

I.O.S.

NEUTRALLY BUOYANT FLOATS
SERIAL NOS 266-293
MAY 1973

by

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Data Report No. 2
1974

NATURAL ENVIRONMENT
INSTITUTE OF
OCEANOGRAPHIC
SCIENCES
RESEARCH COUNCIL

NEUTRALLY BUOYANT FLOATS

Tables of data and diagrams of trajectories derived from the floats appear in the undermentioned publications of the Institute of Oceanographic Sciences (formerly the National Institute of Oceanography).

<u>Serial nos.</u>		<u>N.I.O. Internal Report</u>
1-20	June 1955 - March 1957	D1 (1969)
21-39	July 1957 - December 1958	D2 (1970)
40-58	June - October 1959	D4 (1970)
59-77	November - December 1959	D5 (1970)
78-98	February - June 1960	D6 (1970)
99-119	June - August 1960	D7 (1971)
120-139	July 1961 - August 1963	D8 (1971)
140-160	March - April 1964	D9 (1972)
161-180	April 1964	D10 (1972)
181-208	June 1965 - December 1967	D11 (1973)
209-227	February - March 1969	D3 (1970)
		<u>I.O.S. Data Report</u>
242-265	April 1973	1 (1974)

INSTITUTE OF OCEANOGRAPHIC SCIENCES,
WORMLEY, GODALMING, SURREY

NEUTRALLY BUOYANT FLOATS

SERIAL NOS 266-293

MAY 1973

Tables of times and positions.
Diagrams showing trajectories
and components of displacement.

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W.K. STRUDWICK
and
J.C. SWALLOW

I.O.S. Data Report No. 2
1974

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Introduction

This volume consists of tables and diagrams of the trajectories of 28 floats launched from the RRS 'Discovery' during May 1973. Together with those listed in the previous volume (Ref. 1), they comprise all the floats tracked by the 'Discovery' in the Mid-Ocean Dynamics Experiment (MODE-1).

During May 1973, Loran-C was used as the primary aid to navigation. Short range running fixes on floats (marked by asterisks in the tables) are unlikely to be in error by more than ± 0.2 km. Errors in the other fixes are unlikely to exceed ± 1 km. As before, 'nominal depth' is the depth for which the float was loaded, and 'S.D.' is the standard deviation of the mean observed depth.

For float 14, trajectory No. 275, only a very uncertain depth estimate could be made. The observed depths of other floats loaded for 3000 m ranged from 2810 to 2960 m, with a mean of 2890 m, and it would probably be better to use that mean value for No. 275.

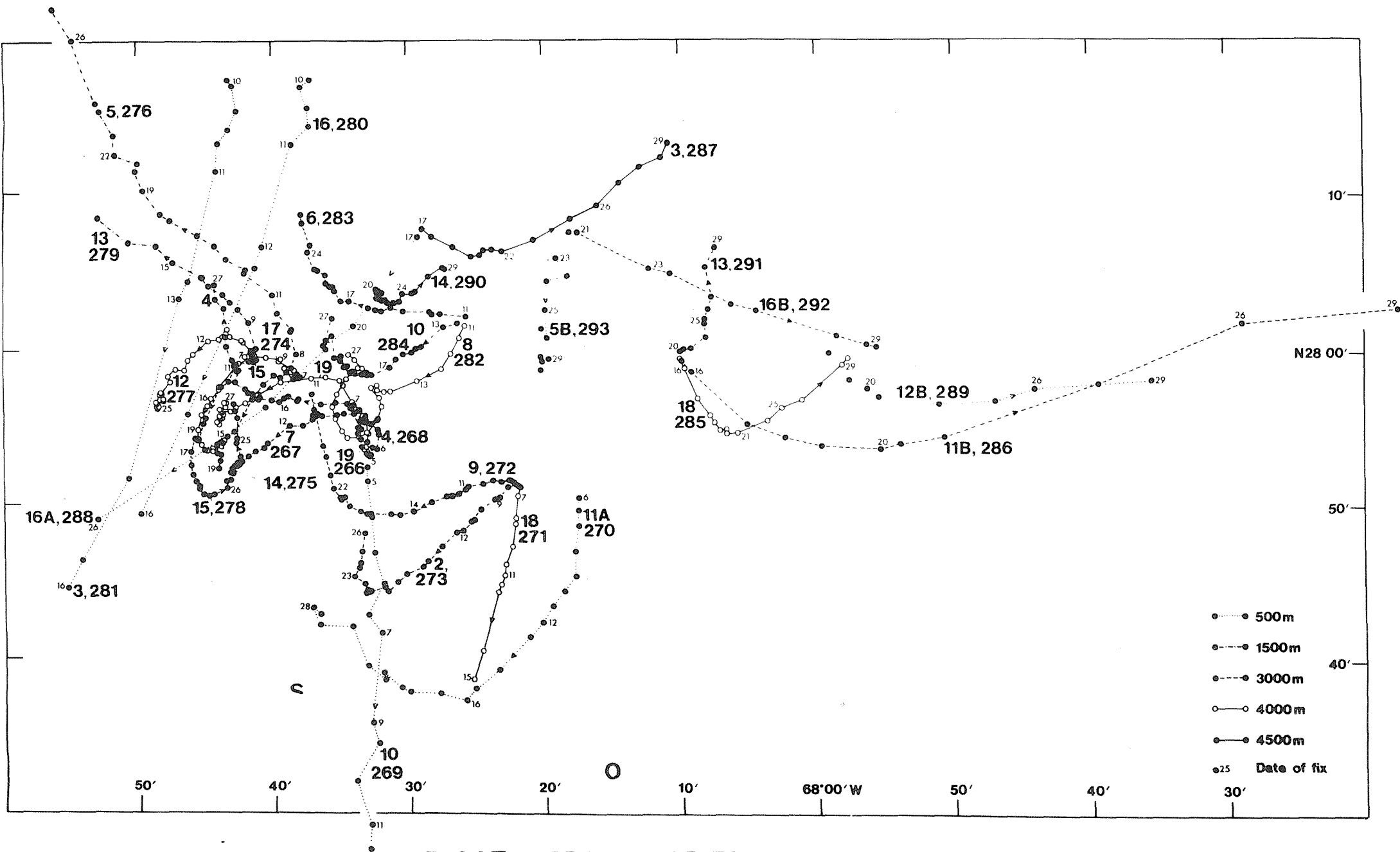
Float 5B, trajectory No. 293, was intended for 500 m but an error was made in the loading, which accounts for the unusual nominal depth.

