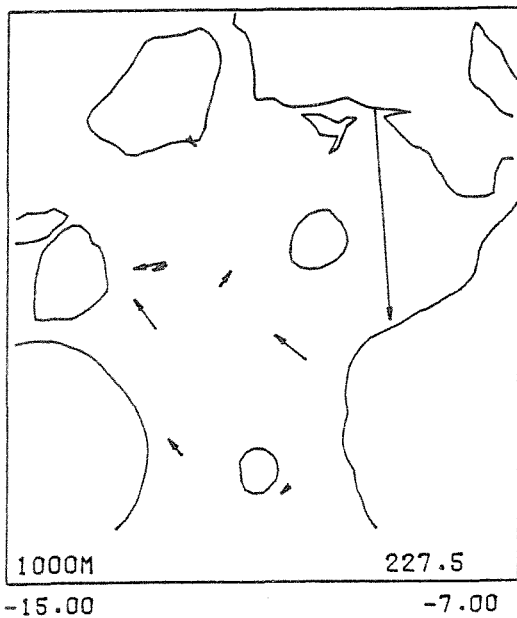
500M

227.5

-15.00

-7.00

61.00



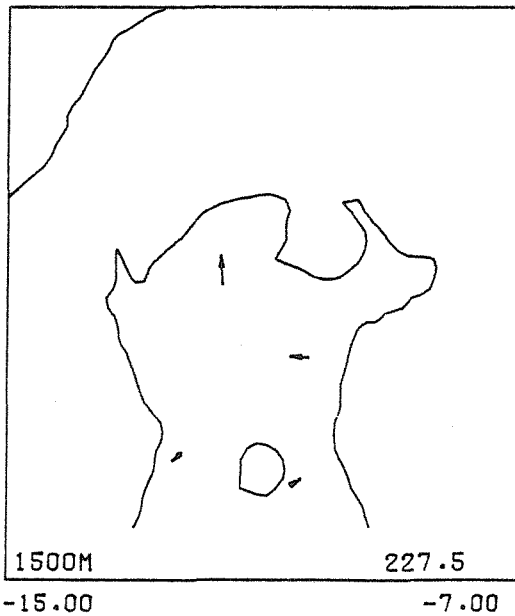
1000M

227.5

-15.00

-7.00

56.50



1500M

227.5

-15.00

-7.00

LONGITUDE

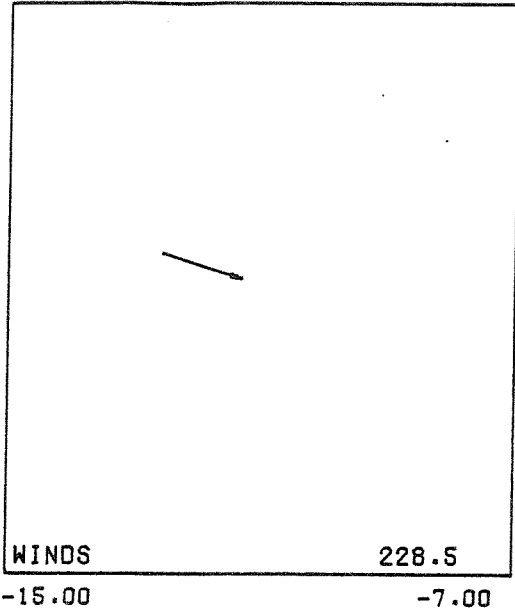
LONGITUDE

DAY 227

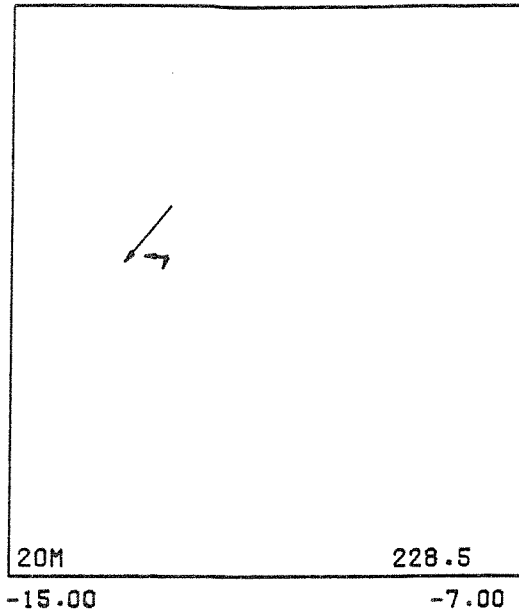
10 M/S (WINDS)

LATITUDE

20 CM/S (CURRENTS)



61.00

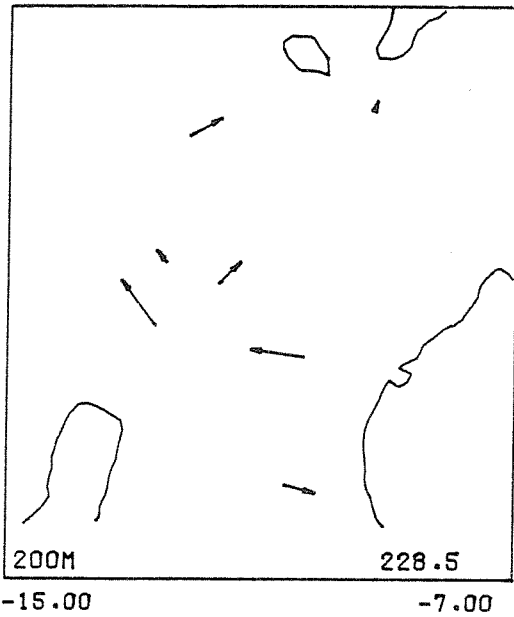


56.50

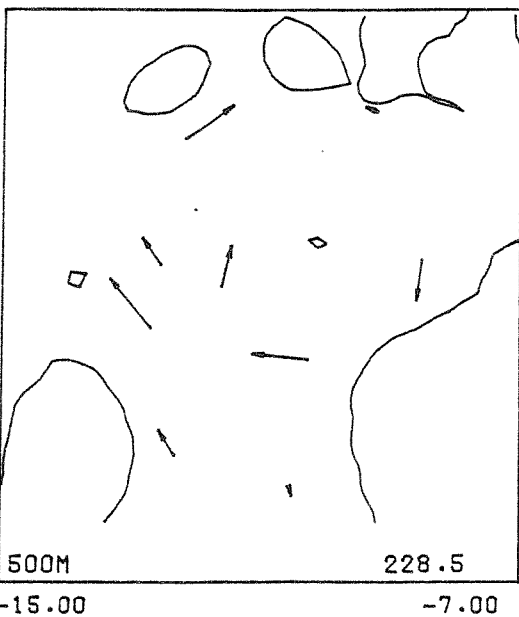
20M

228.5

-15.00 -7.00



61.00

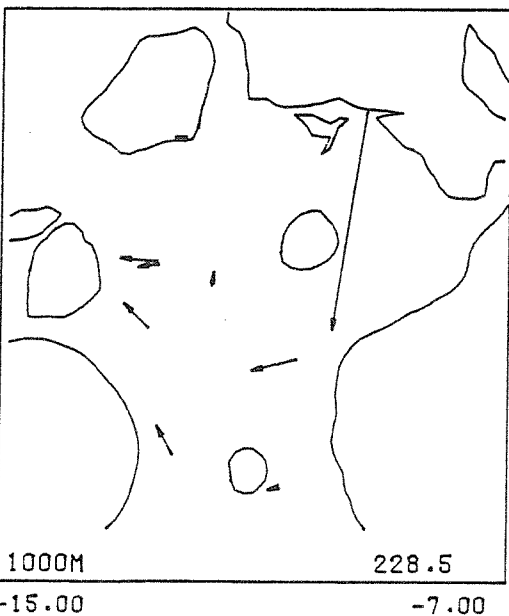


56.50

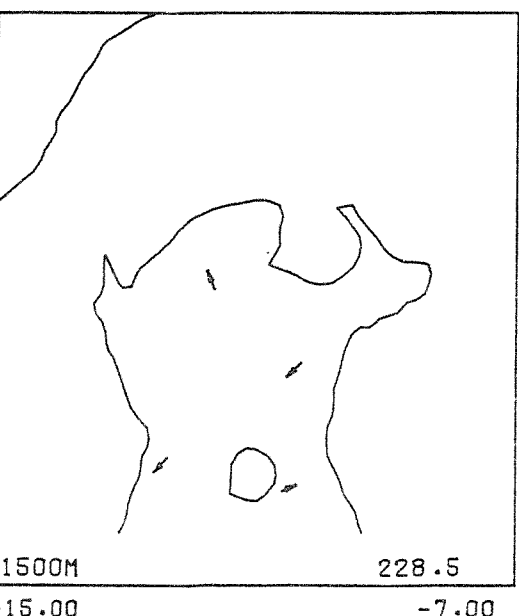
500M

228.5

-15.00 -7.00



61.00



56.50

1500M

228.5

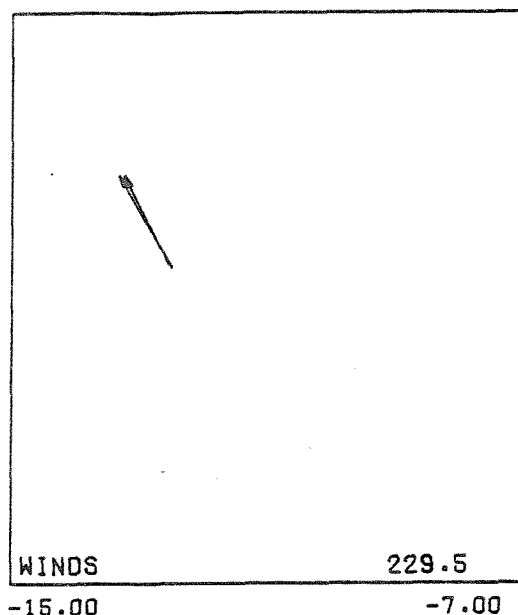
-15.00 -7.00

LONGITUDE

LONGITUDE

DAY 228

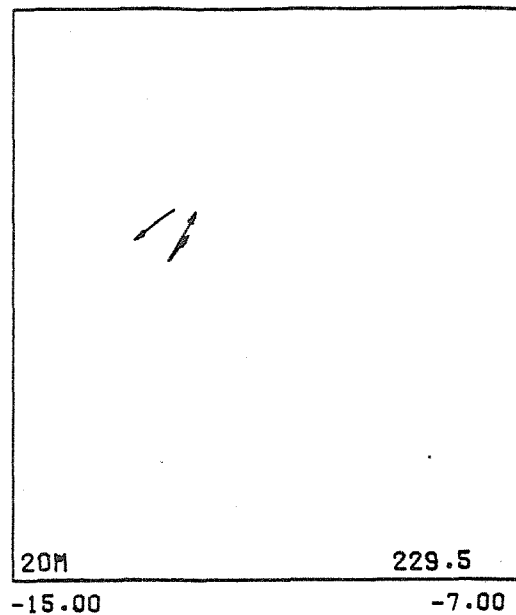
10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00



56.50

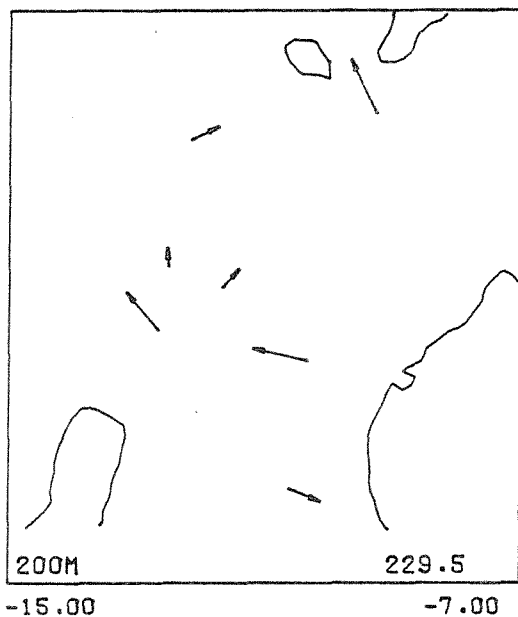
20M

229.5

-15.00

-7.00

61.00



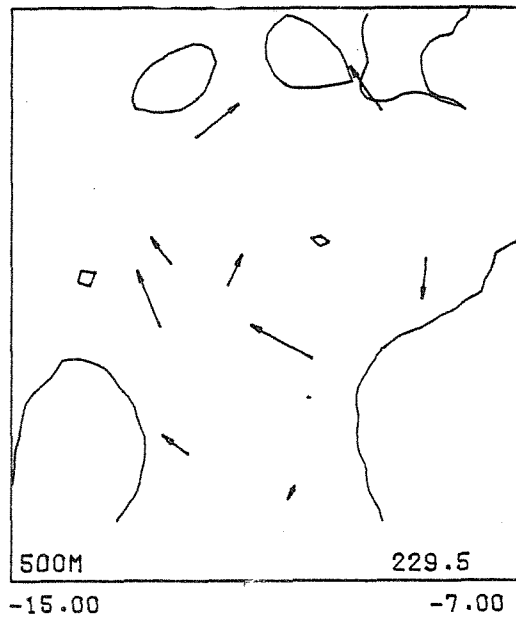
200M

229.5

-15.00

-7.00

56.50



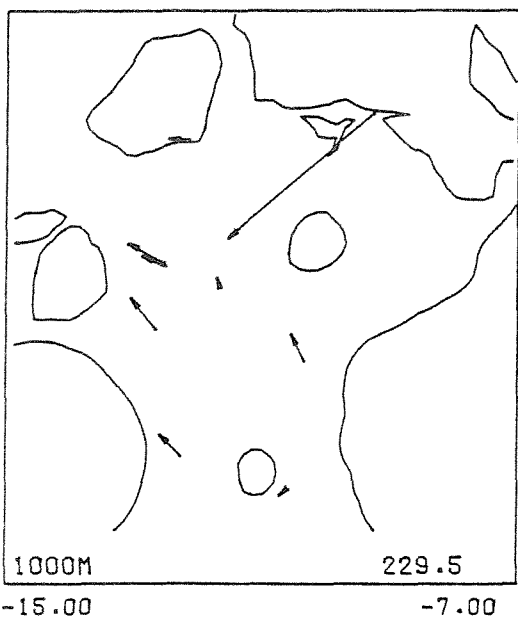
500M

229.5

-15.00

-7.00

61.00



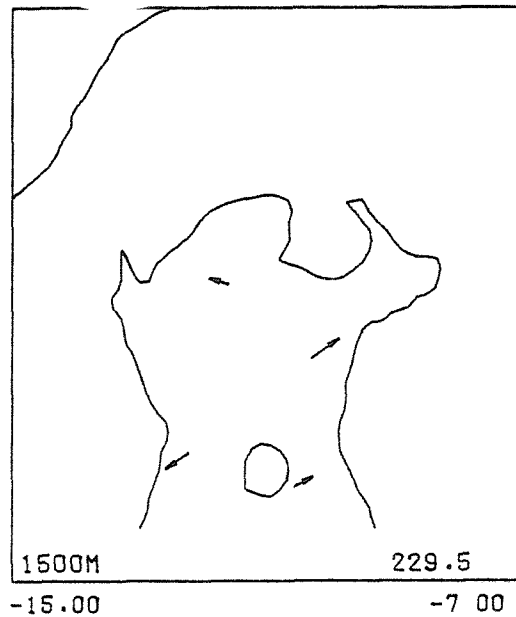
1000M

229.5

-15.00

-7.00

56.50



1500M

229.5

-15.00

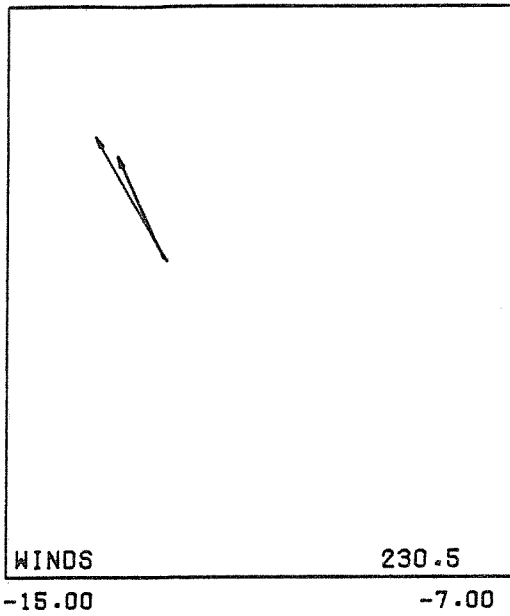
-7.00

LONGITUDE

LONGITUDE

DAY 229

10 M/S (WINDS)



LATITUDE

61.00

56.50

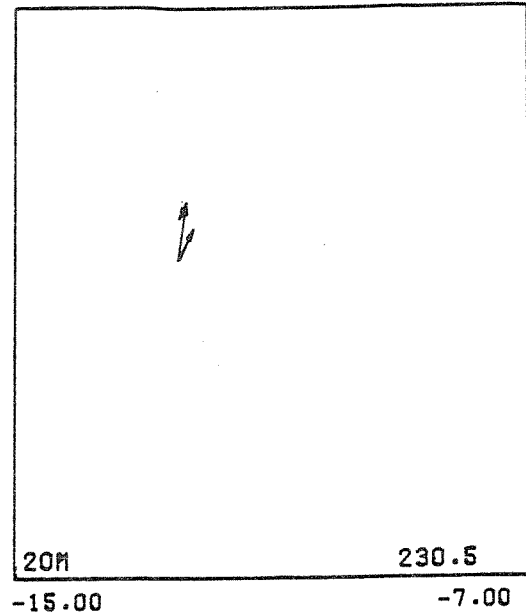
61.00

56.50

61.00

56.50

20 CM/S (CURRENTS)



-15.00

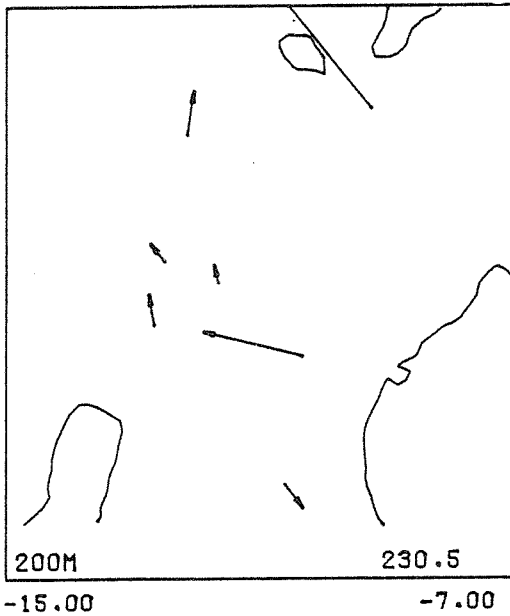
-7.00

-15.00

-7.00

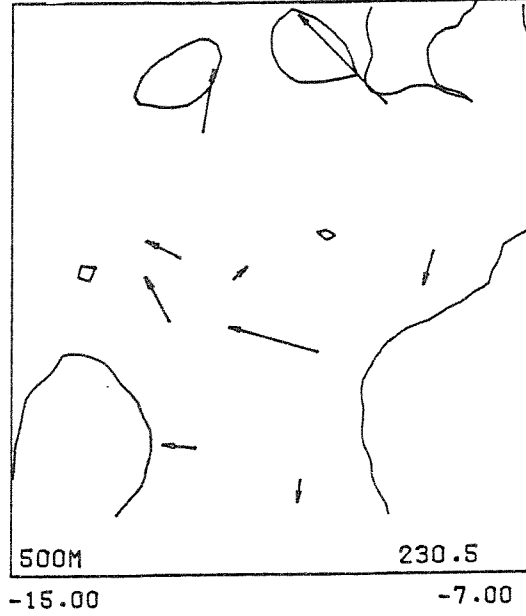
-15.00

-7.00



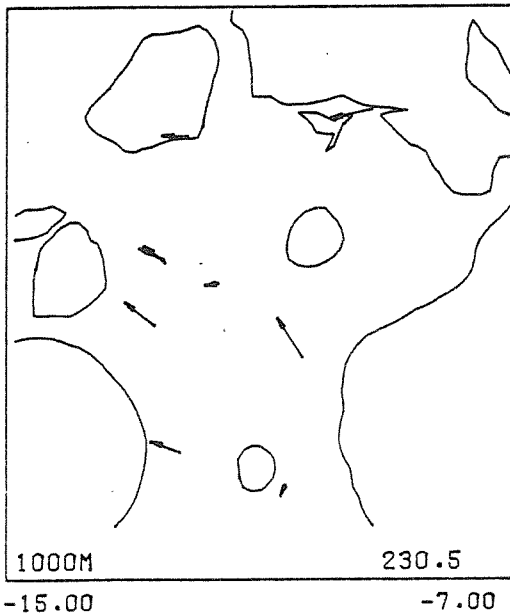
-15.00

-7.00



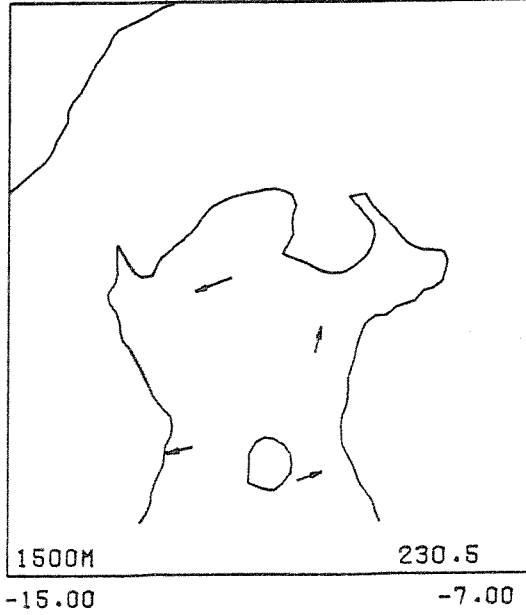
-15.00

-7.00



-15.00

-7.00



-15.00

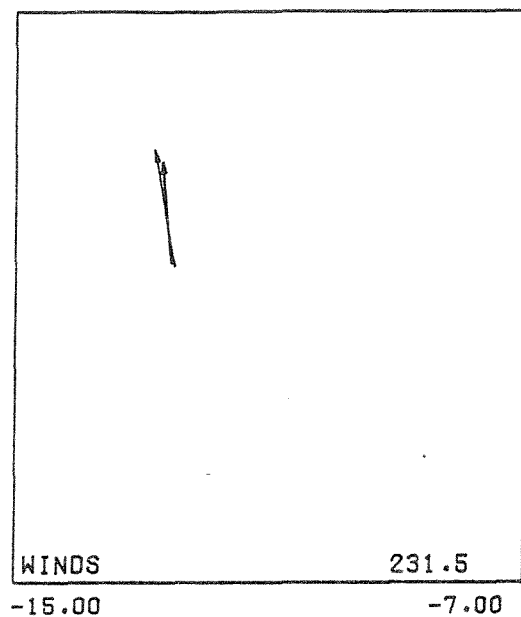
-7.00

LONGITUDE

LONGITUDE

DAY 230

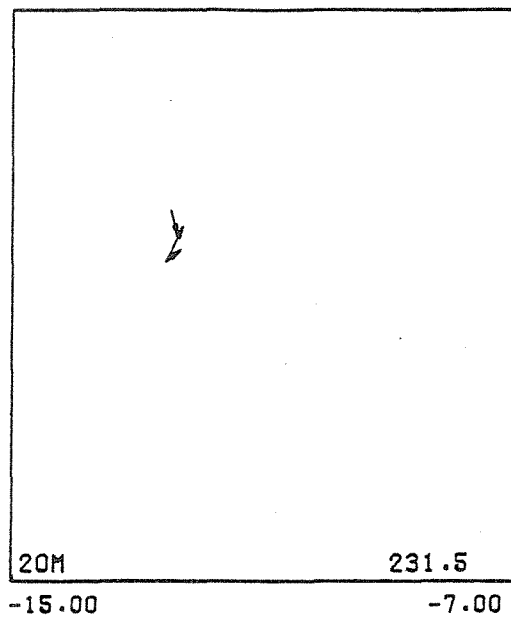
10 M/S (WINDS)



LATITUDE

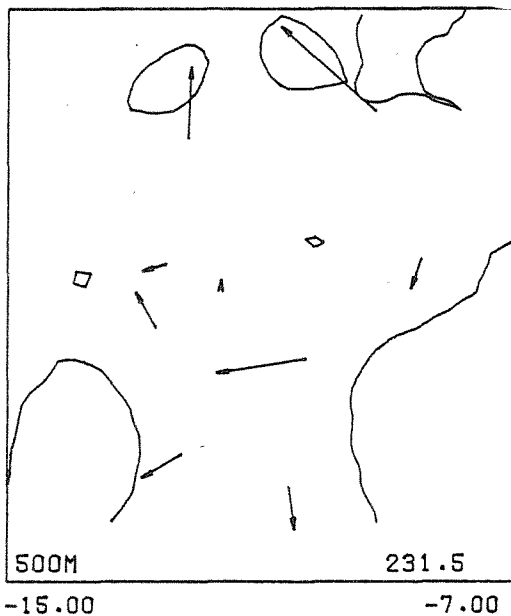
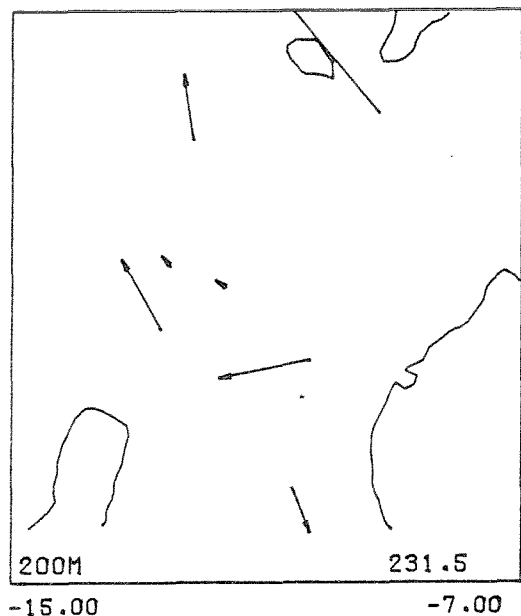
20 CM/S (CURRENTS)

61.00



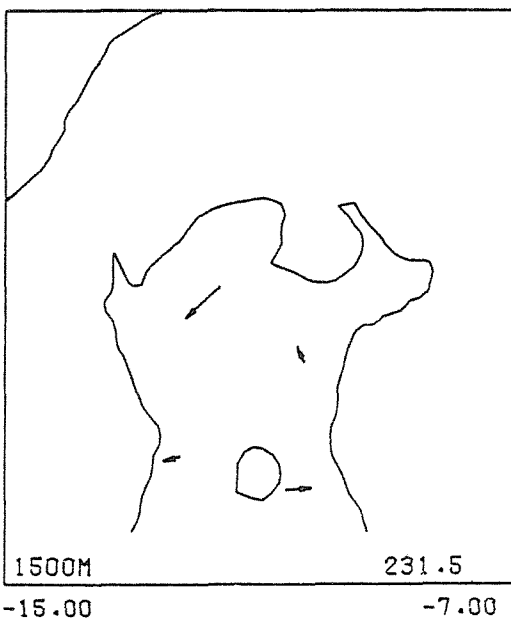
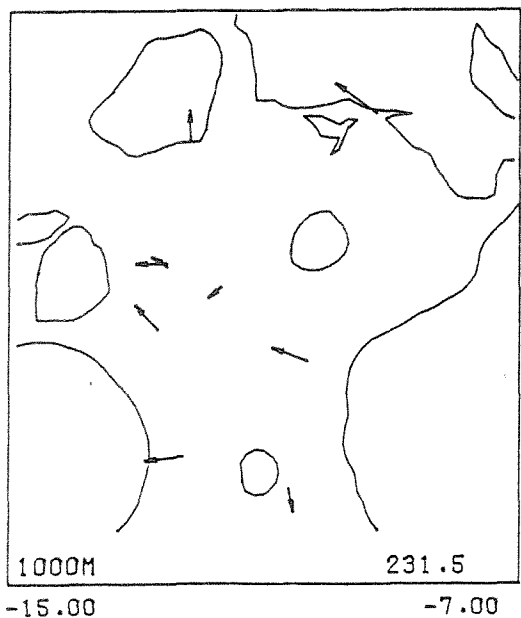
56.50

61.00



56.50

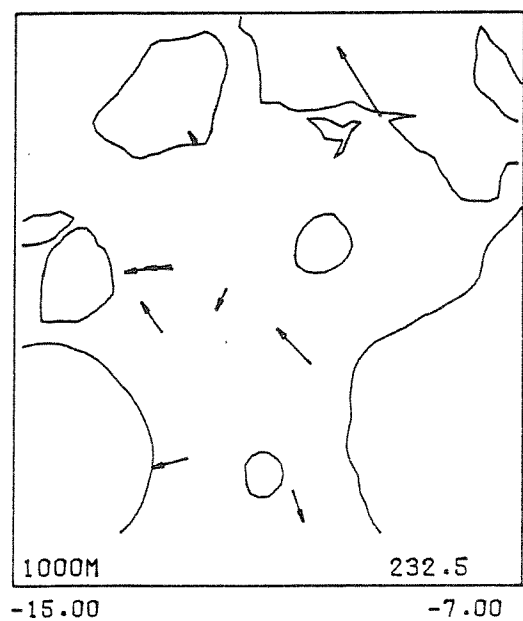
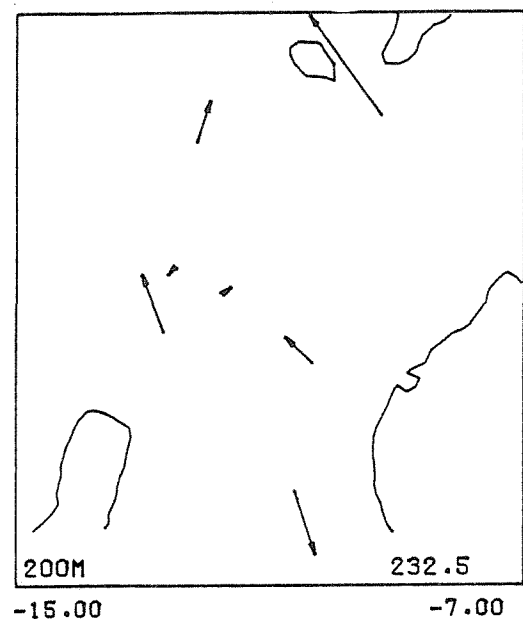
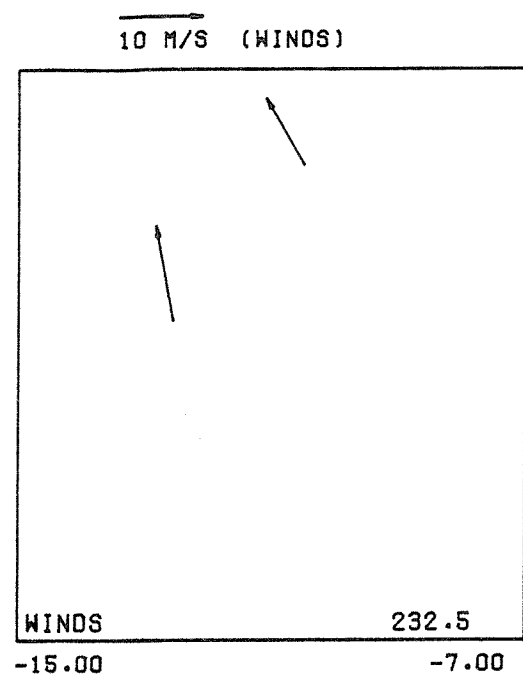
61.00



56.50

LONGITUDE

DAY 231



LATITUDE

61.00

56.50

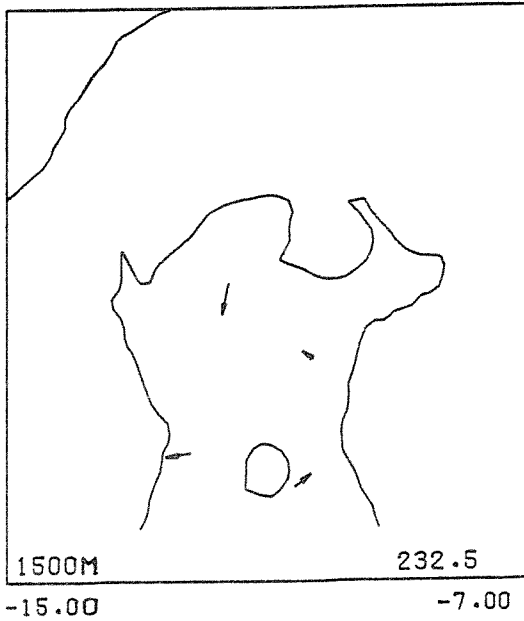
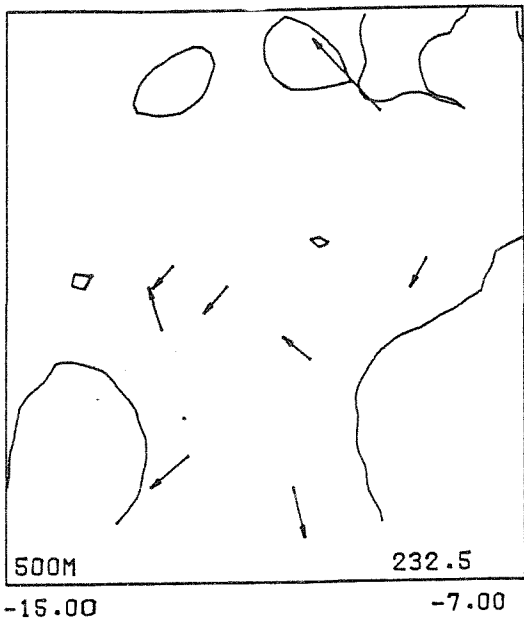
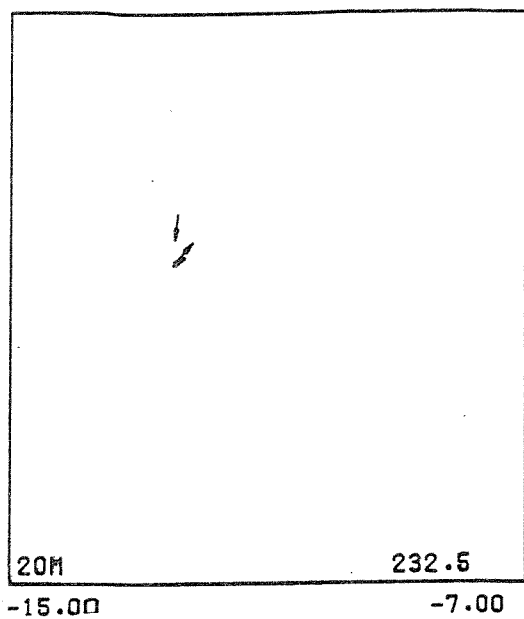
61.00

56.50

61.00

56.50

20 CM/S (CURRENTS)

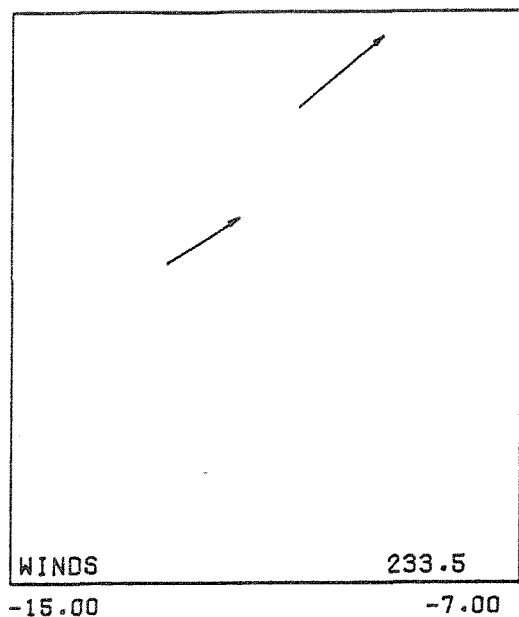


LONGITUDE

LONGITUDE

DAY 232

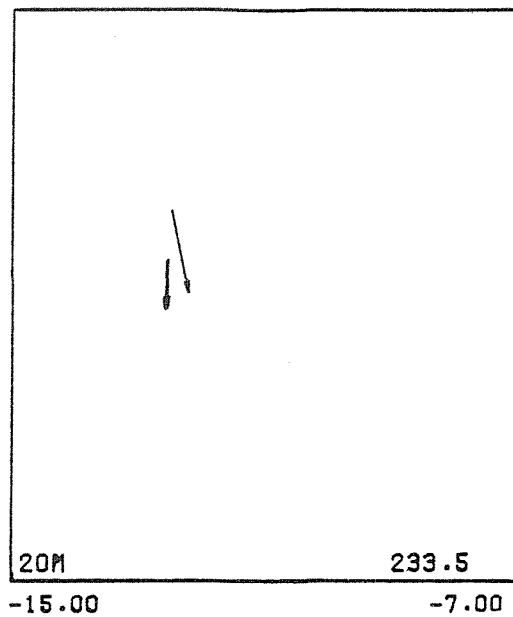
10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00

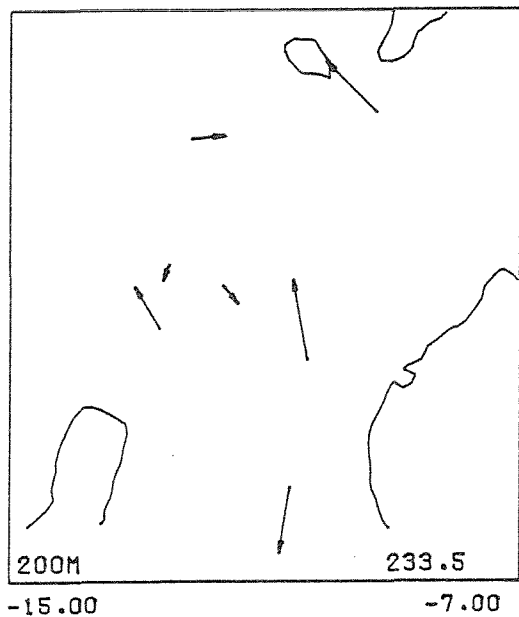


56.50

-15.00

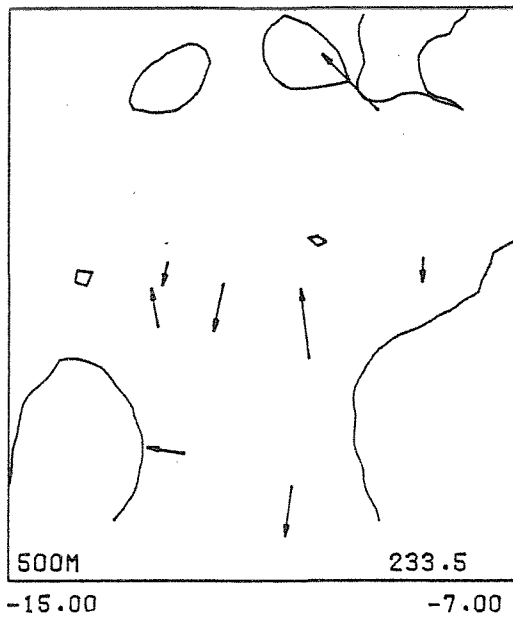
-7.00

61.00



-15.00

-7.00

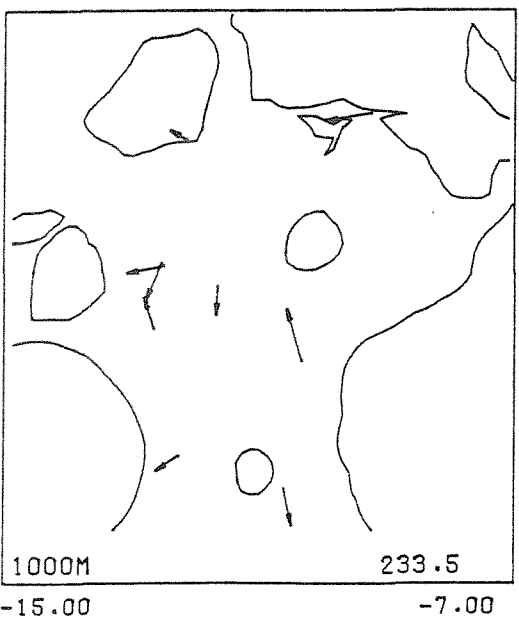


56.50

-15.00

-7.00

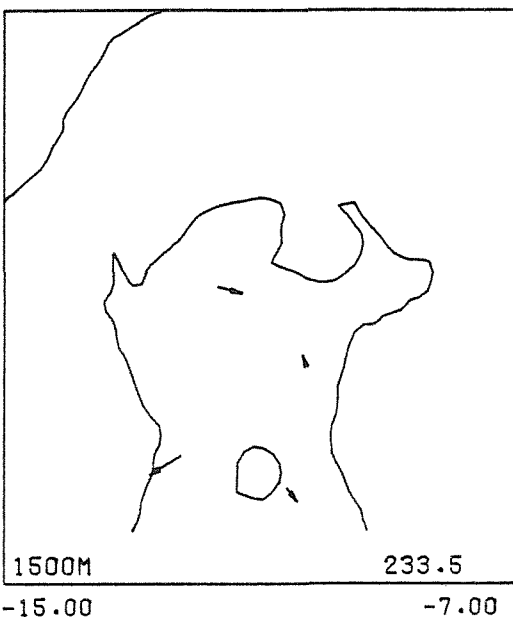
61.00



-15.00

-7.00

LONGITUDE



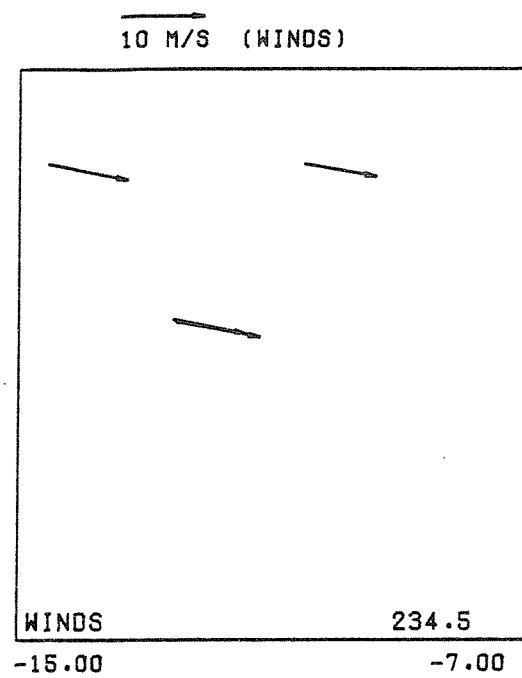
56.50

-15.00

-7.00

LONGITUDE

DAY 233



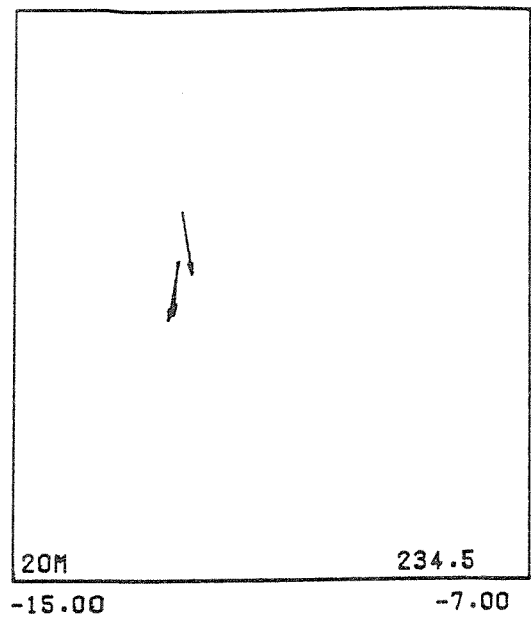
LATITUDE

61.00

56.50

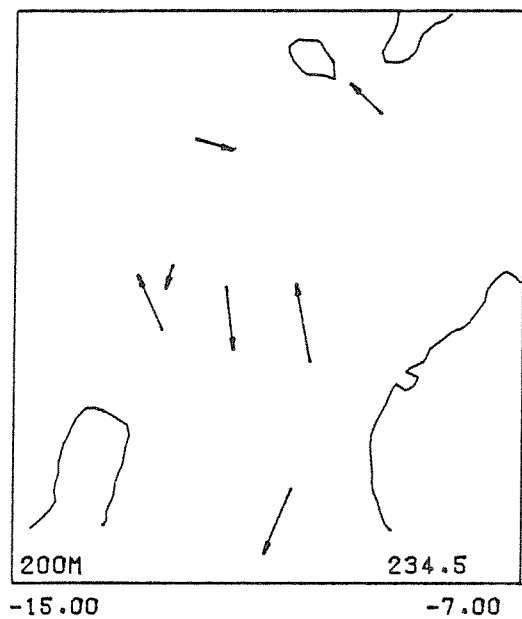
61.00

20 CM/S (CURRENTS)



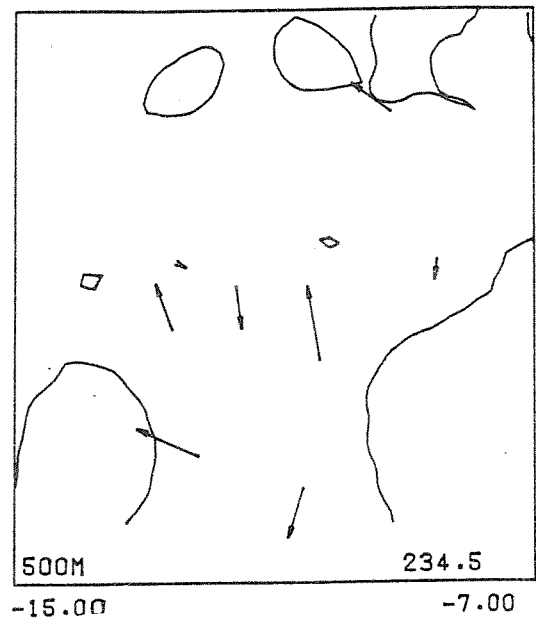
-15.00

-7.00



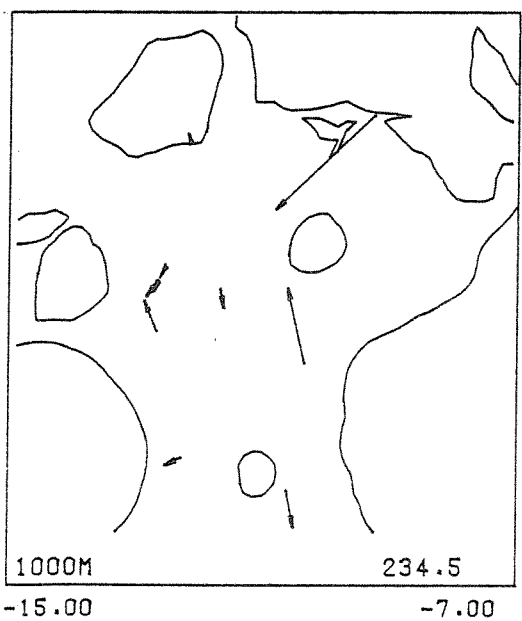
56.50

61.00



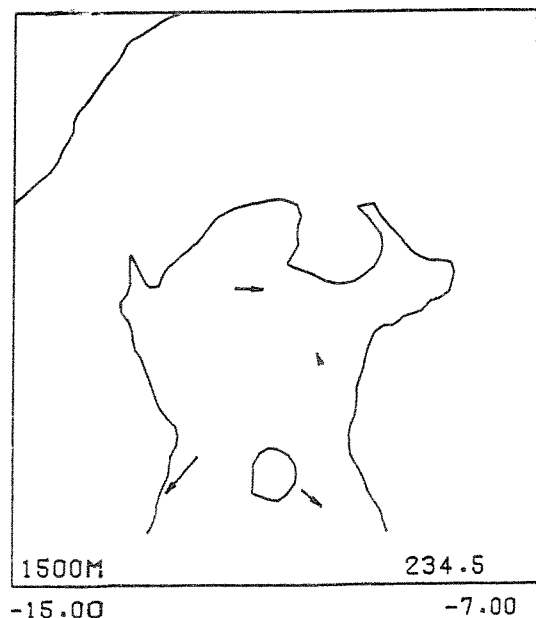
-15.00

-7.00



56.50

61.00



-15.00

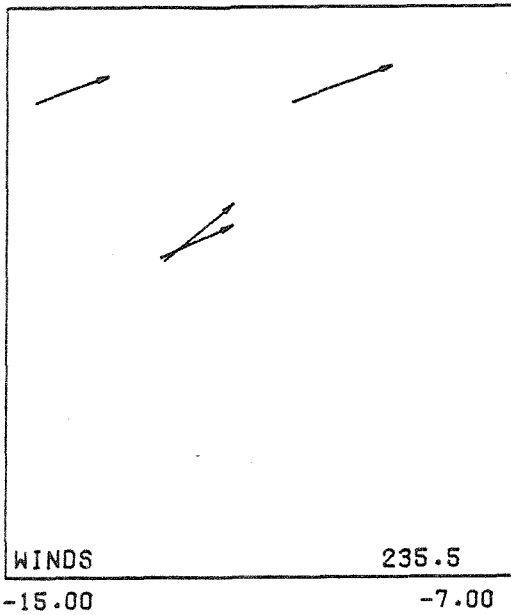
-7.00

LONGITUDE

LONGITUDE

DAY 234

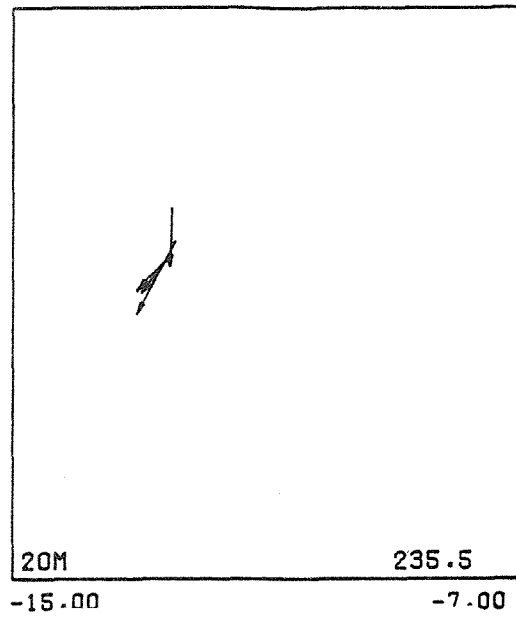
10 M/S (WINDS)