Reference

1. G.F. Caston and J.C. Swallow, 1974. Neutrally Buoyant Floats, Serial nos. 242-265, April 1973. I.O.S. Data Report No. 1.

LIST OF FLOATS

Serial No	Original Designation	Date and time laid
266	19	0.0/ 5.5.73
267	7	0.1/ 5.5.73
268	4	0.2/ 5.5.73
269	10	0.2/ 5.5.73
270	11	13.4/ 6.5.73
271	18	13.9/ 6.5.73
272	9	14.0/ 6.5.73
273	2	14.0/ 6.5.73
274	17	21.4/ 6.5.73
275	14	21.4/ 6.5.73
276	5	21.5/ 6.5.73
277	12	22.1/ 6.5.73
278	15	22.1/ 6.5.73
279	13	22.1/ 6.5.73
280	16	22.7/ 9.5.73
281	3	23.5/ 9.5.73
282	8	17.2/10.5.73
283	6	17.3/10.5.73
284	10	10.7/12.5.73
285	18	22.0/15.5.73
286	11B	22.1/15.5.73
287	3	16.5/17.5.73
288	16A	16.6/17.5.73
289	12B	3.7/19.5.73
290	14	1.0/20.5.73
291	13	7.7/20.5.73
292	16 B	19.7/21.5.73
293	5B	19.7/21.5.73



FLOAT TRAJECTORIES MAY 1973

SERIAL NO= 266

FLOAT DESIGNATION= 19

DATE AND TIME LAID= 0.0/ 5. 5.73

POSITION LAID= 27 53.3N 68 33.1W DISPLACEMENT ORIGIN= 27 53.0N
(-0.1KM E 0.5KM N) 68 33.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
4000 3890 50

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		T
			LAT.N	LONG.W		+E-W X	+N-S Y	CM/SEC		
1	5.	5	4.0	27 53.5	68 33.3	4.0	-0.5	0.9		
2	5.	5	6.7	27 53.6	68 33.2	6.7	-0.3	1.1	2.5	42
3	5.	5	19.7	27 54.5	68 32.9	19.7	0.2	2.8	3.7	16
4	5.	5	21.2	27 54.6	68 33.0	21.2	-0.0	3.0	4.6	318
5	6.	5	15.9	27 55.3	68 33.1	39.9	-0.2	4.2	1.9	353
6	6.	5	17.7	27 55.5	68 33.4	41.7	-0.7	4.6	9.5	307
7	6.	5	19.2	27 55.7	68 33.2	43.2	-0.3	5.0	9.2	42
8	6.	5	22.5	27 55.6	68 33.4	46.5	-0.7	4.8	3.2	241
9	7.	5	2.1	27 56.0	68 33.6	50.1	-1.0	5.5	6.2	336
10	7.	5	20.3	27 56.6	68 34.2	68.3	-2.0	6.6	2.3	318
11	9.	5	2.5	27 57.6	68 34.9	98.5	-3.1	8.5	2.0	328
12	9.	5	10.4	27 57.9	68 35.0	106.4	-3.3	9.1	2.0	344
13	10.	5	15.9	27 58.2	68 36.2	135.9	-5.2	9.6	1.9	286
14	11.	5	7.5	27 58.1	68 37.1	151.5	-6.7	9.4	2.7	263
15	12.	5	11.8	27 58.0	68 38.0	179.8	-8.2	9.2	1.5	263
16	13.	5	7.7	27 57.8	68 39.4	199.7	-10.5	8.9	3.2	261
* 17	15.	5	4.6	27 57.0	68 41.1	244.6	-13.3	7.4	2.0	242
18	15.	5	11.6	27 57.0	68 41.0	251.6	-13.1	7.4	0.7	90
19	16.	5	5.0	27 56.7	68 41.5	269.0	-13.9	6.8	1.6	236
* 20	16.	5	14.3	27 56.5	68 42.0	278.3	-14.8	6.5	2.7	246
* 21	17.	5	14.6	27 56.2	68 42.7	302.6	-15.9	5.9	1.5	244
22	18.	5	19.7	27 56.0	68 43.2	331.7	-16.7	5.5	0.9	246
* 23	19.	5	17.3	27 56.0	68 43.8	353.3	-17.7	5.5	1.3	270
24	20.	5	1.7	27 55.8	68 43.8	361.7	-17.7	5.2	1.2	180
25	21.	5	0.5	27 55.6	68 43.9	384.5	-17.9	4.8	0.5	204
* 26	21.	5	4.3	27 55.5	68 44.0	388.3	-18.0	4.6	1.8	222
* 27	22.	5	2.7	27 55.2	68 44.2	410.7	-18.4	4.1	0.8	211
28	22.	5	19.0	27 55.1	68 43.9	427.0	-17.9	3.9	0.9	111
* 29	23.	5	4.8	27 55.6	68 43.9	436.8	-17.9	4.8	2.6	0
30	24.	5	4.5	27 55.6	68 43.7	460.5	-17.5	4.8	0.4	90
31	24.	5	22.9	27 55.8	68 43.7	478.9	-17.5	5.2	0.6	0
32	25.	5	3.1	27 56.1	68 44.0	483.1	-18.0	5.7	4.9	318
33	26.	5	12.8	27 56.2	68 43.5	516.8	-17.2	5.9	0.7	77
34	26.	5	23.8	27 56.5	68 43.4	527.8	-17.1	6.5	1.5	16
* 35	27.	5	9.0	27 56.5	68 43.6	537.0	-17.4	6.5	1.0	270