LATITUDE

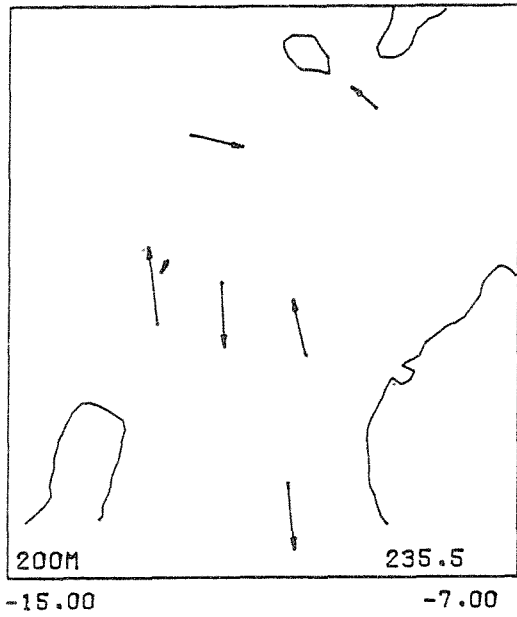
20 CM/S (CURRENTS)

61.00



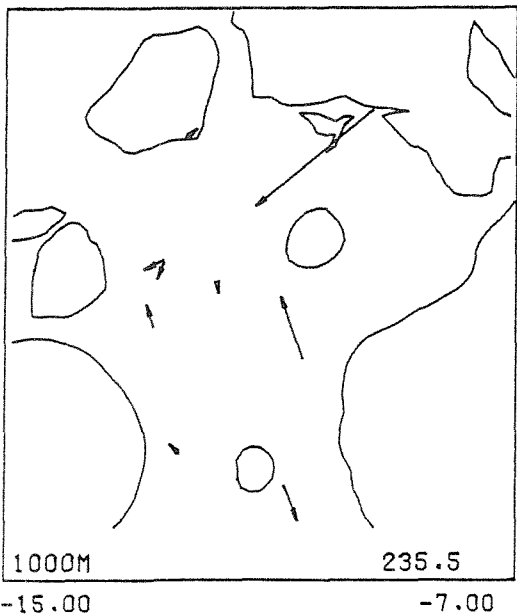
56.50

61.00



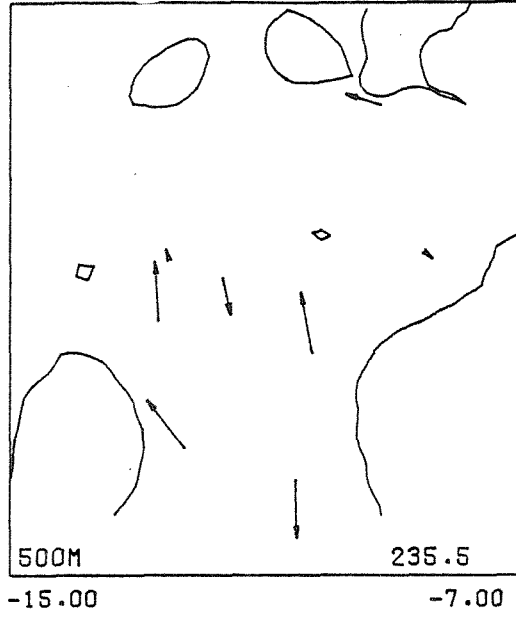
56.50

61.00



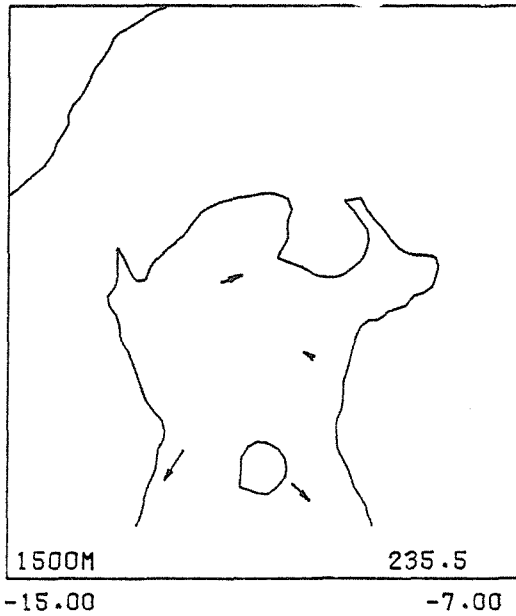
56.50

61.00



-15.00

-7.00



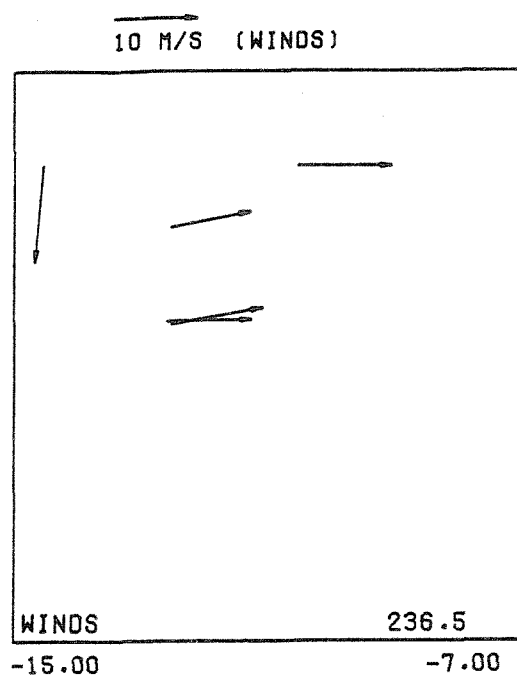
-15.00

-7.00

LONGITUDE

LONGITUDE

DAY 235



LATITUDE

20 CM/S (CURRENTS)

61.00

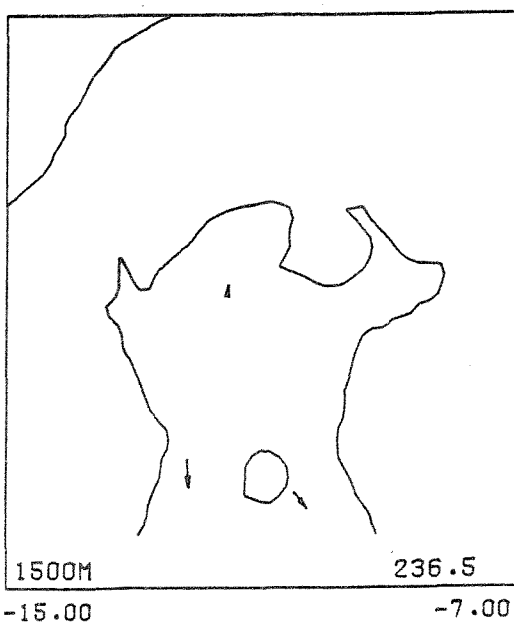
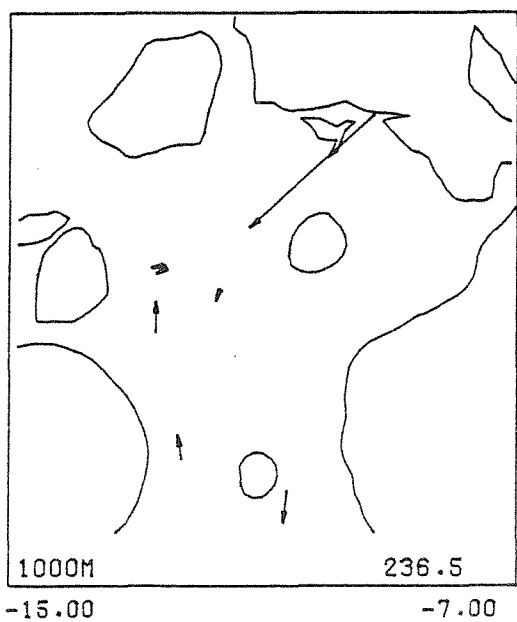
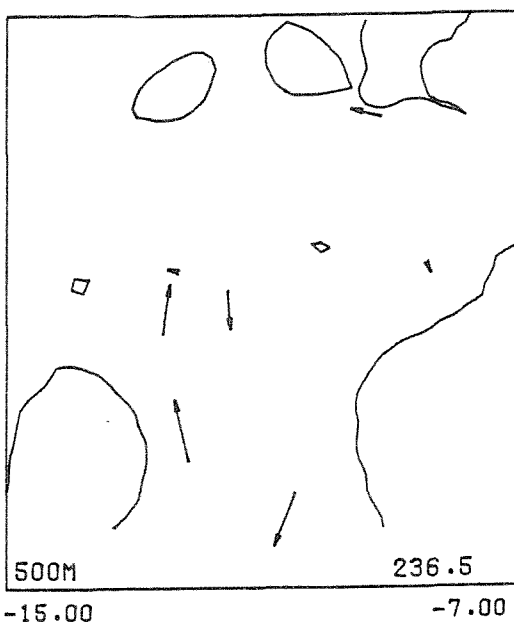
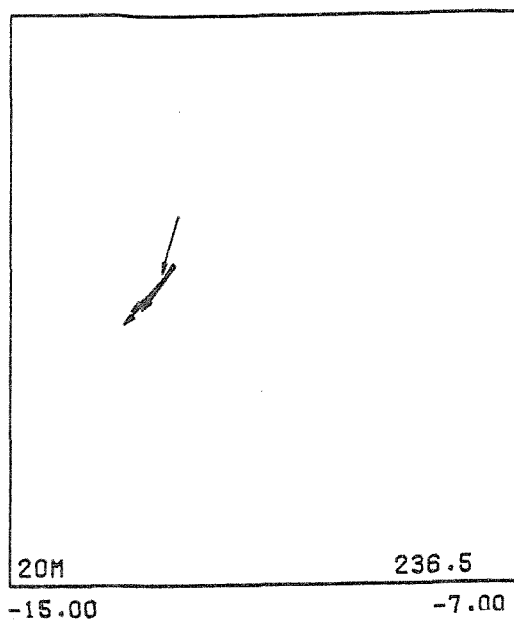
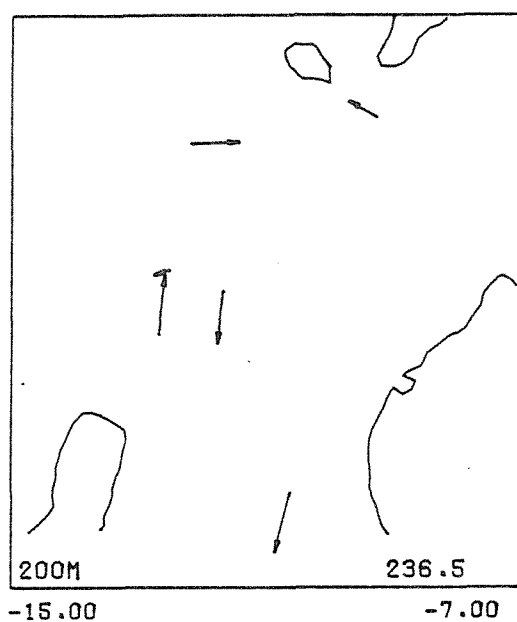
56.50

61.00

56.50

61.00

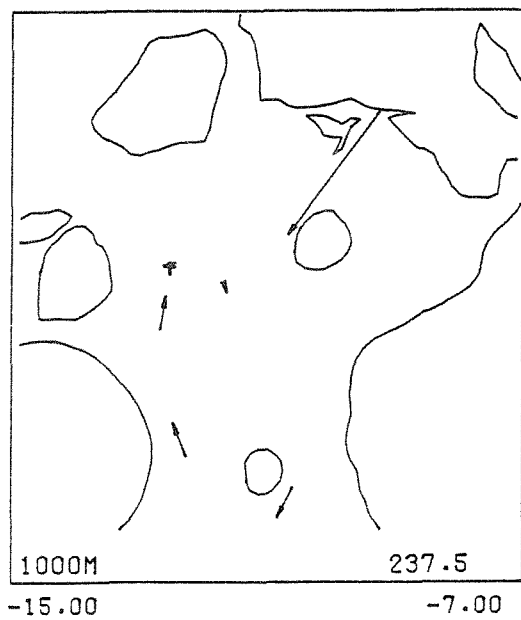
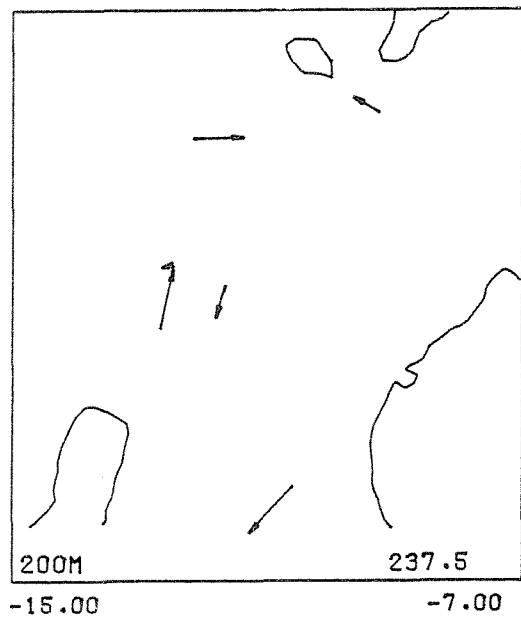
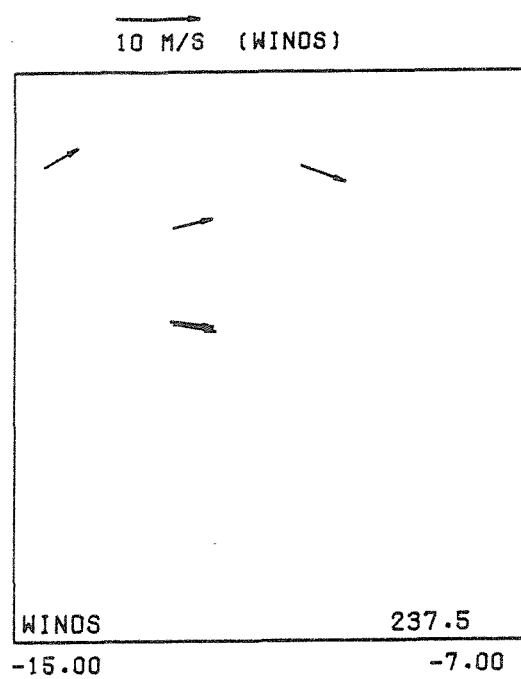
56.50



LONGITUDE

LONGITUDE

DAY 236



LONGITUDE

LATITUDE

61.00

56.50

61.00

56.50

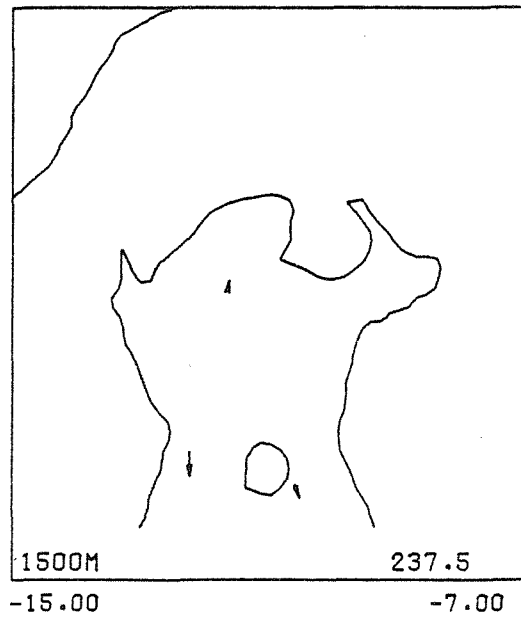
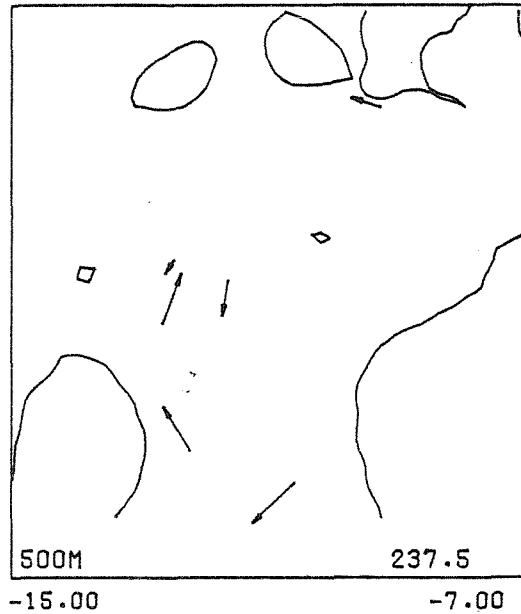
61.00

56.50

20 CM/S (CURRENTS)

20M 237.5

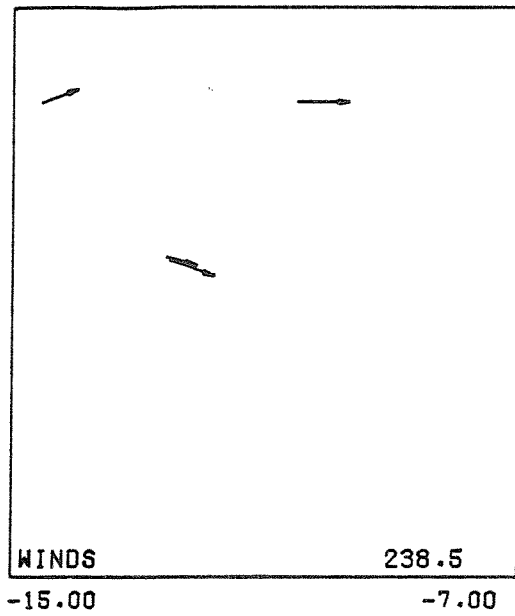
-15.00 -7.00



LONGITUDE

DAY 237

10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

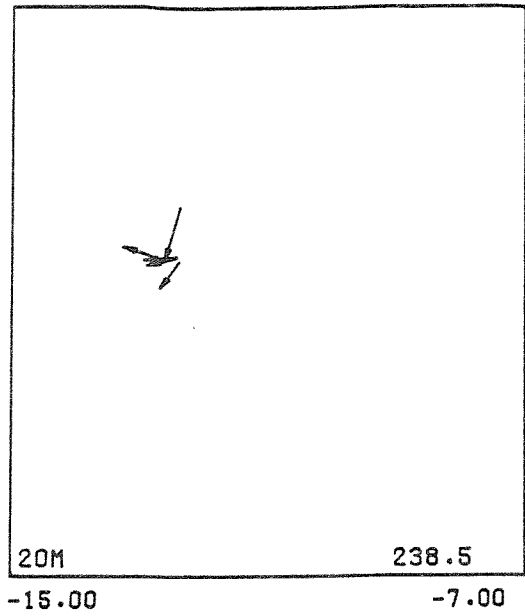
61.00

56.50

61.00

56.50

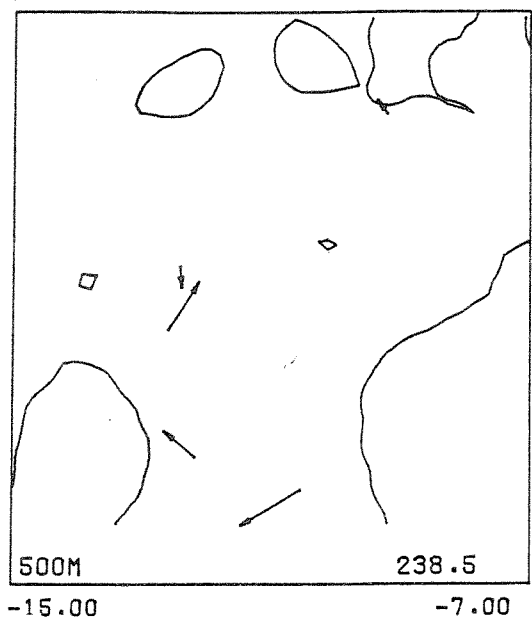
61.00



20M

-15.00

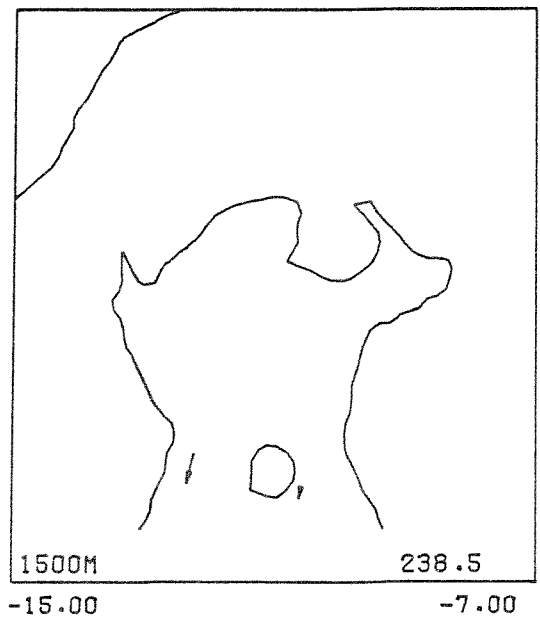
-7.00



500M

-15.00

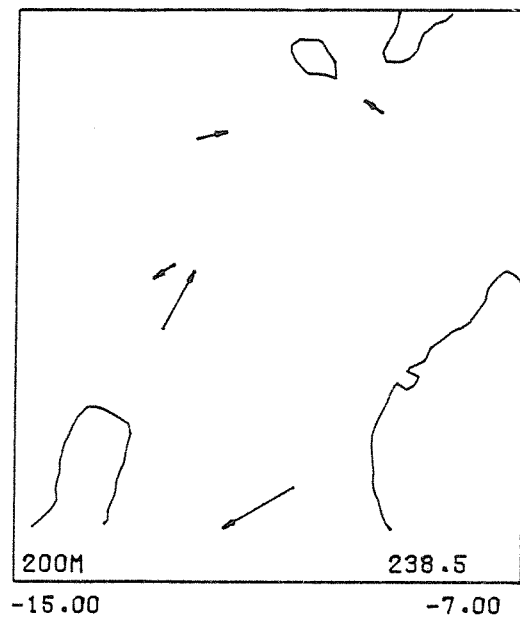
-7.00



1500M

-15.00

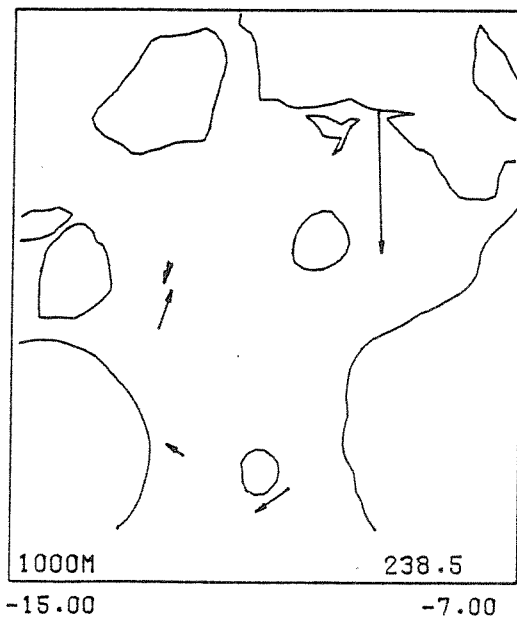
-7.00



200M

-15.00

-7.00



1000M

-15.00

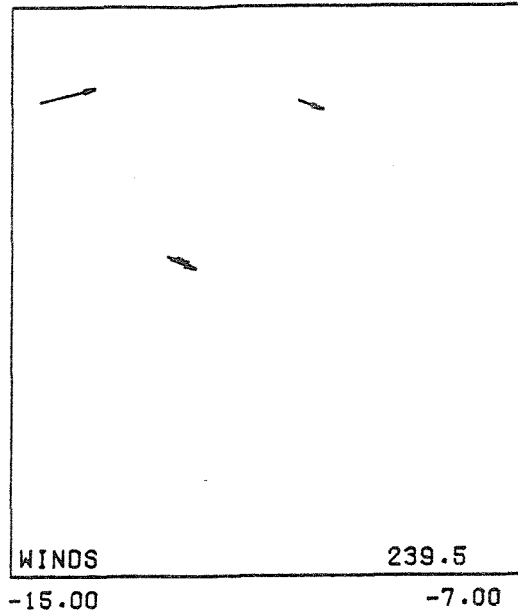
-7.00

LONGITUDE

LONGITUDE

DAY 238

10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

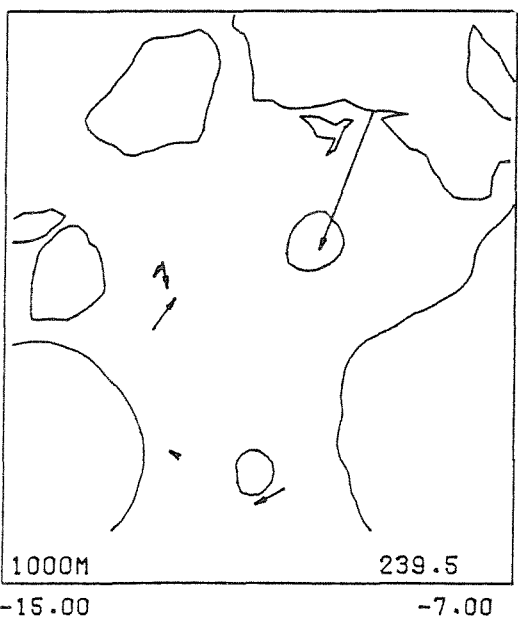
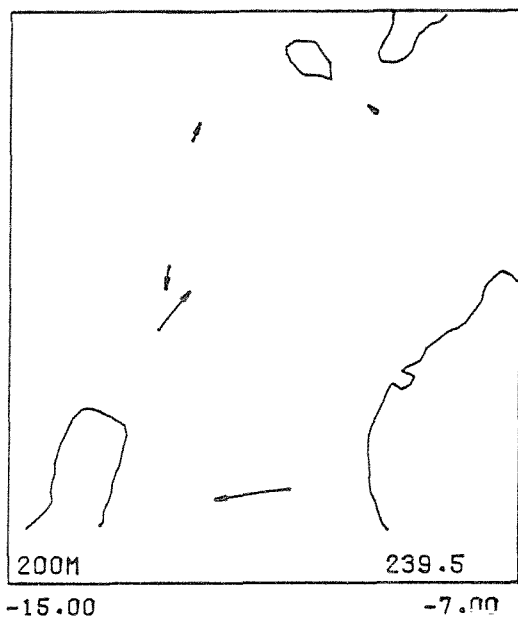
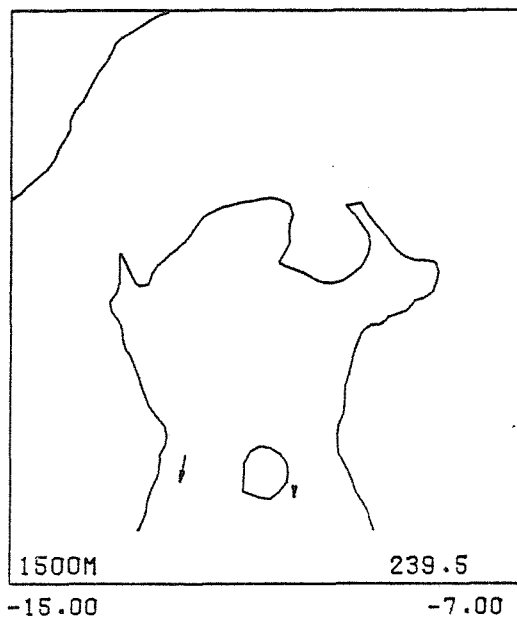
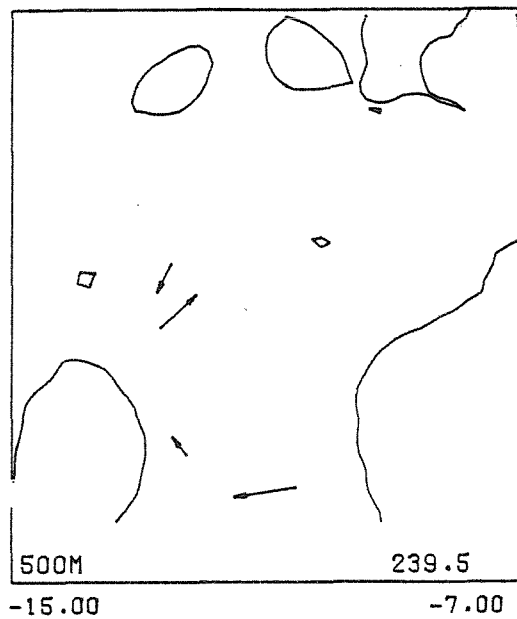
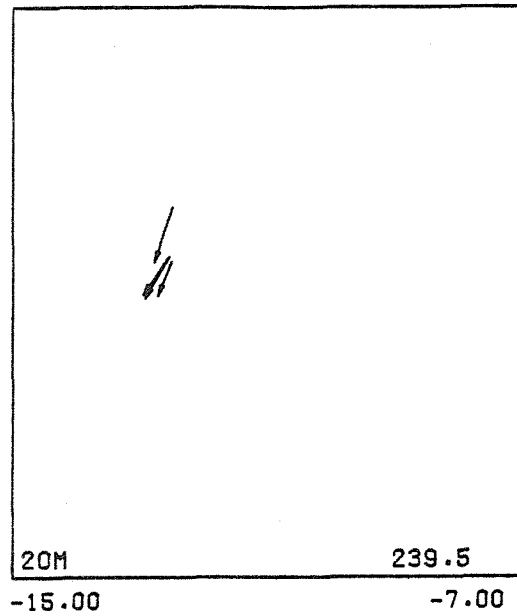
61.00

56.50

61.00

56.50

61.00

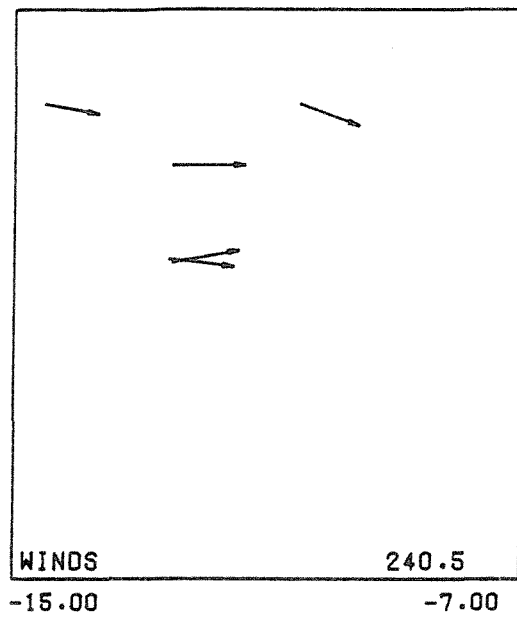


LONGITUDE

LONGITUDE

DAY 239

10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

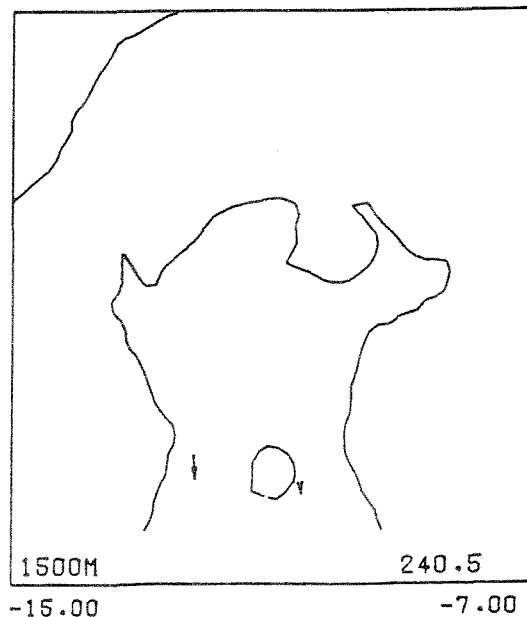
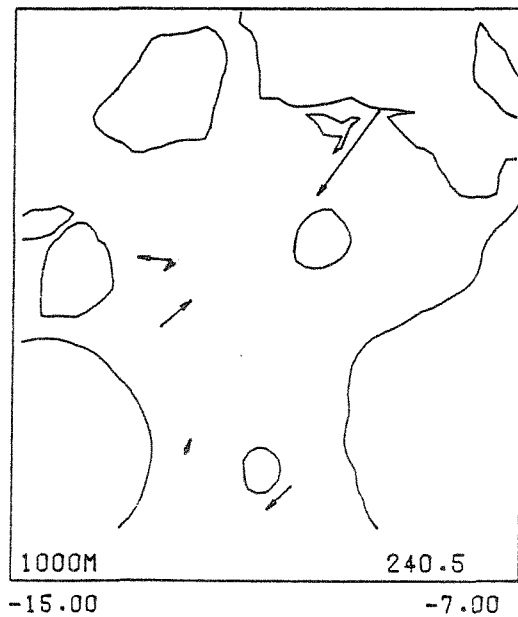
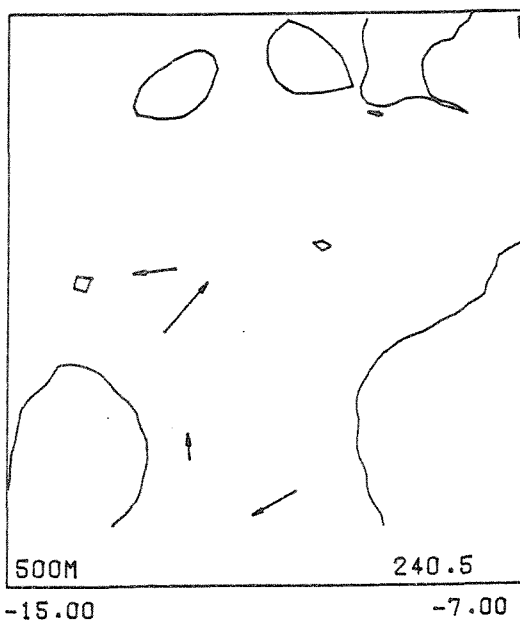
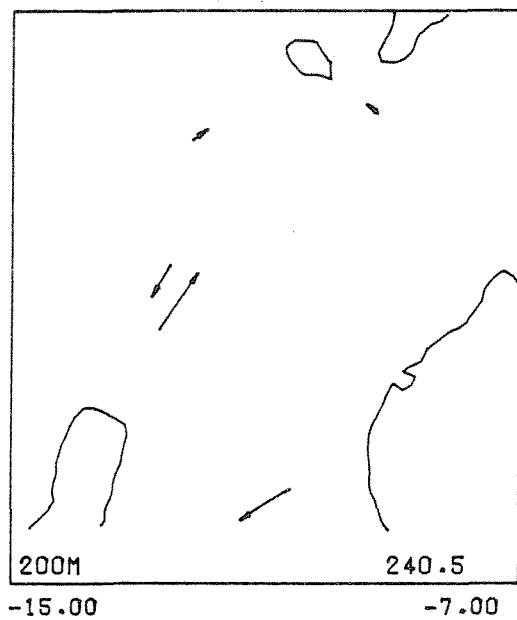
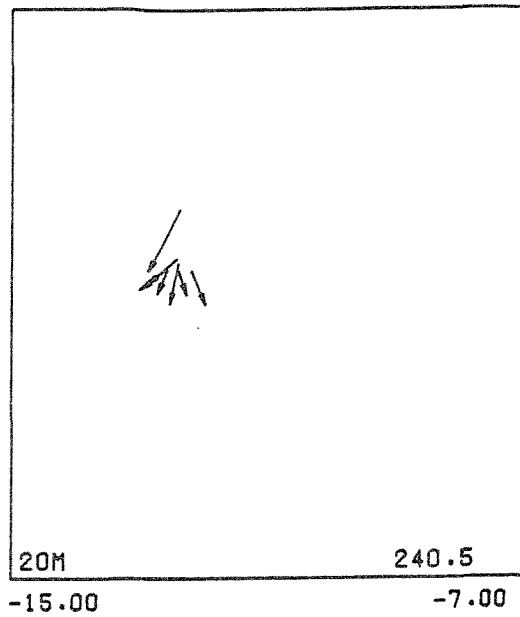
61.00

56.50

61.00

56.50

61.00

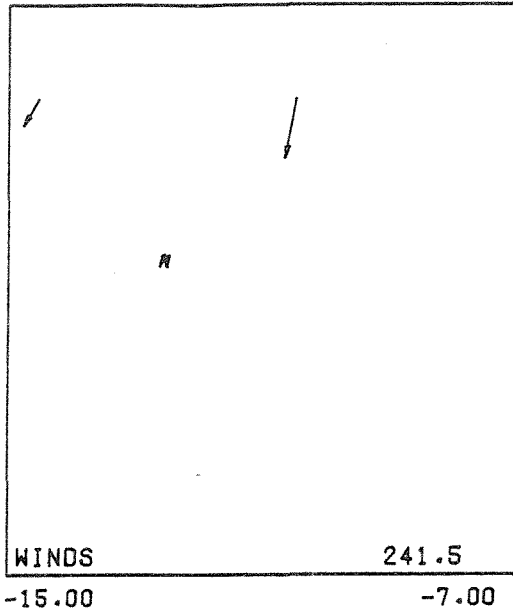


LONGITUDE

LONGITUDE

DAY 240

10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00

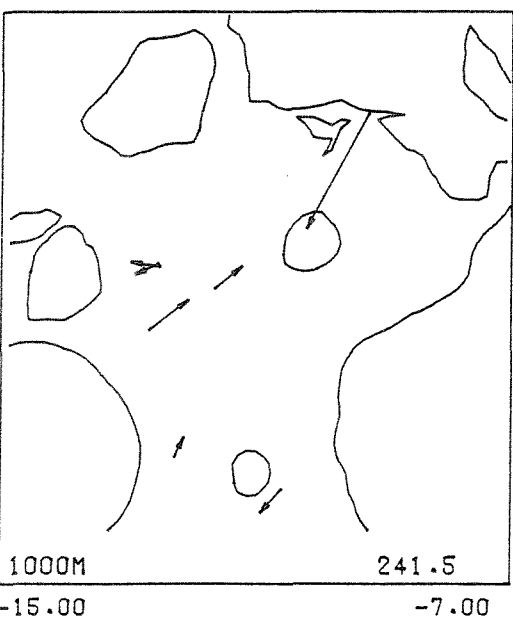
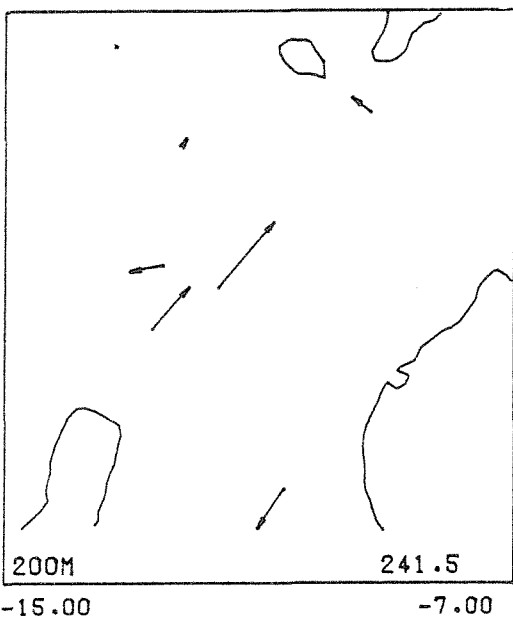
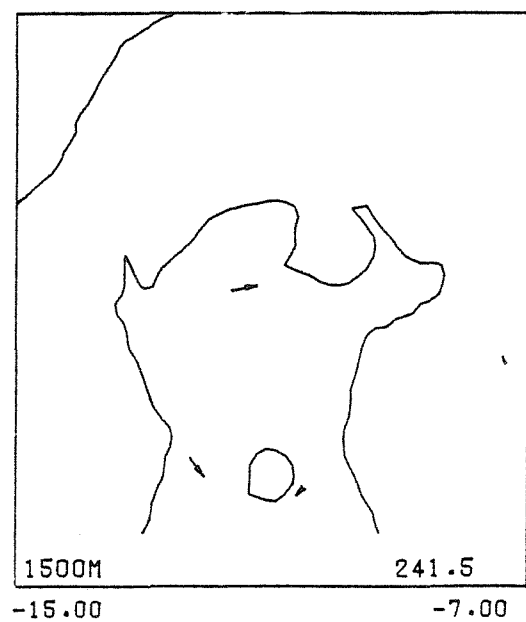
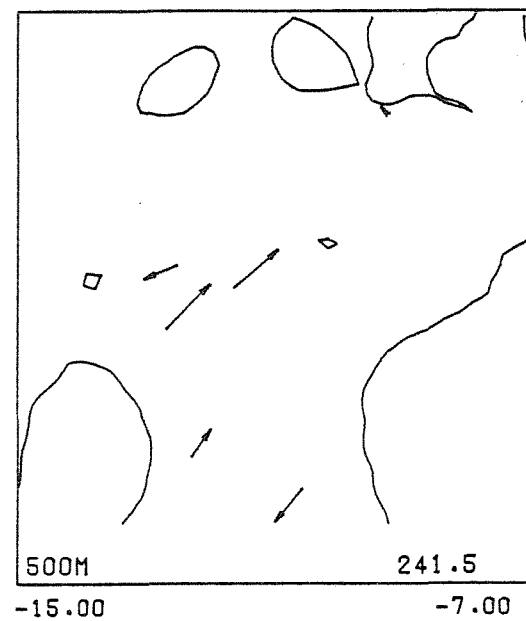
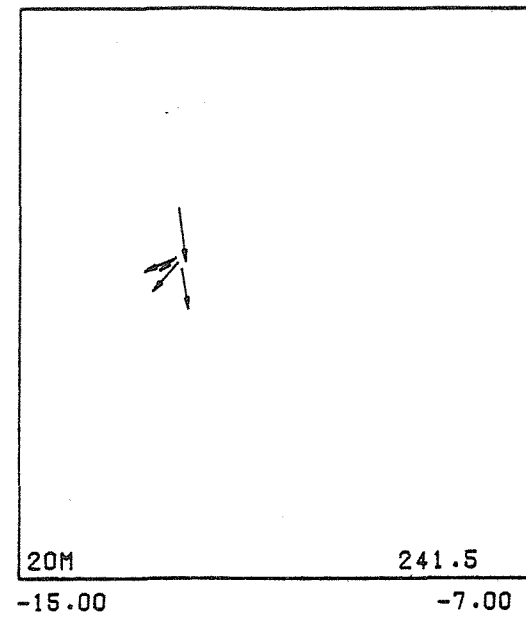
56.50