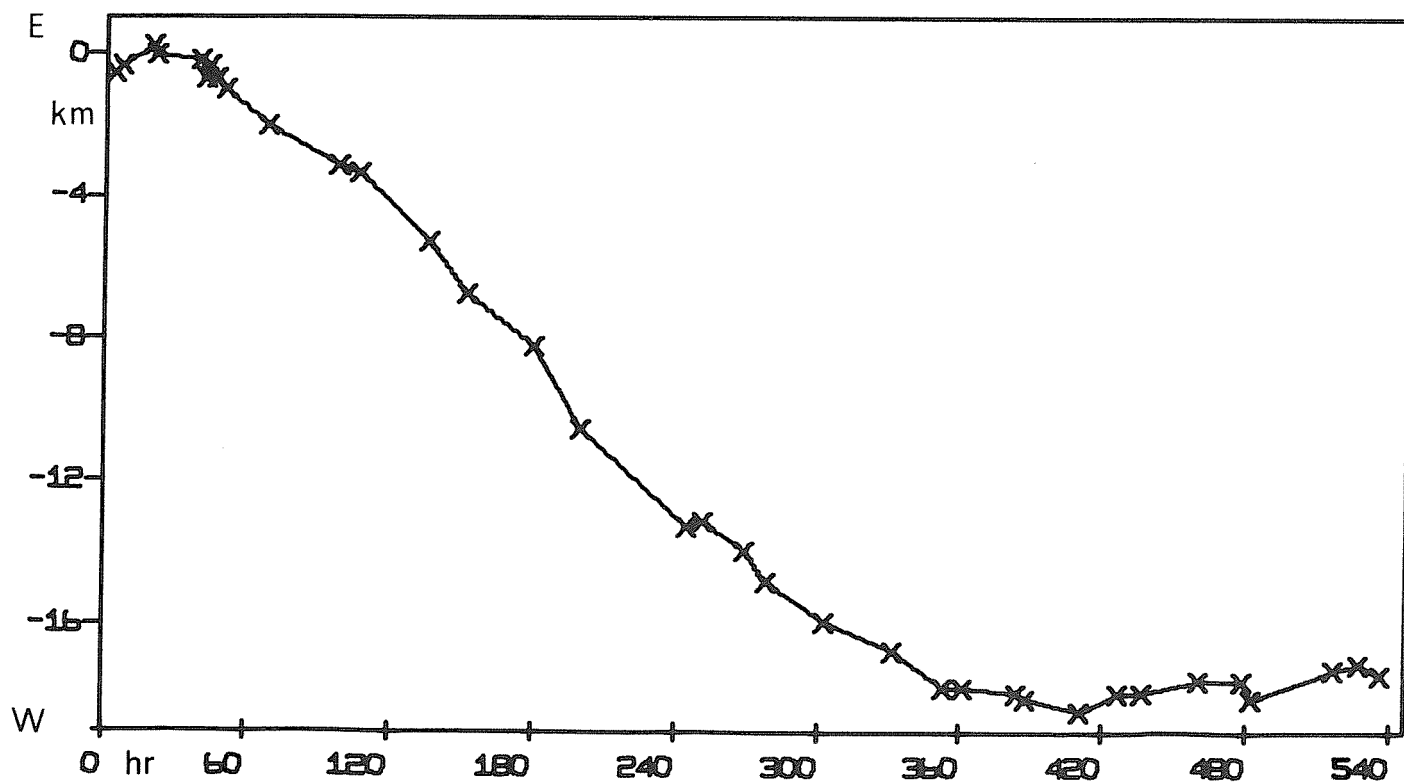
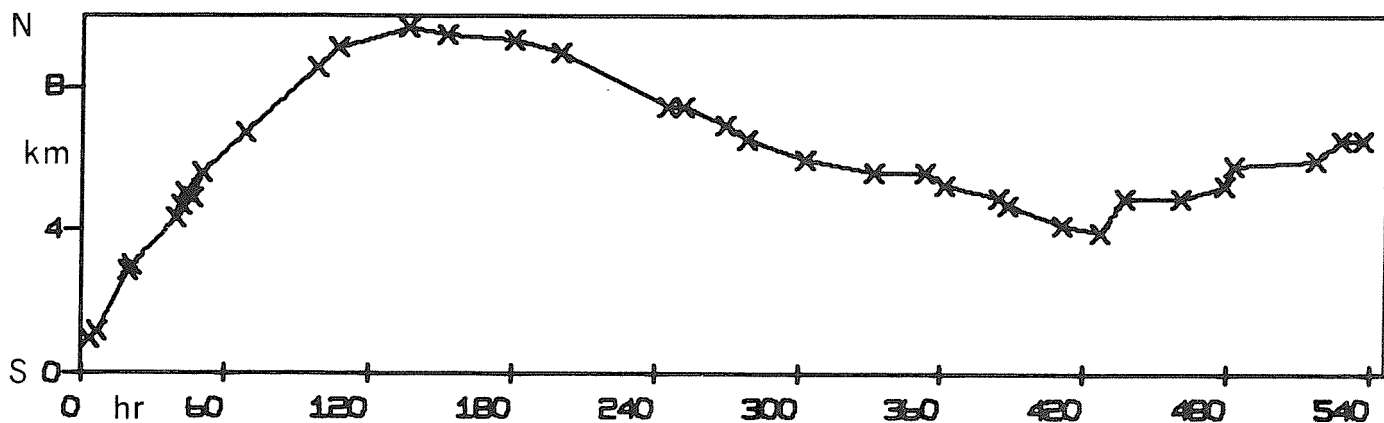
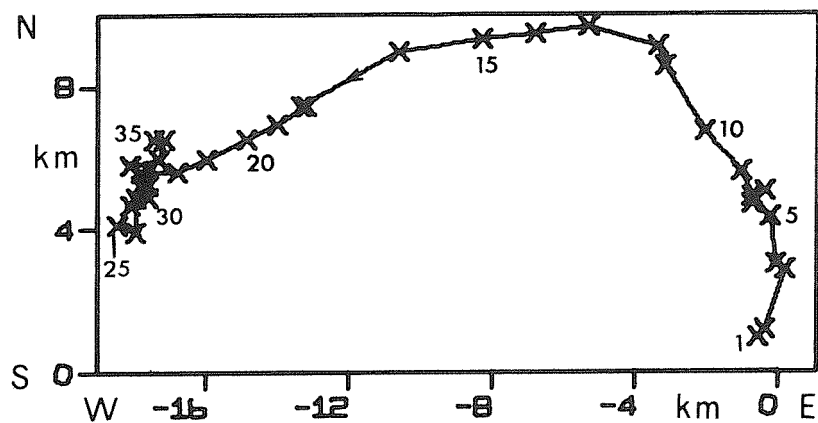
MEAN SPEED ALONG TRAJECTORY= 1.7 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 35 = 0.9 CM/SEC 288 DEGREES TRUE

SERIAL NO = 266

FLOAT DESIGNATION = 19

DATE AND TIME LAID = 0.0/5.5.73



SERIAL NO= 267

FLOAT DESIGNATION= 7

DATE AND TIME LAID= 0.1/ 5. 5.73

POSITION LAID= 27 53.2N 68 33.2W DISPLACEMENT ORIGIN= 27 53.0N
(-0.3KM E 0.3KM N) 68 33.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
3000 2940 10

FIX NO	DATE	TIME GMT	FIX POSITION LAT.N	LONG.W	HOURS SINCE LAID	DISPLACEMENT (KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	5.	5	3.6	27 53.2	68 33.1	3.5	-0.2	0.4	
2	5.	5	15.4	27 53.7	68 33.5	15.3	-0.8	1.3	325
3	5.	5	19.8	27 54.0	68 33.1	19.7	-0.2	1.8	50
4	6.	5	4.3	27 54.2	68 33.5	28.2	-0.8	2.2	299
5	6.	5	16.6	27 54.6	68 33.7	40.5	-1.1	3.0	336
6	6.	5	22.5	27 54.9	68 33.7	46.4	-1.1	3.5	0
7	7.	5	2.1	27 55.4	68 33.6	50.0	-1.0	4.4	10
8	7.	5	13.1	27 54.8	68 33.5	61.0	-0.8	3.3	172
9	8.	5	2.4	27 55.8	68 34.0	74.3	-1.6	5.2	336
10	9.	5	2.5	27 55.8	68 34.7	98.4	-2.8	5.2	270
11	9.	5	10.5	27 55.8	68 35.3	106.4	-3.8	5.2	270
* 12	10.	5	14.3	27 55.7	68 36.4	134.2	-5.6	5.0	264
13	10.	5	22.0	27 55.8	68 36.6	141.9	-5.9	5.2	299
14	11.	5	7.5	27 55.7	68 37.0	151.4	-6.6	5.0	254
15	11.	5	11.9	27 55.4	68 37.1	155.8	-6.7	4.4	196
16	12.	5	7.3	27 55.0	68 37.8	175.2	-7.9	3.7	237
17	12.	5	21.9	27 55.0	68 38.7	189.8	-9.4	3.7	270
* 18	15.	5	4.3	27 53.9	68 40.4	244.2	-12.1	1.7	234
19	15.	5	13.0	27 53.6	68 40.7	252.9	-12.6	1.1	222
20	16.	5	5.0	27 53.4	68 41.3	268.9	-13.6	0.7	249
* 21	16.	5	15.2	27 53.1	68 41.8	279.1	-14.4	0.2	236
* 22	17.	5	14.6	27 52.8	68 42.3	302.5	-15.3	-0.4	236
23	18.	5	3.4	27 52.5	68 42.5	315.3	-15.6	-0.9	211
24	18.	5	19.7	27 52.4	68 42.6	331.6	-15.8	-1.1	222
* 25	19.	5	17.8	27 52.2	68 43.0	353.7	-16.4	-1.5	241
26	20.	5	9.1	27 52.0	68 42.8	369.0	-16.1	-1.8	138
27	20.	5	20.5	27 52.0	68 43.1	380.4	-16.6	-1.8	270
* 28	21.	5	4.0	27 52.0	68 43.1	387.9	-16.6	-1.8	90
* 29	22.	5	2.5	27 52.0	68 42.9	410.4	-16.2	-1.8	90
30	22.	5	19.0	27 52.4	68 42.8	426.9	-16.1	-1.1	13
* 31	23.	5	4.9	27 52.7	68 42.5	436.8	-15.6	-0.6	42
32	24.	5	4.5	27 53.0	68 42.4	460.4	-15.4	0.0	16
33	24.	5	23.8	27 54.0	68 42.7	479.7	-15.9	1.8	345
34	25.	5	7.3	27 54.2	68 42.6	487.2	-15.8	2.2	24
35	26.	5	12.8	27 55.6	68 42.6	516.7	-15.8	4.8	0
36	26.	5	23.8	27 56.0	68 42.8	527.7	-16.1	5.5	336
* 37	27.	5	9.1	27 56.5	68 42.8	537.0	-16.1	6.5	0