61.00

56.50

61.00

56.50

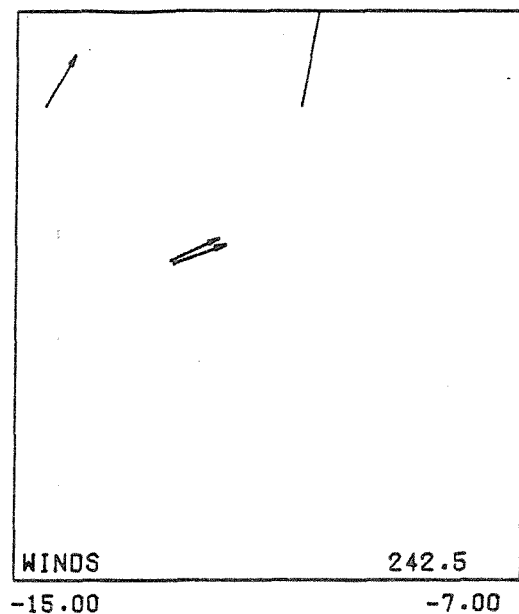


LONGITUDE

LONGITUDE

DAY 241

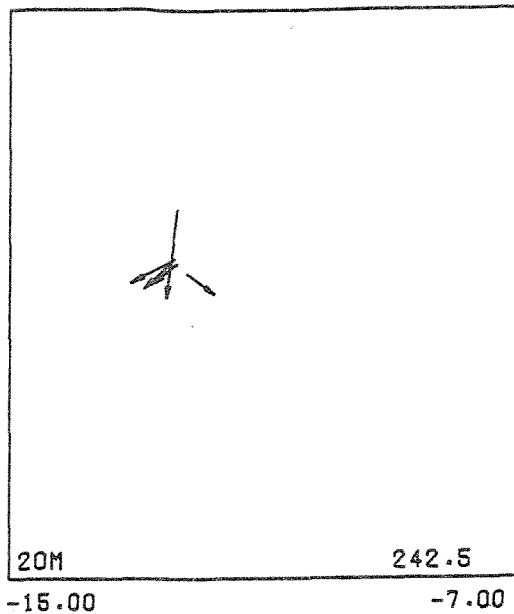
10 M/S (WINDS)



LATITUDE

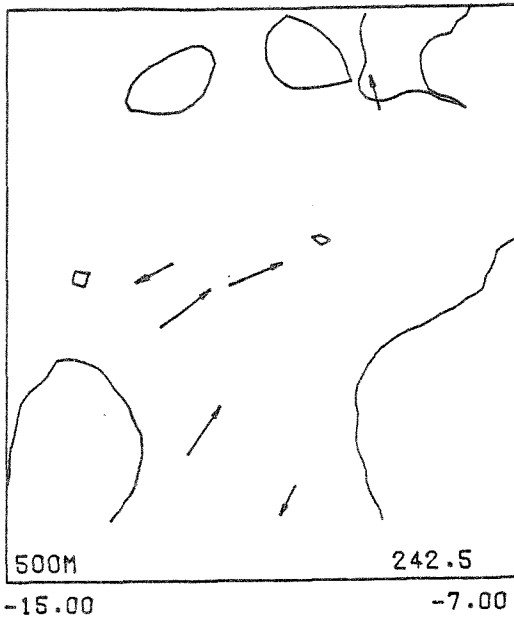
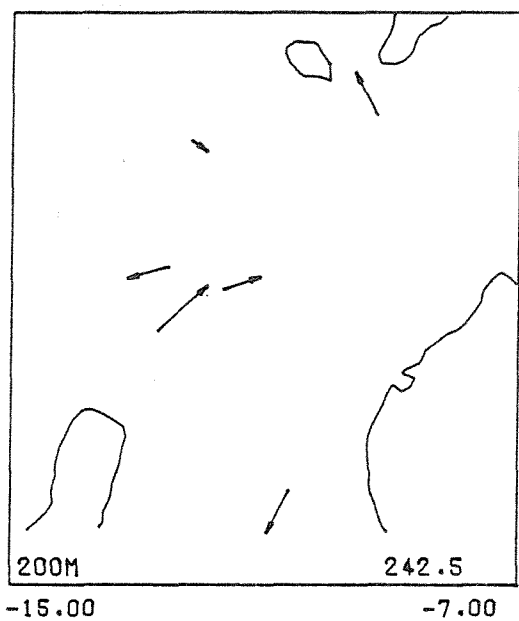
20 CM/S (CURRENTS)

61.00



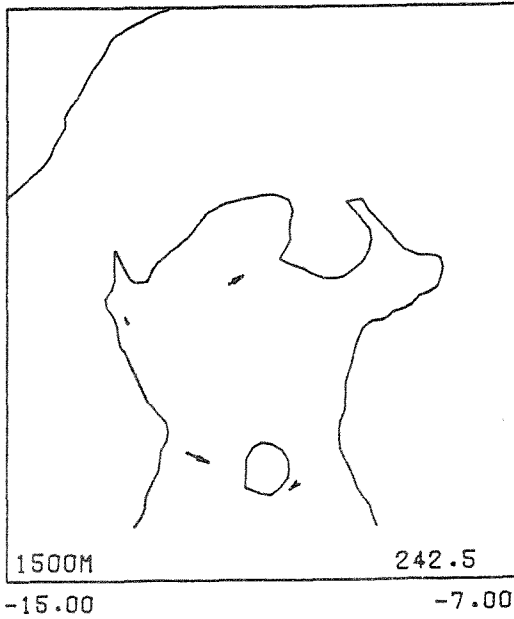
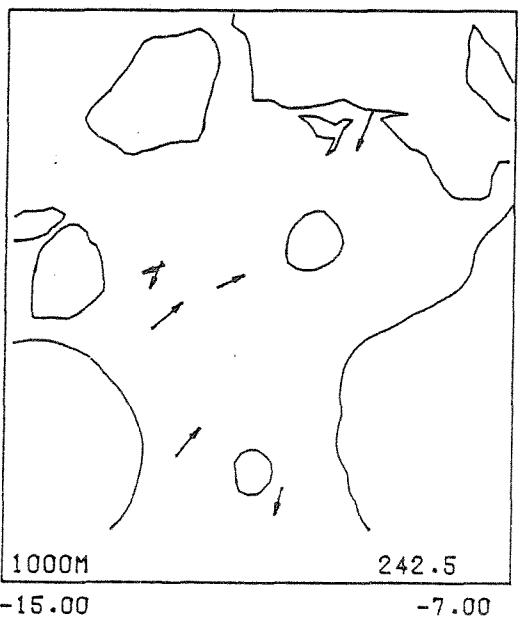
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61.00



56.50

61.00



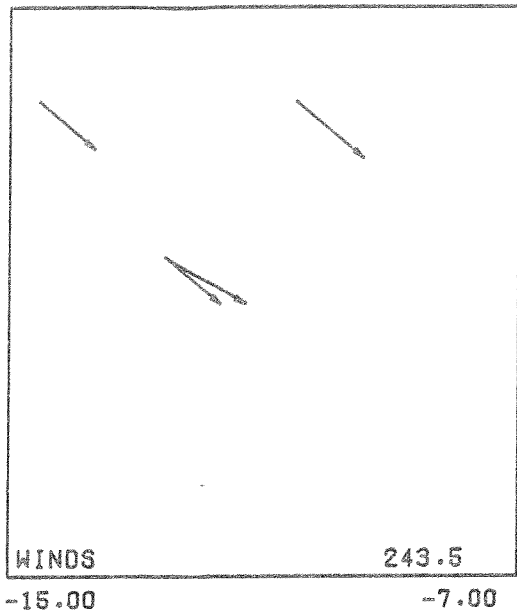
56.50

LONGITUDE

LONGITUDE

DAY 242

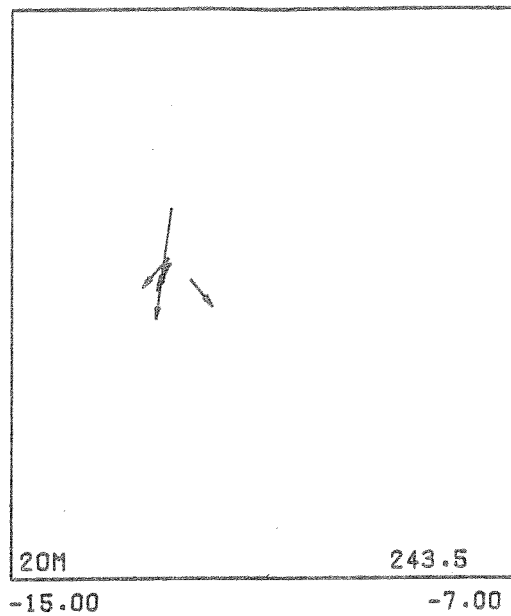
10 M/S (WINDS)



LATITUDE

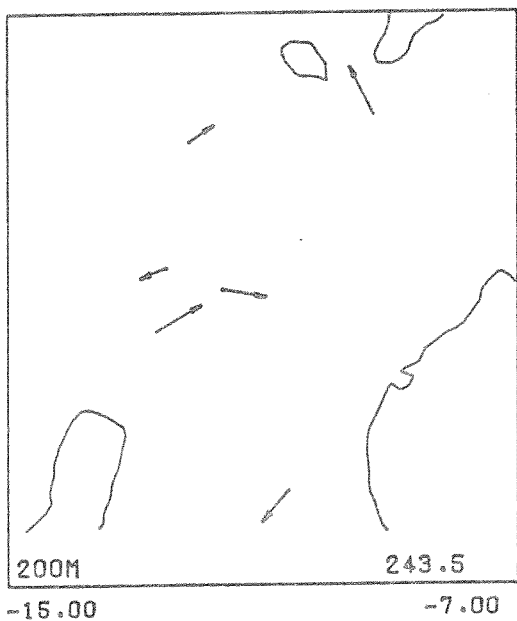
20 CM/S (CURRENTS)

61.00



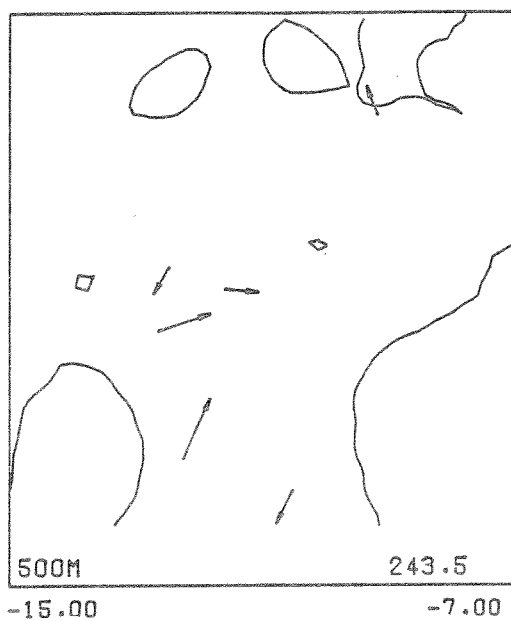
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61.00



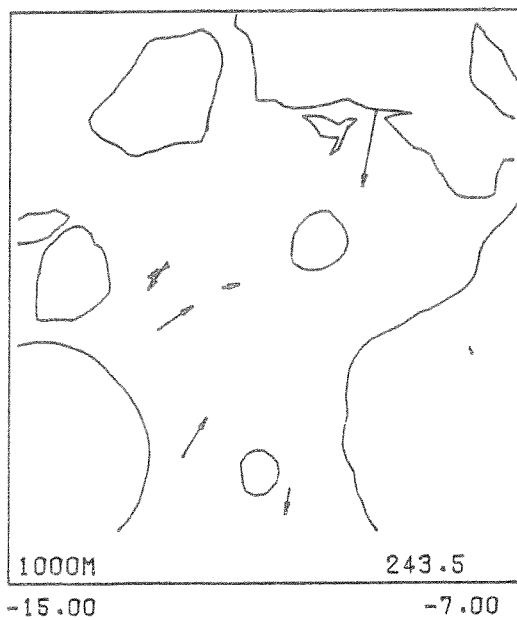
-15.00

-7.00



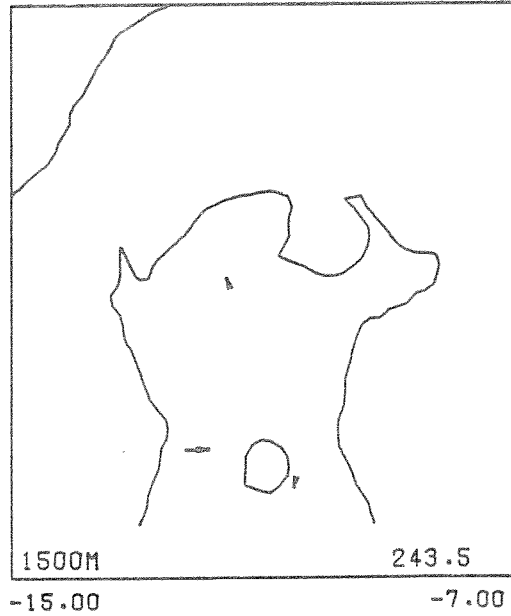
56.50

61.00



-15.00

-7.00



56.50

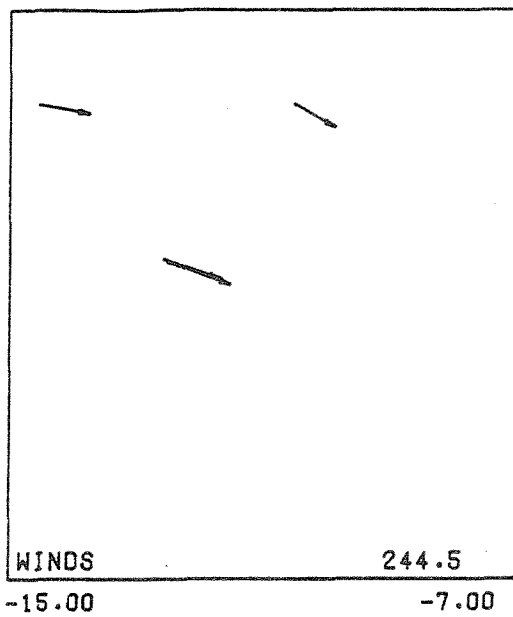
61.00

LONGITUDE

LONGITUDE

DAY 243

10 M/S (WINDS)



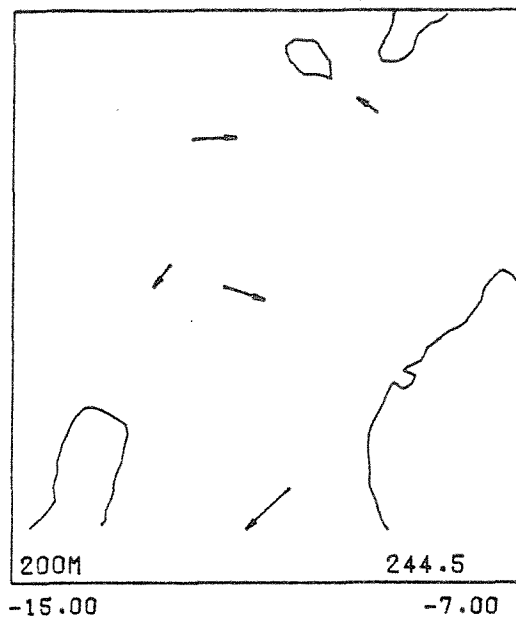
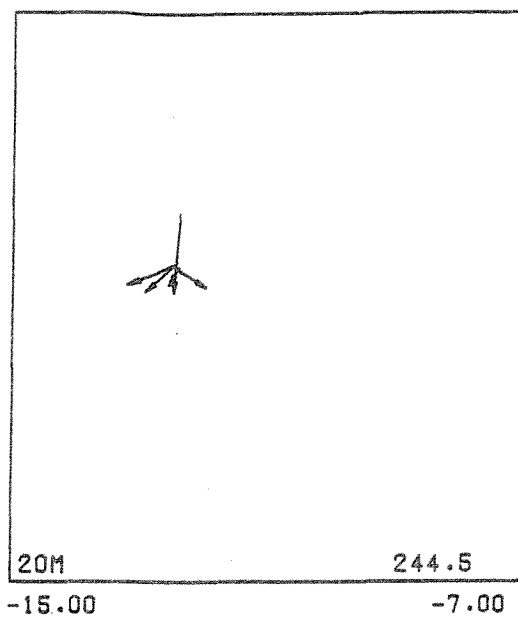
LATITUDE

20 CM/S (CURRENTS)

61.00

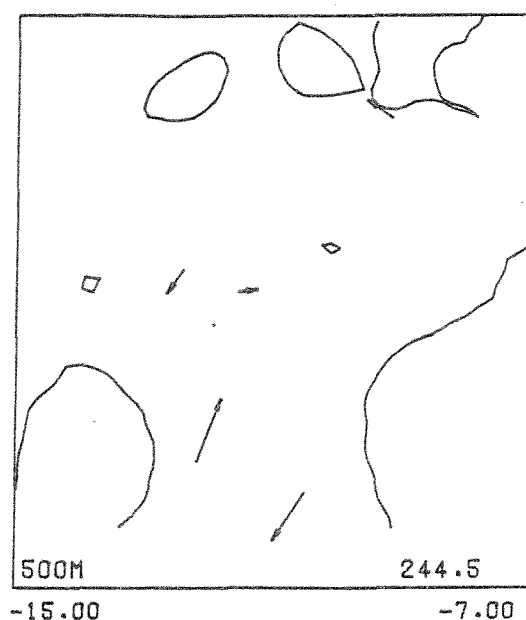
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61.00



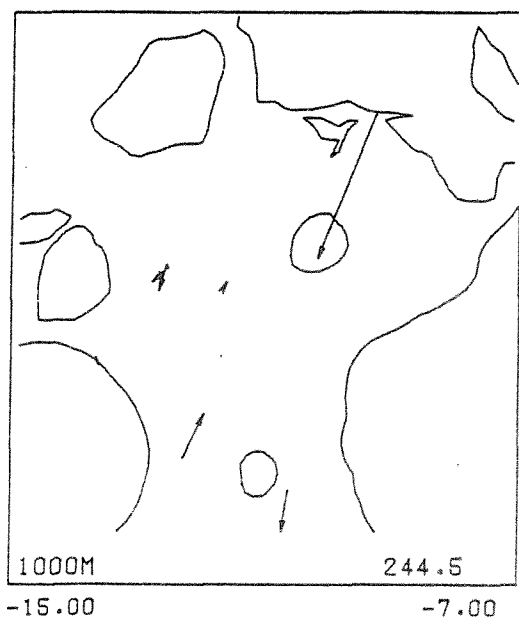
-15.00

-7.00



-15.00

-7.00

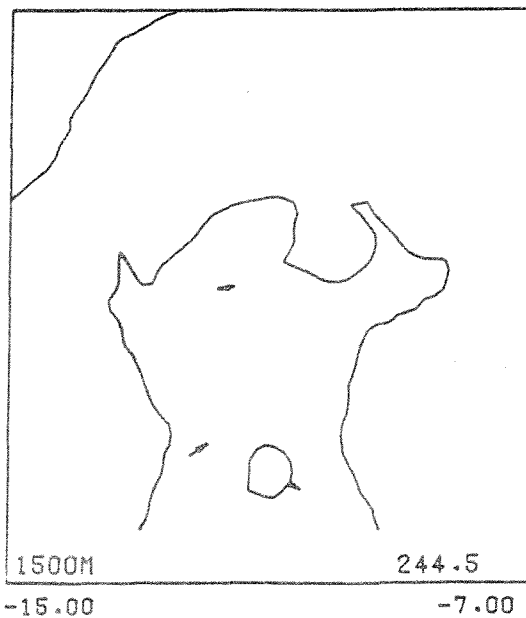


-15.00

-7.00

61.00

56.50



-15.00

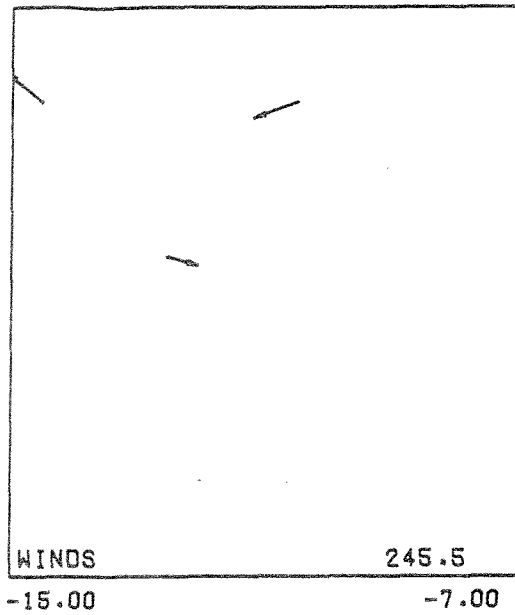
-7.00

LONGITUDE

LONGITUDE

DAY 244

10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00

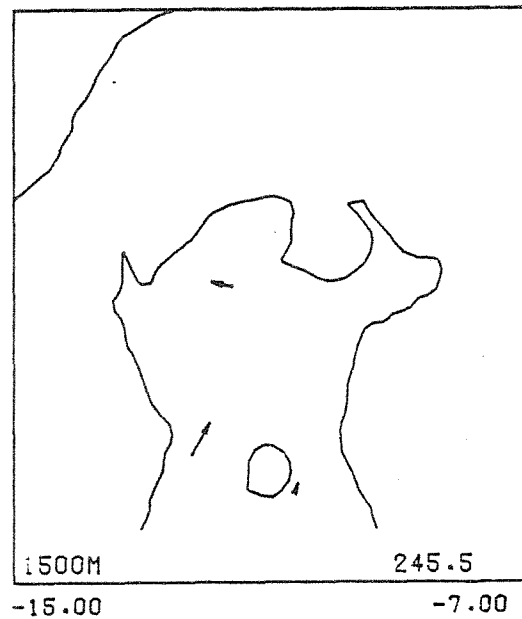
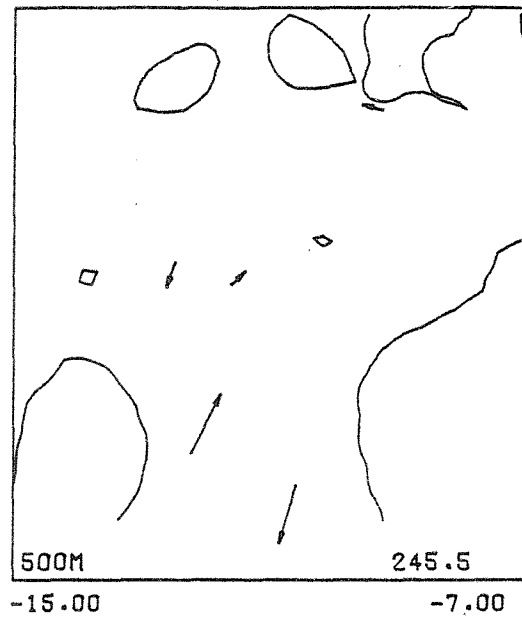
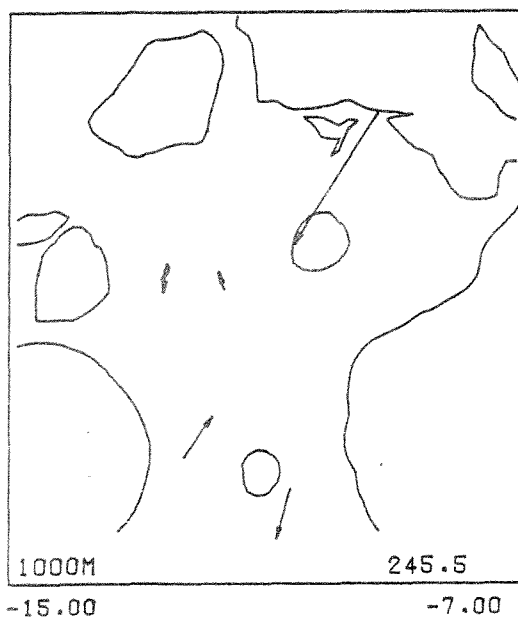
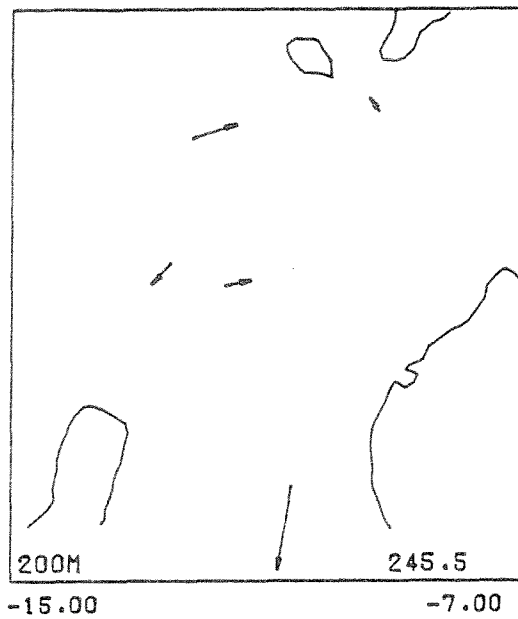
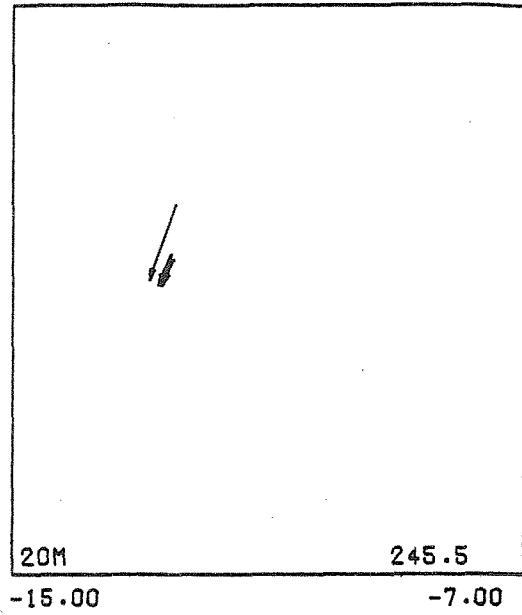
56.50

61.00

56.50

61.00

56.50

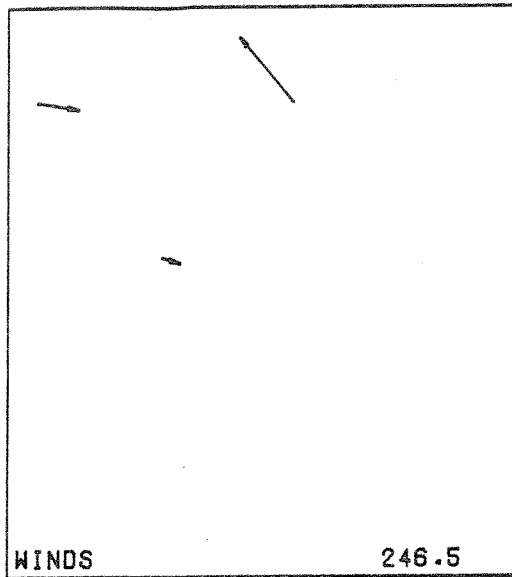


LONGITUDE

LONGITUDE

DAY 245

10 M/S (WINDS)

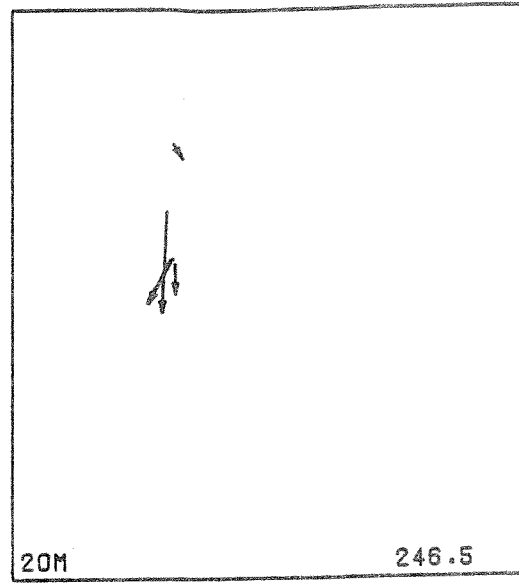


-15.00 -7.00

LATITUDE

20 CM/S (CURRENTS)

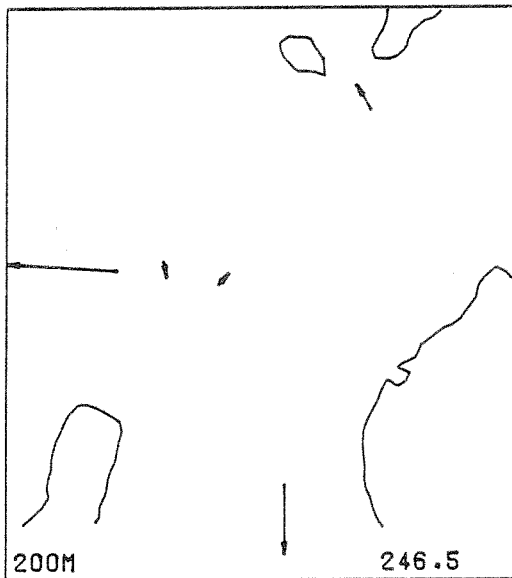
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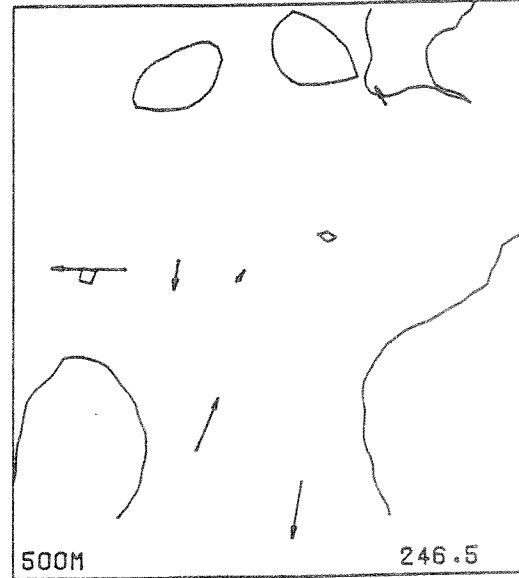
-15.00 -7.00

56.50

61.00



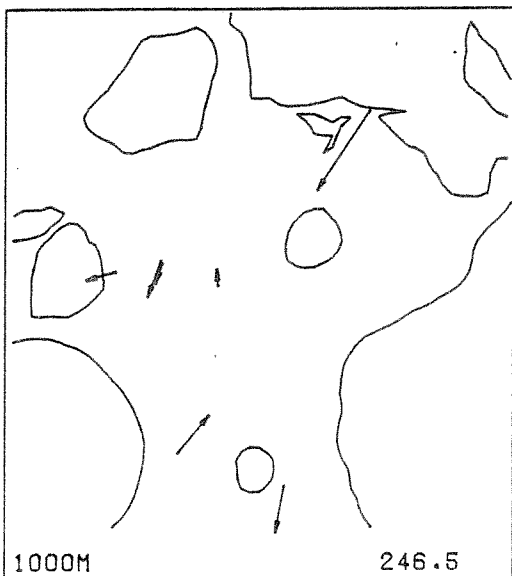
-15.00 -7.00



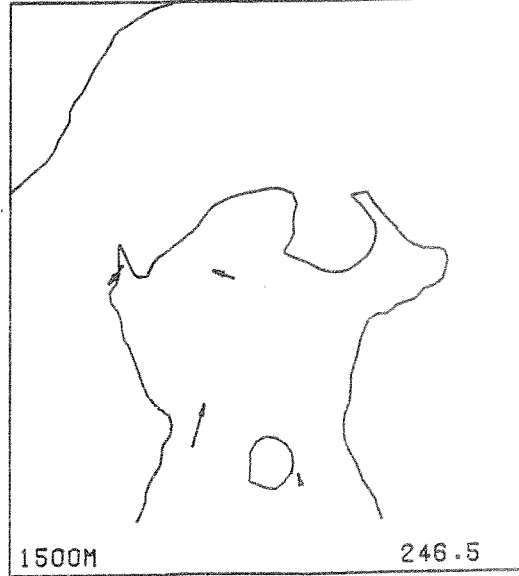
-15.00 -7.00

56.50

61.00



-15.00 -7.00



-15.00 -7.00

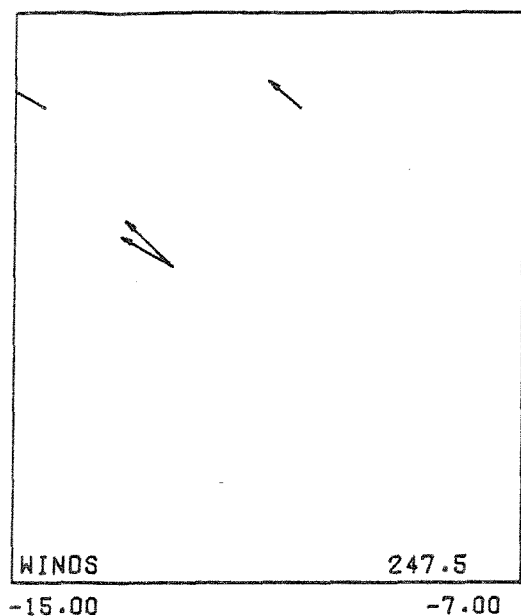
56.50

LONGITUDE

LONGITUDE

DAY 246

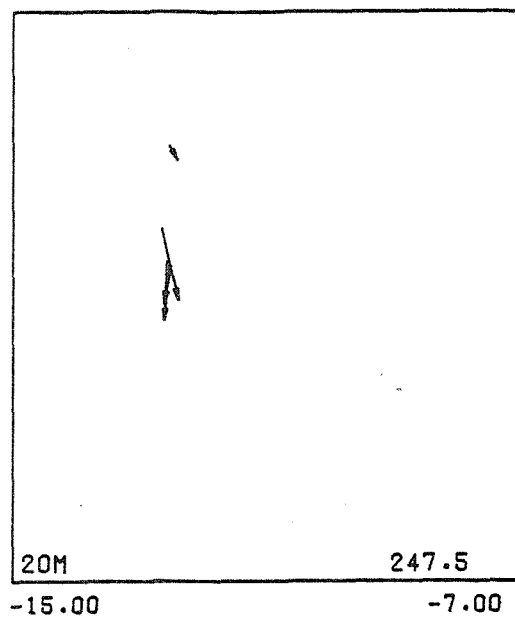
10 M/S (WINDS)



LATITUDE

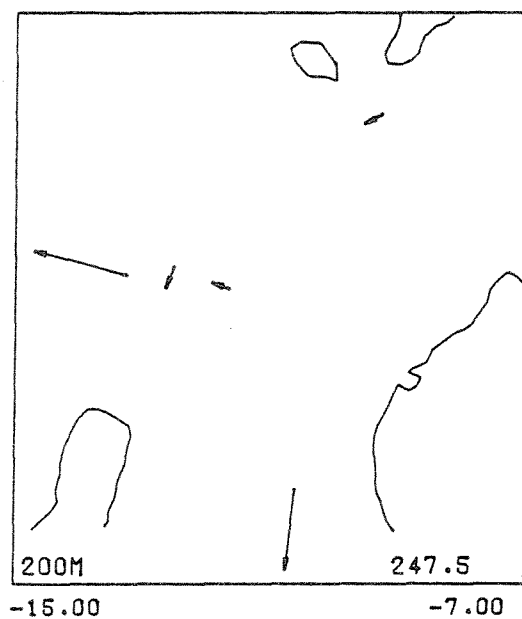
20 CM/S (CURRENTS)

61.00



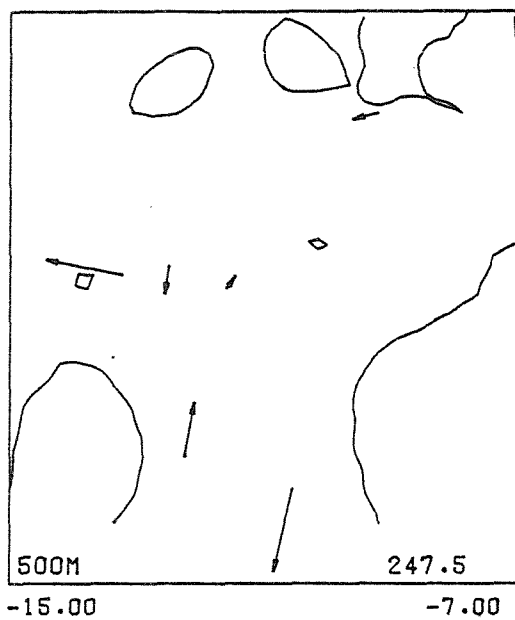
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61.00



-15.00

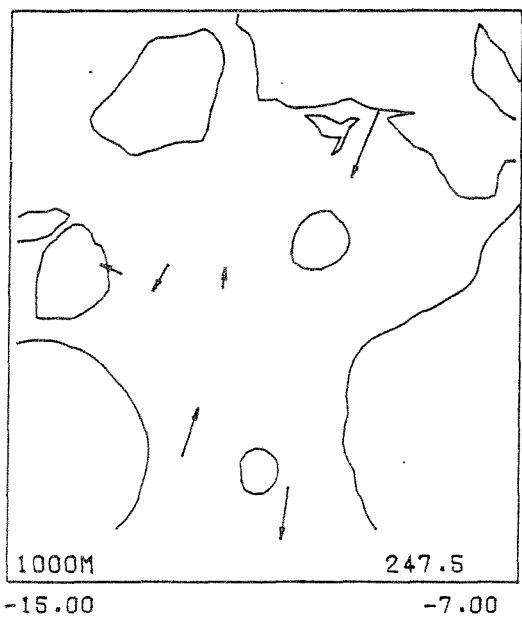
-7.00



56.50

-15.00

-7.00

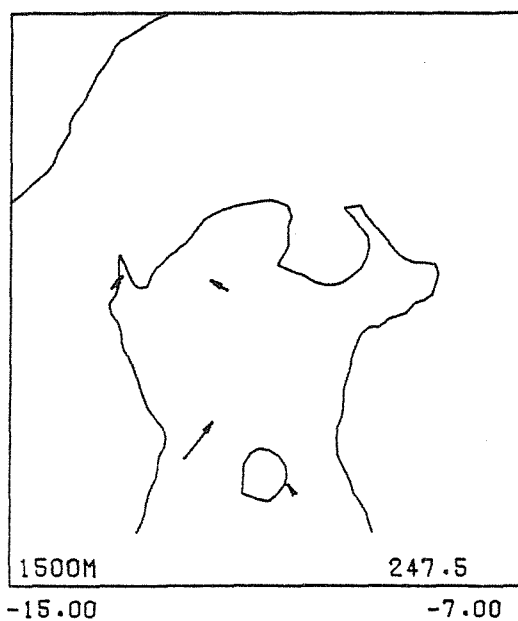


-15.00

-7.00

LONGITUDE

61.00



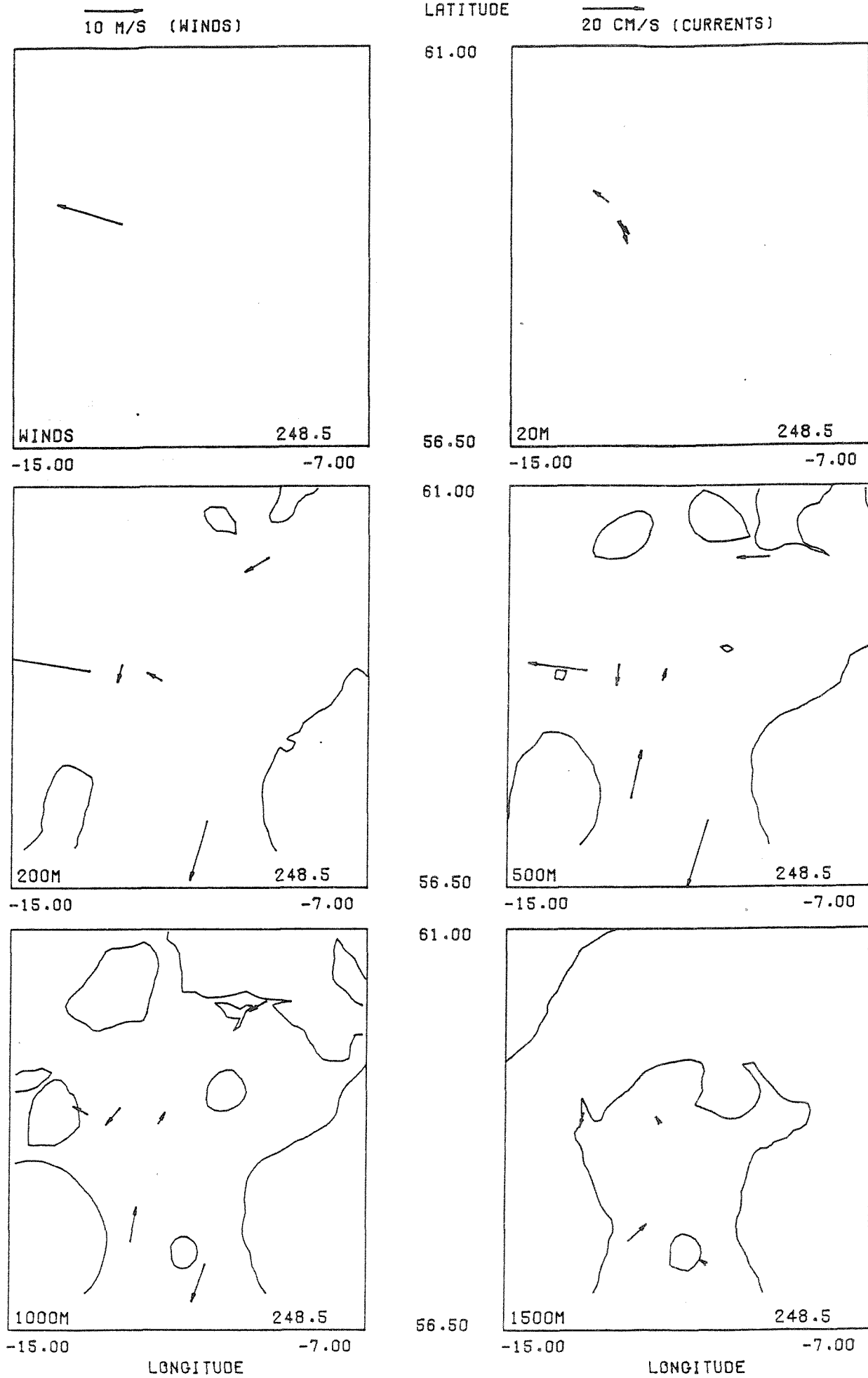
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-15.00