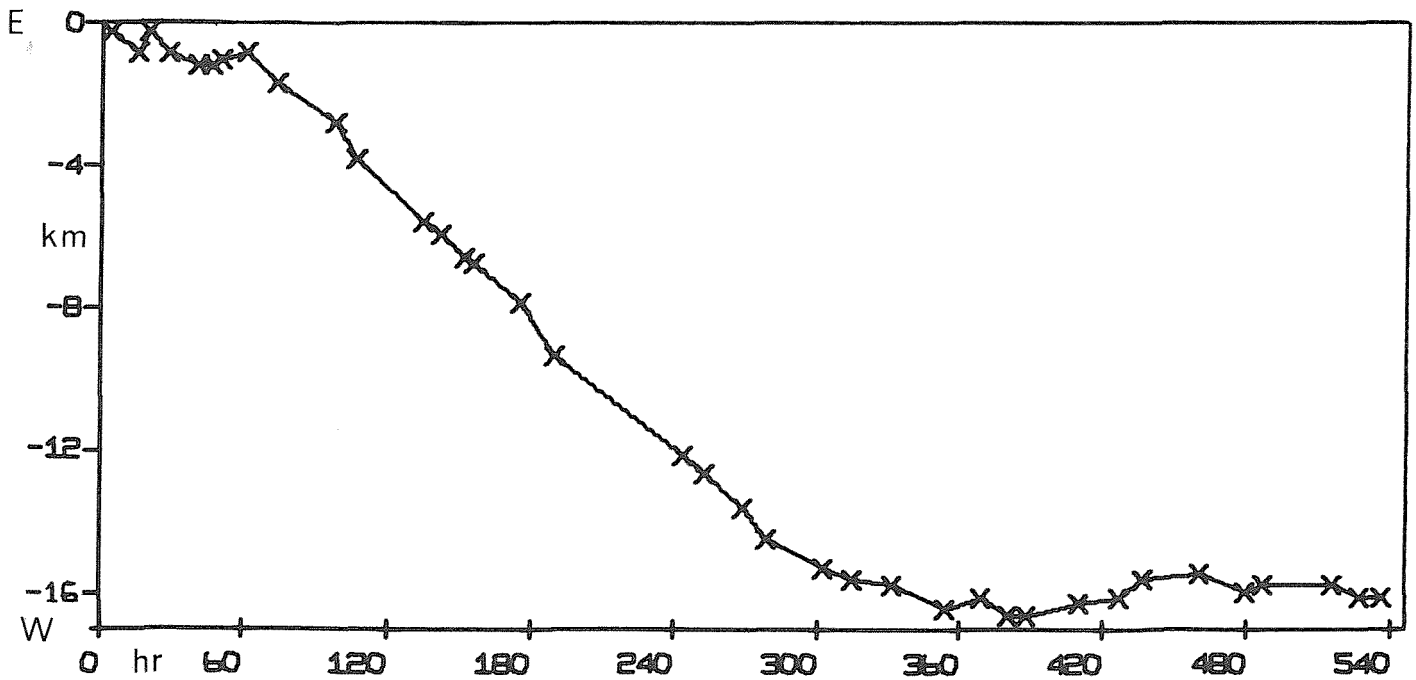
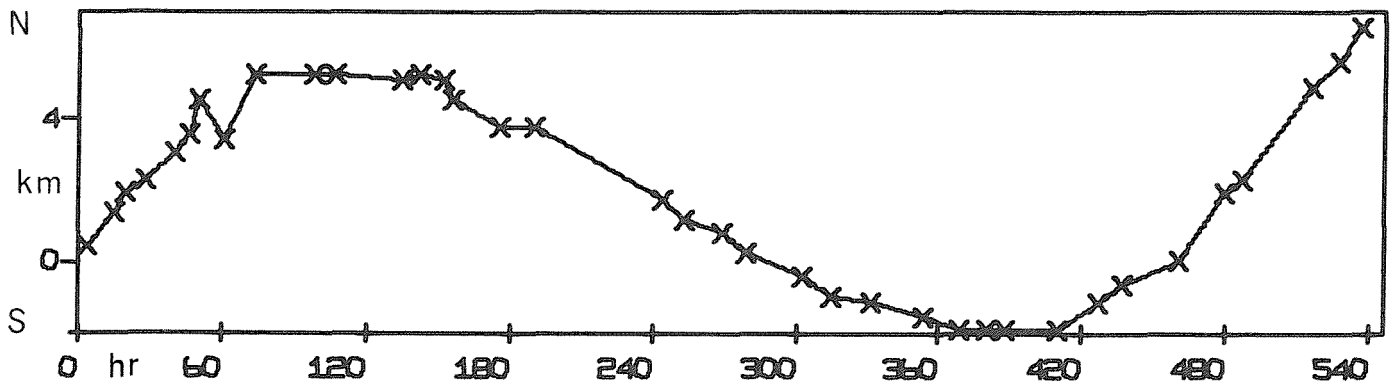
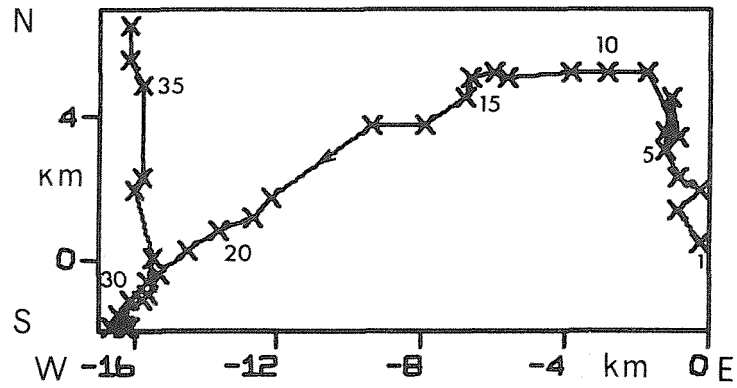
MEAN SPEED ALONG TRAJECTORY= 1.9 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 37 = 0.9 CM/SEC 291 DEGREES TRUE

SERIAL NO = 267

FLOAT DESIGNATION = 7

DATE AND TIME LAID = 0.1/5.5.73



SERIAL NO= 268

FLOAT DESIGNATION= 4

DATE AND TIME LAID= 0.2/ 5. 5.73

POSITION LAID= 27 53.2N 68 33.3W DISPLACEMENT ORIGIN= 27 53.0N
(-0.4KM E 0.3KM N) 68 33.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
1500 1610 50

FIX NO	DATE	TIME GMT	FIX LAT.N	POSITION LONG.W	HOURS SINCE LAID	DISPLACEMENT (KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	5.	5	3.6	27 53.1	68 32.9	3.4	0.2	0.2	
2	5.	5	8.0	27 53.1	68 32.8	7.8	0.3	0.2	1.0 90
3	5.	5	19.5	27 53.6	68 32.6	19.3	0.7	1.1	2.4 20
4	6.	5	7.9	27 53.5	68 32.3	31.7	1.1	0.9	1.2 111
5	6.	5	15.9	27 54.5	68 32.2	39.7	1.3	2.8	6.4 5
6	7.	5	2.1	27 54.8	68 32.2	49.9	1.3	3.3	1.5 0
7	7.	5	12.5	27 55.1	68 32.8	60.3	0.3	3.9	3.0 299
8	8.	5	2.4	27 55.4	68 32.3	74.2	1.1	4.4	2.0 56
9	9.	5	3.7	27 55.2	68 33.3	99.5	-0.5	4.1	1.8 257
10	9.	5	10.6	27 55.6	68 33.2	106.4	-0.3	4.8	3.0 13
11	10.	5	0.3	27 56.0	68 33.7	120.1	-1.1	5.5	2.2 312
* 12	10.	5	14.1	27 56.2	68 34.3	133.9	-2.1	5.9	2.1 291
13	10.	5	17.1	27 56.4	68 34.0	136.9	-1.6	6.3	5.7 53
14	11.	5	4.8	27 56.0	68 34.2	148.6	-2.0	5.5	1.9 204
15	11.	5	11.9	27 56.5	68 34.5	155.7	-2.5	6.5	4.1 332
16	12.	5	11.8	27 56.5	68 35.4	179.6	-3.9	6.5	1.7 270
17	13.	5	7.7	27 56.4	68 36.4	199.5	-5.6	6.3	2.3 264
* 18	15.	5	4.3	27 56.8	68 38.1	244.1	-8.4	7.0	1.8 285
19	15.	5	11.6	27 56.6	68 38.2	251.4	-8.5	6.6	1.5 204
20	16.	5	1.0	27 56.9	68 38.8	264.8	-9.5	7.2	2.3 299
* 21	16.	5	14.0	27 56.8	68 39.2	277.8	-10.2	7.0	1.5 254
22	16.	5	22.2	27 56.6	68 39.6	286.0	-10.8	6.6	2.6 241
* 23	17.	5	14.7	27 56.7	68 40.0	302.5	-11.5	6.8	1.1 286
24	18.	5	2.1	27 56.8	68 41.0	313.9	-13.1	7.0	4.0 276
25	18.	5	19.7	27 56.7	68 41.0	331.5	-13.1	6.8	0.3 180
* 26	19.	5	16.8	27 57.1	68 41.5	352.6	-13.9	7.6	1.5 312
27	20.	5	8.4	27 57.2	68 41.8	368.2	-14.4	7.8	0.9 291
28	20.	5	20.5	27 57.4	68 42.0	380.3	-14.8	8.1	1.1 318
29	21.	5	6.1	27 57.9	68 42.8	389.9	-16.1	9.1	4.6 305
30	22.	5	4.2	27 58.6	68 42.5	412.0	-15.6	10.3	1.7 21
31	22.	5	19.0	27 58.9	68 42.8	426.8	-16.1	10.9	1.4 318
* 32	23.	5	5.3	27 59.3	68 43.0	437.1	-16.4	11.6	2.2 336
33	24.	5	4.5	28 0.2	68 43.4	460.3	-17.1	13.3	2.1 338
34	24.	5	23.8	28 0.8	68 43.5	479.6	-17.2	14.4	1.6 352
35	26.	5	12.8	28 2.6	68 43.5	516.6	-17.2	17.7	2.5 0
36	27.	5	1.3	28 3.2	68 44.2	529.1	-18.4	18.8	3.5 314
* 37	27.	5	20.2	28 4.1	68 44.2	548.0	-18.4	20.5	2.4 0

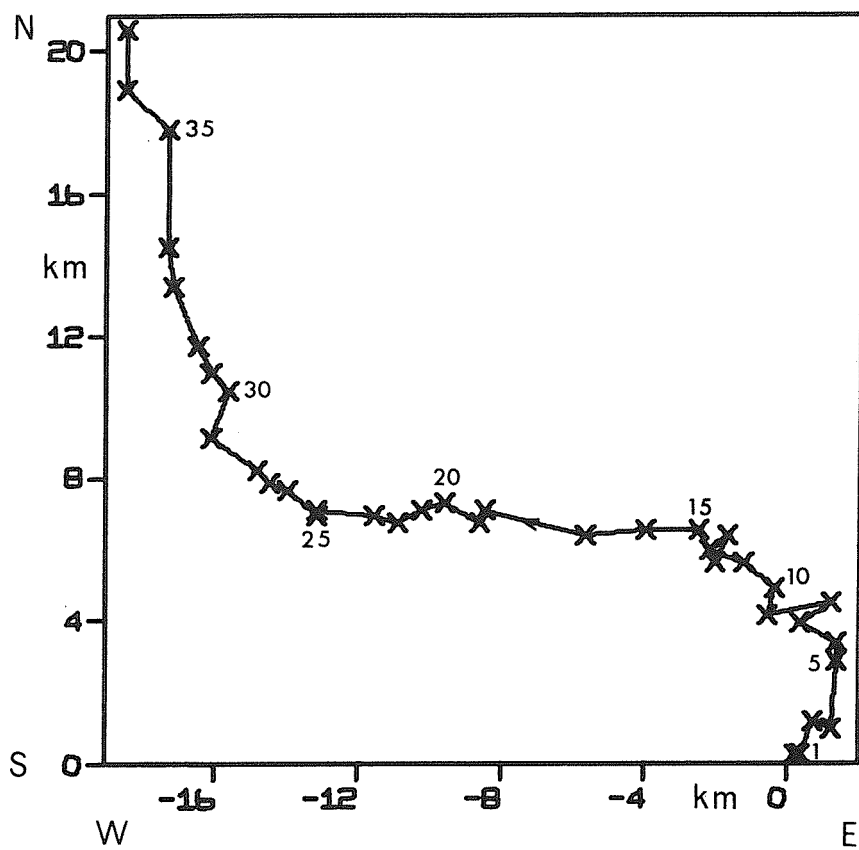
MEAN SPEED ALONG TRAJECTORY= 2.1 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 37 = 1.4 CM/SEC 318 DEGREES TRUE