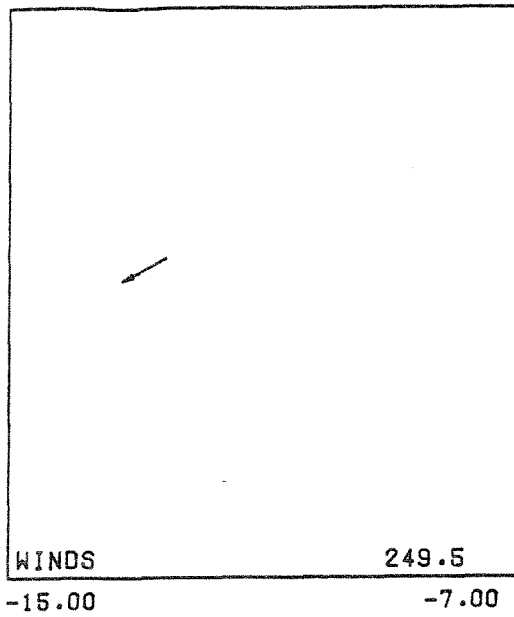
-7.00

LONGITUDE

DAY 247



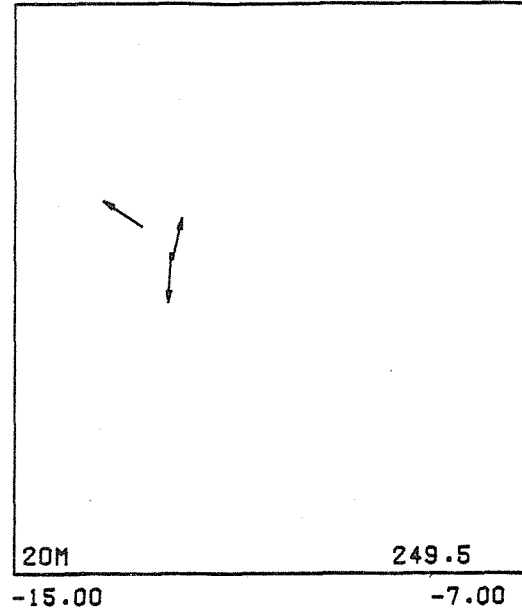
10 M/S (WINDS)



LATITUDE

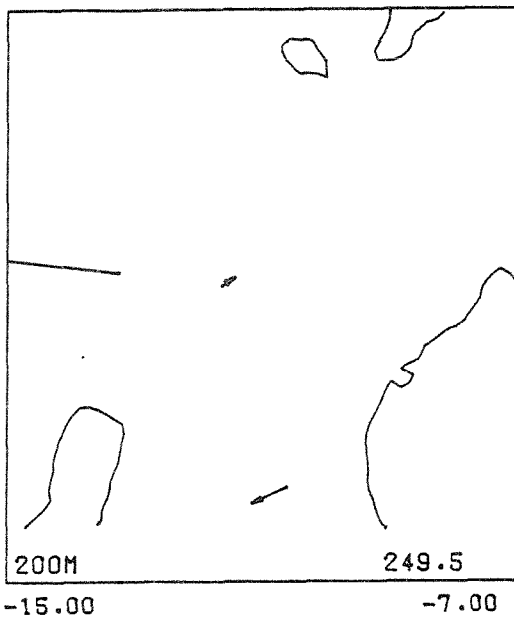
20 CM/S (CURRENTS)

61.00



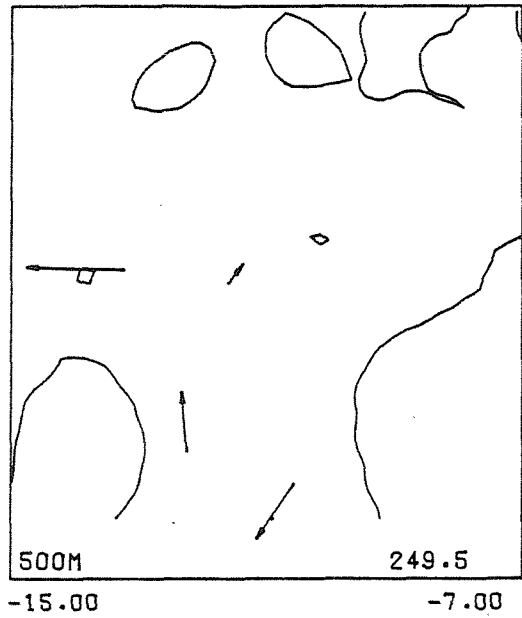
56.50

61.00

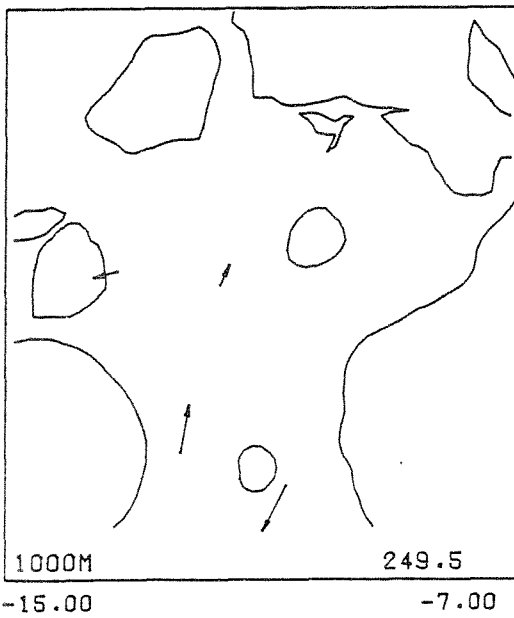


56.50

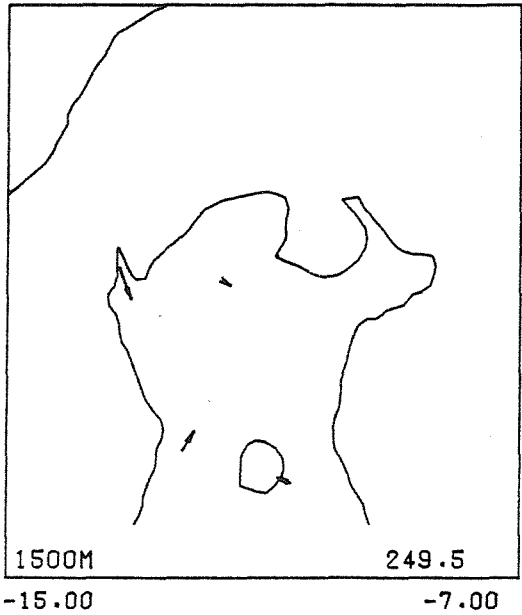
61.00



56.50



56.50

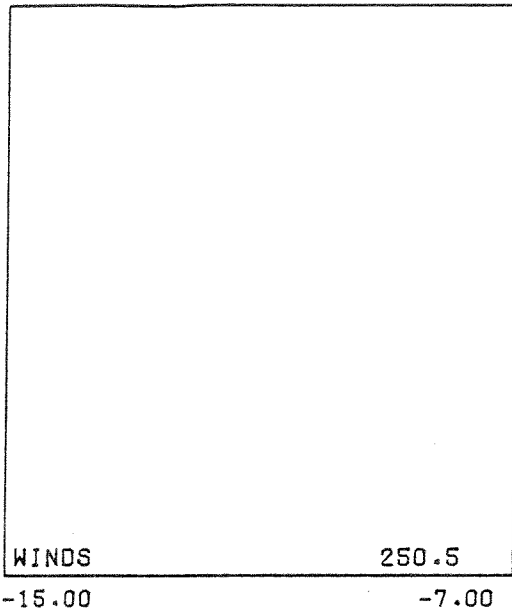


LONGITUDE

LONGITUDE

DAY 249

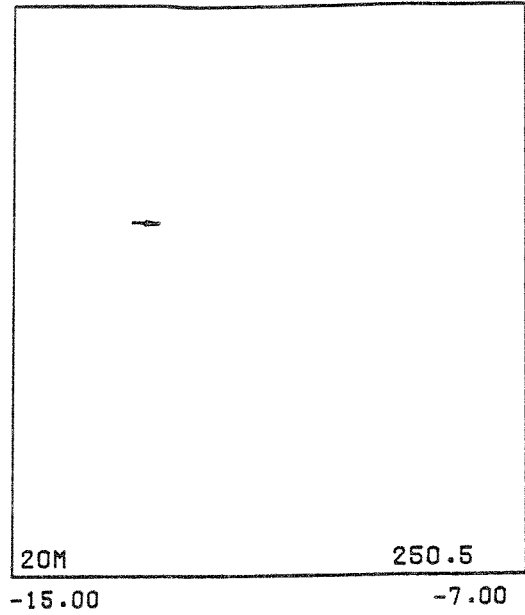
10 M/S (WINDS)



LATITUDE

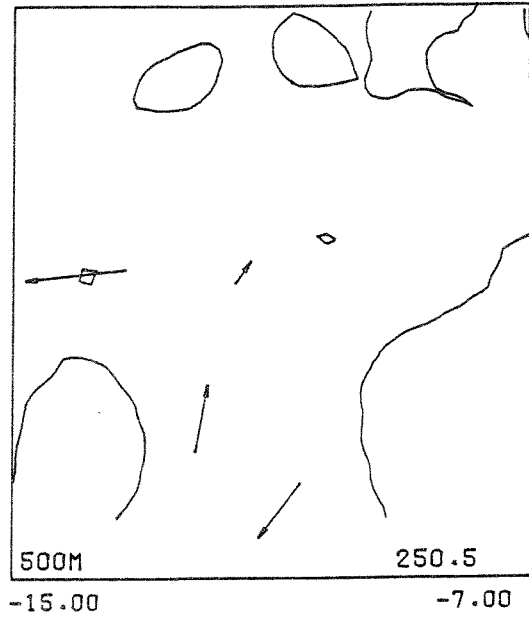
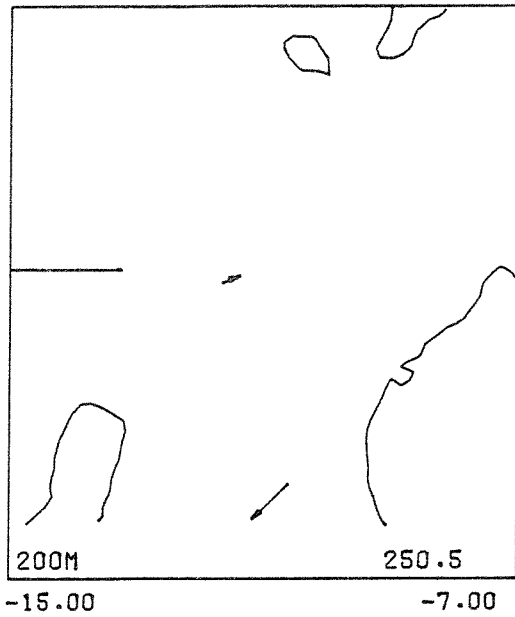
20 CM/S (CURRENTS)

61.00



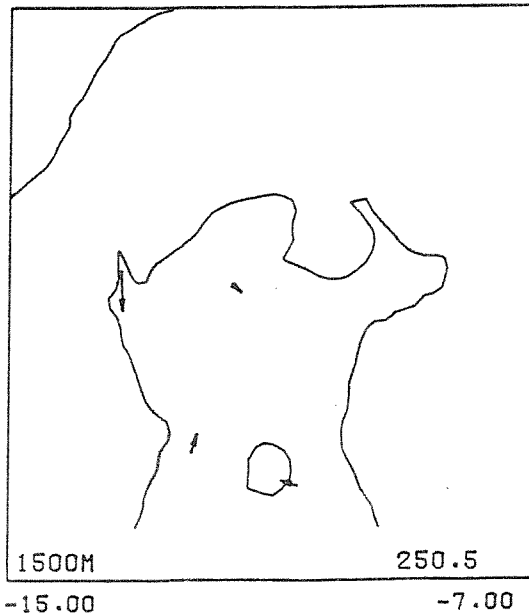
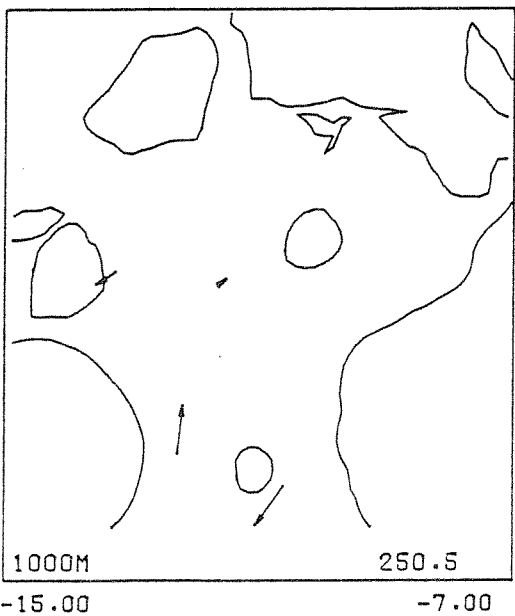
56.50

61.00



56.50

61.00



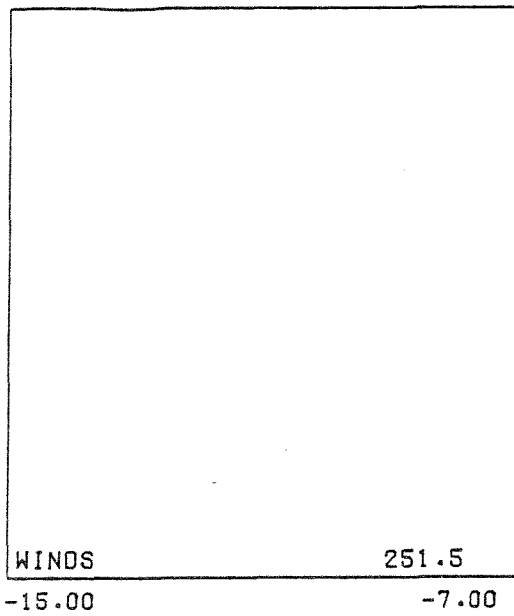
56.50

LONGITUDE

LONGITUDE

DAY 250

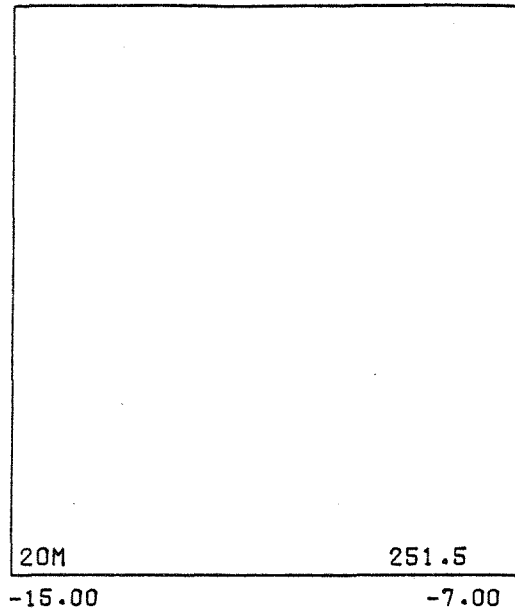
10 M/S (WINDS)



LATITUDE

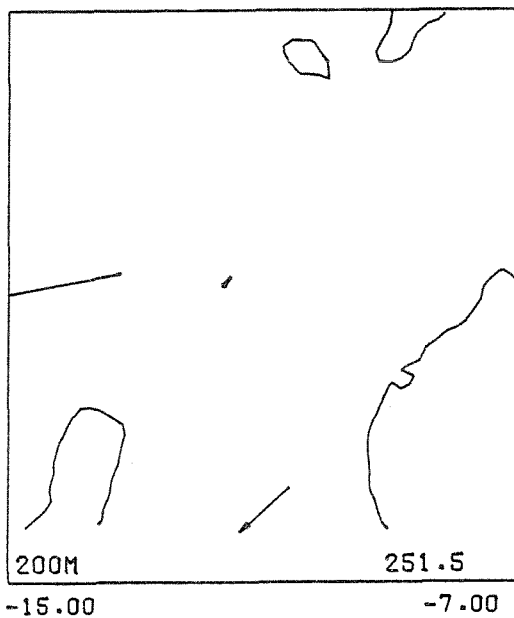
20 CM/S (CURRENTS)

61.00



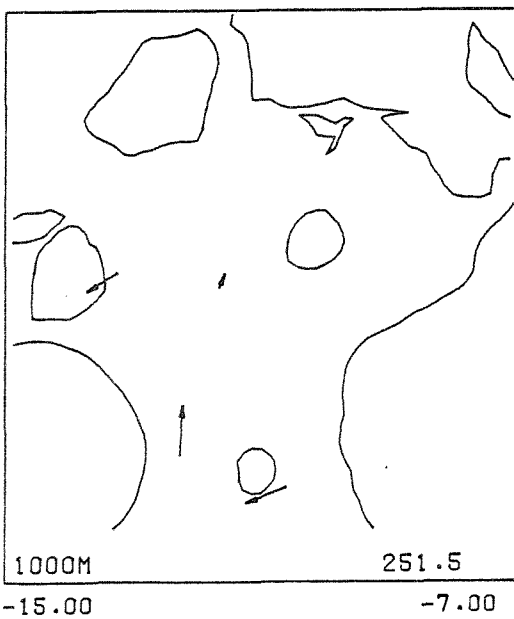
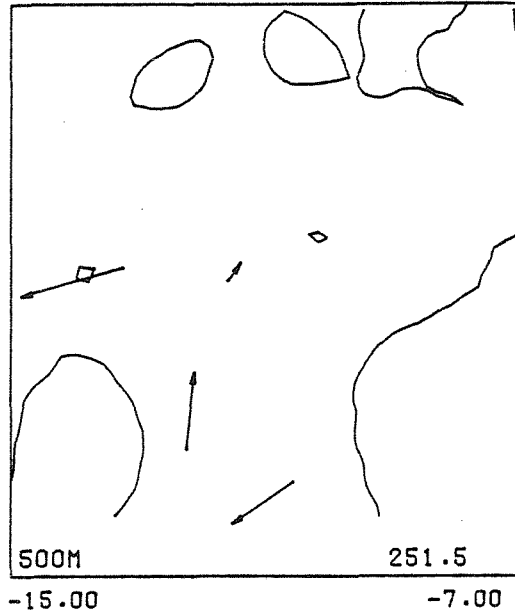
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61.00

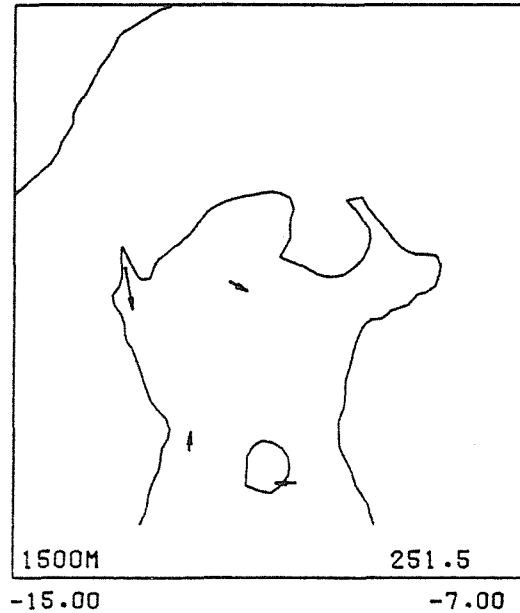


56.50

61.00



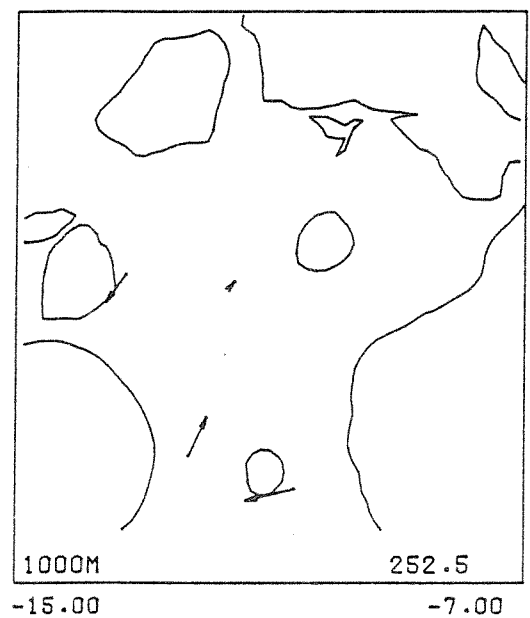
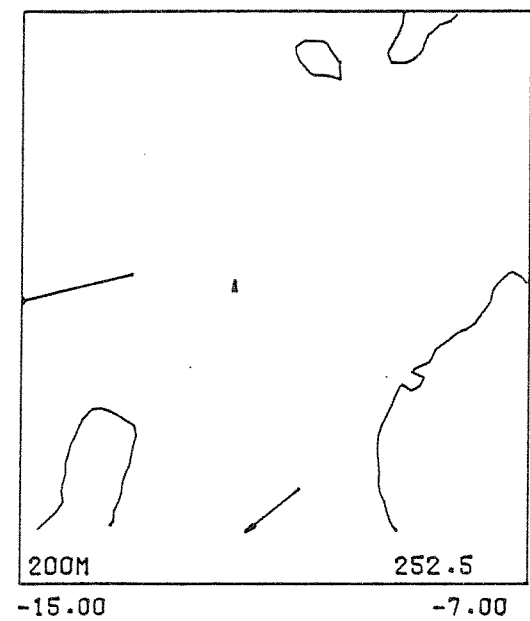
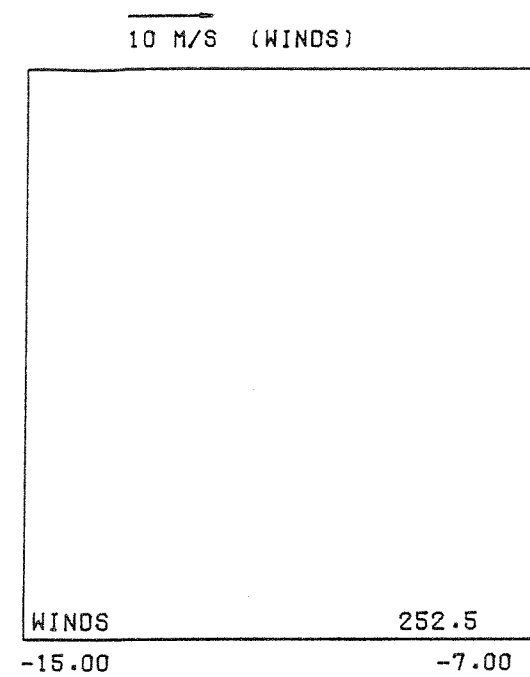
56.50



LONGITUDE

LONGITUDE

DAY 251



LONGITUDE

LATITUDE

61.00

56.50

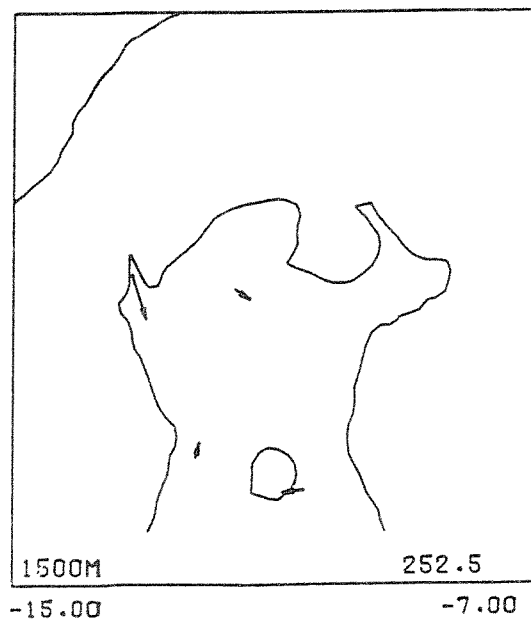
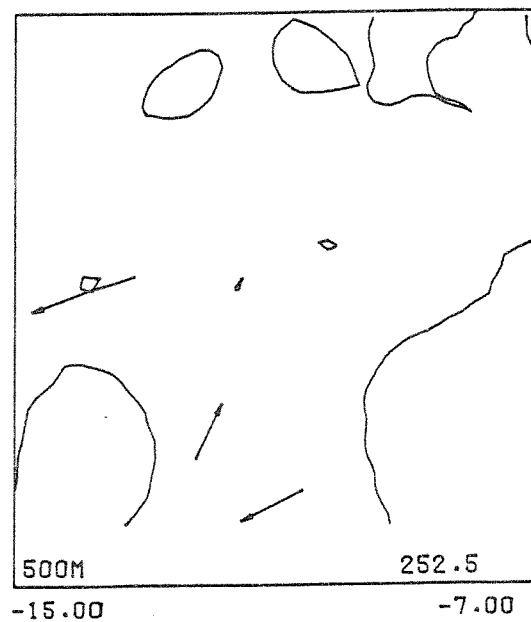
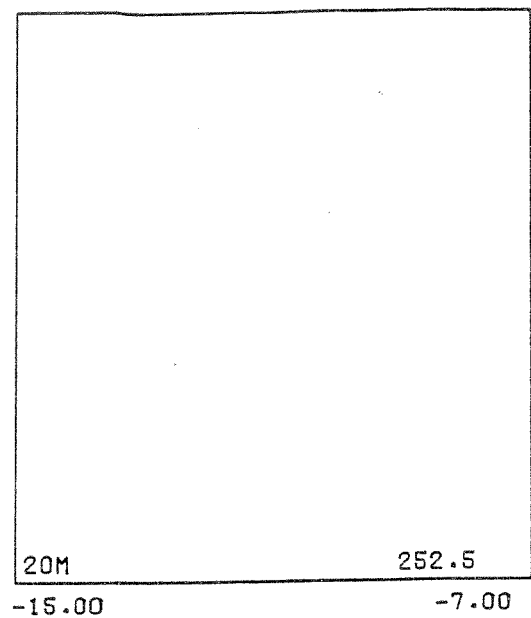
61.00

56.50

61.00

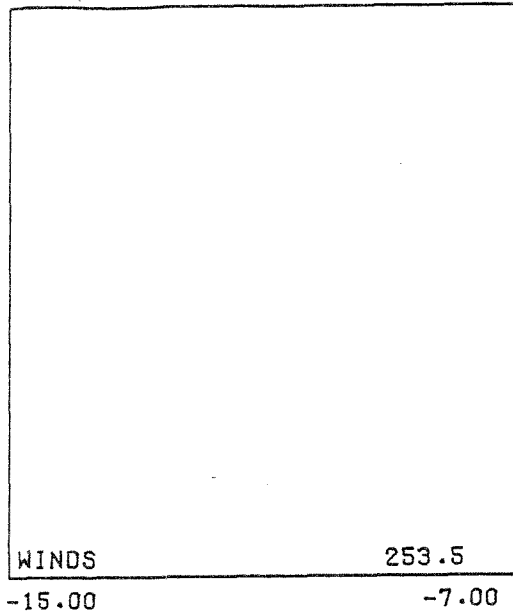
56.50

20 CM/S (CURRENTS)



LONGITUDE

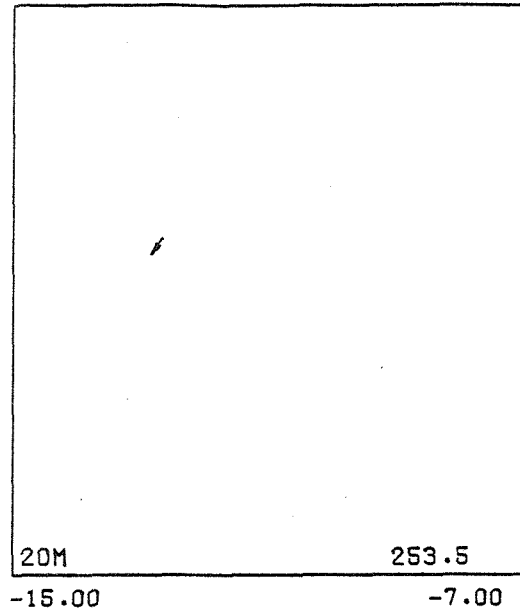
10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00

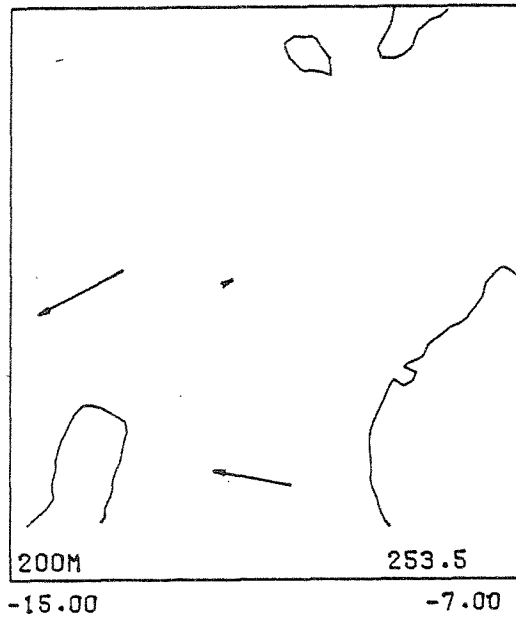


56.50

-15.00

-7.00

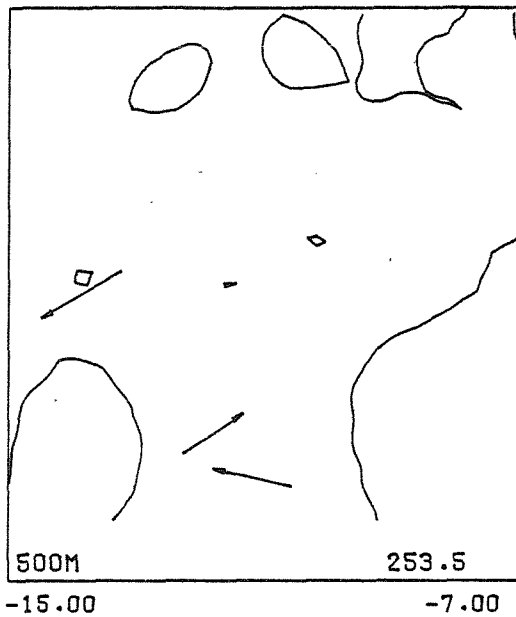
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-15.00

-7.00

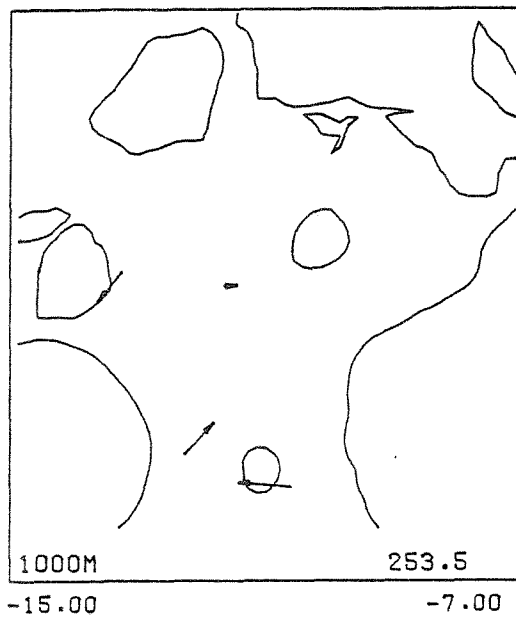
56.50



-15.00

-7.00

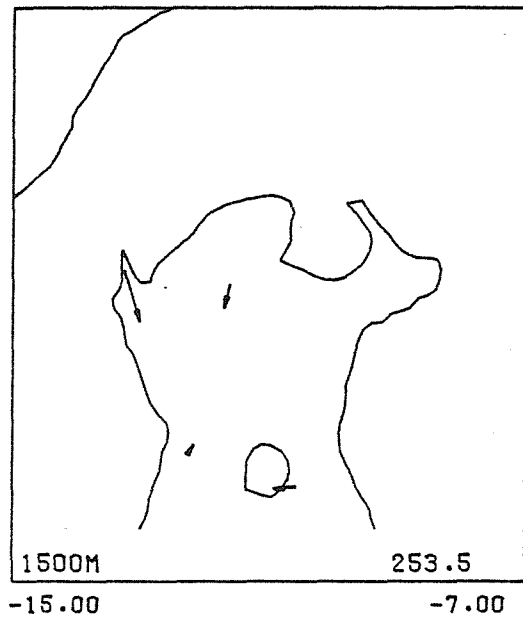
61.00



-15.00

-7.00

56.50



-15.00

-7.00

LONGITUDE

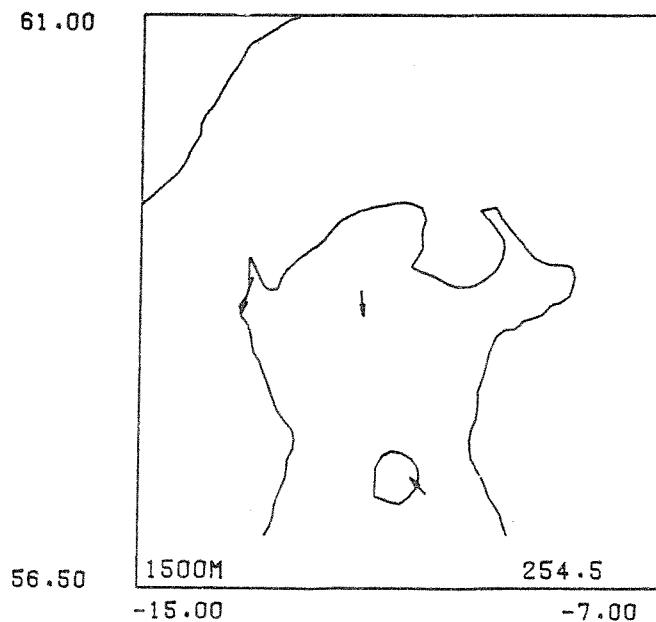
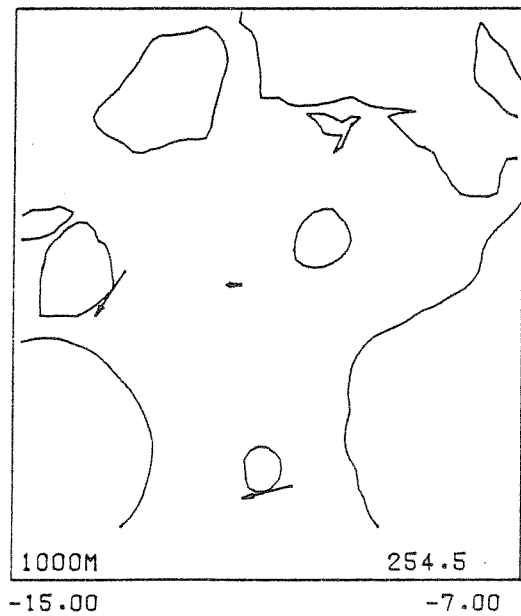
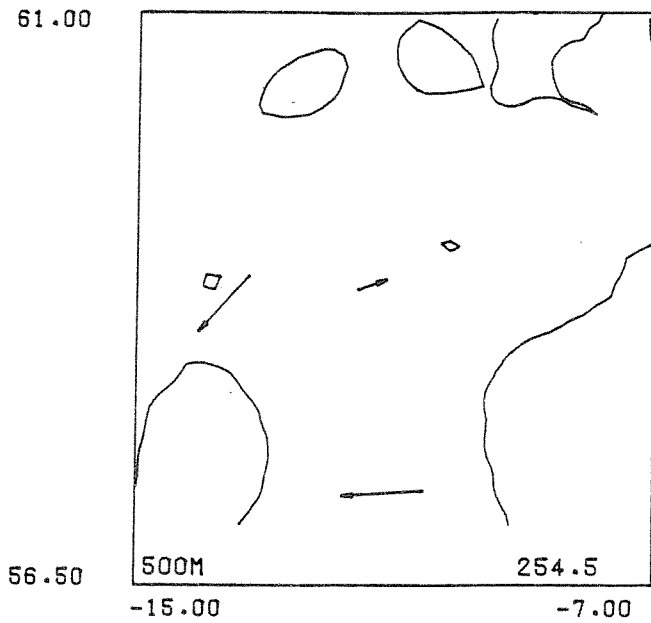
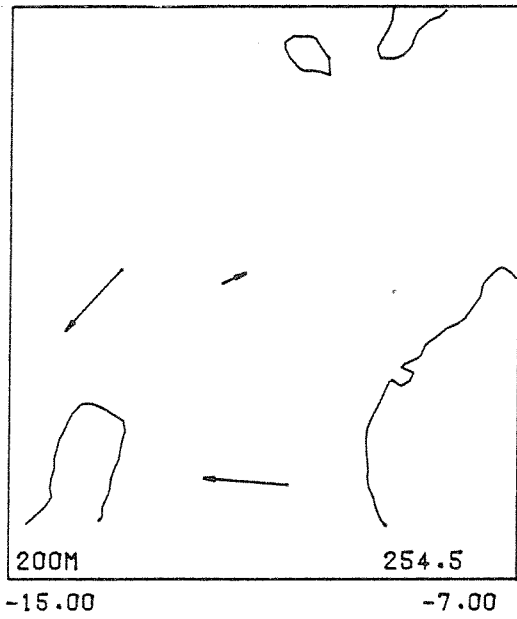
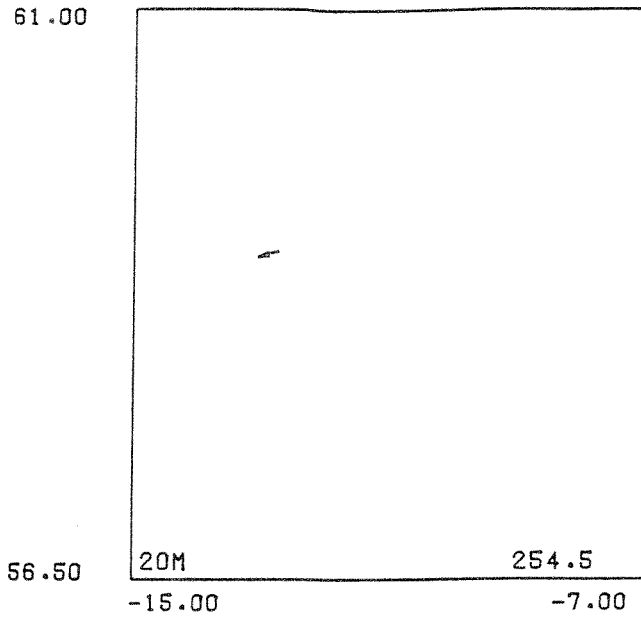
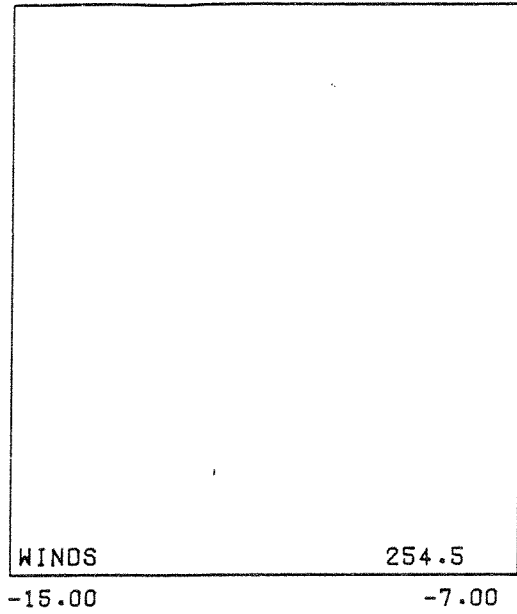
LONGITUDE

DAY 253

10 M/S (WINDS)

LATITUDE

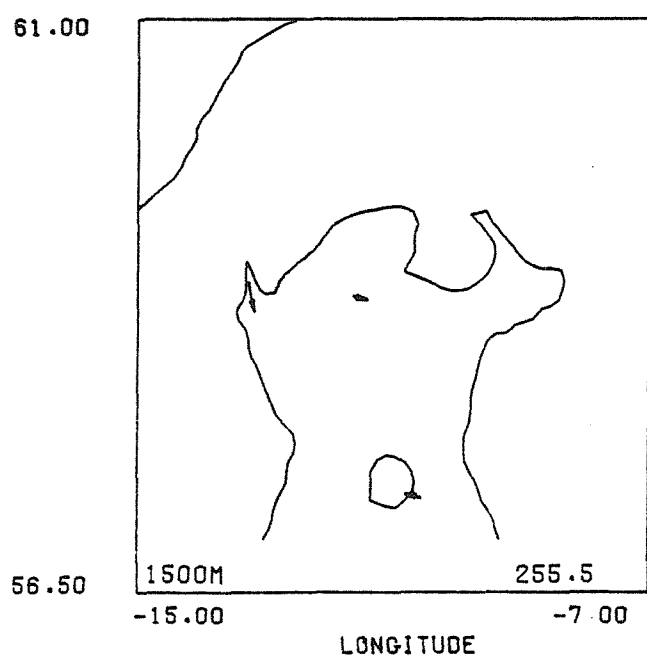
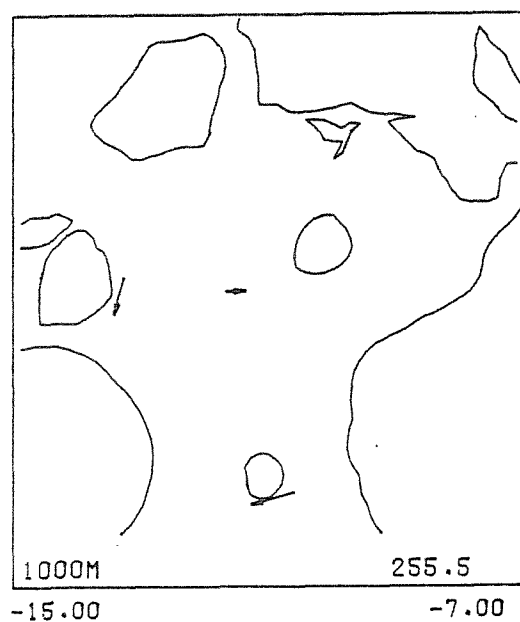
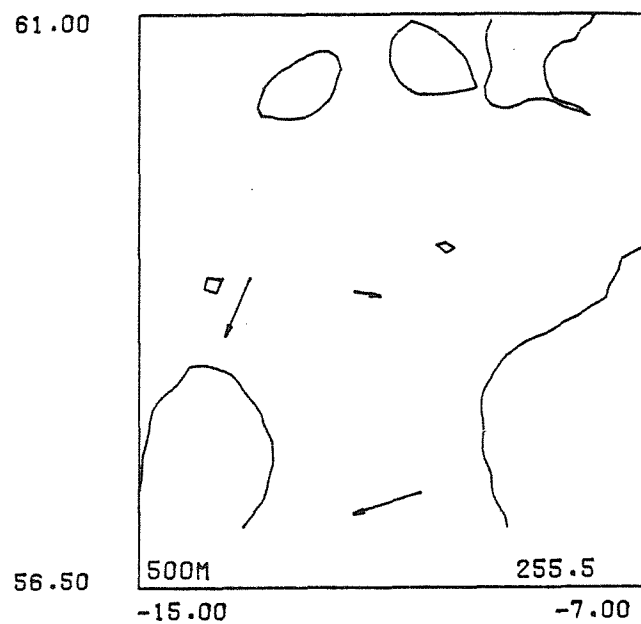
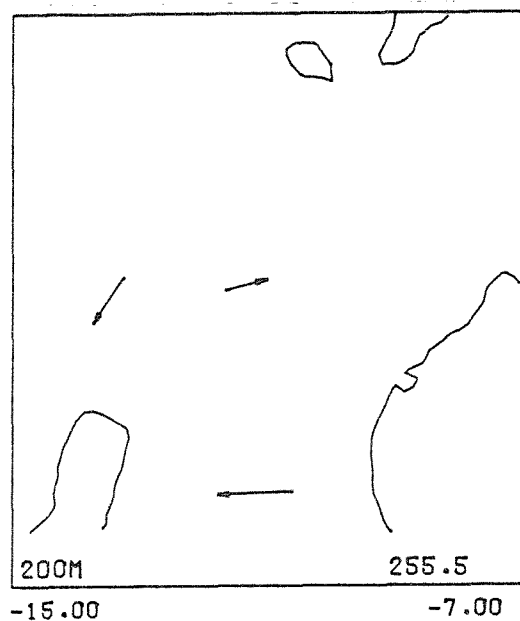
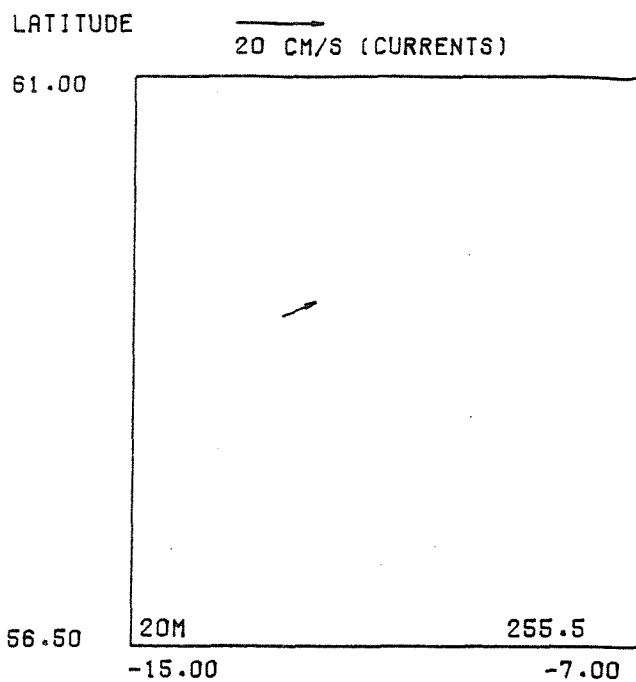
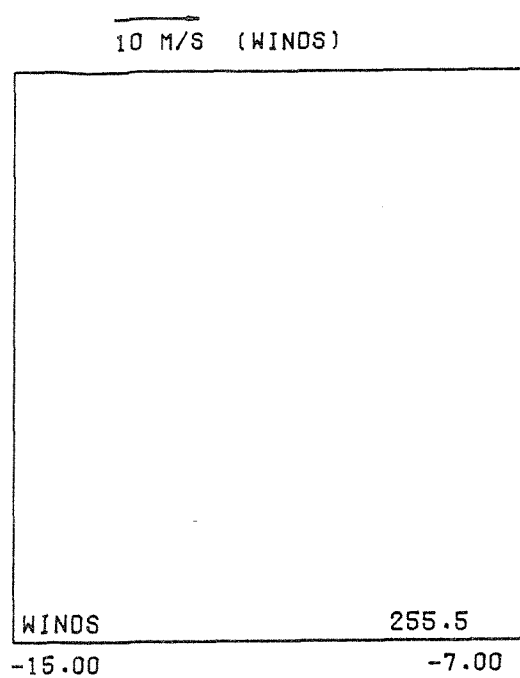
20 CM/S (CURRENTS)



LONGITUDE

LONGITUDE

DAY 254

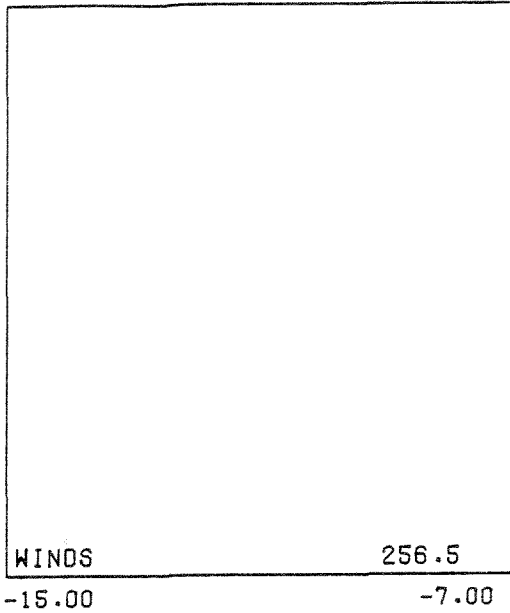


LONGITUDE

LONGITUDE

DAY 255

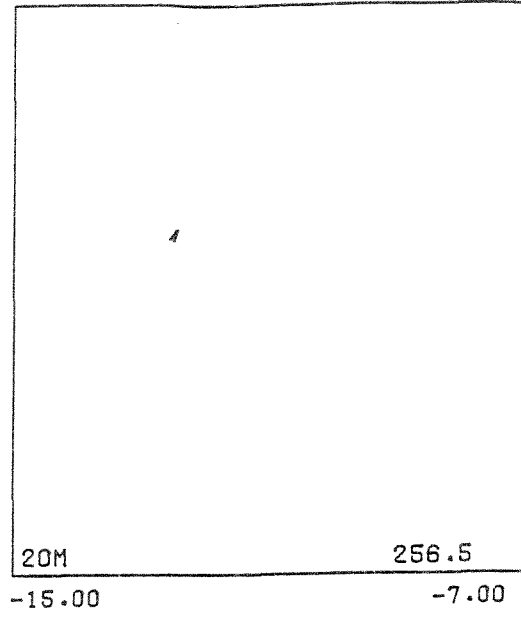
10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00

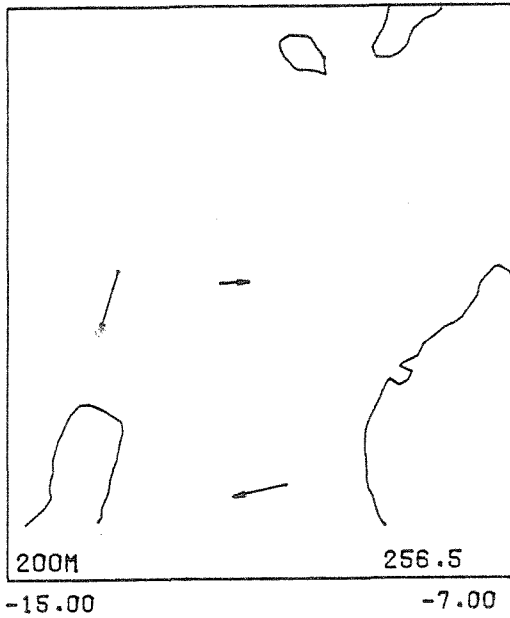


56.50

-15.00

-7.00

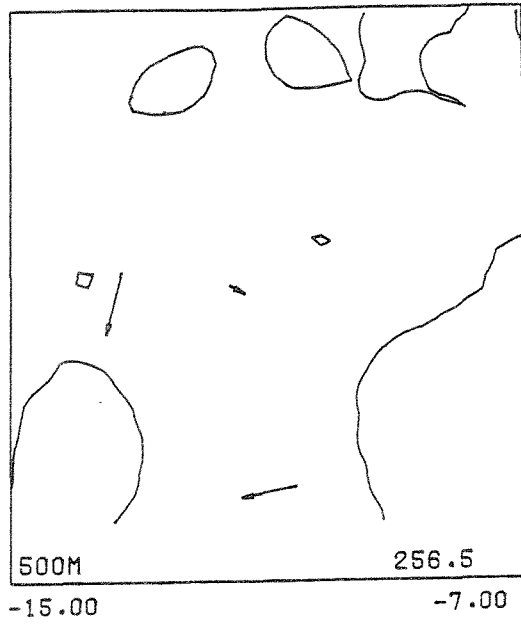
61.00



-15.00

-7.00

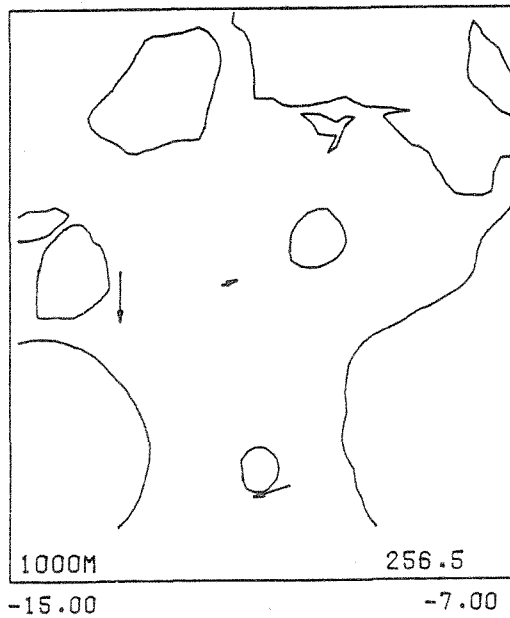
56.50



-15.00

-7.00

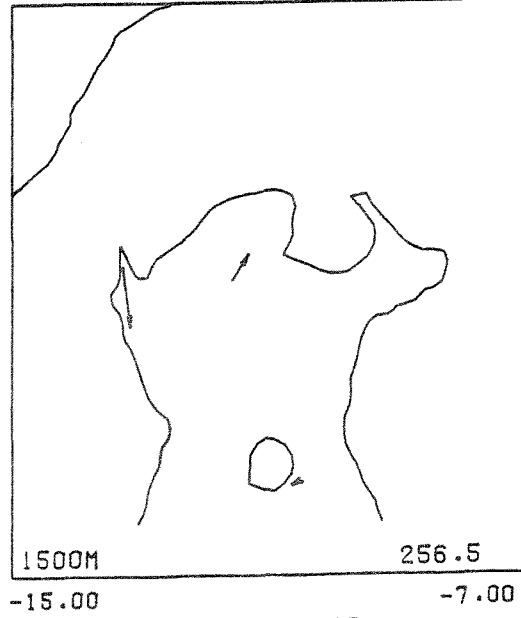
61.00



-15.00

-7.00

56.50



-15.00

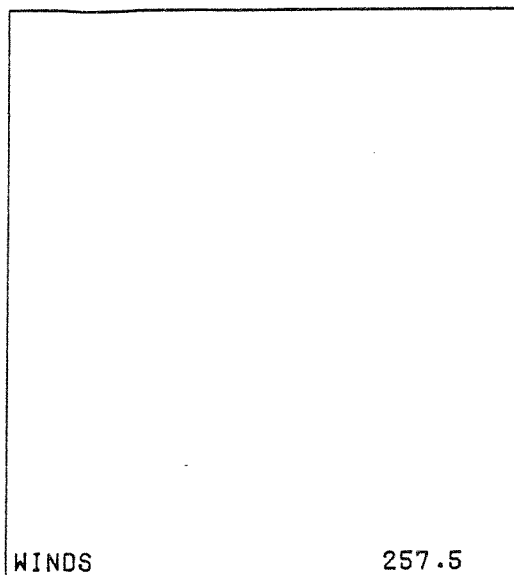
-7.00

LONGITUDE

LONGITUDE

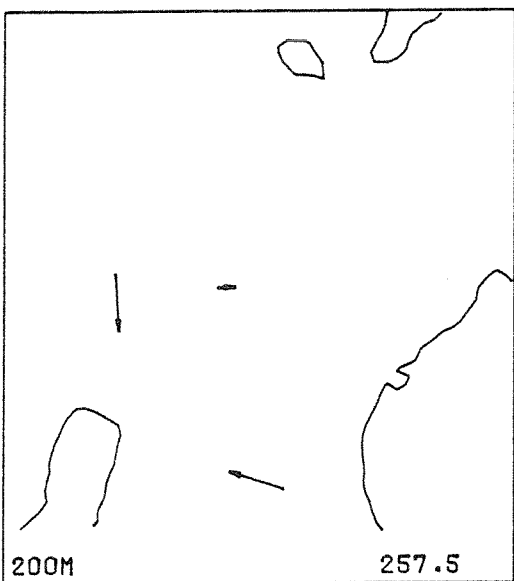
DAY 256

10 M/S (WINDS)



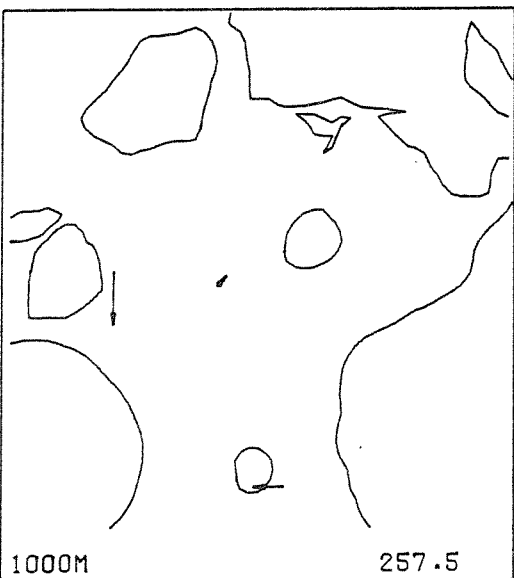
-15.00

-7.00



-15.00

-7.00



-15.00

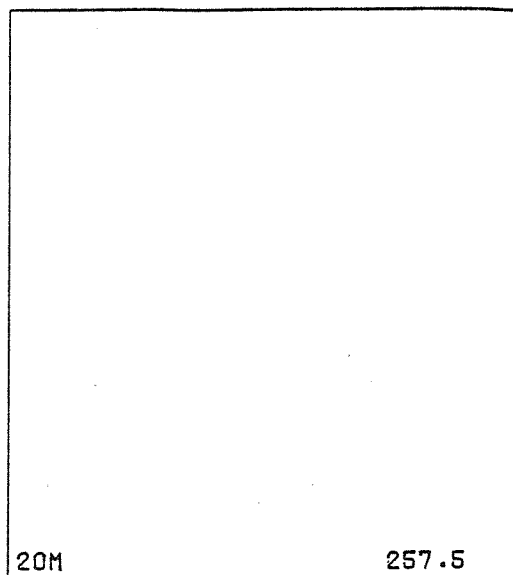
-7.00

LONGITUDE

LATITUDE

20 CM/S (CURRENTS)

61.00



56.50

-15.00

-7.00

61.00

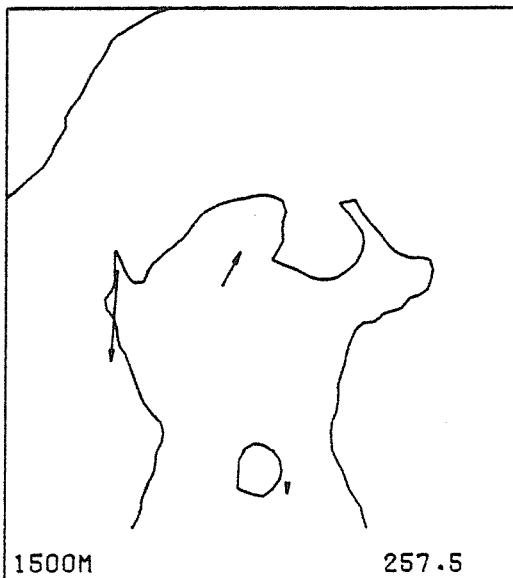


56.50

-15.00

-7.00

61.00



56.50

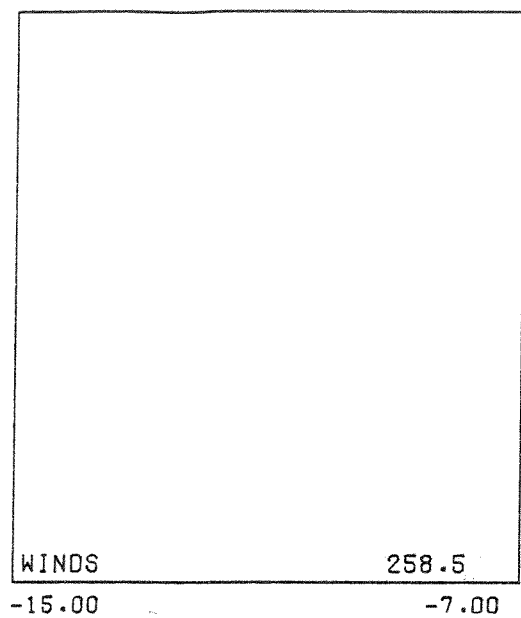
-15.00

-7.00

LONGITUDE

DAY 257

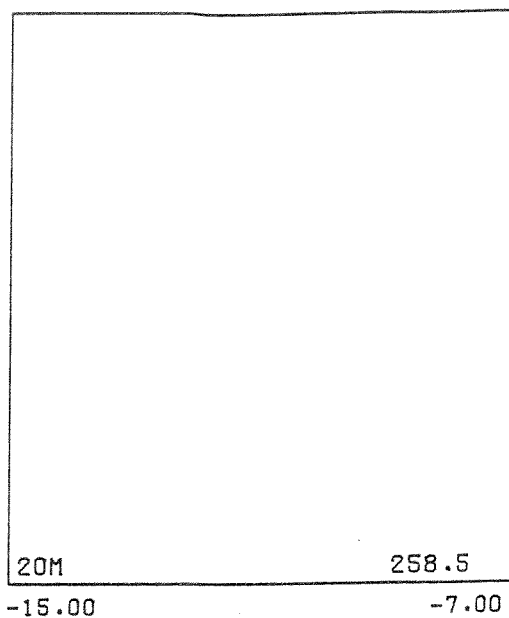
10 M/S (WINDS)



LATITUDE

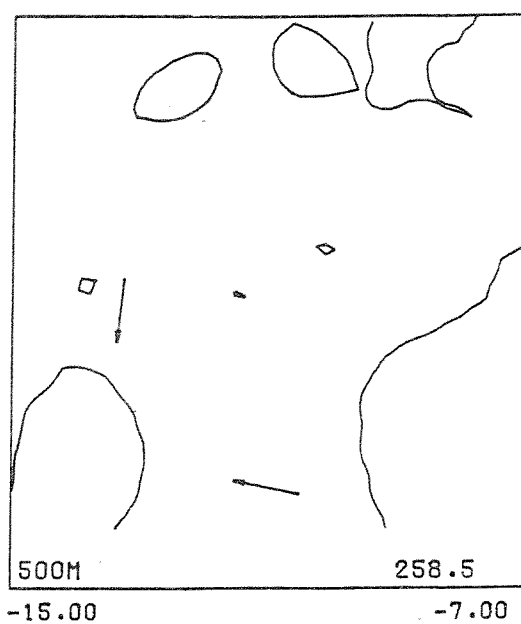
20 CM/S (CURRENTS)

61.00



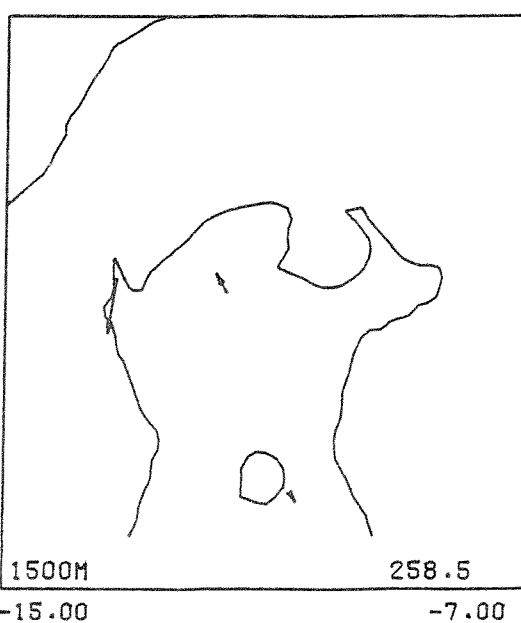
56.50

61.00

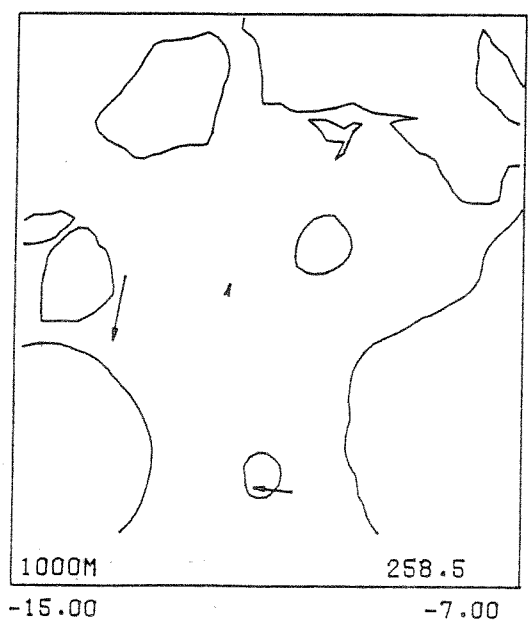
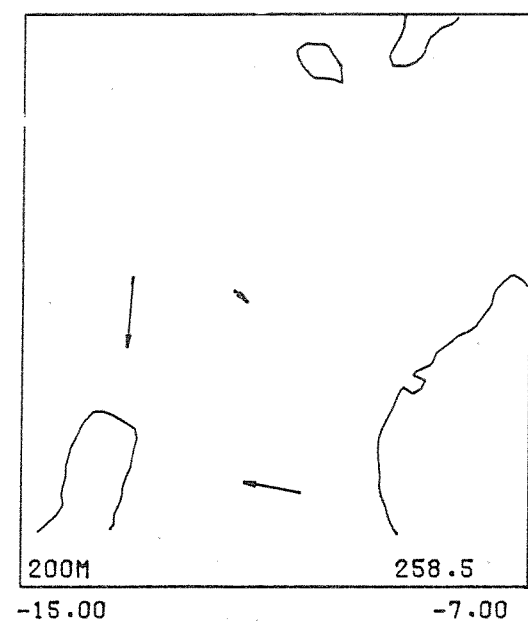


56.50

61.00



56.50

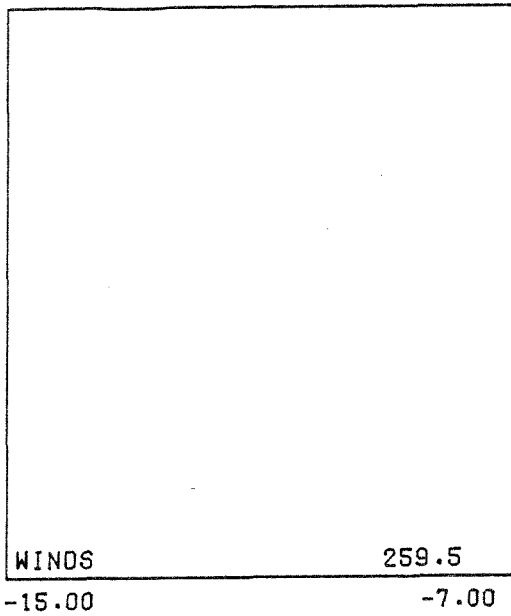


LONGITUDE

LONGITUDE

DAY 258

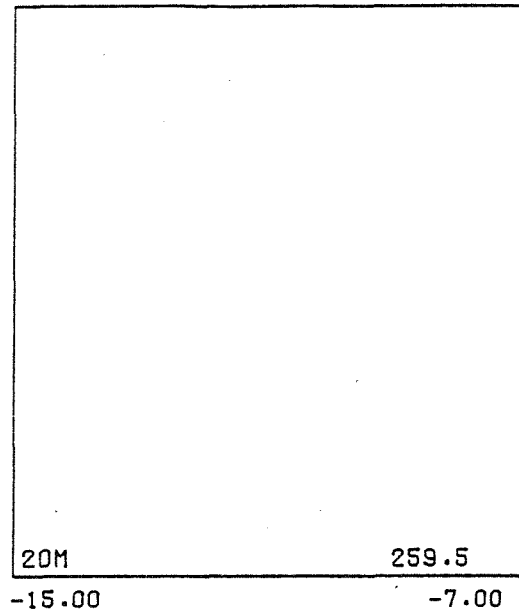
10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

61.00

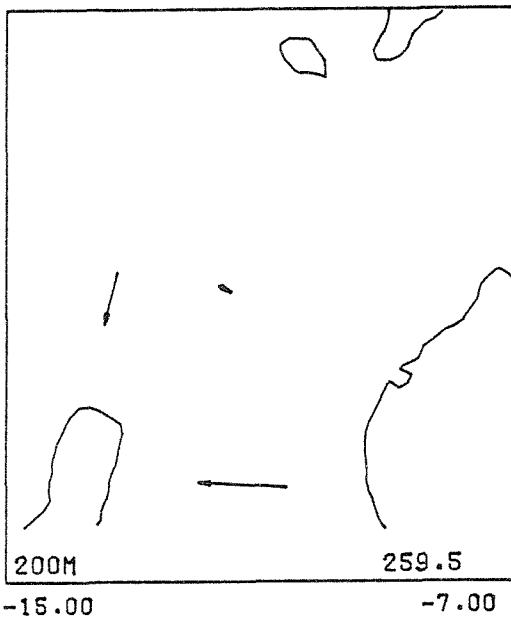


56.50

-15.00

-7.00

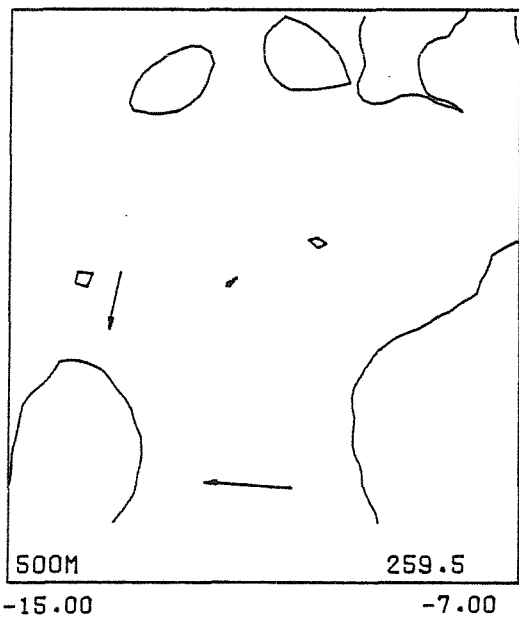
61.00



-15.00

-7.00

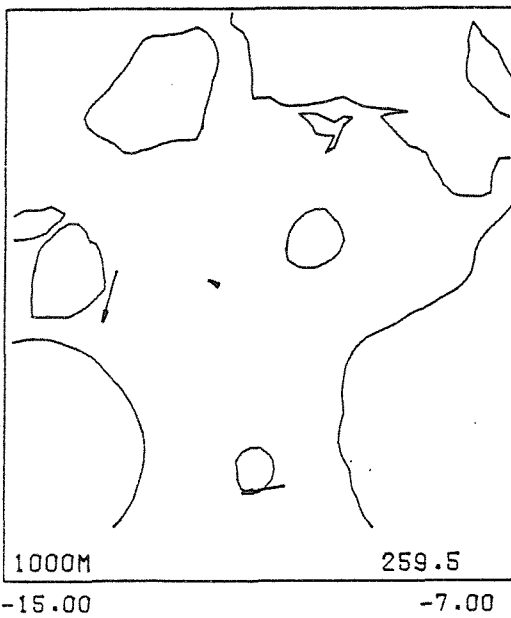
56.50



-15.00

-7.00

61.00

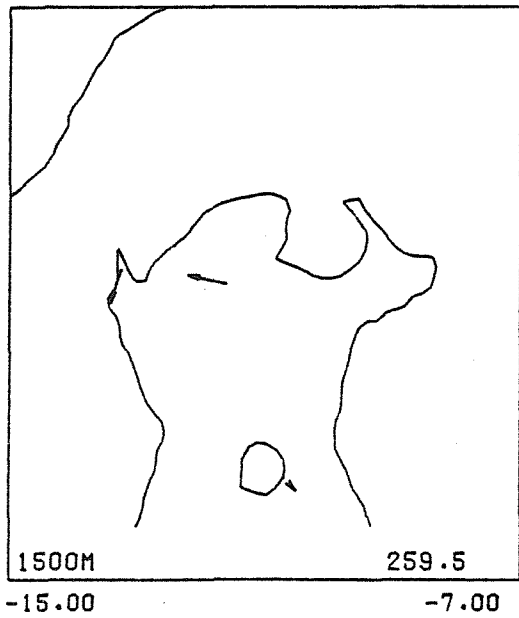


-15.00

-7.00

56.50

LONGITUDE



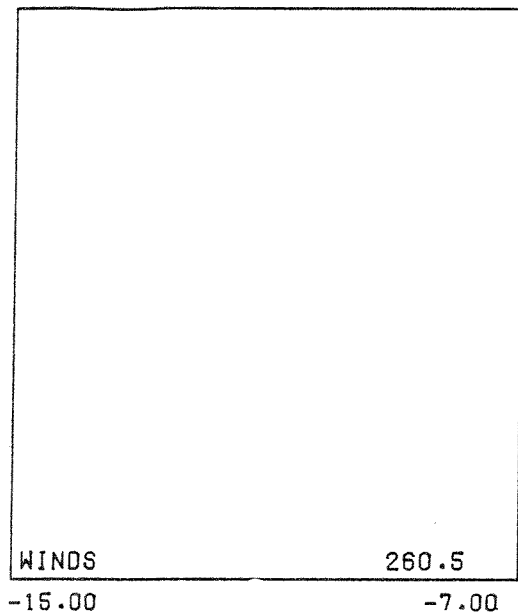
-15.00

-7.00

LONGITUDE

DAY 259

10 M/S (WINDS)



LATITUDE

20 CM/S (CURRENTS)

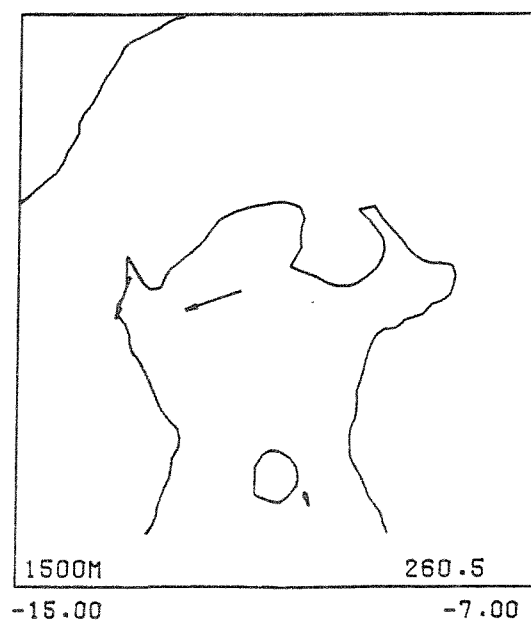
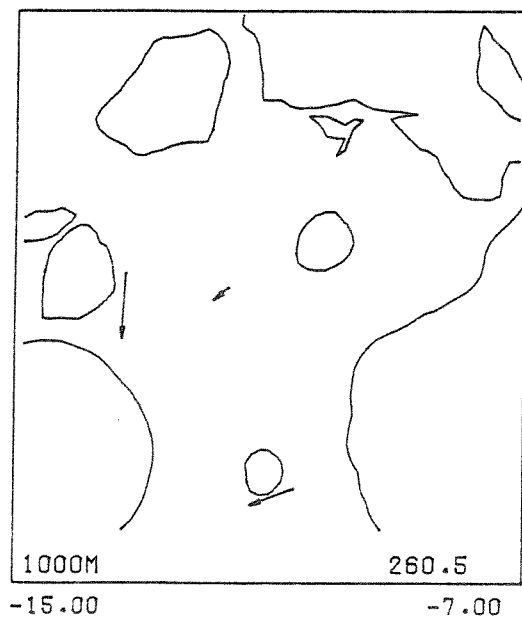
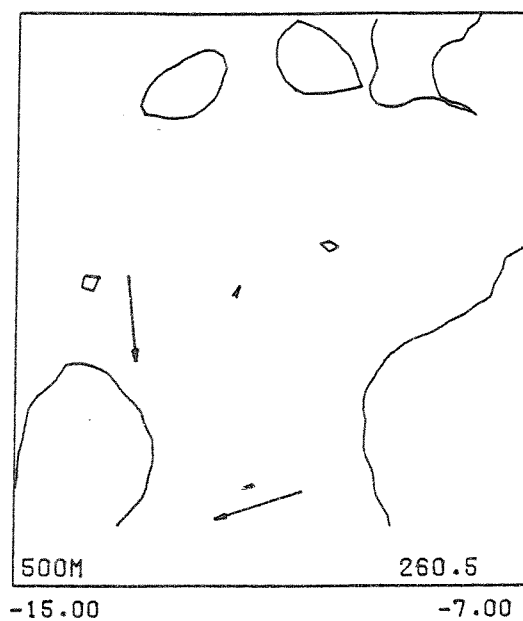
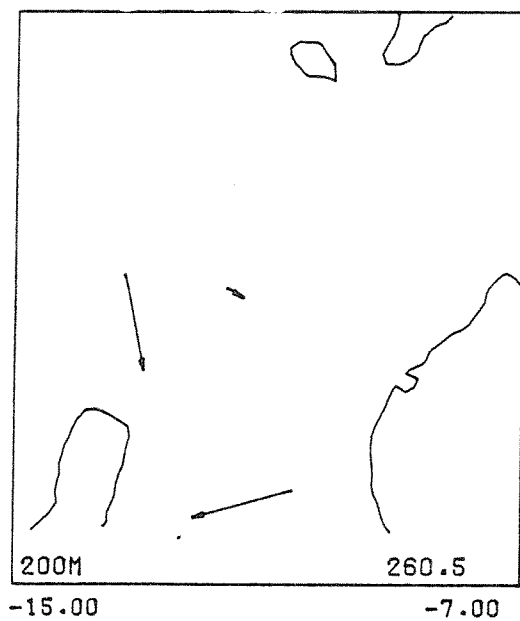
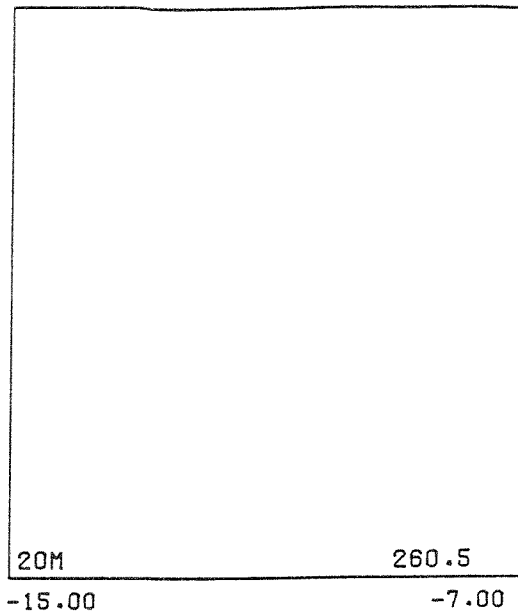
61.00

56.50

61.00

56.50

61.00

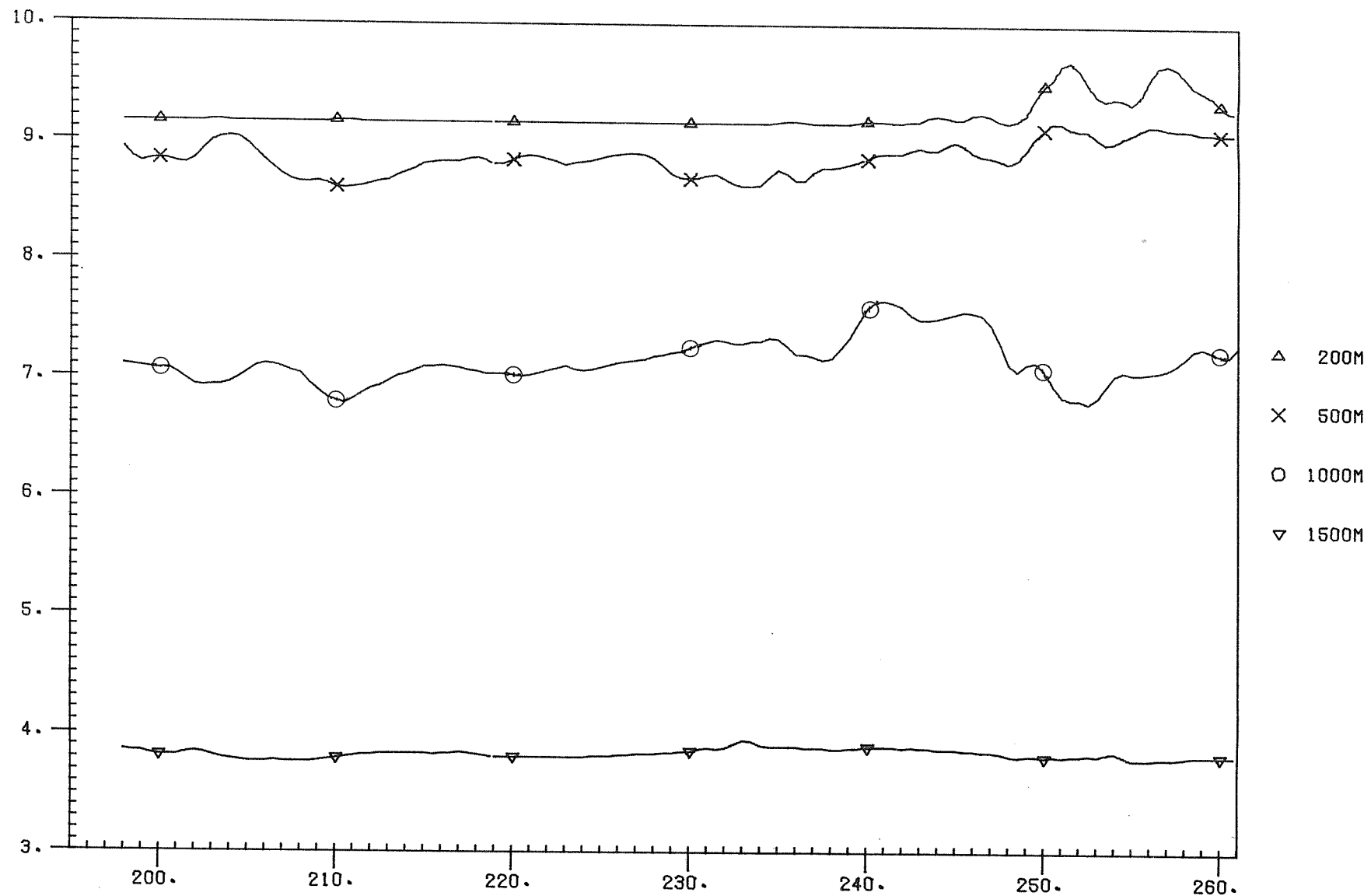


LONGITUDE

LONGITUDE

DAY 260

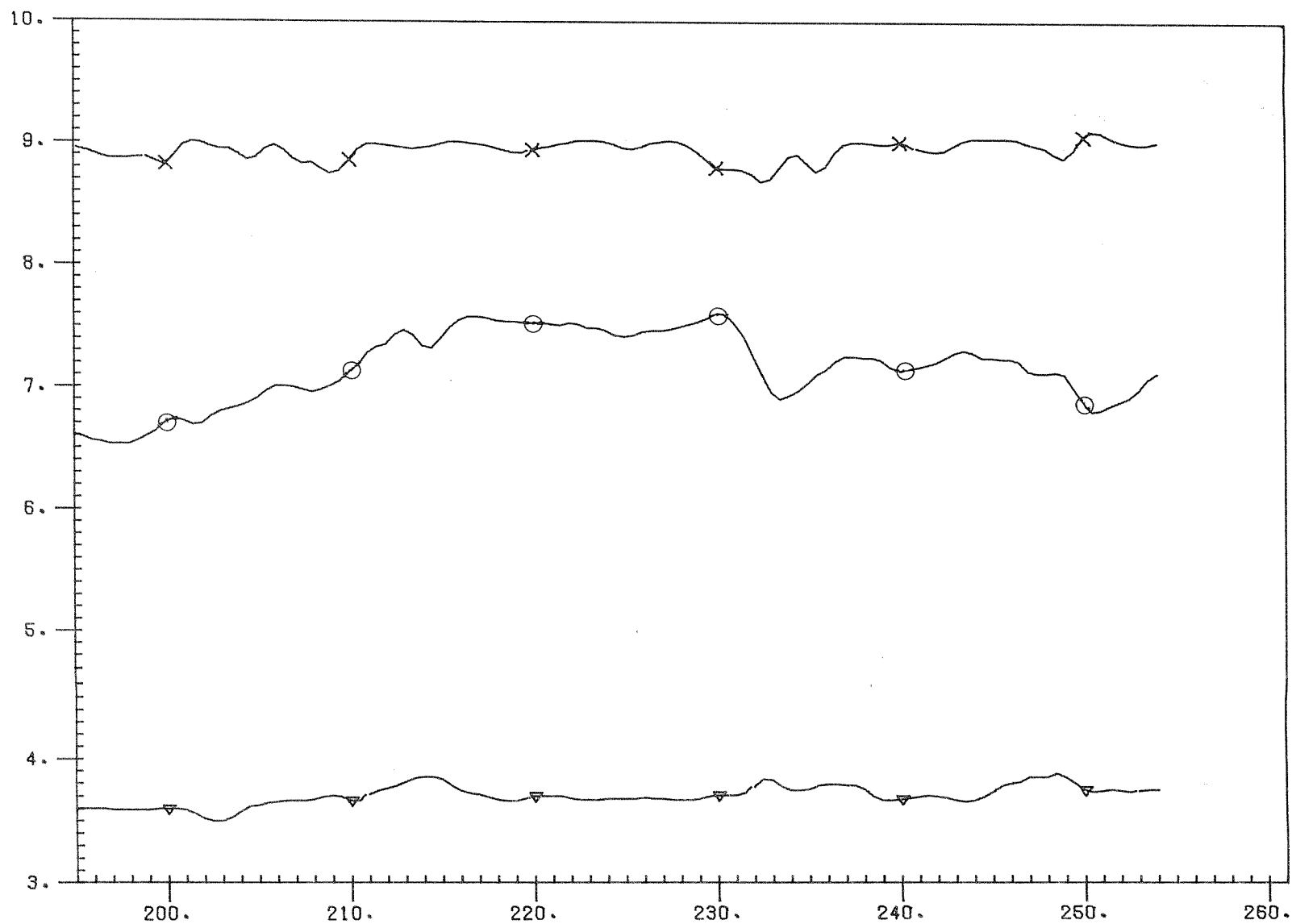
TEMPERATURE
CELSIUS



JASIN 78 : FILTERED TEMPERATURE FOR MOORING E3

DAYS 1978

TEMPERATURE
CELSIUS



JASIN 78 : FILTERED TEMPERATURE FOR MOORING E4

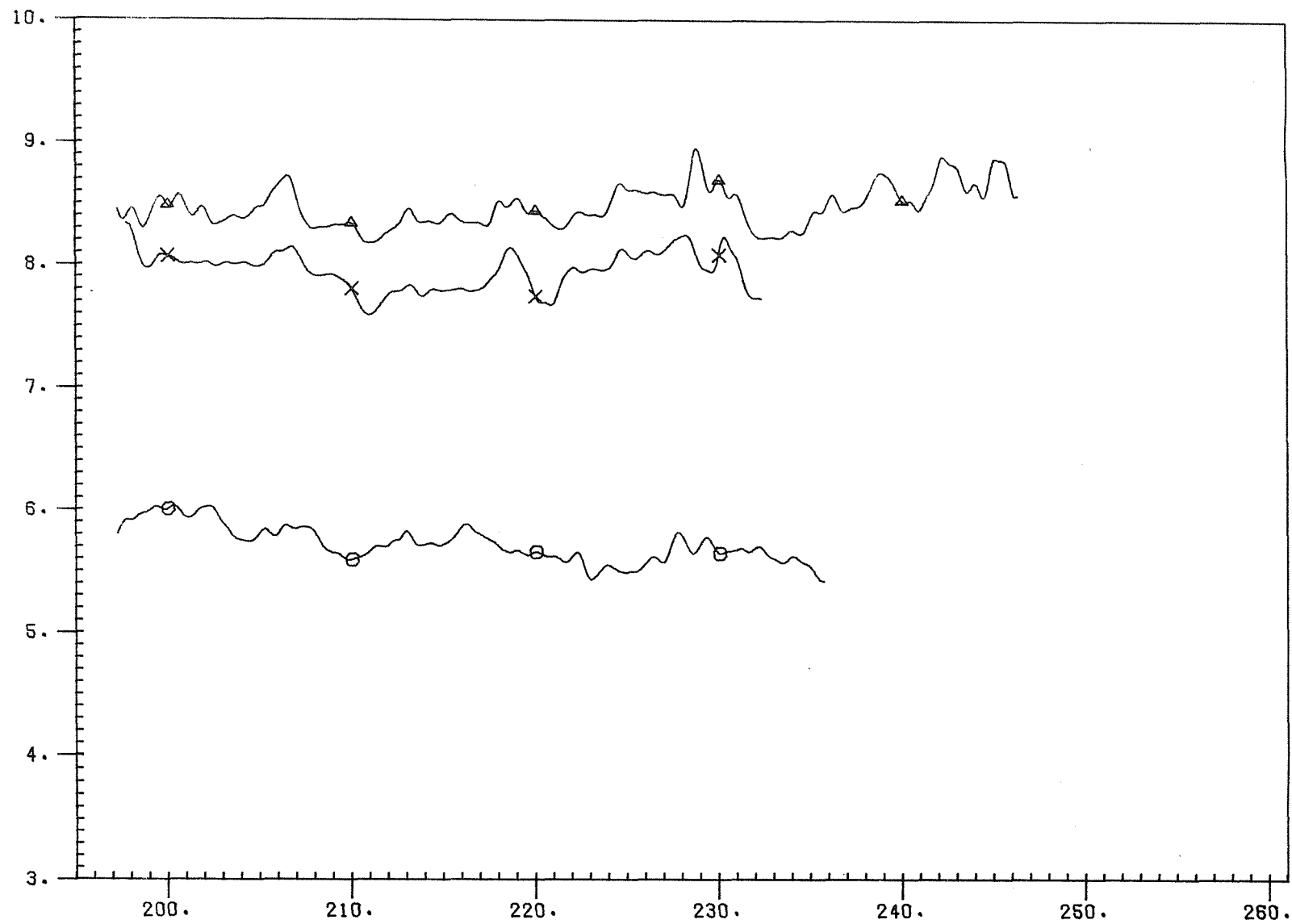
DAYS 1978

△ 200M
X 500M
○ 1000M
▽ 1500M

88

TEMPERATURE

CELSIUS



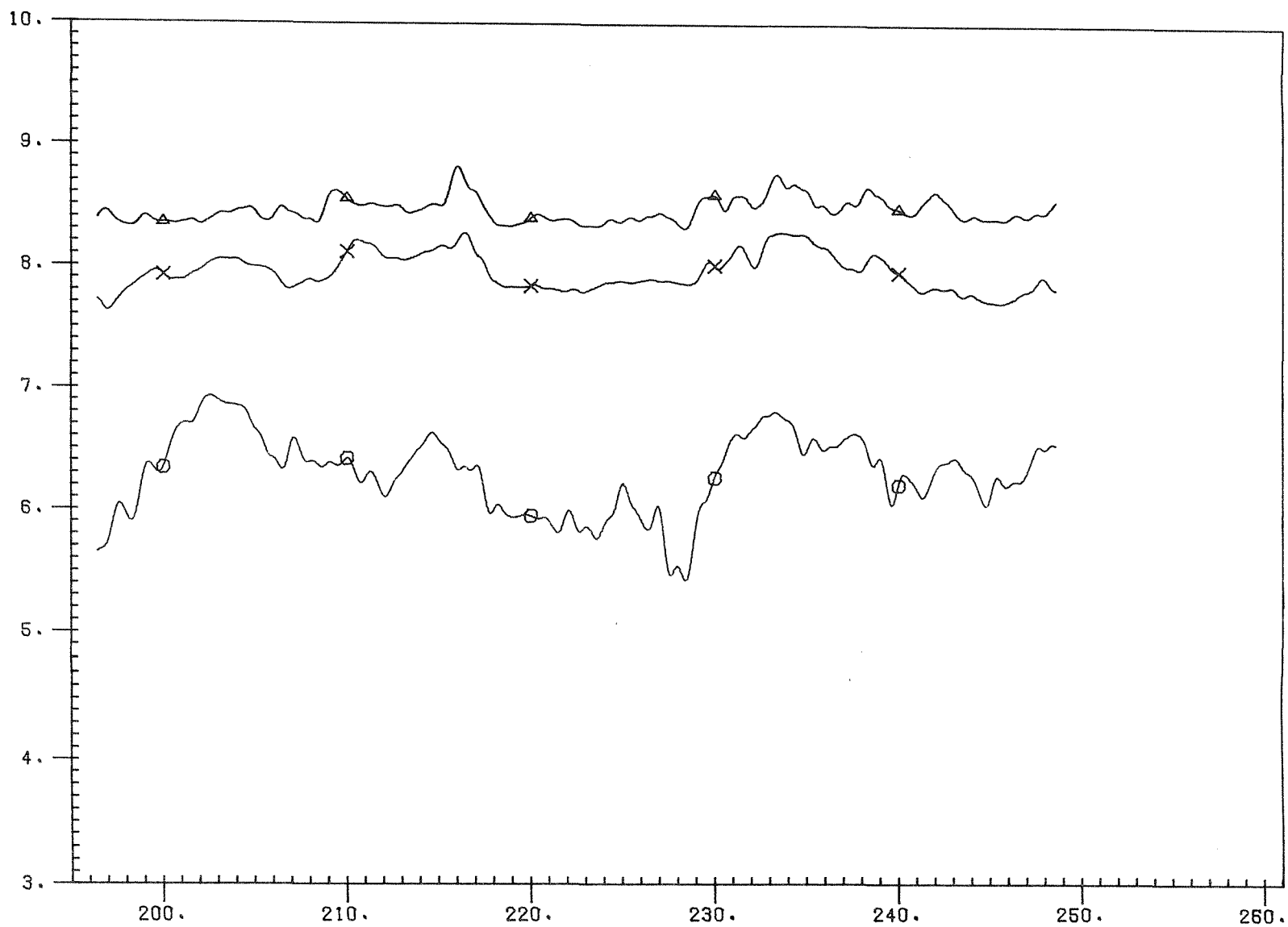
JASIN 78 : FILTERED TEMPERATURE FOR MOORING I1