SERIAL NO = 268

FLOAT DESIGNATION = 4

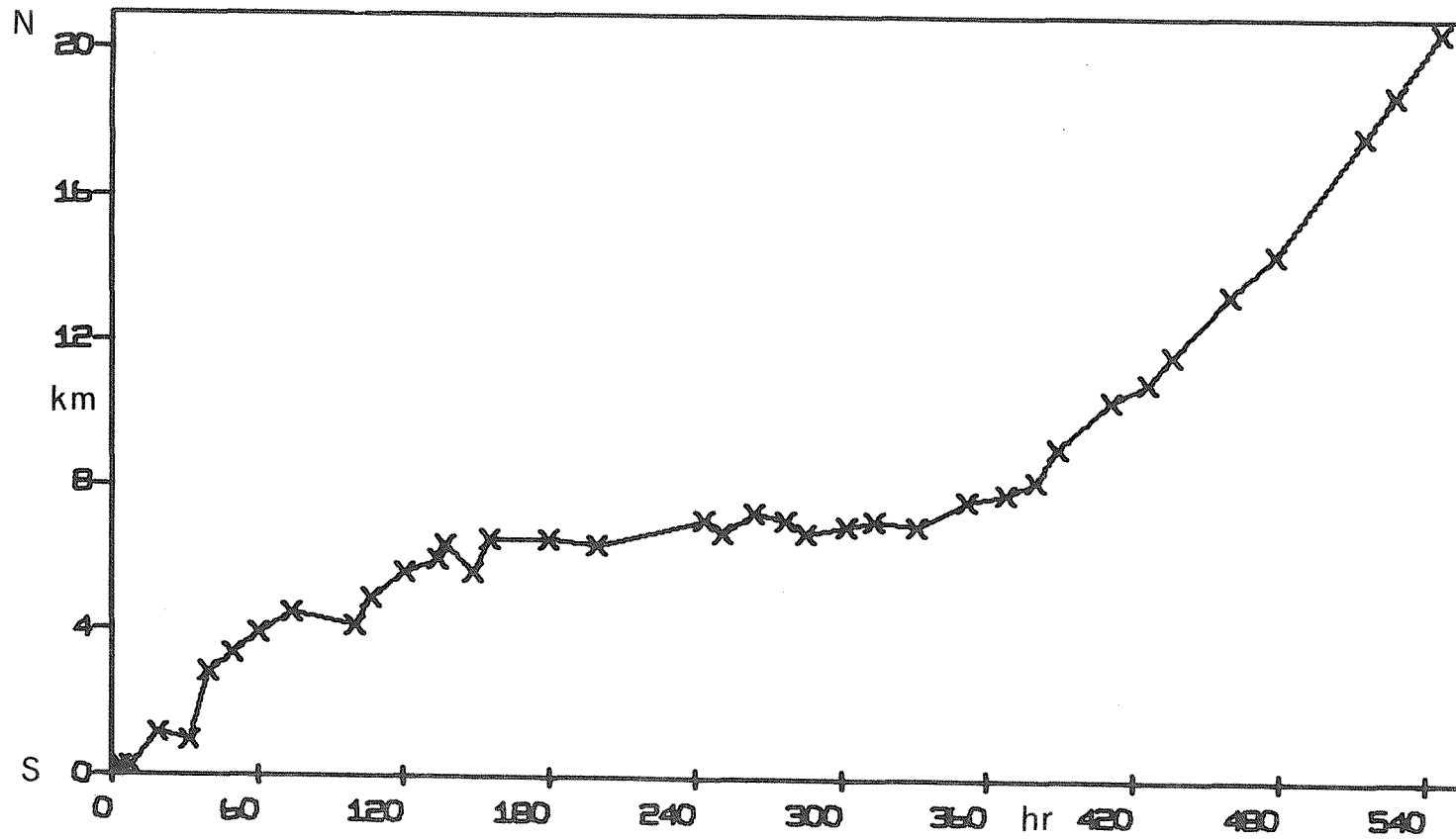
DATE AND TIME LAID = 0.2/5.5.73



SERIAL NO = 268

FLOAT DESIGNATION = 4

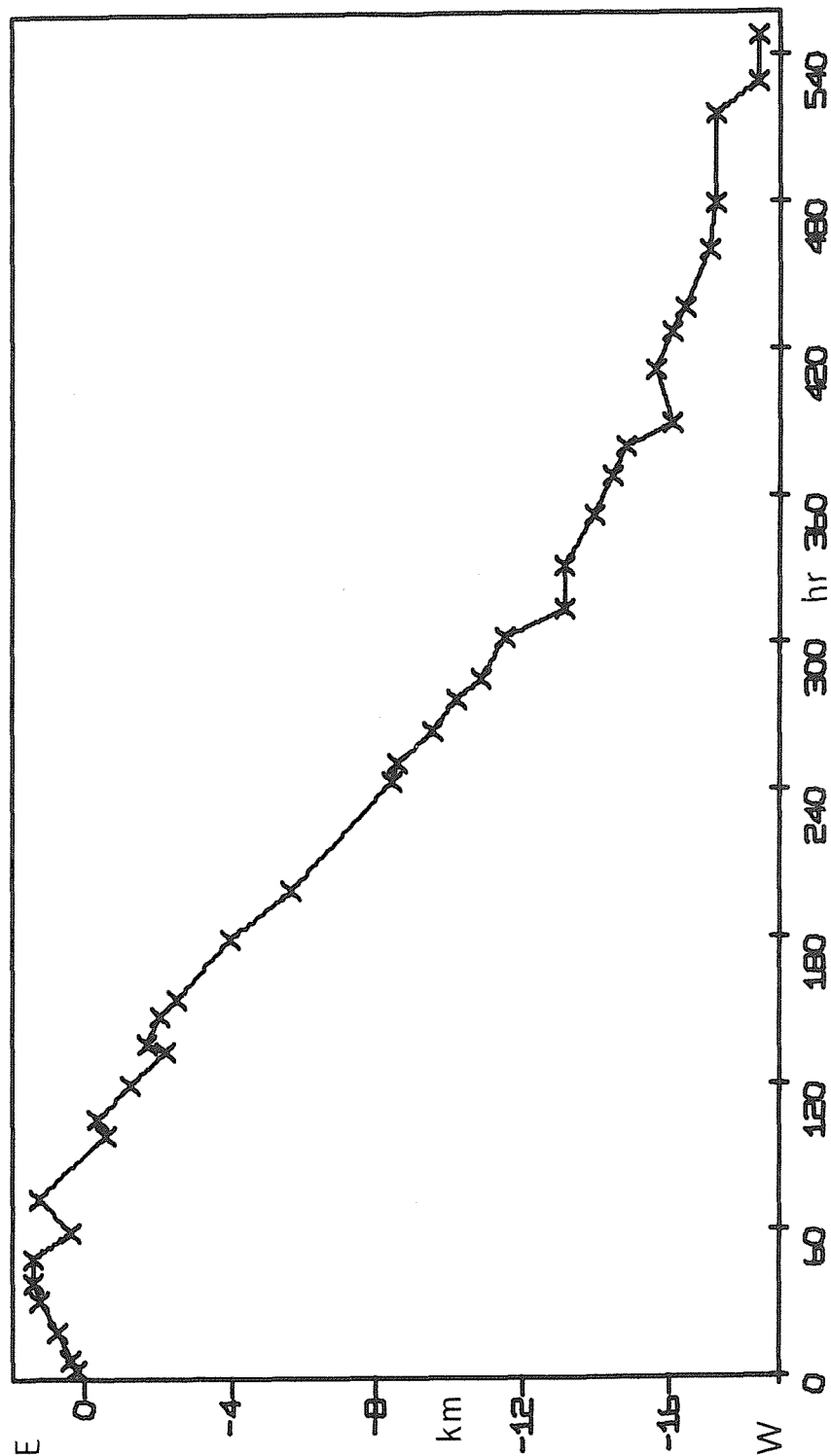
DATE AND TIME LAID = 0.2/5.5.73



SERIAL NO = 268

FLOAT DESIGNATION = 4

DATE AND TIME LAID = 0.2/5.5.73



SERIAL NO= 269

FLOAT DESIGNATION= 10

DATE AND TIME LAID= 0.27/ 5. 5.73

POSITION LAID= 27 53.2N 68 33.3W DISPLACEMENT ORIGIN= 27 53.0N
(-0.4KM E 0.3KM N) 68 33.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
500 615 30

FIX NO	DATE	TIME GHT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		CM/SEC	T
			LAT.N	LONG.W		+E-W X	+N-S Y				