DAYS 1978

△ 200M
× 500M
○ 1000M
▽ 1500M

89

TEMPERATURE
CELSIUS



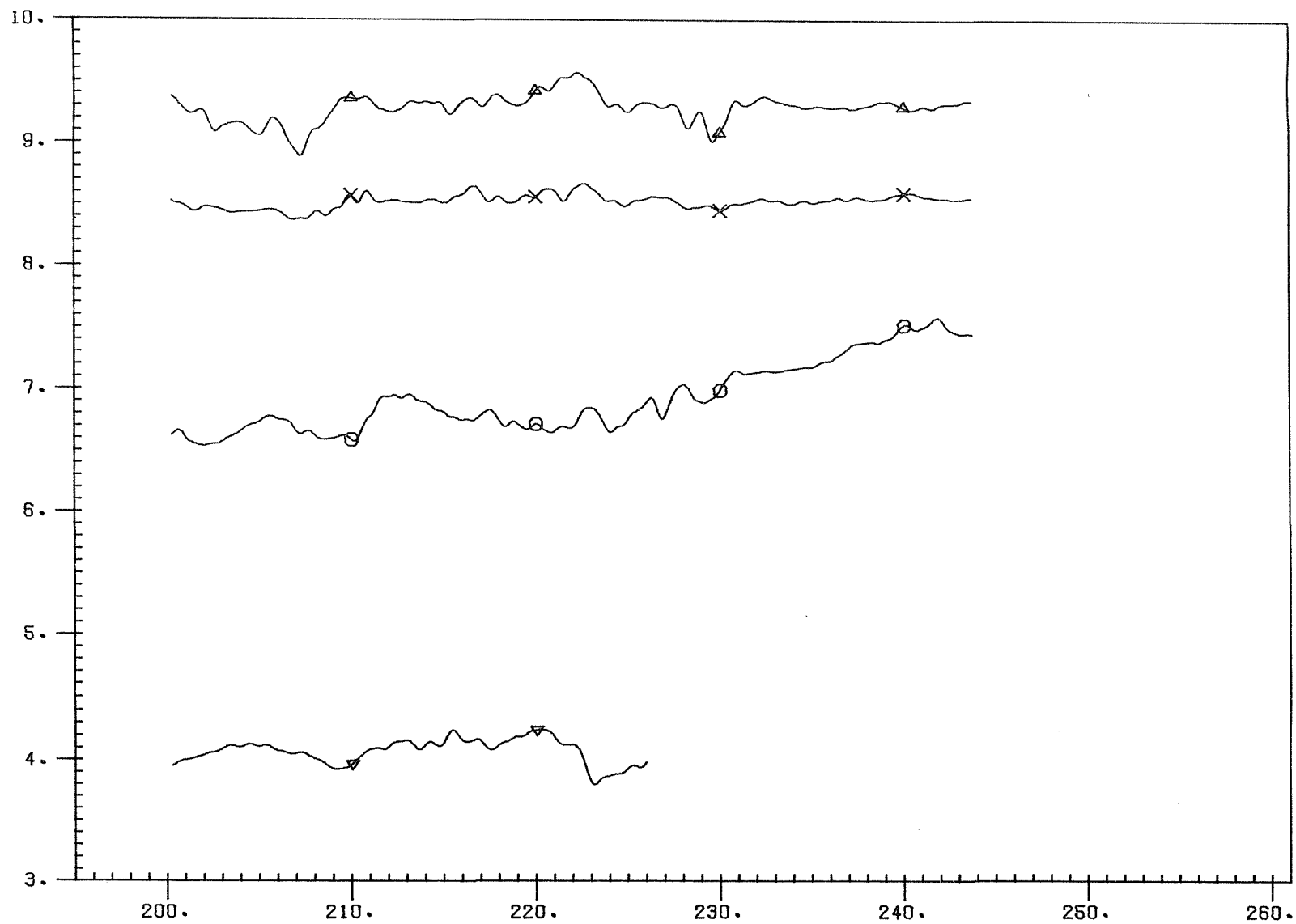
△ 200M
× 500M
○ 1000M
▽ 1500M

90

JASIN 78 : FILTERED TEMPERATURE FOR MOORING I2

DAYS 1978

TEMPERATURE
CELSIUS



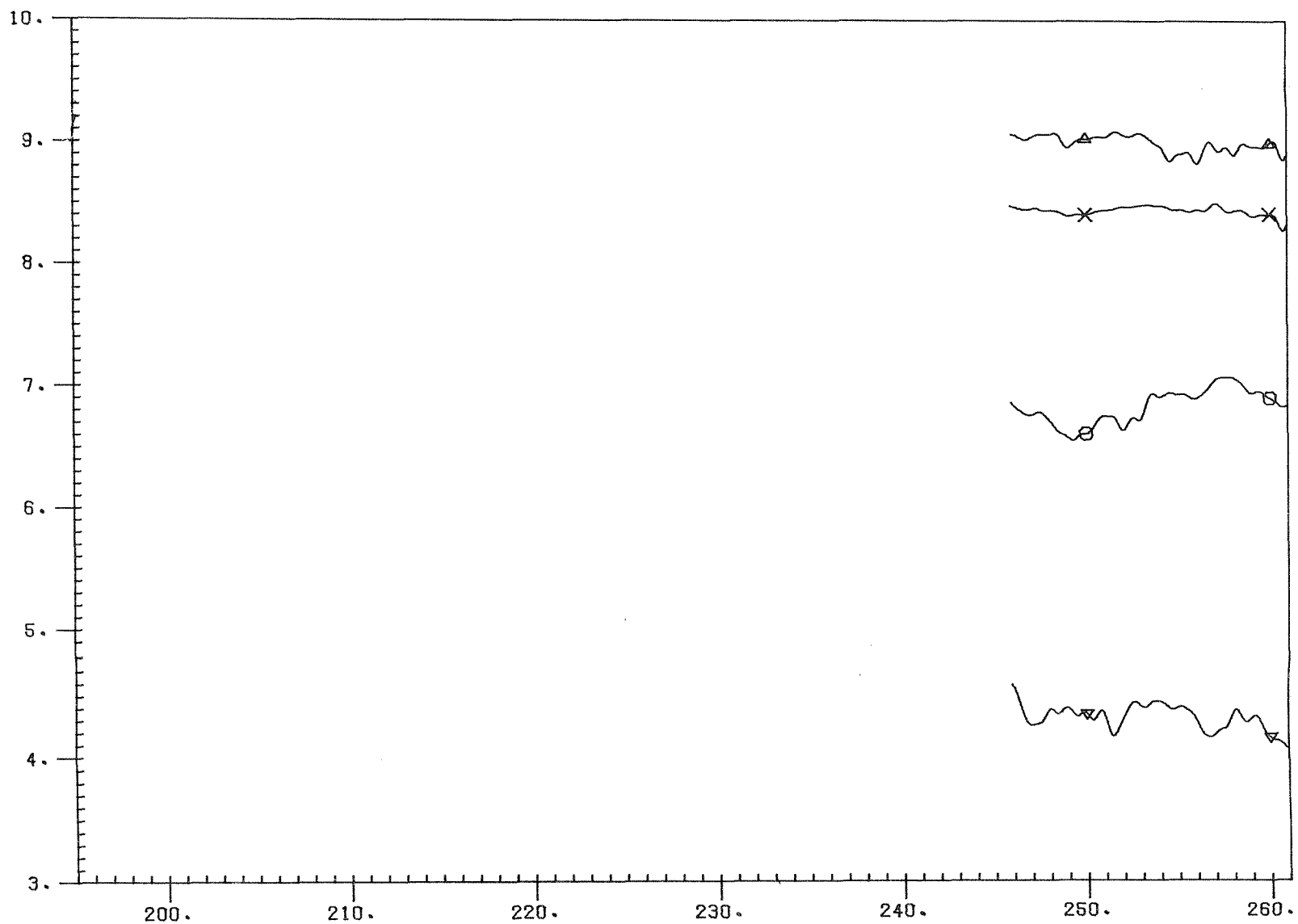
JASIN 78 : FILTERED TEMPERATURE FOR MOORING 13

DAYS 1978

△ 200M
X 500M
○ 1000M
▽ 1500M

91

TEMPERATURE
CELSIUS



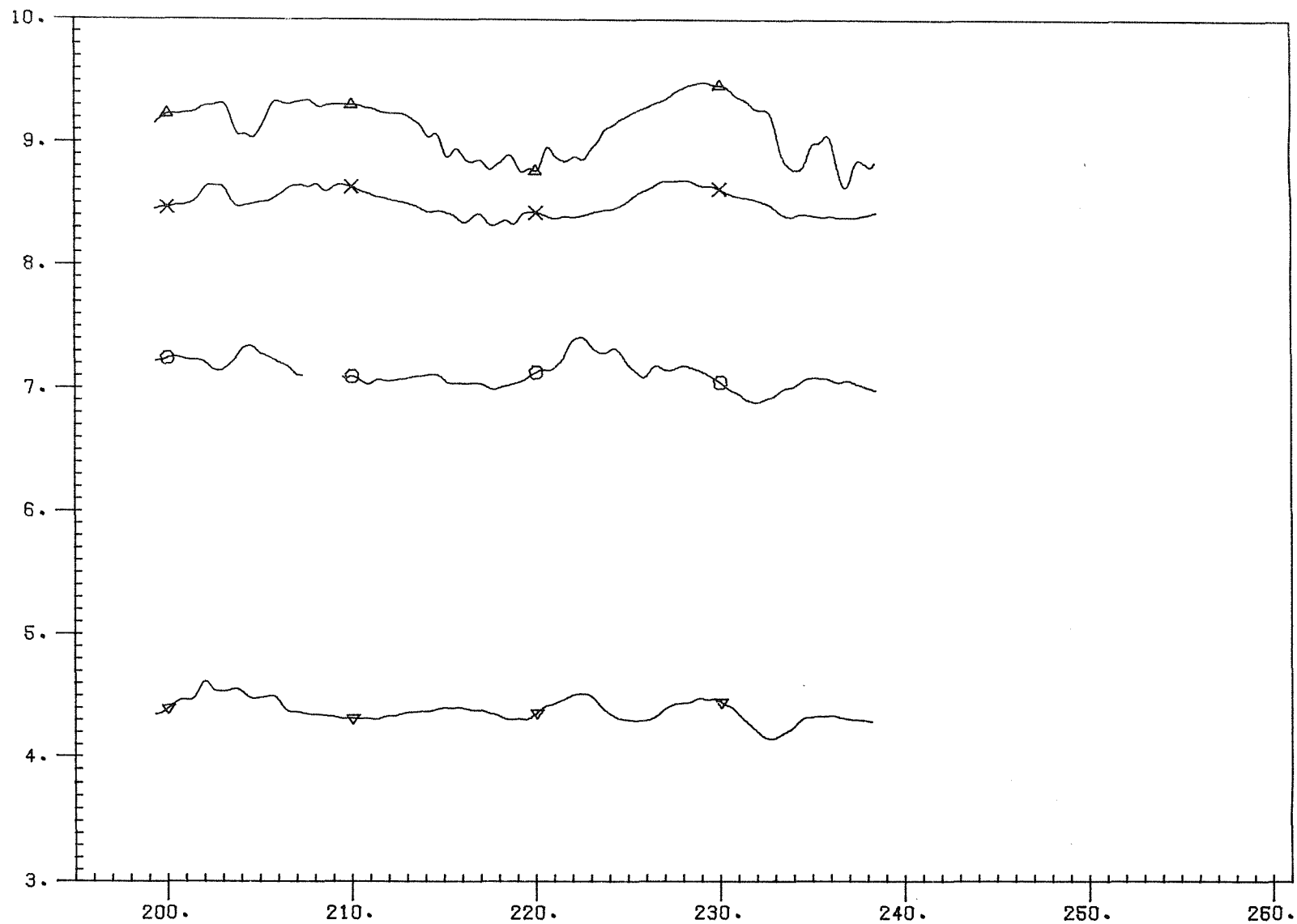
△ 200M
× 500M
○ 1000M
▽ 1500M

92

JASIN 78 : FILTERED TEMPERATURE FOR MOORING I3A

DAYS 1978

CELSIUS



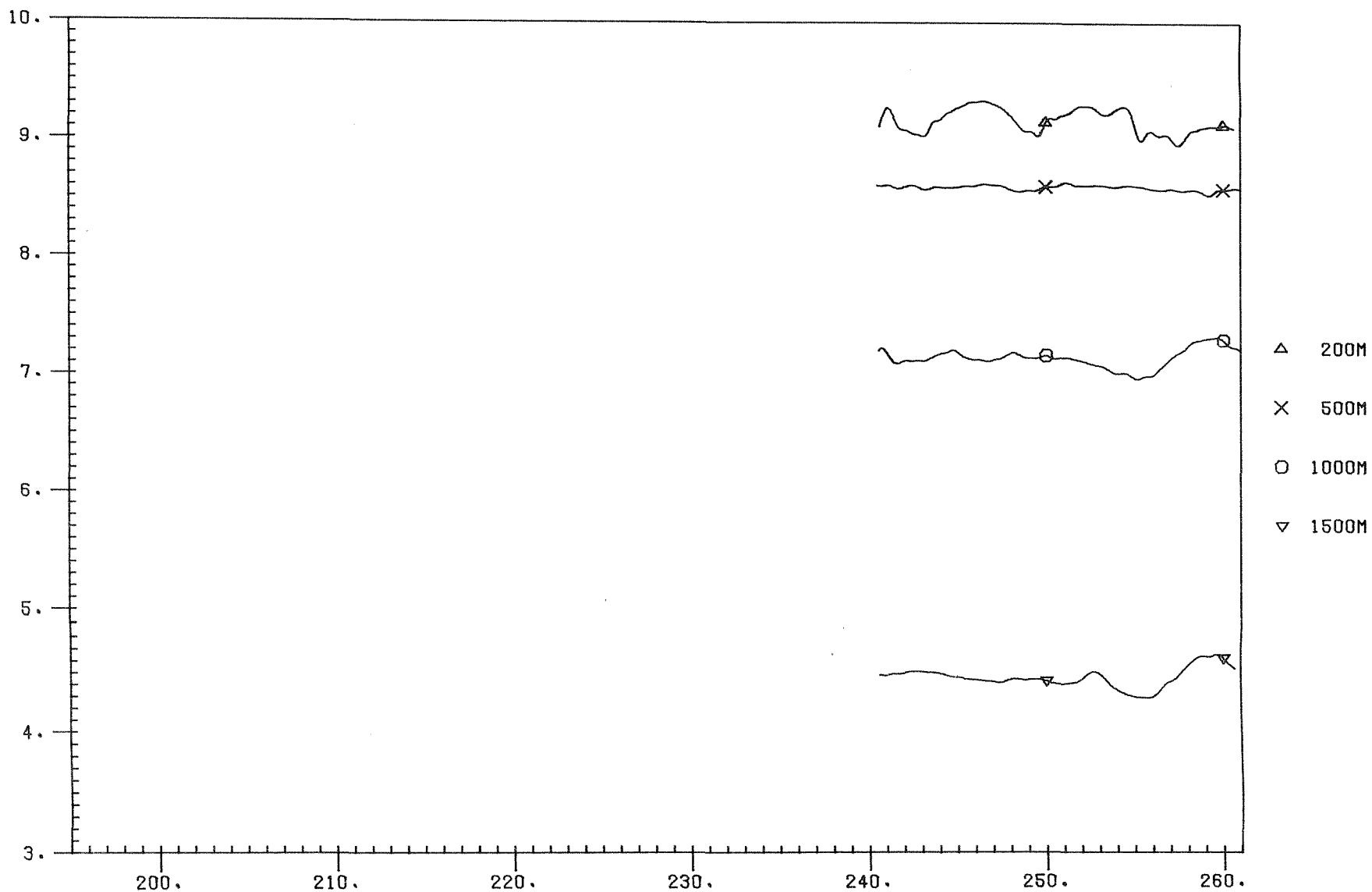
JASIN 78 : FILTERED TEMPERATURE FOR MOORING I4

DAYS 1978

△ 200M
× 500M
○ 1000M
▽ 1500M

93

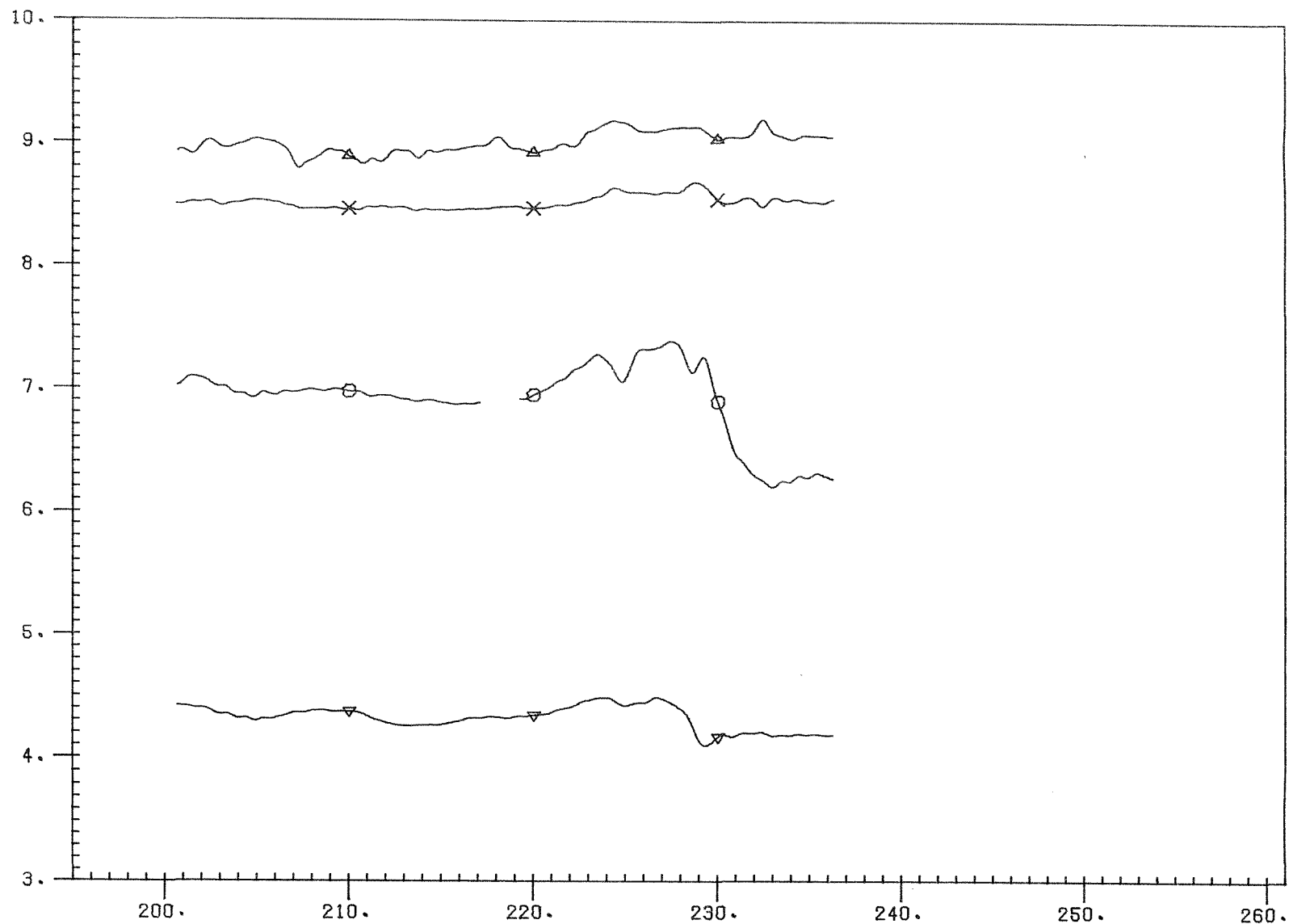
TEMPERATURE
CELSIUS



JASIN 78 : FILTERED TEMPERATURE FOR MOORING I4A

DAYS 1978

CELSIUS



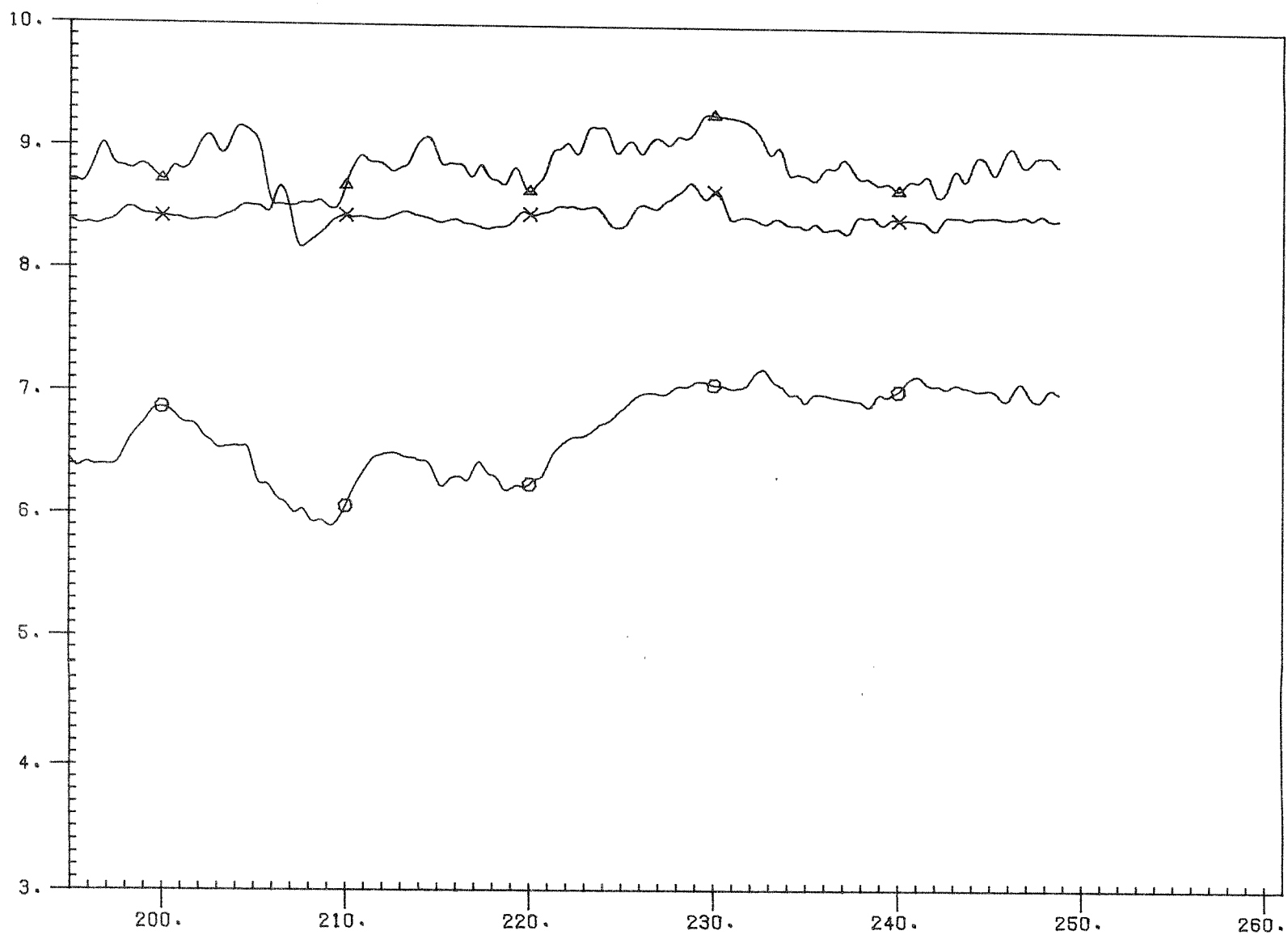
△ 200M
× 500M
○ 1000M
▽ 1500M

95

JASIN 78 : FILTERED TEMPERATURE FOR MOORING 15

DAYS 1978

TEMPERATURE
CELSIUS



JASIN 78 : FILTERED TEMPERATURE FOR MOORING K1

DAYS 1978

JASIN 1978 : SURFACE WIND DATA

DAY 1978	MOORING W2		ENDURER		HECLA	
	SPEED M/S	DRN:TRUE DEGREES	SPEED M/S	DRN:TRUE DEGREES	SPEED M/S	DRN:TRUE DEGREES
196.5	-999.00	-999.0	-999.00	-999.0	10.30	140.0
197.5	-999.00	-999.0	-999.00	-999.0	6.20	80.0
198.5	-999.00	-999.0	-999.00	-999.0	5.70	120.0
199.5	-999.00	-999.0	-999.00	-999.0	6.20	110.0
200.5	-999.00	-999.0	-999.00	-999.0	10.30	170.0
201.5	-999.00	-999.0	-999.00	-999.0	7.70	180.0
202.5	-999.00	-999.0	-999.00	-999.0	2.60	340.0
203.5	-999.00	-999.0	5.70	350.0	8.80	330.0
204.5	-999.00	-999.0	6.70	310.0	8.80	320.0
205.5	-999.00	-999.0	7.80	148.0	5.10	30.0
206.5	-999.00	-999.0	3.10	290.0	4.60	30.0
207.5	-999.00	-999.0	3.70	114.0	12.90	350.0
208.5	-999.00	-999.0	3.30	252.0	13.40	330.0
209.5	-999.00	-999.0	4.30	34.0	-999.00	-999.0
210.5	-999.00	-999.0	5.10	20.0	-999.00	-999.0
211.5	-999.00	-999.0	4.10	20.0	-999.00	-999.0
212.5	4.59	64.9	6.20	20.0	-999.00	-999.0
213.5	4.97	166.9	3.60	130.0	-999.00	-999.0
214.5	3.48	242.0	6.70	330.0	-999.00	-999.0
215.5	6.80	209.2	7.70	220.0	-999.00	-999.0
216.5	3.15	200.4	4.60	180.0	-999.00	-999.0
217.5	5.44	240.6	6.70	240.0	-999.00	-999.0
218.5	8.85	202.8	5.70	220.0	-999.00	-999.0
219.5	7.52	181.9	1.50	190.0	-999.00	-999.0
220.5	4.97	198.3	1.50	30.0	-999.00	-999.0
221.5	3.14	292.5	2.10	299.0	-999.00	-999.0
222.5	10.16	328.7	5.70	320.0	-999.00	-999.0
223.5	10.25	319.8	-999.00	-999.0	-999.00	-999.0
224.5	4.39	58.0	-999.00	-999.0	-999.00	-999.0
225.5	10.57	322.0	-999.00	-999.0	-999.00	-999.0
226.5	6.47	349.0	-999.00	-999.0	-999.00	-999.0
227.5	5.10	64.0	-999.00	-999.0	-999.00	-999.0
228.5	10.12	108.2	-999.00	-999.0	-999.00	-999.0
229.5	12.02	333.6	-999.00	-999.0	-999.00	-999.0
230.5	13.61	335.6	17.50	332.0	-999.00	-999.0
231.5	12.37	354.8	9.90	351.0	-999.00	-999.0
232.5	11.72	349.6	8.90	352.0	10.80	0.0
233.5	10.25	57.9	10.50	41.0	13.40	50.0
234.5	8.97	101.5	9.80	101.0	8.80	100.0
235.5	9.45	65.5	9.30	70.0	12.90	70.0
236.5	10.18	89.2	11.70	185.0	11.30	90.0
237.5	5.19	98.1	4.60	60.0	5.70	110.0
238.5	3.70	106.1	4.60	70.0	-999.00	-999.0
239.5	2.48	105.7	6.70	76.0	3.10	110.0
240.5	7.92	96.9	6.70	100.0	7.70	110.0

JASIN 1978 : SURFACE WIND DATA

DAY 1978	MOORING W2		ENDURER		HECLA	
	SPEED M/S	DRN:TRUE DEGREES	SPEED M/S	DRN:TRUE DEGREES	SPEED M/S	DRN:TRUE DEGREES
241.5	1.45	201.6	3.60	210.0	7.20	190.0
242.5	6.49	65.7	7.20	30.0	13.40	10.0
243.5	8.87	131.1	8.80	131.0	10.80	130.0
244.5	7.39	109.8	6.20	100.0	5.70	120.0
245.5	3.84	106.4	5.70	310.0	5.70	250.0
246.5	2.24	107.4	5.10	100.0	10.30	320.0
247.5	7.44	314.4	8.80	300.0	5.10	310.0
248.5	11.83	286.1	12.40	282.0	-999.00	-999.0
249.5	5.89	242.3	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : SURFACE WIND DATA

DAY 1978	JOHN MURRAY		METEOR	
	SPEED M/S	DRN:TRUE DEGEES	SPEED M/S	DRN:TRUE DEGREES
196.5	9.90	114.0	-999.00	-999.0
197.5	6.70	50.0	-999.00	-999.0
198.5	5.10	120.0	-999.00	-999.0
199.5	5.70	100.0	-999.00	-999.0
200.5	7.30	162.0	-999.00	-999.0
201.5	5.10	150.0	-999.00	-999.0
202.5	2.70	281.0	10.30	320.0
203.5	5.30	338.0	7.20	330.0
204.5	10.50	21.0	6.20	0.0
205.5	-999.00	-999.0	11.30	90.0
206.5	-999.00	-999.0	6.70	340.0
207.5	-999.00	-999.0	9.30	340.0
208.5	-999.00	-999.0	12.90	340.0
209.5	-999.00	-999.0	6.70	20.0
210.5	9.30	8.0	10.30	20.0
211.5	4.90	338.0	5.10	0.0
212.5	2.80	22.0	3.10	50.0
213.5	4.60	310.0	4.10	130.0
214.5	7.10	186.0	3.60	230.0
215.5	4.30	203.0	6.20	170.0
216.5	5.20	247.0	2.10	140.0
217.5	5.70	178.0	5.10	230.0
218.5	8.80	200.0	7.70	190.0
219.5	7.70	180.0	7.20	160.0
220.5	5.10	180.0	4.60	170.0
221.5	3.40	287.0	2.10	290.0
222.5	4.60	310.0	-999.00	-999.0
223.5	-999.00	-999.0	-999.00	-999.0
224.5	-999.00	-999.0	-999.00	-999.0
225.5	-999.00	-999.0	-999.00	-999.0
226.5	-999.00	-999.0	-999.00	-999.0
227.5	-999.00	-999.0	-999.00	-999.0
228.5	-999.00	-999.0	-999.00	-999.0
229.5	-999.00	-999.0	12.90	330.0
230.5	-999.00	-999.0	17.50	330.0
231.5	12.30	313.0	14.40	350.0
232.5	9.30	330.0	8.20	350.0
233.5	10.90	37.0	11.80	40.0
234.5	8.20	90.0	10.30	100.0
235.5	5.80	17.0	10.80	50.0
236.5	9.80	79.0	11.30	80.0
237.5	4.70	77.0	5.10	100.0
238.5	6.20	90.0	5.70	110.0
239.5	5.10	44.0	3.10	110.0
240.5	8.80	90.0	8.20	80.0

JASIN 1978 : SURFACE WIND DATA

DAY 1978	JOHN MURRAY		METEOR	
	SPEED M/S	DRN:TRUE DEGEES	SPEED M/S	DRN:TRUE DEGREES
241.5	5.20	203.0	1.00	180.0
242.5	-999.00	-999.0	6.70	70.0
243.5	-999.00	-999.0	10.80	120.0
244.5	-999.00	-999.0	8.20	110.0
245.5	-999.00	-999.0	99.99	100.0
246.5	-999.00	-999.0	3.60	110.0
247.5	-999.00	-999.0	7.20	300.0
248.5	-999.00	-999.0	-999.00	-999.0
249.5	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 20M

DAY 1978	SPEED:H2 CM/S	DRN:H2 DEGREES	SPEED:K2 CM/S	DRN:K2 DEGREES	SPEED:W2 CM/S	DRN:W2 DEGREES	SPEED:W3 CM/S	DRN:W3 DEGREES
198.5	5.66	252.9	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
199.5	8.05	277.9	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
200.5	12.09	259.6	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
201.5	5.54	300.9	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
202.5	5.58	21.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
203.5	4.02	287.8	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
204.5	4.48	320.6	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
205.5	6.00	337.8	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
206.5	10.06	316.9	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
207.5	10.85	346.8	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
208.5	15.22	57.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
209.5	1.99	51.1	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
210.5	3.94	53.6	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
211.5	4.16	329.1	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
212.5	7.97	320.0	-999.00	-999.0	17.39	302.3	-999.00	-999.0
213.5	2.62	348.0	-999.00	-999.0	14.18	295.0	14.96	310.7
214.5	6.99	9.8	-999.00	-999.0	16.81	307.6	23.80	308.0
215.5	6.01	14.8	-999.00	-999.0	22.07	306.6	26.97	310.4
216.5	4.13	109.8	-999.00	-999.0	22.68	290.2	26.36	291.4
217.5	4.48	75.6	-999.00	-999.0	19.36	296.4	24.87	304.5
218.5	3.06	347.8	-999.00	-999.0	18.49	320.9	27.23	316.3
219.5	5.08	191.8	-999.00	-999.0	18.51	322.6	25.18	320.5
220.5	6.10	151.9	-999.00	-999.0	20.94	332.4	22.82	327.8
221.5	4.95	107.6	-999.00	-999.0	14.98	357.5	20.84	356.9
222.5	3.53	154.9	-999.00	-999.0	12.02	352.9	19.08	1.2
223.5	6.24	184.7	-999.00	-999.0	15.14	358.6	21.99	0.8
224.5	10.59	206.2	-999.00	-999.0	11.55	328.5	13.99	342.5
225.5	5.75	200.0	-999.00	-999.0	5.86	345.1	13.60	3.8
226.5	18.29	211.5	-999.00	-999.0	4.66	337.4	7.98	340.5
227.5	21.33	214.7	-999.00	-999.0	4.81	346.5	7.61	348.7
228.5	17.54	219.8	-999.00	-999.0	3.04	201.3	5.26	272.8
229.5	11.78	231.9	-999.00	-999.0	6.83	33.2	13.29	26.7
230.5	2.29	204.0	-999.00	-999.0	7.91	24.8	14.05	7.7
231.5	6.24	164.0	-999.00	-999.0	3.95	52.4	9.32	26.2
232.5	5.97	186.6	-999.00	-999.0	2.81	57.8	7.08	40.9
233.5	20.37	168.2	-999.00	-999.0	11.57	182.1	11.62	182.5
234.5	15.30	170.9	-999.00	-999.0	14.70	190.1	12.92	184.1
235.5	14.05	181.3	-999.00	-999.0	10.67	217.9	10.61	224.3
236.5	14.37	196.2	-999.00	-999.0	13.33	216.3	14.59	222.5
237.5	9.86	161.6	20.79	211.4	8.30	237.7	8.81	231.8
238.5	13.05	194.6	7.41	212.6	6.81	263.1	6.10	251.6
239.5	14.01	198.5	8.65	201.8	11.55	210.3	10.75	214.5
240.5	16.76	206.4	9.76	192.4	11.04	228.4	8.82	228.7

JASIN 1978 : CURRENT METER DATA : 20M

DAY 1978	SPEED:H2 CM/S	DRN:H2 DEGREES	SPEED:K2 CM/S	DRN:K2 DEGREES	SPEED:W2 CM/S	DRN:W2 DEGREES	SPEED:W3 CM/S	DRN:W3 DEGREES
241.5	12.97	172.0	9.00	221.9	4.73	231.4	7.64	247.1
242.5	21.53	186.3	6.96	226.7	9.38	220.1	10.07	235.8
243.5	27.08	188.0	7.02	207.8	7.28	198.5	8.86	221.0
244.5	19.42	184.5	4.85	211.8	10.26	227.0	12.11	244.2
245.5	19.32	197.5	6.45	203.1	7.91	196.0	7.80	200.4
246.5	-999.00	-999.0	7.07	179.6	11.71	203.5	11.35	204.8
247.5	-999.00	-999.0	8.90	189.3	14.31	183.9	9.82	184.0
248.5	-999.00	-999.0	3.73	145.8	7.96	165.1	2.38	159.2
249.5	-999.00	-999.0	10.14	11.6	11.94	182.8	-999.00	-999.0
250.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
253.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
254.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
255.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
256.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 20M

DAY 1978	SPAR LATITUDE DEGREES	SPAR LONGITUDE DEGREES	SPAR SPEED CM/S	SPAR DRN DEGREES
198.5	-999.00	-999.00	-999.00	-999.0
199.5	-999.00	-999.00	-999.00	-999.0
200.5	-999.00	-999.00	-999.00	-999.0
201.5	-999.00	-999.00	-999.00	-999.0
202.5	-999.00	-999.00	-999.00	-999.0
203.5	-999.00	-999.00	-999.00	-999.0
204.5	-999.00	-999.00	-999.00	-999.0
205.5	-999.00	-999.00	-999.00	-999.0
206.5	-999.00	-999.00	-999.00	-999.0
207.5	-999.00	-999.00	-999.00	-999.0
208.5	-999.00	-999.00	-999.00	-999.0
209.5	-999.00	-999.00	-999.00	-999.0
210.5	-999.00	-999.00	-999.00	-999.0
211.5	59.44	-12.45	3.49	40.9
212.5	59.47	-12.40	5.74	12.7
213.5	-999.00	-999.00	-999.00	-999.0
214.5	-999.00	-999.00	-999.00	-999.0
215.5	59.20	-12.77	17.74	295.8
216.5	59.19	-13.00	14.02	273.8
217.5	59.19	-13.23	6.28	304.8
218.5	59.16	-13.43	9.32	285.4
219.5	-999.00	-999.00	-999.00	-999.0
220.5	-999.00	-999.00	-999.00	-999.0
221.5	59.18	-12.53	14.59	313.2
222.5	59.25	-12.74	10.68	298.0
223.5	59.35	-12.92	7.13	328.7
224.5	59.42	-13.05	5.49	260.7
225.5	59.47	-13.14	11.68	20.4
226.5	-999.00	-999.00	-999.00	-999.0
227.5	-999.00	-999.00	-999.00	-999.0
228.5	-999.00	-999.00	-999.00	-999.0
229.5	-999.00	-999.00	-999.00	-999.0
230.5	-999.00	-999.00	-999.00	-999.0
231.5	-999.00	-999.00	-999.00	-999.0
232.5	-999.00	-999.00	-999.00	-999.0
233.5	-999.00	-999.00	-999.00	-999.0
234.5	-999.00	-999.00	-999.00	-999.0
235.5	-999.00	-999.00	-999.00	-999.0
236.5	59.04	-12.57	18.83	217.4
237.5	59.00	-12.67	8.07	264.8
238.5	59.00	-12.77	8.15	292.1
239.5	-999.00	-999.00	-999.00	-999.0
240.5	-999.00	-999.00	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 20M

DAY 1978	SPAR LATITUDE DEGREES	SPAR LONGITUDE DEGREES	SPAR SPEED CM/S	SPAR DRN DEGREES
241.5	-999.00	-999.00	-999.00	-999.0
242.5	58.91	-12.35	8.06	126.4
243.5	58.85	-12.18	7.96	142.1
244.5	-999.00	-999.00	-999.00	-999.0
245.5	-999.00	-999.00	-999.00	-999.0
246.5	59.40	-12.62	24.74	182.4
247.5	59.28	-12.65	17.76	167.4
248.5	59.24	-12.81	6.66	305.6
249.5	59.24	-13.01	11.18	303.7
250.5	59.29	-13.13	5.70	92.9
253.5	59.15	-12.65	4.35	214.7
254.5	59.09	-12.74	4.86	254.1
255.5	59.11	-12.68	8.27	66.1
256.5	59.16	-12.55	2.04	24.1

JASIN 1978 : FLOAT DATA : 20M

DAY 1978	DOPY LATITUDE DEGREES	DOPY LONGITUDE DEGREES	DOPY SPEED CM/S	DOPY DRN DEGREES
198.5	-999.00	-999.00	-999.00	-999.0
199.5	-999.00	-999.00	-999.00	-999.0
200.5	-999.00	-999.00	-999.00	-999.0
201.5	-999.00	-999.00	-999.00	-999.0
202.5	-999.00	-999.00	-999.00	-999.0
203.5	-999.00	-999.00	-999.00	-999.0
204.5	-999.00	-999.00	-999.00	-999.0
205.5	-999.00	-999.00	-999.00	-999.0
206.5	-999.00	-999.00	-999.00	-999.0
207.5	-999.00	-999.00	-999.00	-999.0
208.5	-999.00	-999.00	-999.00	-999.0
209.5	-999.00	-999.00	-999.00	-999.0
210.5	-999.00	-999.00	-999.00	-999.0
211.5	-999.00	-999.00	-999.00	-999.0
212.5	-999.00	-999.00	-999.00	-999.0
213.5	-999.00	-999.00	-999.00	-999.0
214.5	-999.00	-999.00	-999.00	-999.0
215.5	-999.00	-999.00	-999.00	-999.0
216.5	-999.00	-999.00	-999.00	-999.0
217.5	-999.00	-999.00	-999.00	-999.0
218.5	-999.00	-999.00	-999.00	-999.0
219.5	-999.00	-999.00	-999.00	-999.0
220.5	-999.00	-999.00	-999.00	-999.0
221.5	-999.00	-999.00	-999.00	-999.0
222.5	-999.00	-999.00	-999.00	-999.0
223.5	-999.00	-999.00	-999.00	-999.0
224.5	-999.00	-999.00	-999.00	-999.0
225.5	-999.00	-999.00	-999.00	-999.0
226.5	-999.00	-999.00	-999.00	-999.0
227.5	-999.00	-999.00	-999.00	-999.0
228.5	-999.00	-999.00	-999.00	-999.0
229.5	-999.00	-999.00	-999.00	-999.0
230.5	-999.00	-999.00	-999.00	-999.0
231.5	-999.00	-999.00	-999.00	-999.0
232.5	-999.00	-999.00	-999.00	-999.0
233.5	-999.00	-999.00	-999.00	-999.0
234.5	-999.00	-999.00	-999.00	-999.0
235.5	-999.00	-999.00	-999.00	-999.0
236.5	-999.00	-999.00	-999.00	-999.0
237.5	-999.00	-999.00	-999.00	-999.0
238.5	-999.00	-999.00	-999.00	-999.0
239.5	-999.00	-999.00	-999.00	-999.0
240.5	-999.00	-999.00	-999.00	-999.0

JASIN 1978 : FLOAT DATA : 20M

DAY 1978	DOPY LATITUDE DEGREES	DOPY LONGITUDE DEGREES	DOPY SPEED CM/S	DOPY DRN DEGREES
241.5	58.94	-12.45	9.80	170.0
242.5	-999.00	-999.00	-999.00	-999.0
243.5	-999.00	-999.00	-999.00	-999.0
244.5	58.96	-12.48	7.10	123.0
245.5	-999.00	-999.00	-999.00	-999.0
246.5	59.94	-12.54	3.79	151.7
247.5	59.94	-12.54	3.79	151.7
248.5	-999.00	-999.00	-999.00	-999.0
249.5	-999.00	-999.00	-999.00	-999.0
250.5	-999.00	-999.00	-999.00	-999.0
253.5	-999.00	-999.00	-999.00	-999.0
254.5	-999.00	-999.00	-999.00	-999.0
255.5	-999.00	-999.00	-999.00	-999.0
256.5	-999.00	-999.00	-999.00	-999.0

JASIN 1978 : FLOAT DATA : 20M

DAY	FLOATS LATITUDE DEGREES	FLOATS LONGITUDE DEGREES	FLOATS SPEED CM/S	FLOATS DRN DEGREES
1978				
198.5	-999.00	-999.00	-999.00	-999.0
199.5	-999.00	-999.00	-999.00	-999.0
200.5	-999.00	-999.00	-999.00	-999.0
201.5	-999.00	-999.00	-999.00	-999.0
202.5	-999.00	-999.00	-999.00	-999.0
203.5	-999.00	-999.00	-999.00	-999.0
204.5	-999.00	-999.00	-999.00	-999.0
205.5	-999.00	-999.00	-999.00	-999.0
206.5	-999.00	-999.00	-999.00	-999.0
207.5	-999.00	-999.00	-999.00	-999.0
208.5	-999.00	-999.00	-999.00	-999.0
209.5	-999.00	-999.00	-999.00	-999.0
210.5	-999.00	-999.00	-999.00	-999.0
211.5	-999.00	-999.00	-999.00	-999.0
212.5	-999.00	-999.00	-999.00	-999.0
213.5	-999.00	-999.00	-999.00	-999.0
214.5	-999.00	-999.00	-999.00	-999.0
215.5	-999.00	-999.00	-999.00	-999.0
216.5	-999.00	-999.00	-999.00	-999.0
217.5	-999.00	-999.00	-999.00	-999.0
218.5	-999.00	-999.00	-999.00	-999.0
219.5	-999.00	-999.00	-999.00	-999.0
220.5	-999.00	-999.00	-999.00	-999.0
221.5	-999.00	-999.00	-999.00	-999.0
222.5	-999.00	-999.00	-999.00	-999.0
223.5	-999.00	-999.00	-999.00	-999.0
224.5	-999.00	-999.00	-999.00	-999.0
225.5	-999.00	-999.00	-999.00	-999.0
226.5	-999.00	-999.00	-999.00	-999.0
227.5	-999.00	-999.00	-999.00	-999.0
228.5	-999.00	-999.00	-999.00	-999.0
229.5	-999.00	-999.00	-999.00	-999.0
230.5	-999.00	-999.00	-999.00	-999.0
231.5	-999.00	-999.00	-999.00	-999.0
232.5	-999.00	-999.00	-999.00	-999.0
233.5	-999.00	-999.00	-999.00	-999.0
234.5	-999.00	-999.00	-999.00	-999.0
235.5	59.15	-12.44	19.76	208.4
236.5	-999.00	-999.00	-999.00	-999.0
237.5	-999.00	-999.00	-999.00	-999.0
238.5	-999.00	-999.00	-999.00	-999.0
239.5	-999.00	-999.00	-999.00	-999.0
240.5	58.93	-12.69	6.00	203.3
240.5	58.93	-12.31	8.65	157.6
240.5	58.93	-12.51	5.89	161.7

JASIN 1978 : FLOAT DATA : 20M

DAY	FLOATS LATITUDE DEGREES	FLOATS LONGITUDE DEGREES	FLOATS SPEED CM/S	FLOATS DRN DEGREES
1978				
241.5	-999.00	-999.00	-999.00	-999.0
242.5	-999.00	-999.00	-999.00	-999.0
243.5	-999.00	-999.00	-999.00	-999.0
244.5	-999.00	-999.00	-999.00	-999.0
245.5	-999.00	-999.00	-999.00	-999.0
246.5	-999.00	-999.00	-999.00	-999.0
247.5	-999.00	-999.00	-999.00	-999.0
248.5	-999.00	-999.00	-999.00	-999.0
249.5	-999.00	-999.00	-999.00	-999.0
250.5	-999.00	-999.00	-999.00	-999.0
253.5	-999.00	-999.00	-999.00	-999.0
254.5	-999.00	-999.00	-999.00	-999.0
255.5	-999.00	-999.00	-999.00	-999.0
256.5	-999.00	-999.00	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 200M

DAY 1978	SPEED:E3 CM/S	DRN:E3 DEGREES	SPEED:K1 CM/S	DRN:K1 DEGREES	SPEED:11 CM/S	DRN:11 DEGREES	SPEED:12 CM/S	DRN:12 DEGREES
195.5	-999.00	-999.0	21.93	208.3	-999.00	-999.0	-999.00	-999.0
196.5	-999.00	-999.0	20.24	222.7	-999.00	-999.0	16.17	85.8
197.5	-999.00	-999.0	21.14	211.3	13.31	64.1	17.90	93.4
198.5	12.71	213.7	20.06	207.7	8.05	85.4	13.13	24.4
199.5	14.28	226.1	17.46	201.3	5.64	97.8	23.72	354.9
200.5	14.58	250.1	10.16	215.1	9.03	95.2	10.95	354.5
201.5	11.51	274.7	5.45	254.7	10.33	94.8	7.79	37.9
202.5	8.20	340.9	7.84	241.5	10.62	75.7	3.21	70.5
203.5	7.53	331.8	17.07	273.2	17.34	79.9	2.69	9.6
204.5	10.19	312.1	11.73	245.9	24.21	79.1	0.90	47.0
205.5	7.26	337.5	25.77	235.8	25.39	74.1	2.94	107.4
206.5	7.56	356.9	30.28	245.1	19.88	67.9	7.54	116.1
207.5	5.34	344.4	24.63	253.4	14.56	55.9	11.91	120.6
208.5	0.61	26.3	25.66	294.3	18.72	66.0	16.00	71.1
209.5	5.59	49.7	28.51	327.7	15.47	52.3	12.62	86.0
210.5	9.05	357.2	23.41	316.4	10.98	21.7	10.62	112.5
211.5	8.42	322.8	15.45	307.8	4.55	190.6	6.87	55.3
212.5	6.84	326.2	12.21	318.2	11.00	174.9	7.46	71.2
213.5	8.45	316.1	11.32	327.2	7.36	158.0	5.57	91.5
214.5	8.98	304.4	16.97	323.4	9.35	123.5	6.11	107.4
215.5	4.56	292.0	24.59	313.1	9.86	128.5	7.15	78.7
216.5	1.63	173.4	27.25	310.7	7.92	122.0	9.43	80.1
217.5	3.72	130.9	20.22	322.3	9.24	94.6	17.41	71.2
218.5	4.96	138.6	25.88	336.5	12.53	74.0	19.38	87.4
219.5	4.59	169.7	26.60	332.2	6.71	20.5	13.89	85.3
220.5	5.32	205.5	23.63	352.2	4.78	356.7	11.82	83.3
221.5	6.11	221.8	16.41	359.6	0.41	148.4	7.39	81.4
222.5	5.29	242.4	10.90	344.5	6.13	113.0	7.48	56.0
223.5	3.77	283.3	9.41	349.0	11.09	93.0	10.00	55.7
224.5	3.53	287.3	9.32	339.1	19.30	82.2	5.96	42.7
225.5	1.66	334.1	4.74	340.8	17.18	80.0	4.82	4.0
226.5	2.63	91.1	1.08	358.0	12.15	87.2	4.45	338.9
227.5	4.27	110.9	1.42	310.3	9.82	85.5	3.63	28.6
228.5	7.49	105.2	3.37	320.4	8.76	61.6	2.00	20.4
229.5	8.17	111.7	4.31	355.6	7.05	63.4	14.33	334.3
230.5	7.18	142.2	5.50	321.7	10.72	8.2	37.72	321.1
231.5	11.54	158.8	3.10	316.6	16.05	351.3	36.92	319.9
232.5	16.21	161.6	1.99	223.3	10.37	18.1	29.87	324.2
233.5	16.15	188.9	3.93	204.8	7.70	84.5	17.22	315.5
234.5	16.93	202.6	5.56	196.4	9.06	106.0	10.12	314.1
235.5	16.22	174.3	3.04	212.9	12.98	103.2	7.73	311.1
236.5	14.68	193.9	3.72	252.6	11.32	87.7	7.68	299.6
237.5	15.34	223.6	2.18	252.2	11.80	88.5	6.98	300.6
238.5	19.56	240.1	5.81	236.5	7.10	76.2	5.09	303.5
239.5	18.22	262.0	5.38	188.9	4.49	22.9	2.69	311.4
240.5	14.40	238.5	8.54	210.6	4.11	54.2	3.11	310.4

JASIN 1978 : CURRENT METER DATA : 200M

DAY 1978	SPEED:E3 CM/S	DRN:E3 DEGREES	SPEED:K1 CM/S	DRN:K1 DEGREES	SPEED:I1 CM/S	DRN:I1 DEGREES	SPEED:12 CM/S	DRN:12 DEGREES
241.5	11.54	213.5	8.15	260.3	0.25	34.0	5.79	308.0
242.5	11.56	207.0	10.19	254.9	4.38	125.7	11.59	333.4
243.5	9.81	219.1	6.87	248.9	7.05	56.1	12.95	333.3
244.5	14.37	226.8	6.52	218.1	10.35	87.7	5.72	306.2
245.5	20.51	189.4	6.39	222.0	10.78	72.6	3.63	324.5
246.5	16.73	180.1	3.51	168.4	-999.00	-999.0	6.77	329.8
247.5	19.68	186.3	5.24	200.7	-999.00	-999.0	4.89	243.5
248.5	21.13	195.5	5.99	196.8	-999.00	-999.0	9.37	239.0
249.5	9.44	245.4	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
250.5	12.08	226.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
251.5	15.96	227.8	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
252.5	16.68	231.3	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
253.5	18.93	280.7	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
254.5	20.56	274.4	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
255.5	18.06	267.7	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
256.5	13.07	257.4	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
257.5	13.83	287.7	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
258.5	13.73	280.4	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
259.5	21.12	273.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
260.5	24.97	254.7	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 200M

DAY 1978	SPEED:I3 CM/S	DRN:I3 DEGREES	SPEED:I4 CM/S	DRN:I4 DEGREES	SPEED:I5 CM/S	DRN:I5 DEGREES	SPEED:I3A CM/S	DRN:I3A DEGREES
195.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
196.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
197.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
198.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
199.5	-999.00	-999.0	6.76	137.2	-999.00	-999.0	-999.00	-999.0
200.5	13.00	311.5	4.24	130.4	-999.00	-999.0	-999.00	-999.0
201.5	15.17	272.1	4.13	34.5	10.12	57.5	-999.00	-999.0
202.5	10.71	272.2	9.80	5.2	11.84	27.5	-999.00	-999.0
203.5	5.14	24.4	16.80	340.9	13.99	20.4	-999.00	-999.0
204.5	2.90	341.3	5.93	83.6	16.41	35.3	-999.00	-999.0
205.5	2.72	52.8	9.07	107.3	15.31	4.9	-999.00	-999.0
206.5	3.69	302.0	7.42	37.2	19.41	354.1	-999.00	-999.0
207.5	4.78	16.8	6.53	26.1	7.52	32.8	-999.00	-999.0
208.5	12.26	38.5	4.65	21.1	7.42	18.2	-999.00	-999.0
209.5	15.71	40.8	3.81	332.2	5.86	10.4	-999.00	-999.0
210.5	12.76	35.6	6.77	308.9	6.04	18.8	-999.00	-999.0
211.5	8.61	20.4	6.61	315.5	5.66	23.8	-999.00	-999.0
212.5	12.59	352.6	4.79	316.1	6.36	23.2	-999.00	-999.0
213.5	14.16	338.7	2.16	266.7	5.76	354.8	-999.00	-999.0
214.5	15.20	333.6	2.28	247.5	6.82	345.9	-999.00	-999.0
215.5	12.26	346.4	3.41	245.7	2.77	356.4	-999.00	-999.0
216.5	16.45	337.0	5.25	265.8	6.77	41.4	-999.00	-999.0
217.5	15.28	337.1	10.35	261.6	9.33	41.6	-999.00	-999.0
218.5	8.52	322.8	8.41	314.9	6.77	344.9	-999.00	-999.0
219.5	11.42	352.9	6.07	335.2	4.80	13.3	-999.00	-999.0
220.5	17.08	334.4	5.54	348.2	6.66	37.2	-999.00	-999.0
221.5	18.66	352.6	7.10	324.8	12.65	43.7	-999.00	-999.0
222.5	19.55	2.2	4.62	187.0	20.98	35.0	-999.00	-999.0
223.5	18.23	322.9	12.23	159.4	16.18	30.1	-999.00	-999.0
224.5	16.13	4.8	10.89	147.9	20.89	5.3	-999.00	-999.0
225.5	19.57	0.7	9.10	159.4	13.87	6.3	-999.00	-999.0
226.5	15.66	340.9	6.43	156.9	17.71	345.7	-999.00	-999.0
227.5	17.60	321.9	6.36	118.6	13.21	317.4	-999.00	-999.0
228.5	13.63	322.4	7.10	44.8	12.90	277.9	-999.00	-999.0
229.5	11.73	318.8	5.90	42.3	13.33	282.6	-999.00	-999.0
230.5	7.49	349.4	4.34	346.3	24.90	283.7	-999.00	-999.0
231.5	19.38	330.5	2.64	305.4	22.16	258.8	-999.00	-999.0
232.5	14.85	339.0	0.59	52.1	8.95	313.6	-999.00	-999.0
233.5	11.64	328.5	5.57	140.3	19.73	349.6	-999.00	-999.0
234.5	14.33	335.0	15.30	172.6	19.07	349.7	-999.00	-999.0
235.5	19.01	353.0	15.79	176.8	13.95	346.6	-999.00	-999.0
236.5	14.30	6.2	12.73	186.1	-999.00	-999.0	-999.00	-999.0
237.5	14.54	11.6	7.89	196.3	-999.00	-999.0	-999.00	-999.0
238.5	15.66	28.3	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
239.5	11.85	38.6	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
240.5	16.36	34.2	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 200M

DAY 1978	SPEED:I3 CM/S	DRN:I3 DEGREES	SPEED:I4 CM/S	DRN:I4 DEGREES	SPEED:I5 CM/S	DRN:I5 DEGREES	SPEED:I3A CM/S	DRN:I3A DEGREES
241.5	13.49	41.2	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
242.5	16.04	47.6	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
243.5	12.54	60.4	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
244.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
245.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
246.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	26.84	273.7
247.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	23.28	284.9
248.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	32.46	278.9
249.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	32.58	276.8
250.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	34.17	270.3
251.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	34.25	259.4
252.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	30.33	256.7
253.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	22.93	242.6
254.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	19.95	222.7
255.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	13.26	213.7
256.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	16.20	197.0
257.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	13.57	176.6
258.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	16.71	184.3
259.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	12.83	194.9
260.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	23.66	168.7

JASIN 1978 : CURRENT METER DATA : 200M

DAY	SPEED:I4A	DRN:I4A
1978	CM/S	DEGREES
195.5	-999.00	-999.0
196.5	-999.00	-999.0
197.5	-999.00	-999.0
198.5	-999.00	-999.0
199.5	-999.00	-999.0
200.5	-999.00	-999.0
201.5	-999.00	-999.0
202.5	-999.00	-999.0
203.5	-999.00	-999.0
204.5	-999.00	-999.0
205.5	-999.00	-999.0
206.5	-999.00	-999.0
207.5	-999.00	-999.0
208.5	-999.00	-999.0
209.5	-999.00	-999.0
210.5	-999.00	-999.0
211.5	-999.00	-999.0
212.5	-999.00	-999.0
213.5	-999.00	-999.0
214.5	-999.00	-999.0
215.5	-999.00	-999.0
216.5	-999.00	-999.0
217.5	-999.00	-999.0
218.5	-999.00	-999.0
219.5	-999.00	-999.0
220.5	-999.00	-999.0
221.5	-999.00	-999.0
222.5	-999.00	-999.0
223.5	-999.00	-999.0
224.5	-999.00	-999.0
225.5	-999.00	-999.0
226.5	-999.00	-999.0
227.5	-999.00	-999.0
228.5	-999.00	-999.0
229.5	-999.00	-999.0
230.5	-999.00	-999.0
231.5	-999.00	-999.0
232.5	-999.00	-999.0
233.5	-999.00	-999.0
234.5	-999.00	-999.0
235.5	-999.00	-999.0
236.5	-999.00	-999.0
237.5	-999.00	-999.0
238.5	-999.00	-999.0
239.5	-999.00	-999.0
240.5	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 200M

DAY 1978	SPEED:I4A CM/S	DRN:I4A DEGREES
241.5	20.65	40.5
242.5	9.36	71.6
243.5	10.83	99.9
244.5	10.12	108.1
245.5	6.15	78.0
246.5	3.35	41.3
247.5	4.31	289.0
248.5	5.40	297.9
249.5	3.84	58.8
250.5	4.28	66.3
251.5	2.85	36.8
252.5	1.67	2.0
253.5	1.88	60.5
254.5	5.81	65.6
255.5	10.25	74.9
256.5	6.83	87.7
257.5	4.05	87.7
258.5	3.90	129.7
259.5	2.99	117.3
260.5	4.31	120.4

JASIN 1978 : CURRENT METER DATA : 500M

DAY	SPEED:E3	DRN:E3	SPEED:E4	DRN:E4	SPEED:11	DRN:11	SPEED:12	DRN:12
1978	CM/S	DEGREES	CM/S	DEGREES	CM/S	DEGREES	CM/S	DEGREES
195.5	-1000.00	-1000.0	10.98	304.7	-999.00	-999.0	-999.00	-999.0
196.5	-1000.00	-1000.0	7.55	294.0	-999.00	-999.0	18.09	91.3
197.5	-1000.00	-1000.0	3.47	0.1	-999.00	-999.0	12.71	97.5
198.5	14.69	221.1	7.12	58.9	11.88	87.9	9.20	10.1
199.5	14.57	225.5	16.00	61.1	8.91	85.0	21.78	356.6
200.5	14.47	254.0	17.52	44.8	8.62	88.4	13.16	349.5
201.5	16.48	273.6	12.91	37.3	9.17	83.7	6.58	21.6
202.5	13.05	308.3	14.29	43.7	12.06	68.0	5.49	11.3
203.5	10.84	328.7	17.41	36.1	19.32	73.6	3.21	333.3
204.5	10.73	339.5	18.22	38.4	26.38	75.4	1.27	190.5
205.5	11.42	355.1	15.93	38.9	26.62	67.2	5.74	131.0
206.5	9.72	358.4	16.47	22.9	19.94	61.1	7.64	143.3
207.5	4.14	354.2	14.29	29.6	15.30	50.0	7.29	129.4
208.5	2.21	205.8	15.63	39.5	17.97	59.3	9.58	88.2
209.5	3.49	164.5	14.45	62.4	14.63	44.9	9.15	94.4
210.5	2.36	353.4	19.88	78.5	8.47	25.8	4.84	93.7
211.5	3.25	314.6	18.92	74.5	5.28	168.0	5.72	89.0
212.5	3.81	320.3	17.80	72.7	12.37	186.2	6.46	74.2
213.5	5.23	303.5	17.18	54.2	8.23	157.4	7.33	93.0
214.5	4.43	291.2	19.89	42.2	11.03	138.4	5.62	127.0
215.5	3.08	277.7	17.39	32.0	6.09	144.1	7.26	87.5
216.5	3.80	248.4	14.02	15.6	4.91	42.9	9.95	90.3
217.5	3.78	194.8	11.76	4.9	9.60	69.1	15.38	80.5
218.5	3.89	171.8	8.80	347.8	9.52	43.3	15.94	94.0
219.5	5.01	194.0	10.09	337.1	8.88	16.1	10.52	99.2
220.5	8.82	208.7	9.00	340.6	6.52	24.7	8.98	106.1
221.5	9.85	233.7	6.88	341.5	4.99	93.8	6.64	112.6
222.5	7.45	254.6	5.99	336.1	11.16	114.9	3.20	15.9
223.5	4.42	265.5	5.94	304.8	13.11	83.4	6.94	72.5
224.5	3.90	277.2	7.18	283.2	18.72	66.2	2.36	67.4
225.5	2.94	256.1	8.05	334.9	12.72	81.2	1.29	355.6
226.5	2.23	201.1	9.13	352.7	11.67	69.7	1.41	35.7
227.5	1.98	177.3	8.71	342.2	11.35	75.9	2.35	69.6
228.5	2.01	164.3	7.27	326.3	12.60	50.2	3.13	291.3
229.5	3.31	208.2	7.24	307.9	12.69	51.3	12.81	324.8
230.5	5.41	186.5	7.62	276.4	15.23	9.8	30.54	315.5
231.5	10.25	172.4	11.03	238.8	17.19	1.8	30.84	311.8
232.5	12.44	166.6	11.64	229.4	-999.00	-999.0	23.92	317.5
233.5	12.18	187.6	8.83	279.4	-999.00	-999.0	19.13	315.2
234.5	12.54	196.5	16.09	294.7	-999.00	-999.0	11.52	306.6
235.5	13.87	178.8	14.57	321.8	-999.00	-999.0	8.72	286.9
236.5	13.77	201.7	15.15	347.1	-999.00	-999.0	7.19	284.8
237.5	14.21	226.4	12.14	329.5	-999.00	-999.0	7.34	287.7
238.5	17.02	239.0	9.34	311.3	-999.00	-999.0	3.98	324.9
239.5	14.61	260.7	5.47	320.3	-999.00	-999.0	2.53	281.6
240.5	12.22	241.5	5.91	354.7	-999.00	-999.0	3.22	283.0

JASIN 1978 : CURRENT METER DATA : 500M

DAY 1978	SPEED:E3 CM/S	DRN:E3 DEGREES	SPEED:E4 CM/S	DRN:E4 DEGREES	SPEED:I 1 CM/S	DRN:I 1 DEGREES	SPEED:I 2 CM/S	DRN:I 2 DEGREES
241.5	10.26	219.3	7.64	34.7	-999.00	-999.0	1.85	317.8
242.5	7.93	207.0	13.53	33.7	-999.00	-999.0	8.39	344.9
243.5	8.83	206.7	15.52	23.5	-999.00	-999.0	7.29	338.7
244.5	13.59	213.2	15.77	20.1	-999.00	-999.0	7.19	306.3
245.5	14.64	196.2	15.87	26.5	-999.00	-999.0	5.13	284.5
246.5	13.78	189.9	13.52	22.6	-999.00	-999.0	4.76	331.3
247.5	20.58	192.9	13.13	8.9	-999.00	-999.0	6.22	256.7
248.5	24.18	196.7	16.74	10.2	-999.00	-999.0	11.24	268.6
249.5	16.04	214.3	14.51	355.2	-999.00	-999.0	-999.00	-999.0
250.5	16.57	217.7	16.32	10.5	-999.00	-999.0	-999.00	-999.0
251.5	18.20	235.5	18.81	5.5	-999.00	-999.0	-999.00	-999.0
252.5	16.39	243.4	14.57	25.4	-999.00	-999.0	-999.00	-999.0
253.5	19.23	282.3	16.87	55.4	-999.00	-999.0	-999.00	-999.0
254.5	19.68	266.4	-1000.00	-1000.0	-999.00	-999.0	-999.00	-999.0
255.5	17.32	252.6	-1000.00	-1000.0	-999.00	-999.0	-999.00	-999.0
256.5	13.54	258.9	-1000.00	-1000.0	-999.00	-999.0	-999.00	-999.0
257.5	13.84	285.6	-1000.00	-1000.0	-999.00	-999.0	-999.00	-999.0
258.5	16.20	282.0	-1000.00	-1000.0	-999.00	-999.0	-999.00	-999.0
259.5	20.91	273.9	-1000.00	-1000.0	-999.00	-999.0	-999.00	-999.0
260.5	22.01	252.1	-1000.00	-1000.0	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 500M

DAY 1978	SPEED:I3 CM/S	DRN:I3 DEGREES	SPEED:I4 CM/S	DRN:I4 DEGREES	SPEED:I5 CM/S	DRN:I5 DEGREES	SPEED:I3A CM/S	DRN:I3A DEGREES
195.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
196.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
197.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
198.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
199.5	-999.00	-999.0	4.17	339.7	-999.00	-999.0	-999.00	-999.0
200.5	15.22	341.7	11.22	325.4	-999.00	-999.0	-999.00	-999.0
201.5	18.54	271.6	20.22	318.1	6.42	51.6	-999.00	-999.0
202.5	5.33	287.2	16.48	334.9	8.10	23.5	-999.00	-999.0
203.5	3.56	23.8	8.79	18.4	13.73	19.2	-999.00	-999.0
204.5	2.10	29.2	4.54	75.7	12.40	27.9	-999.00	-999.0
205.5	3.08	52.0	4.82	317.0	12.41	11.9	-999.00	-999.0
206.5	2.89	5.8	9.52	335.3	11.88	10.1	-999.00	-999.0
207.5	5.76	13.8	7.34	328.4	6.39	22.0	-999.00	-999.0
208.5	11.95	35.1	5.69	343.6	7.88	29.6	-999.00	-999.0
209.5	7.00	38.5	3.17	341.1	5.74	29.6	-999.00	-999.0
210.5	7.82	30.6	8.34	320.7	6.65	29.8	-999.00	-999.0
211.5	10.11	36.4	8.41	319.7	8.89	29.2	-999.00	-999.0
212.5	12.63	347.8	10.34	320.7	6.71	26.9	-999.00	-999.0
213.5	21.77	346.2	12.45	314.8	5.94	9.0	-999.00	-999.0
214.5	19.57	338.6	10.96	301.0	4.30	317.2	-999.00	-999.0
215.5	13.32	334.6	8.42	277.1	3.28	249.5	-999.00	-999.0
216.5	12.57	338.4	9.72	272.6	3.78	80.4	-999.00	-999.0
217.5	13.23	326.4	12.08	264.3	4.69	58.8	-999.00	-999.0
218.5	12.82	344.1	8.80	309.1	4.56	27.9	-999.00	-999.0
219.5	8.19	352.1	8.87	342.2	5.30	23.9	-999.00	-999.0
220.5	14.85	334.7	9.13	357.4	6.18	36.6	-999.00	-999.0
221.5	13.90	353.2	7.39	331.2	8.44	49.7	-999.00	-999.0
222.5	17.47	3.8	1.23	264.1	10.62	41.6	-999.00	-999.0
223.5	17.43	339.8	4.88	132.8	11.89	33.8	-999.00	-999.0
224.5	19.64	9.9	4.04	89.9	17.88	12.3	-999.00	-999.0
225.5	19.55	0.3	1.23	71.6	15.93	17.6	-999.00	-999.0
226.5	14.96	346.0	4.49	97.7	14.89	351.4	-999.00	-999.0
227.5	12.91	322.9	5.54	51.3	13.19	327.6	-999.00	-999.0
228.5	15.54	320.3	9.98	12.0	13.30	276.4	-999.00	-999.0
229.5	14.64	336.6	7.89	25.8	16.86	298.8	-999.00	-999.0
230.5	11.79	334.8	4.17	49.7	22.57	285.9	-999.00	-999.0
231.5	9.79	330.0	1.04	4.2	21.72	261.0	-999.00	-999.0
232.5	10.73	341.9	8.45	221.2	8.60	309.0	-999.00	-999.0
233.5	9.31	349.6	11.48	190.9	16.98	353.0	-999.00	-999.0
234.5	11.64	340.2	10.16	172.1	18.19	350.2	-999.00	-999.0
235.5	14.19	356.5	8.85	169.1	14.81	348.9	-999.00	-999.0
236.5	12.02	8.1	9.13	176.4	-999.00	-999.0	-999.00	-999.0
237.5	12.67	19.5	8.52	189.6	-999.00	-999.0	-999.00	-999.0
238.5	13.53	31.3	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
239.5	11.75	47.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
240.5	15.72	40.9	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 500M

DAY 1978	SPEED:I3 CM/S	DRN:I3 DEGREES	SPEED:I4 CM/S	DRN:I4 DEGREES	SPEED:I5 CM/S	DRN:I5 DEGREES	SPEED:I3A CM/S	DRN:I3A DEGREES
241.5	14.98	44.6	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
242.5	14.56	51.3	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
243.5	13.04	71.7	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
244.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
245.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
246.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	17.87	271.4
247.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	18.74	281.5
248.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	20.36	277.7
249.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	23.45	271.7
250.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	24.37	263.9
251.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	25.63	254.2
252.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	24.44	249.6
253.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	22.19	239.6
254.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	18.18	222.1
255.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	15.26	203.4
256.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	15.28	194.3
257.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	13.31	175.4
258.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	15.10	186.2
259.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	13.88	192.1
260.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	20.54	175.3

JASIN 1978 : CURRENT METER DATA : 500M

DAY 1978	SPEED:I4A CM/S	DRN:I4A DEGREES	SPEED:D2 CM/S	DRN:D2 DEGREES	SPEED:K1 CM/S	DRN:K1 DEGREES
195.5	-999.00	-999.0	15.69	114.9	14.64	192.7
196.5	-999.00	-999.0	14.95	120.9	19.62	200.5
197.5	-999.00	-999.0	16.24	131.5	18.34	200.3
198.5	-999.00	-999.0	16.60	136.6	22.63	209.0
199.5	-999.00	-999.0	16.11	128.8	22.25	208.9
200.5	-999.00	-999.0	17.48	121.8	15.92	198.2
201.5	-999.00	-999.0	17.22	130.1	14.99	195.0
202.5	-999.00	-999.0	17.01	138.7	13.66	195.8
203.5	-999.00	-999.0	13.93	147.4	7.76	230.2
204.5	-999.00	-999.0	11.85	125.4	9.29	225.3
205.5	-999.00	-999.0	16.51	123.1	11.80	242.0
206.5	-999.00	-999.0	17.59	144.5	14.08	260.2
207.5	-999.00	-999.0	18.68	159.5	24.08	309.7
208.5	-999.00	-999.0	11.83	166.4	24.94	328.7
209.5	-999.00	-999.0	14.73	168.8	17.58	314.6
210.5	-999.00	-999.0	18.11	171.8	12.56	310.0
211.5	-999.00	-999.0	17.57	176.7	9.45	317.5
212.5	-999.00	-999.0	11.86	171.5	10.69	321.0
213.5	-999.00	-999.0	13.20	180.3	12.08	332.2
214.5	-999.00	-999.0	13.46	171.5	18.54	314.0
215.5	-999.00	-999.0	13.27	169.5	20.65	314.1
216.5	-999.00	-999.0	14.67	156.4	20.19	320.5
217.5	-999.00	-999.0	14.63	150.4	21.84	336.2
218.5	-999.00	-999.0	18.57	148.5	20.19	336.4
219.5	-999.00	-999.0	18.15	151.4	17.01	357.6
220.5	-999.00	-999.0	23.54	157.2	13.94	342.7
221.5	-999.00	-999.0	18.45	168.3	9.38	348.4
222.5	-999.00	-999.0	17.61	176.7	8.03	332.8
223.5	-999.00	-999.0	14.97	186.1	4.85	342.0
224.5	-999.00	-999.0	11.93	187.2	2.32	357.6
225.5	-999.00	-999.0	13.17	193.6	2.41	246.6
226.5	-999.00	-999.0	11.06	189.5	3.82	287.5
227.5	-999.00	-999.0	9.78	189.9	6.45	319.7
228.5	-999.00	-999.0	9.80	187.2	7.97	324.5
229.5	-999.00	-999.0	9.71	186.3	7.72	322.3
230.5	-999.00	-999.0	8.34	197.4	8.36	299.3
231.5	-999.00	-999.0	7.30	200.3	5.82	252.4
232.5	-999.00	-999.0	7.82	209.7	6.96	222.1
233.5	-999.00	-999.0	5.56	184.3	5.50	195.3
234.5	-999.00	-999.0	4.71	187.6	0.84	119.3
235.5	-999.00	-999.0	1.98	130.3	1.76	340.5
236.5	-999.00	-999.0	2.06	154.1	1.08	283.3
237.5	-999.00	-999.0	-999.00	-999.0	3.73	210.9
238.5	-999.00	-999.0	-999.00	-999.0	5.01	174.9
239.5	-999.00	-999.0	-999.00	-999.0	7.50	207.1
240.5	-999.00	-999.0	-999.00	-999.0	9.52	262.0

JASIN 1978 : CURRENT METER DATA : 500M

DAY 1978	SPEED:I4A CM/S	DRN:I4A DEGREES	SPEED:D2 CM/S	DRN:D2 DEGREES	SPEED:K1 CM/S	DRN:K1 DEGREES
241.5	13.61	48.6	-999.00	-999.0	8.40	247.9
242.5	13.89	68.0	-999.00	-999.0	8.77	238.8
243.5	7.63	95.7	-999.00	-999.0	7.28	210.8
244.5	4.42	81.8	-999.00	-999.0	6.67	215.4
245.5	4.56	46.8	-999.00	-999.0	6.25	198.1
246.5	3.30	36.1	-999.00	-999.0	7.16	187.6
247.5	3.46	33.1	-999.00	-999.0	6.68	186.9
248.5	3.89	19.8	-999.00	-999.0	7.20	186.9
249.5	5.75	37.2	-999.00	-999.0	-999.00	-999.0
250.5	6.34	35.7	-999.00	-999.0	-999.00	-999.0
251.5	5.31	35.5	-999.00	-999.0	-999.00	-999.0
252.5	3.01	27.8	-999.00	-999.0	-999.00	-999.0
253.5	2.25	79.6	-999.00	-999.0	-999.00	-999.0
254.5	7.40	70.0	-999.00	-999.0	-999.00	-999.0
255.5	6.41	99.9	-999.00	-999.0	-999.00	-999.0
256.5	3.78	118.1	-999.00	-999.0	-999.00	-999.0
257.5	3.43	83.9	-999.00	-999.0	-999.00	-999.0
258.5	2.71	107.4	-999.00	-999.0	-999.00	-999.0
259.5	3.13	49.5	-999.00	-999.0	-999.00	-999.0
260.5	0.93	28.9	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 1000M

DAY 1978	SPEED:E3 CM/S	DRN:E3 DEGREES	SPEED:E4 CM/S	DRN:E4 DEGREES	SPEED:11 CM/S	DRN:11 DEGREES	SPEED:12 CM/S	DRN:12 DEGREES
195.5	-999.00	-999.0	3.95	277.2	-999.00	-999.0	-999.00	-999.0
196.5	-999.00	-999.0	1.93	262.8	-999.00	-999.0	37.51	207.7
197.5	-999.00	-999.0	0.91	359.9	2.71	167.2	31.96	214.2
198.5	7.61	231.0	2.94	40.4	2.03	200.7	20.54	153.6
199.5	6.62	238.2	5.87	47.0	4.41	279.9	7.28	72.1
200.5	6.38	270.4	8.96	33.0	10.06	286.8	13.23	18.8
201.5	7.74	291.2	9.14	29.1	2.02	213.2	11.32	55.3
202.5	8.06	324.4	10.15	33.1	3.63	40.2	6.11	27.2
203.5	8.74	353.5	12.50	37.7	9.45	268.2	3.73	281.7
204.5	7.94	11.1	12.60	37.1	0.98	29.9	15.76	241.1
205.5	7.58	22.5	9.28	30.7	1.59	6.0	30.76	209.1
206.5	5.73	25.1	9.94	27.9	0.65	273.8	47.34	206.9
207.5	2.53	51.2	9.20	40.4	0.25	170.6	37.71	189.1
208.5	2.10	100.5	10.78	39.8	13.30	248.9	36.16	202.8
209.5	2.23	133.7	11.87	47.2	30.27	246.9	24.70	182.5
210.5	0.29	155.9	12.78	57.3	22.38	243.4	30.81	197.3
211.5	2.03	267.0	15.48	69.4	7.88	219.8	35.17	193.1
212.5	2.64	289.4	15.28	70.8	5.98	202.7	17.93	194.6
213.5	2.67	254.5	13.91	57.6	25.78	229.2	12.34	186.0
214.5	1.49	234.0	15.28	37.9	11.95	247.2	12.70	184.3
215.5	1.14	230.8	14.16	26.3	4.20	89.1	4.36	152.5
216.5	1.21	145.6	11.49	26.0	10.30	40.6	21.14	160.0
217.5	1.97	132.4	9.48	22.4	12.03	32.7	36.67	177.8
218.5	2.31	150.9	7.37	351.0	5.28	3.3	36.56	207.5
219.5	4.10	170.0	6.79	345.7	4.54	17.5	26.24	173.3
220.5	3.75	178.5	7.13	337.7	3.48	338.5	41.86	190.4
221.5	4.18	209.1	4.46	341.5	5.21	21.6	41.55	190.9
222.5	5.51	218.3	4.06	332.9	7.05	32.8	42.03	194.8
223.5	4.35	216.0	4.06	318.0	12.20	48.2	39.54	191.3
224.5	2.59	220.4	4.39	316.2	20.28	47.1	44.68	204.4
225.5	3.12	220.5	5.39	334.8	12.90	36.6	41.18	202.8
226.5	2.91	208.2	5.79	336.0	9.44	40.2	44.51	180.7
227.5	2.28	226.5	4.79	320.0	2.06	140.8	51.03	175.7
228.5	2.22	253.7	7.83	330.6	1.72	284.2	53.90	188.6
229.5	2.25	227.7	7.25	315.8	4.86	273.1	46.83	229.5
230.5	3.01	204.7	7.44	290.0	6.08	271.4	9.98	258.1
231.5	5.59	170.6	9.15	263.4	7.09	357.4	12.29	305.9
232.5	7.78	161.0	8.62	255.1	2.89	325.2	19.52	328.0
233.5	9.02	168.3	6.60	236.7	4.65	299.5	11.08	260.9
234.5	9.04	168.5	4.22	244.8	1.91	340.9	33.16	226.2
235.5	8.83	159.4	2.96	314.2	3.02	48.9	36.60	230.4
236.5	7.64	186.8	5.75	351.2	-999.00	-999.0	40.76	228.0
237.5	8.05	207.4	8.36	337.9	-999.00	-999.0	37.19	216.7
238.5	9.76	233.9	4.74	302.4	-999.00	-999.0	34.10	177.9
239.5	7.78	240.9	2.03	299.9	-999.00	-999.0	35.52	200.8
240.5	7.92	226.0	3.33	21.6	-999.00	-999.0	25.30	215.9

JASIN 1978 : CURRENT METER DATA : 1000M

DAY 1978	SPEED:E3 CM/S	DRN:E3 DEGREES	SPEED:E4 CM/S	DRN:E4 DEGREES	SPEED:11 CM/S	DRN:11 DEGREES	SPEED:12 CM/S	DRN:12 DEGREES
241.5	7.44	220.7	5.15	26.3	-999.00	-999.0	31.76	208.2
242.5	6.50	197.0	8.48	39.6	-999.00	-999.0	9.58	202.7
243.5	6.09	189.2	10.78	31.8	-999.00	-999.0	18.11	190.6
244.5	10.09	188.3	11.71	26.4	-999.00	-999.0	37.57	201.9
245.5	12.41	195.7	11.92	34.7	-999.00	-999.0	37.42	212.3
246.5	11.46	190.7	12.02	39.0	-999.00	-999.0	23.11	213.6
247.5	12.65	187.9	12.02	18.5	-999.00	-999.0	16.93	202.2
248.5	13.59	198.6	12.12	10.2	-999.00	-999.0	6.50	239.0
249.5	12.43	207.2	11.79	9.9	-999.00	-999.0	-999.00	-999.0
250.5	11.62	215.5	11.83	6.1	-999.00	-999.0	-999.00	-999.0
251.5	10.28	248.3	12.02	4.0	-999.00	-999.0	-999.00	-999.0
252.5	12.09	256.1	10.39	24.9	-999.00	-999.0	-999.00	-999.0
253.5	12.54	274.3	10.18	42.5	-999.00	-999.0	-999.00	-999.0
254.5	12.36	255.6	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
255.5	10.60	252.8	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
256.5	9.05	252.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
257.5	7.02	268.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
258.5	9.14	275.8	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
259.5	10.29	260.7	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
260.5	11.30	249.4	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 1000M

DAY 1978	SPEED:I3 CM/S	DRN:I3 DEGREES	SPEED:I4 CM/S	DRN:I4 DEGREES	SPEED:I5 CM/S	DRN:I5 DEGREES	SPEED:I3A CM/S	DRN:I3A DEGREES
195.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
196.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
197.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
198.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
199.5	-999.00	-999.0	7.48	336.9	-999.00	-999.0	-999.00	-999.0
200.5	6.50	355.9	10.05	329.7	-999.00	-999.0	-999.00	-999.0
201.5	3.50	307.5	9.25	322.2	4.76	25.8	-999.00	-999.0
202.5	2.49	321.9	11.27	330.7	7.77	11.5	-999.00	-999.0
203.5	1.13	0.5	7.82	333.3	8.33	0.3	-999.00	-999.0
204.5	1.40	39.4	4.72	300.5	8.36	22.2	-999.00	-999.0
205.5	1.39	116.2	5.87	297.8	9.07	2.8	-999.00	-999.0
206.5	2.24	43.2	6.92	305.8	6.10	347.6	-999.00	-999.0
207.5	5.67	47.7	7.15	303.5	5.03	15.3	-999.00	-999.0
208.5	7.81	52.4	5.28	308.5	6.78	17.7	-999.00	-999.0
209.5	6.07	41.4	3.03	276.7	4.97	10.7	-999.00	-999.0
210.5	7.13	40.3	6.52	322.0	5.39	13.1	-999.00	-999.0
211.5	7.66	17.8	6.49	323.1	5.17	25.3	-999.00	-999.0
212.5	8.00	358.8	5.63	328.9	4.48	25.6	-999.00	-999.0
213.5	15.12	339.6	5.54	321.0	4.08	19.3	-999.00	-999.0
214.5	11.85	333.9	5.62	302.0	2.90	333.9	-999.00	-999.0
215.5	11.05	328.7	5.67	281.0	2.39	279.1	-999.00	-999.0
216.5	9.86	322.7	7.01	296.6	2.88	11.8	-999.00	-999.0
217.5	7.05	345.1	7.47	211.6	-999.00	-999.0	-999.00	-999.0
218.5	7.02	341.8	4.96	251.9	-999.00	-999.0	-999.00	-999.0
219.5	5.92	339.1	0.95	268.9	3.95	23.1	-999.00	-999.0
220.5	5.14	318.0	2.21	97.2	4.01	10.1	-999.00	-999.0
221.5	8.37	334.2	4.05	52.6	4.64	22.3	-999.00	-999.0
222.5	9.23	339.3	2.29	85.8	6.13	9.1	-999.00	-999.0
223.5	10.98	334.3	2.49	122.8	7.46	13.8	-999.00	-999.0
224.5	14.73	13.3	2.11	86.8	10.42	3.6	-999.00	-999.0
225.5	10.60	359.1	2.45	46.6	7.76	5.8	-999.00	-999.0
226.5	10.65	341.3	3.94	54.7	8.91	341.1	-999.00	-999.0
227.5	8.70	323.2	4.36	35.1	9.34	308.5	-999.00	-999.0
228.5	8.31	314.9	3.30	8.5	10.97	256.4	-999.00	-999.0
229.5	9.49	322.3	2.33	341.0	7.22	333.9	-999.00	-999.0
230.5	9.17	307.5	3.23	262.3	11.24	326.7	-999.00	-999.0
231.5	8.08	317.2	4.06	231.7	8.75	292.0	-999.00	-999.0
232.5	8.56	325.5	5.31	207.1	11.66	315.5	-999.00	-999.0
233.5	8.03	343.1	6.81	182.3	13.01	344.1	-999.00	-999.0
234.5	7.89	337.5	4.57	169.8	18.59	347.3	-999.00	-999.0
235.5	5.53	341.6	1.80	167.2	15.74	341.0	-999.00	-999.0
236.5	7.19	0.3	2.69	200.9	-999.00	-999.0	-999.00	-999.0
237.5	7.87	9.7	1.15	161.0	-999.00	-999.0	-999.00	-999.0
238.5	9.56	17.9	3.44	55.2	-999.00	-999.0	-999.00	-999.0
239.5	9.06	35.9	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
240.5	9.40	48.6	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 1000M

DAY 1978	SPEED:I3 CM/S	DRN:I3 DEGREES	SPEED:I4 CM/S	DRN:I4 DEGREES	SPEED:I5 CM/S	DRN:I5 DEGREES	SPEED:I3A CM/S	DRN:I3A DEGREES
241.5	11.90	52.7	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
242.5	9.54	49.3	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
243.5	9.81	56.9	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
244.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
245.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
246.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	7.45	255.1
247.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	5.48	294.6
248.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	5.59	298.2
249.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	5.91	255.8
250.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	5.47	238.1
251.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	8.29	239.7
252.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	8.33	215.9
253.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	9.00	220.6
254.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	12.92	212.8
255.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	8.98	195.4
256.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	12.01	180.6
257.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	12.65	180.8
258.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	15.64	190.7
259.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	12.58	195.1
260.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0	15.64	183.3

JASIN 1978 : CURRENT METER DATA : 1000M

DAY 1978	SPEED:14A CM/S	DRN:14A DEGREES	SPEED:K1 CM/S	DRN:K1 DEGREES	SPEED:W1 CM/S	DRN:W1 DEGREES
195.5	-999.00	-999.0	6.06	211.4	-999.00	-999.0
196.5	-999.00	-999.0	8.94	213.6	-999.00	-999.0
197.5	-999.00	-999.0	10.37	223.4	-999.00	-999.0
198.5	-999.00	-999.0	8.51	201.0	-999.00	-999.0
199.5	-999.00	-999.0	8.00	202.8	-999.00	-999.0
200.5	-999.00	-999.0	7.15	218.6	-999.00	-999.0
201.5	-999.00	-999.0	5.78	246.6	-999.00	-999.0
202.5	-999.00	-999.0	6.57	227.7	-999.00	-999.0
203.5	-999.00	-999.0	6.55	250.5	-999.00	-999.0
204.5	-999.00	-999.0	10.68	268.5	-999.00	-999.0
205.5	-999.00	-999.0	10.94	245.4	-999.00	-999.0
206.5	-999.00	-999.0	8.23	258.6	-999.00	-999.0
207.5	-999.00	-999.0	7.56	270.8	-999.00	-999.0
208.5	-999.00	-999.0	8.12	311.4	-999.00	-999.0
209.5	-999.00	-999.0	7.08	313.5	-999.00	-999.0
210.5	-999.00	-999.0	6.87	317.1	-999.00	-999.0
211.5	-999.00	-999.0	4.50	314.6	-999.00	-999.0
212.5	-999.00	-999.0	6.88	320.0	7.65	311.2
213.5	-999.00	-999.0	7.50	317.1	6.46	306.9
214.5	-999.00	-999.0	7.73	322.3	7.93	302.1
215.5	-999.00	-999.0	7.73	311.3	7.36	294.3
216.5	-999.00	-999.0	6.32	316.6	8.14	320.4
217.5	-999.00	-999.0	7.54	344.4	11.27	328.9
218.5	-999.00	-999.0	11.72	343.8	9.65	323.6
219.5	-999.00	-999.0	7.65	336.8	8.14	332.0
220.5	-999.00	-999.0	6.25	355.1	7.70	342.6
221.5	-999.00	-999.0	7.61	353.0	6.61	339.1
222.5	-999.00	-999.0	6.13	340.5	4.71	326.3
223.5	-999.00	-999.0	2.85	341.1	3.53	347.3
224.5	-999.00	-999.0	3.12	16.2	0.89	336.9
225.5	-999.00	-999.0	0.53	347.4	1.36	246.6
226.5	-999.00	-999.0	2.16	237.2	5.29	240.2
227.5	-999.00	-999.0	3.26	248.5	7.56	258.7
228.5	-999.00	-999.0	4.96	263.8	8.99	276.0
229.5	-999.00	-999.0	6.16	292.9	10.05	298.8
230.5	-999.00	-999.0	6.32	307.4	6.38	294.5
231.5	-999.00	-999.0	4.42	300.3	7.33	269.9
232.5	-999.00	-999.0	6.39	271.6	11.13	261.7
233.5	-999.00	-999.0	9.00	258.6	9.73	204.2
234.5	-999.00	-999.0	8.55	215.0	6.96	202.8
235.5	-999.00	-999.0	4.08	203.7	4.82	245.2
236.5	-999.00	-999.0	2.53	240.3	3.13	260.4
237.5	-999.00	-999.0	1.55	263.4	2.73	175.5
238.5	-999.00	-999.0	2.37	192.6	5.02	190.2
239.5	-999.00	-999.0	5.35	170.1	3.74	212.1
240.5	-999.00	-999.0	2.66	223.9	7.77	274.8

JASIN 1978 : CURRENT METER DATA : 1000M

DAY 1978	SPEED:14A CM/S	DRN:14A DEGREES	SPEED:K1 CM/S	DRN:K1 DEGREES	SPEED:W1 CM/S	DRN:W1 DEGREES
241.5	8.40	50.5	7.03	279.7	6.09	245.8
242.5	6.81	63.7	5.12	248.0	6.74	203.8
243.5	3.83	77.9	5.42	241.2	7.73	215.2
244.5	1.80	29.8	5.06	228.1	6.42	196.8
245.5	4.08	341.3	3.34	208.3	6.73	187.5
246.5	3.86	356.6	5.02	199.8	9.31	200.2
247.5	4.50	5.7	7.08	209.5	-999.00	-999.0
248.5	4.26	30.1	7.33	220.6	-999.00	-999.0
249.5	5.14	24.9	-999.00	-999.0	-999.00	-999.0
250.5	2.58	53.7	-999.00	-999.0	-999.00	-999.0
251.5	3.28	22.0	-999.00	-999.0	-999.00	-999.0
252.5	2.07	41.6	-999.00	-999.0	-999.00	-999.0
253.5	2.87	86.3	-999.00	-999.0	-999.00	-999.0
254.5	3.23	90.4	-999.00	-999.0	-999.00	-999.0
255.5	4.50	87.6	-999.00	-999.0	-999.00	-999.0
256.5	3.67	71.0	-999.00	-999.0	-999.00	-999.0
257.5	3.09	42.0	-999.00	-999.0	-999.00	-999.0
258.5	1.42	16.7	-999.00	-999.0	-999.00	-999.0
259.5	2.56	299.2	-999.00	-999.0	-999.00	-999.0
260.5	4.46	230.6	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 1500M

DAY 1978	SPEED:E3 CM/S	DRN:E3 DEGREES	SPEED:E4 CM/S	DRN:E4 DEGREES	SPEED:13 CM/S	DRN:13 DEGREES	SPEED:14 CM/S	DRN:14 DEGREES
195.5	-999.00	-999.0	11.51	229.4	-999.00	-999.0	-999.00	-999.0
196.5	-999.00	-999.0	10.02	231.8	-999.00	-999.0	-999.00	-999.0
197.5	-999.00	-999.0	6.54	222.2	-999.00	-999.0	-999.00	-999.0
198.5	2.96	335.7	3.43	202.9	-999.00	-999.0	-999.00	-999.0
199.5	3.84	0.8	0.82	73.8	-999.00	-999.0	10.69	320.7
200.5	5.56	3.1	2.60	17.5	5.29	60.8	13.83	320.9
201.5	6.76	12.9	4.10	8.5	3.24	100.2	12.38	312.9
202.5	6.61	46.4	7.42	35.3	5.03	114.2	8.09	330.5
203.5	5.73	63.9	9.33	43.0	6.65	112.1	7.02	318.1
204.5	4.85	59.0	12.60	37.4	8.79	101.8	7.91	290.4
205.5	4.26	62.1	18.45	43.1	12.41	99.9	10.80	286.7
206.5	3.21	71.8	16.72	64.0	15.26	92.6	12.98	284.8
207.5	1.82	80.2	10.05	55.7	16.75	83.1	12.10	283.6
208.5	1.24	92.8	12.67	18.9	18.22	90.5	10.92	288.4
209.5	1.63	195.2	16.99	17.4	12.40	99.6	9.06	284.7
210.5	2.93	220.4	11.01	41.3	4.21	0.1	5.72	287.5
211.5	2.69	225.8	7.75	55.9	10.40	333.5	3.25	285.2
212.5	1.68	213.0	8.68	77.1	12.73	331.1	0.59	35.5
213.5	1.18	170.9	7.33	68.3	13.12	343.6	1.97	37.5
214.5	1.15	98.1	7.82	37.2	16.84	343.8	1.47	335.4
215.5	1.79	68.7	7.64	38.1	15.61	327.8	4.12	258.1
216.5	2.15	80.5	5.52	21.5	13.23	328.1	5.95	243.2
217.5	2.77	51.1	3.88	2.5	10.83	336.3	5.62	232.7
218.5	3.45	75.4	3.02	334.0	8.91	336.9	5.02	247.9
219.5	3.95	88.1	2.16	307.5	6.06	355.1	2.12	19.2
220.5	3.84	75.5	1.39	305.2	2.86	294.6	6.36	66.1
221.5	4.32	53.6	0.74	349.8	7.89	304.1	5.61	90.4
222.5	4.21	43.4	1.26	271.9	9.46	327.2	3.77	142.8
223.5	1.92	52.4	1.79	277.6	16.21	6.8	4.09	200.2
224.5	1.45	67.9	2.57	282.8	13.79	19.6	2.00	219.2
225.5	1.58	38.5	2.53	269.5	8.66	333.9	1.93	305.9
226.5	2.09	43.3	2.62	255.7	-999.00	-999.0	4.40	356.9
227.5	2.68	56.3	2.84	226.9	-999.00	-999.0	6.67	355.2
228.5	3.53	65.2	4.60	225.0	-999.00	-999.0	4.61	339.3
229.5	4.82	62.6	6.08	233.4	-999.00	-999.0	4.51	288.3
230.5	5.98	71.1	5.84	256.5	-999.00	-999.0	9.01	249.7
231.5	5.80	85.7	3.70	257.0	-999.00	-999.0	10.66	226.4
232.5	4.66	51.7	5.16	262.1	-999.00	-999.0	7.38	191.7
233.5	3.82	140.8	8.51	237.6	-999.00	-999.0	5.59	105.6
234.5	5.80	130.0	10.95	219.8	-999.00	-999.0	6.41	91.9
235.5	5.62	133.9	8.24	212.6	-999.00	-999.0	4.52	69.2
236.5	4.74	140.3	6.59	176.3	-999.00	-999.0	1.22	7.2
237.5	2.99	159.6	5.60	178.1	-999.00	-999.0	0.47	8.9
238.5	2.44	190.8	6.94	193.5	-999.00	-999.0	-999.00	-999.0
239.5	1.88	184.4	6.28	192.6	-999.00	-999.0	-999.00	-999.0
240.5	1.06	173.9	5.47	176.6	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 1500M

DAY 1978	SPEED:E3 CM/S	DRN:E3 DEGREES	SPEED:E4 CM/S	DRN:E4 DEGREES	SPEED:I3 CM/S	DRN:I3 DEGREES	SPEED:I4 CM/S	DRN:I4 DEGREES
241.5	1.23	224.7	5.34	142.1	-999.00	-999.0	-999.00	-999.0
242.5	1.63	232.3	5.44	114.0	-999.00	-999.0	-999.00	-999.0
243.5	1.22	195.8	5.14	87.9	-999.00	-999.0	-999.00	-999.0
244.5	0.37	117.3	4.83	54.5	-999.00	-999.0	-999.00	-999.0
245.5	0.78	20.9	8.73	29.4	-999.00	-999.0	-999.00	-999.0
246.5	1.01	343.6	10.47	14.8	-999.00	-999.0	-999.00	-999.0
247.5	1.57	324.9	10.82	35.8	-999.00	-999.0	-999.00	-999.0
248.5	2.12	303.4	7.97	44.1	-999.00	-999.0	-999.00	-999.0
249.5	3.14	293.5	5.20	29.5	-999.00	-999.0	-999.00	-999.0
250.5	4.12	285.7	4.53	15.9	-999.00	-999.0	-999.00	-999.0
251.5	4.82	269.5	4.20	3.9	-999.00	-999.0	-999.00	-999.0
252.5	4.78	263.2	3.51	15.0	-999.00	-999.0	-999.00	-999.0
253.5	5.31	263.8	2.34	30.9	-999.00	-999.0	-999.00	-999.0
254.5	4.99	317.7	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
255.5	3.68	284.9	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
256.5	1.94	241.8	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
257.5	1.66	185.3	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
258.5	2.01	147.9	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
259.5	1.74	139.0	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
260.5	3.07	159.6	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 1500M

DAY 1978	SPEED:15 CM/S	DRN:15 DEGREES	SPEED:13A CM/S	DRN:13A DEGREES	SPEED:14A CM/S	DRN:14A DEGREES
195.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
196.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
197.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
198.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
199.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
200.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
201.5	2.79	6.2	-999.00	-999.0	-999.00	-999.0
202.5	5.49	17.3	-999.00	-999.0	-999.00	-999.0
203.5	6.56	358.0	-999.00	-999.0	-999.00	-999.0
204.5	5.19	341.4	-999.00	-999.0	-999.00	-999.0
205.5	4.37	332.9	-999.00	-999.0	-999.00	-999.0
206.5	3.13	294.6	-999.00	-999.0	-999.00	-999.0
207.5	3.19	291.2	-999.00	-999.0	-999.00	-999.0
208.5	1.90	301.0	-999.00	-999.0	-999.00	-999.0
209.5	1.44	343.8	-999.00	-999.0	-999.00	-999.0
210.5	2.21	28.5	-999.00	-999.0	-999.00	-999.0
211.5	4.10	39.5	-999.00	-999.0	-999.00	-999.0
212.5	2.64	24.2	-999.00	-999.0	-999.00	-999.0
213.5	1.21	345.2	-999.00	-999.0	-999.00	-999.0
214.5	2.02	277.0	-999.00	-999.0	-999.00	-999.0
215.5	1.74	218.2	-999.00	-999.0	-999.00	-999.0
216.5	0.71	219.5	-999.00	-999.0	-999.00	-999.0
217.5	0.90	332.7	-999.00	-999.0	-999.00	-999.0
218.5	2.26	332.9	-999.00	-999.0	-999.00	-999.0
219.5	2.36	328.0	-999.00	-999.0	-999.00	-999.0
220.5	1.40	348.9	-999.00	-999.0	-999.00	-999.0
221.5	1.26	292.1	-999.00	-999.0	-999.00	-999.0
222.5	1.95	351.0	-999.00	-999.0	-999.00	-999.0
223.5	3.24	19.3	-999.00	-999.0	-999.00	-999.0
224.5	6.35	34.2	-999.00	-999.0	-999.00	-999.0
225.5	5.07	20.7	-999.00	-999.0	-999.00	-999.0
226.5	7.13	259.6	-999.00	-999.0	-999.00	-999.0
227.5	4.29	275.2	-999.00	-999.0	-999.00	-999.0
228.5	4.79	225.2	-999.00	-999.0	-999.00	-999.0
229.5	7.87	54.1	-999.00	-999.0	-999.00	-999.0
230.5	5.99	13.8	-999.00	-999.0	-999.00	-999.0
231.5	3.80	333.8	-999.00	-999.0	-999.00	-999.0
232.5	2.73	302.4	-999.00	-999.0	-999.00	-999.0
233.5	1.16	339.5	-999.00	-999.0	-999.00	-999.0
234.5	2.13	338.0	-999.00	-999.0	-999.00	-999.0
235.5	1.74	299.8	-999.00	-999.0	-999.00	-999.0
236.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
237.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
238.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
239.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0
240.5	-999.00	-999.0	-999.00	-999.0	-999.00	-999.0

JASIN 1978 : CURRENT METER DATA : 1500M

DAY	SPEED:15	DRN:15	SPEED:13A	DRN:13A	SPEED:14A	DRN:14A
1978	CM/S	DEGREES	CM/S	DEGRFES	CM/S	DEGREES
241.5	-999.00	-999.0	-999.00	-999.0	5.69	77.8
242.5	-999.00	-999.0	-999.00	-999.0	3.78	58.2
243.5	-999.00	-999.0	-999.00	-999.0	0.75	337.7
244.5	-999.00	-999.0	-999.00	-999.0	3.40	264.1
245.5	-999.00	-999.0	-999.00	-999.0	4.91	281.9
246.5	-999.00	-999.0	5.36	218.0	5.26	290.1
247.5	-999.00	-999.0	3.82	221.4	4.38	301.5
248.5	-999.00	-999.0	4.76	197.2	2.25	327.0
249.5	-999.00	-999.0	7.75	160.0	1.53	123.7
250.5	-999.00	-999.0	9.33	178.2	2.71	131.0
251.5	-999.00	-999.0	10.04	169.6	4.49	119.4
252.5	-999.00	-999.0	10.91	163.4	4.08	125.1
253.5	-999.00	-999.0	12.51	163.3	5.49	193.4
254.5	-999.00	-999.0	8.54	197.1	5.63	173.4
255.5	-999.00	-999.0	6.93	169.1	3.23	105.2
256.5	-999.00	-999.0	14.39	172.8	7.25	31.7
257.5	-999.00	-999.0	21.69	184.4	8.82	28.4
258.5	-999.00	-999.0	13.12	188.9	5.19	332.2
259.5	-999.00	-999.0	7.99	197.1	9.14	283.5
260.5	-999.00	-999.0	10.11	198.5	13.85	251.2

JASIN 78 : CURRENT METER TEMPERATURES : 200M

DAY	TEMP:E3	TEMP:I1	TEMP:I2	TEMP:I3	TEMP:I4	TEMP:I5
1978	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS
195.5	-999.000	-999.000	-999.000	-999.000	-999.000	-999.000
196.5	-999.000	-999.000	8.397	-999.000	-999.000	-999.000
197.5	-999.000	8.375	8.363	-999.000	-999.000	-999.000
198.5	9.160	8.342	8.327	-999.000	-999.000	-999.000
199.5	9.160	8.538	8.366	-999.000	9.170	-999.000
200.5	9.160	8.547	8.344	9.346	9.231	-999.000
201.5	9.160	8.398	8.367	9.237	9.246	8.904
202.5	9.160	8.330	8.370	9.108	9.298	9.017
203.5	9.170	8.388	8.426	9.152	9.200	8.955
204.5	9.160	8.399	8.464	9.106	9.045	9.004
205.5	9.160	8.525	8.373	9.141	9.233	9.014
206.5	9.160	8.718	8.481	9.056	9.311	8.959
207.5	9.160	8.363	8.404	8.934	9.338	8.806
208.5	9.160	8.302	8.355	9.140	9.288	8.900
209.5	9.160	8.322	8.616	9.347	9.307	8.930
210.5	9.170	8.241	8.503	9.352	9.295	8.852
211.5	9.160	8.191	8.506	9.279	9.254	8.856
212.5	9.160	8.310	8.489	9.255	9.235	8.937
213.5	9.160	8.396	8.433	9.326	9.175	8.906
214.5	9.160	8.344	8.494	9.319	9.063	8.932
215.5	9.160	8.414	8.557	9.233	8.909	8.941
216.5	9.160	8.342	8.705	9.361	8.838	8.962
217.5	9.160	8.319	8.491	9.333	8.783	8.982
218.5	9.160	8.470	8.333	9.330	8.889	9.006
219.5	9.160	8.450	8.351	9.319	8.764	8.942
220.5	9.160	8.396	8.427	9.438	8.902	8.933
221.5	9.160	8.292	8.383	9.526	8.851	8.987
222.5	9.160	8.430	8.362	9.560	8.864	8.991
223.5	9.160	8.401	8.332	9.411	9.020	9.119
224.5	9.160	8.639	8.391	9.310	9.168	9.184
225.5	9.160	8.614	8.408	9.298	9.253	9.130
226.5	9.160	8.597	8.420	9.312	9.315	9.096
227.5	9.160	8.580	8.414	9.310	9.394	9.125
228.5	9.160	8.735	8.322	9.135	9.473	9.131
229.5	9.160	8.618	8.577	9.050	9.484	9.089
230.5	9.160	8.576	8.490	9.208	9.443	9.046
231.5	9.160	8.407	8.589	9.299	9.338	9.052
232.5	9.160	8.218	8.515	9.375	9.266	9.198
233.5	9.160	8.221	8.767	9.323	8.866	9.062
234.5	9.160	8.251	8.683	9.289	8.786	9.055
235.5	9.180	8.434	8.518	9.296	9.004	9.064
236.5	9.170	8.530	8.448	9.286	8.754	-999.000
237.5	9.160	8.473	8.529	9.280	8.845	-999.000
238.5	9.160	8.686	8.654	9.318	-999.000	-999.000
239.5	9.170	8.688	8.516	9.326	-999.000	-999.000
240.5	9.180	8.525	8.445	9.268	-999.000	-999.000

JASIN 78 : CURRENT METER TEMPERATURES : 200M

DAY	TEMP:E3	TEMP:I1	TEMP:I2	TEMP:I3	TEMP:I4	TEMP:I5
1978	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS
241.5	9.170	8.588	8.549	9.281	-999.000	-999.000
242.5	9.180	8.863	8.565	9.314	-999.000	-999.000
243.5	9.220	8.626	8.406	9.339	-999.000	-999.000
244.5	9.220	8.556	8.412	-999.000	-999.000	-999.000
245.5	9.200	8.861	8.400	-999.000	-999.000	-999.000
246.5	9.250	-999.000	8.449	-999.000	-999.000	-999.000
247.5	9.190	-999.000	8.458	-999.000	-999.000	-999.000
248.5	9.190	-999.000	8.532	-999.000	-999.000	-999.000
249.5	9.380	-999.000	-999.000	-999.000	-999.000	-999.000
250.5	9.550	-999.000	-999.000	-999.000	-999.000	-999.000
251.5	9.700	-999.000	-999.000	-999.000	-999.000	-999.000
252.5	9.510	-999.000	-999.000	-999.000	-999.000	-999.000
253.5	9.370	-999.000	-999.000	-999.000	-999.000	-999.000
254.5	9.380	-999.000	-999.000	-999.000	-999.000	-999.000
255.5	9.410	-999.000	-999.000	-999.000	-999.000	-999.000
256.5	9.660	-999.000	-999.000	-999.000	-999.000	-999.000
257.5	9.650	-999.000	-999.000	-999.000	-999.000	-999.000
258.5	9.490	-999.000	-999.000	-999.000	-999.000	-999.000
259.5	9.410	-999.000	-999.000	-999.000	-999.000	-999.000
260.5	9.280	-999.000	-999.000	-999.000	-999.000	-999.000

JASIN 78 : CURRENT METER TEMPERATURES : 200M

DAY	TEMP:I3A	TEMP:I4A	TEMP:K1
1978	CELSIUS	CELSIUS	CELSIUS
195.5	-999.000	-999.000	8.705
196.5	-999.000	-999.000	8.932
197.5	-999.000	-999.000	8.849
198.5	-999.000	-999.000	8.816
199.5	-999.000	-999.000	8.799
200.5	-999.000	-999.000	8.800
201.5	-999.000	-999.000	8.840
202.5	-999.000	-999.000	9.087
203.5	-999.000	-999.000	8.958
204.5	-999.000	-999.000	9.152
205.5	-999.000	-999.000	8.910
206.5	-999.000	-999.000	8.525
207.5	-999.000	-999.000	8.530
208.5	-999.000	-999.000	8.557
209.5	-999.000	-999.000	8.500
210.5	-999.000	-999.000	8.858
211.5	-999.000	-999.000	8.875
212.5	-999.000	-999.000	8.810
213.5	-999.000	-999.000	8.884
214.5	-999.000	-999.000	9.085
215.5	-999.000	-999.000	8.861
216.5	-999.000	-999.000	8.839
217.5	-999.000	-999.000	8.851
218.5	-999.000	-999.000	8.710
219.5	-999.000	-999.000	8.788
220.5	-999.000	-999.000	8.716
221.5	-999.000	-999.000	8.994
222.5	-999.000	-999.000	8.970
223.5	-999.000	-999.000	9.178
224.5	-999.000	-999.000	9.048
225.5	-999.000	-999.000	9.065
226.5	-999.000	-999.000	9.035
227.5	-999.000	-999.000	9.041
228.5	-999.000	-999.000	9.091
229.5	-999.000	-999.000	9.275
230.5	-999.000	-999.000	9.271
231.5	-999.000	-999.000	9.243
232.5	-999.000	-999.000	9.126
233.5	-999.000	-999.000	9.021
234.5	-999.000	-999.000	8.806
235.5	-999.000	-999.000	8.755
236.5	-999.000	-999.000	8.855
237.5	-999.000	-999.000	8.861
238.5	-999.000	-999.000	8.767
239.5	-999.000	-999.000	8.736
240.5	-999.000	-999.000	8.739

JASIN 78 : CURRENT METER TEMPERATURES : 200M

DAY	TEMP:I3A	TEMP:I4A	TEMP:K1
1978	CELSIUS	CELSIUS	CELSIUS
241.5	-999.000	9.181	8.798
242.5	-999.000	9.057	8.649
243.5	-999.000	9.092	8.779
244.5	-999.000	9.230	8.961
245.5	-999.000	9.302	8.871
246.5	9.036	9.333	8.965
247.5	9.066	9.279	8.955
248.5	9.069	9.130	8.924
249.5	9.008	9.043	-999.000
250.5	9.044	9.178	-999.000
251.5	9.078	9.247	-999.000
252.5	9.052	9.291	-999.000
253.5	9.035	9.217	-999.000
254.5	8.874	9.286	-999.000
255.5	8.921	8.999	-999.000
256.5	8.937	9.038	-999.000
257.5	8.944	8.960	-999.000
258.5	8.974	9.088	-999.000
259.5	8.964	9.120	-999.000
260.5	8.960	9.113	-999.000

JASIN 78 : CURRENT METER TEMPERATURES : 500M

DAY	TEMP:E3	TEMP:E4	TEMP:I1	TEMP:I2	TEMP:I3	TEMP:I4	TEMP:I5
1978	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS
195.5	-999.000	8.940	-999.000	-999.000	-999.000	-999.000	-999.000
196.5	-999.000	8.890	-999.000	7.713	-999.000	-999.000	-999.000
197.5	-999.000	8.870	-999.000	7.704	-999.000	-999.000	-999.000
198.5	8.850	8.880	8.065	7.843	-999.000	-999.000	-999.000
199.5	8.830	8.850	8.059	7.953	-999.000	8.455	-999.000
200.5	8.830	8.890	8.030	7.877	8.507	8.479	-999.000
201.5	8.800	9.010	8.004	7.916	8.435	8.514	8.514
202.5	8.920	8.970	7.990	8.012	8.467	8.647	8.519
203.5	9.020	8.950	8.003	8.049	8.422	8.530	8.494
204.5	9.020	8.860	7.997	8.011	8.432	8.487	8.522
205.5	8.900	8.950	8.030	7.982	8.450	8.517	8.523
206.5	8.770	8.940	8.117	7.853	8.392	8.609	8.490
207.5	8.670	8.830	7.982	7.848	8.372	8.641	8.454
208.5	8.650	8.790	7.904	7.863	8.409	8.611	8.460
209.5	8.640	8.770	7.874	7.978	8.473	8.653	8.459
210.5	8.600	8.940	7.666	8.206	8.518	8.602	8.447
211.5	8.620	8.990	7.641	8.166	8.512	8.550	8.471
212.5	8.660	8.970	7.776	8.060	8.530	8.516	8.470
213.5	8.710	8.950	7.800	8.059	8.508	8.477	8.447
214.5	8.770	8.970	7.796	8.118	8.538	8.431	8.450
215.5	8.820	9.010	7.788	8.153	8.540	8.407	8.448
216.5	8.830	9.000	7.777	8.271	8.636	8.371	8.459
217.5	8.850	8.980	7.855	8.029	8.518	8.333	8.462
218.5	8.840	8.940	8.110	7.837	8.511	8.359	8.478
219.5	8.810	8.920	7.949	7.829	8.572	8.425	8.471
220.5	8.870	8.960	7.688	7.837	8.616	8.406	8.467
221.5	8.870	8.990	7.860	7.809	8.528	8.391	8.493
222.5	8.830	9.020	7.939	7.812	8.659	8.398	8.516
223.5	8.820	9.020	7.955	7.827	8.583	8.438	8.563
224.5	8.840	8.990	8.077	7.872	8.516	8.469	8.636
225.5	8.880	8.950	8.049	7.872	8.531	8.568	8.599
226.5	8.900	9.000	8.099	7.898	8.563	8.643	8.589
227.5	8.890	9.020	8.178	7.887	8.537	8.685	8.601
228.5	8.800	8.980	8.214	7.861	8.465	8.681	8.662
229.5	8.700	8.870	7.949	8.010	8.488	8.645	8.635
230.5	8.700	8.790	8.208	8.017	8.476	8.587	8.513
231.5	8.730	8.780	7.817	8.179	8.513	8.548	8.557
232.5	8.650	8.690	-999.000	8.073	8.545	8.504	8.483
233.5	8.630	8.800	-999.000	8.287	8.518	8.408	8.546
234.5	8.710	8.910	-999.000	8.273	8.529	8.415	8.543
235.5	8.740	8.770	-999.000	8.198	8.523	8.393	8.522
236.5	8.680	8.920	-999.000	8.104	8.555	8.387	-999.000
237.5	8.790	9.010	-999.000	7.996	8.560	8.392	-999.000
238.5	8.800	9.000	-999.000	8.096	8.539	-999.000	-999.000
239.5	8.840	8.990	-999.000	8.026	8.575	-999.000	-999.000
240.5	8.900	8.990	-999.000	7.902	8.597	-999.000	-999.000

JASIN 78 : CURRENT METER TEMPERATURES : 500M

DAY	TEMP:I3A	TEMP:I4A	TEMP:K1
1978	CELSIUS	CELSIUS	CELSIUS
195.5	-999.000	-999.000	8.356
196.5	-999.000	-999.000	8.352
197.5	-999.000	-999.000	8.407
198.5	-999.000	-999.000	8.486
199.5	-999.000	-999.000	8.435
200.5	-999.000	-999.000	8.415
201.5	-999.000	-999.000	8.388
202.5	-999.000	-999.000	8.403
203.5	-999.000	-999.000	8.436
204.5	-999.000	-999.000	8.519
205.5	-999.000	-999.000	8.496
206.5	-999.000	-999.000	8.676
207.5	-999.000	-999.000	8.193
208.5	-999.000	-999.000	8.273
209.5	-999.000	-999.000	8.411
210.5	-999.000	-999.000	8.424
211.5	-999.000	-999.000	8.411
212.5	-999.000	-999.000	8.431
213.5	-999.000	-999.000	8.465
214.5	-999.000	-999.000	8.421
215.5	-999.000	-999.000	8.397
216.5	-999.000	-999.000	8.383
217.5	-999.000	-999.000	8.345
218.5	-999.000	-999.000	8.354
219.5	-999.000	-999.000	8.465
220.5	-999.000	-999.000	8.460
221.5	-999.000	-999.000	8.518
222.5	-999.000	-999.000	8.523
223.5	-999.000	-999.000	8.526
224.5	-999.000	-999.000	8.373
225.5	-999.000	-999.000	8.436
226.5	-999.000	-999.000	8.530
227.5	-999.000	-999.000	8.579
228.5	-999.000	-999.000	8.694
229.5	-999.000	-999.000	8.604
230.5	-999.000	-999.000	8.596
231.5	-999.000	-999.000	8.449
232.5	-999.000	-999.000	8.417
233.5	-999.000	-999.000	8.442
234.5	-999.000	-999.000	8.389
235.5	-999.000	-999.000	8.405
236.5	-999.000	-999.000	8.363
237.5	-999.000	-999.000	8.370
238.5	-999.000	-999.000	8.462
239.5	-999.000	-999.000	8.430
240.5	-999.000	-999.000	8.442

JASIN 78 : CURRENT METER TEMPERATURES : 500M

DAY	TEMP:I3A	TEMP:I4A	TEMP:K1
1978	CELSIUS	CELSIUS	CELSIUS
241.5	-999.000	8.597	8.418
242.5	-999.000	8.612	8.448
243.5	-999.000	8.579	8.462
244.5	-999.000	8.594	8.467
245.5	-999.000	8.609	8.464
246.5	8.455	8.624	8.465
247.5	8.454	8.613	8.464
248.5	8.435	8.561	8.442
249.5	8.409	8.570	-999.000
250.5	8.426	8.606	-999.000
251.5	8.450	8.630	-999.000
252.5	8.472	8.615	-999.000
253.5	8.489	8.613	-999.000
254.5	8.467	8.615	-999.000
255.5	8.440	8.605	-999.000
256.5	8.438	8.578	-999.000
257.5	8.464	8.576	-999.000
258.5	8.448	8.580	-999.000
259.5	8.409	8.546	-999.000
260.5	8.356	8.591	-999.000

JASIN 78 : CURRENT METER TEMPERATURES : 1000M

DAY	TEMP:E3	TEMP:E4	TEMP:I1	TEMP:I2	TEMP:I3	TEMP:I4	TEMP:I5
1978	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS
195.5	-999.000	6.590	-999.000	-999.000	-999.000	-999.000	-999.000
196.5	-999.000	6.550	-999.000	5.653	-999.000	-999.000	-999.000
197.5	-999.000	6.530	5.868	6.012	-999.000	-999.000	-999.000
198.5	7.090	6.560	5.955	5.946	-999.000	-999.000	-999.000
199.5	7.070	6.640	6.019	6.345	-999.000	7.222	-999.000
200.5	7.070	6.740	6.018	6.552	6.646	7.256	-999.000
201.5	6.980	6.690	5.958	6.704	6.552	7.228	7.092
202.5	6.920	6.760	6.012	6.925	6.546	7.153	7.040
203.5	6.930	6.820	5.800	6.863	6.608	7.203	6.991
204.5	6.990	6.870	5.737	6.824	6.700	7.342	6.938
205.5	7.090	6.970	5.824	6.558	6.772	7.258	6.964
206.5	7.100	7.010	5.870	6.333	6.740	7.179	6.972
207.5	7.050	6.980	5.856	6.491	6.643	-999.000	6.979
208.5	6.950	6.980	5.693	6.367	6.585	-999.000	6.976
209.5	6.830	7.050	5.614	6.365	6.615	-999.000	6.990
210.5	6.780	7.180	5.610	6.310	6.628	7.063	6.973
211.5	6.870	7.330	5.701	6.295	6.890	7.069	6.939
212.5	6.930	7.430	5.751	6.191	6.939	7.068	6.927
213.5	7.010	7.430	5.723	6.408	6.918	7.096	6.893
214.5	7.060	7.320	5.720	6.608	6.839	7.112	6.901
215.5	7.090	7.490	5.762	6.506	6.766	7.038	6.872
216.5	7.090	7.580	5.863	6.354	6.743	7.041	6.872
217.5	7.060	7.570	5.755	6.178	6.822	7.003	-999.000
218.5	7.030	7.540	5.654	6.014	6.700	7.024	-999.000
219.5	7.030	7.530	5.631	5.957	6.671	7.078	6.913
220.5	7.010	7.530	5.625	5.934	6.665	7.149	6.979
221.5	7.040	7.510	5.578	5.825	6.693	7.241	7.066
222.5	7.080	7.520	5.611	5.879	6.797	7.415	7.166
223.5	7.070	7.490	5.492	5.794	6.782	7.295	7.277
224.5	7.070	7.430	5.506	5.975	6.693	7.313	7.120
225.5	7.110	7.430	5.498	6.071	6.819	7.133	7.250
226.5	7.140	7.470	5.614	5.856	6.888	7.181	7.325
227.5	7.160	7.480	5.746	5.546	6.949	7.155	7.387
228.5	7.200	7.520	5.654	5.442	6.955	7.166	7.157
229.5	7.230	7.570	5.761	6.080	6.910	7.101	7.193
230.5	7.290	7.610	5.664	6.409	7.093	6.998	6.699
231.5	7.330	7.430	5.664	6.618	7.120	6.906	6.390
232.5	7.300	7.110	5.664	6.746	7.146	6.914	6.252
233.5	7.320	6.910	5.568	6.814	7.147	6.997	6.249
234.5	7.350	6.980	5.579	6.640	7.170	7.062	6.296
235.5	7.280	7.110	5.436	6.601	7.210	7.085	6.317
236.5	7.210	7.220	-999.000	6.539	7.271	7.051	-999.000
237.5	7.160	7.260	-999.000	6.637	7.366	7.034	-999.000
238.5	7.260	7.250	-999.000	6.429	7.372	-999.000	-999.000
239.5	7.480	7.170	-999.000	6.145	7.431	-999.000	-999.000
240.5	7.660	7.150	-999.000	6.302	7.493	-999.000	-999.000

JASIN 78 : CURRENT METER TEMPERATURES : 1000M

DAY	TEMP:I3A	TEMP:I4A	TEMP:K1
1978	CELSIUS	CELSIUS	CELSIUS
195.5	-999.000	-999.000	6.382
196.5	-999.000	-999.000	6.393
197.5	-999.000	-999.000	6.403
198.5	-999.000	-999.000	6.648
199.5	-999.000	-999.000	6.837
200.5	-999.000	-999.000	6.842
201.5	-999.000	-999.000	6.742
202.5	-999.000	-999.000	6.614
203.5	-999.000	-999.000	6.545
204.5	-999.000	-999.000	6.553
205.5	-999.000	-999.000	6.246
206.5	-999.000	-999.000	6.118
207.5	-999.000	-999.000	6.031
208.5	-999.000	-999.000	5.947
209.5	-999.000	-999.000	5.930
210.5	-999.000	-999.000	6.221
211.5	-999.000	-999.000	6.456
212.5	-999.000	-999.000	6.507
213.5	-999.000	-999.000	6.469
214.5	-999.000	-999.000	6.436
215.5	-999.000	-999.000	6.258
216.5	-999.000	-999.000	6.293
217.5	-999.000	-999.000	6.412
218.5	-999.000	-999.000	6.252
219.5	-999.000	-999.000	6.248
220.5	-999.000	-999.000	6.306
221.5	-999.000	-999.000	6.540
222.5	-999.000	-999.000	6.648
223.5	-999.000	-999.000	6.699
224.5	-999.000	-999.000	6.794
225.5	-999.000	-999.000	6.932
226.5	-999.000	-999.000	7.013
227.5	-999.000	-999.000	7.006
228.5	-999.000	-999.000	7.064
229.5	-999.000	-999.000	7.107
230.5	-999.000	-999.000	7.076
231.5	-999.000	-999.000	7.061
232.5	-999.000	-999.000	7.201
233.5	-999.000	-999.000	7.093
234.5	-999.000	-999.000	7.010
235.5	-999.000	-999.000	7.010
236.5	-999.000	-999.000	6.991
237.5	-999.000	-999.000	6.967
238.5	-999.000	-999.000	6.915
239.5	-999.000	-999.000	6.997
240.5	-999.000	-999.000	7.118

JASIN 78 : CURRENT METER TEMPERATURES : 1000M

DAY	TEMP:I3A	TEMP:I4A	TEMP:K1
1978	CELSIUS	CELSIUS	CELSIUS
241.5	-999.000	7.118	7.122
242.5	-999.000	7.125	7.070
243.5	-999.000	7.143	7.084
244.5	-999.000	7.199	7.050
245.5	-999.000	7.159	7.014
246.5	6.800	7.133	7.097
247.5	6.795	7.150	6.968
248.5	6.643	7.185	7.060
249.5	6.581	7.155	-999.000
250.5	6.680	7.149	-999.000
251.5	6.760	7.152	-999.000
252.5	6.737	7.111	-999.000
253.5	6.924	7.065	-999.000
254.5	6.950	7.030	-999.000
255.5	6.937	6.995	-999.000
256.5	6.959	7.072	-999.000
257.5	7.079	7.197	-999.000
258.5	7.031	7.307	-999.000
259.5	6.968	7.334	-999.000
260.5	6.864	7.252	-999.000

JASIN 78 : CURRENT METER TEMPERATURES : 1500M

DAY	TEMP:E3	TEMP:E4	TEMP:I3	TEMP:I4	TEMP:I5	TEMP:I3A	TEMP:I4A
1978	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS
195.5	-999.000	3.600	-999.000	-999.000	-999.000	-999.000	-999.000
196.5	-999.000	3.600	-999.000	-999.000	-999.000	-999.000	-999.000
197.5	-999.000	3.590	-999.000	-999.000	-999.000	-999.000	-999.000
198.5	3.850	3.590	-999.000	-999.000	-999.000	-999.000	-999.000
199.5	3.830	3.600	-999.000	4.352	-999.000	-999.000	-999.000
200.5	3.820	3.600	3.966	4.451	-999.000	-999.000	-999.000
201.5	3.840	3.560	4.014	4.495	4.402	-999.000	-999.000
202.5	3.840	3.500	4.062	4.547	4.377	-999.000	-999.000
203.5	3.800	3.530	4.114	4.551	4.340	-999.000	-999.000
204.5	3.780	3.620	4.128	4.482	4.313	-999.000	-999.000
205.5	3.770	3.650	4.111	4.498	4.308	-999.000	-999.000
206.5	3.780	3.670	4.055	4.377	4.331	-999.000	-999.000
207.5	3.770	3.670	4.048	4.353	4.359	-999.000	-999.000
208.5	3.770	3.700	3.972	4.337	4.379	-999.000	-999.000
209.5	3.790	3.700	3.927	4.313	4.369	-999.000	-999.000
210.5	3.810	3.670	4.032	4.312	4.360	-999.000	-999.000
211.5	3.830	3.750	4.094	4.312	4.298	-999.000	-999.000
212.5	3.840	3.790	4.148	4.342	4.259	-999.000	-999.000
213.5	3.840	3.850	4.097	4.371	4.251	-999.000	-999.000
214.5	3.840	3.860	4.127	4.387	4.259	-999.000	-999.000
215.5	3.830	3.790	4.239	4.402	4.276	-999.000	-999.000
216.5	3.840	3.730	4.154	4.385	4.313	-999.000	-999.000
217.5	3.840	3.700	4.083	4.358	4.323	-999.000	-999.000
218.5	3.820	3.670	4.154	4.307	4.312	-999.000	-999.000
219.5	3.810	3.690	4.213	4.309	4.328	-999.000	-999.000
220.5	3.810	3.710	4.240	4.416	4.342	-999.000	-999.000
221.5	3.810	3.710	4.122	4.473	4.387	-999.000	-999.000
222.5	3.810	3.680	4.032	4.520	4.436	-999.000	-999.000
223.5	3.810	3.680	3.839	4.420	4.480	-999.000	-999.000
224.5	3.820	3.690	3.886	4.314	4.451	-999.000	-999.000
225.5	3.820	3.690	3.944	4.298	4.436	-999.000	-999.000
226.5	3.830	3.690	-999.000	4.331	4.476	-999.000	-999.000
227.5	3.840	3.680	-999.000	4.434	4.442	-999.000	-999.000
228.5	3.850	3.680	-999.000	4.462	4.306	-999.000	-999.000
229.5	3.860	3.710	-999.000	4.476	4.097	-999.000	-999.000
230.5	3.880	3.720	-999.000	4.419	4.175	-999.000	-999.000
231.5	3.880	3.740	-999.000	4.280	4.197	-999.000	-999.000
232.5	3.920	3.850	-999.000	4.160	4.200	-999.000	-999.000
233.5	3.940	3.790	-999.000	4.202	4.180	-999.000	-999.000
234.5	3.900	3.760	-999.000	4.317	4.188	-999.000	-999.000
235.5	3.900	3.800	-999.000	4.336	4.185	-999.000	-999.000
236.5	3.890	3.810	-999.000	4.323	-999.000	-999.000	-999.000
237.5	3.890	3.800	-999.000	4.306	-999.000	-999.000	-999.000
238.5	3.880	3.710	-999.000	-999.000	-999.000	-999.000	-999.000
239.5	3.890	3.680	-999.000	-999.000	-999.000	-999.000	-999.000
240.5	3.900	3.700	-999.000	-999.000	-999.000	-999.000	-999.000

JASIN 78 : CURRENT METER TEMPERATURES : 1500M

DAY	TEMP:E3	TEMP:E4	TEMP:I3	TEMP:I4	TEMP:I5	TEMP:I3A	TEMP:I4A
1978	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS	CELSIUS
241.5	3.900	3.720	-999.000	-999.000	-999.000	-999.000	4.520
242.5	3.900	3.700	-999.000	-999.000	-999.000	-999.000	4.542
243.5	3.890	3.670	-999.000	-999.000	-999.000	-999.000	4.535
244.5	3.880	3.710	-999.000	-999.000	-999.000	-999.000	4.506
245.5	3.870	3.800	-999.000	-999.000	-999.000	-999.000	4.482
246.5	3.860	3.830	-999.000	-999.000	-999.000	4.424	4.467
247.5	3.850	3.870	-999.000	-999.000	-999.000	4.306	4.453
248.5	3.820	3.900	-999.000	-999.000	-999.000	4.385	4.482
249.5	3.830	3.820	-999.000	-999.000	-999.000	4.367	4.482
250.5	3.830	3.750	-999.000	-999.000	-999.000	4.343	4.448
251.5	3.830	3.770	-999.000	-999.000	-999.000	4.202	4.451
252.5	3.840	3.750	-999.000	-999.000	-999.000	4.473	4.536
253.5	3.850	3.770	-999.000	-999.000	-999.000	4.468	4.461
254.5	3.830	-999.000	-999.000	-999.000	-999.000	4.442	4.356
255.5	3.800	-999.000	-999.000	-999.000	-999.000	4.424	4.327
256.5	3.810	-999.000	-999.000	-999.000	-999.000	4.213	4.394
257.5	3.810	-999.000	-999.000	-999.000	-999.000	4.266	4.516
258.5	3.830	-999.000	-999.000	-999.000	-999.000	4.361	4.664
259.5	3.830	-999.000	-999.000	-999.000	-999.000	4.332	4.690
260.5	3.830	-999.000	-999.000	-999.000	-999.000	4.166	4.602

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