1	5.	5	3.6	27 52.4	68 33.1	3.4	-0.2	-1.1			
2	5.	5	6.7	27 51.5	68 33.1	6.5	-0.2	-2.8	14.9	180	
3	5.	5	21.2	27 49.2	68 32.8	21.0	0.3	-7.0	8.2	173	
* 4	6.	5	15.4	27 46.9	68 32.6	39.2	0.7	-11.3	6.5	176	
5	6.	5	23.6	27 44.9	68 31.9	47.4	1.8	-15.0	13.1	163	
6	7.	5	12.5	27 42.9	68 33.1	60.3	-0.2	-18.7	9.0	208	
* 7	7.	5	18.5	27 41.7	68 32.2	66.3	1.3	-20.9	12.3	146	
8	9.	5	8.7	27 35.8	68 32.8	104.5	0.3	-31.8	8.0	185	
* 9	9.	5	15.8	27 34.6	68 32.4	111.6	1.0	-34.0	9.1	163	
10	10.	5	11.1	27 32.1	68 34.1	130.9	-1.8	-38.6	7.8	211	
11	11.	5	8.7	27 29.2	68 33.0	152.5	-0.0	-44.0	7.3	161	
* 12	11.	5	16.0	27 27.7	68 33.1	159.8	-0.2	-46.7	10.6	183	

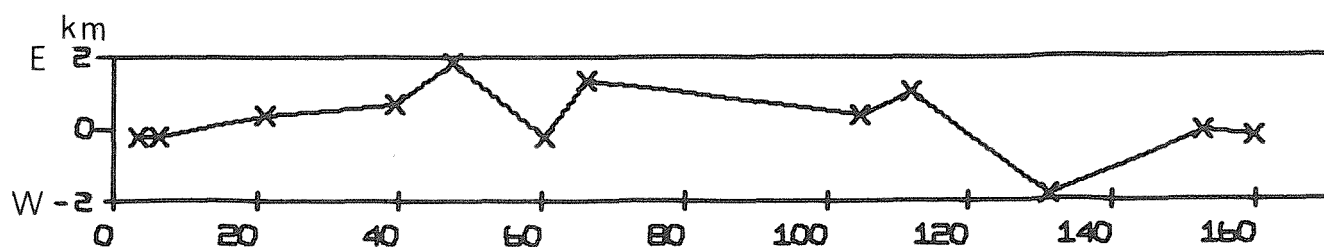
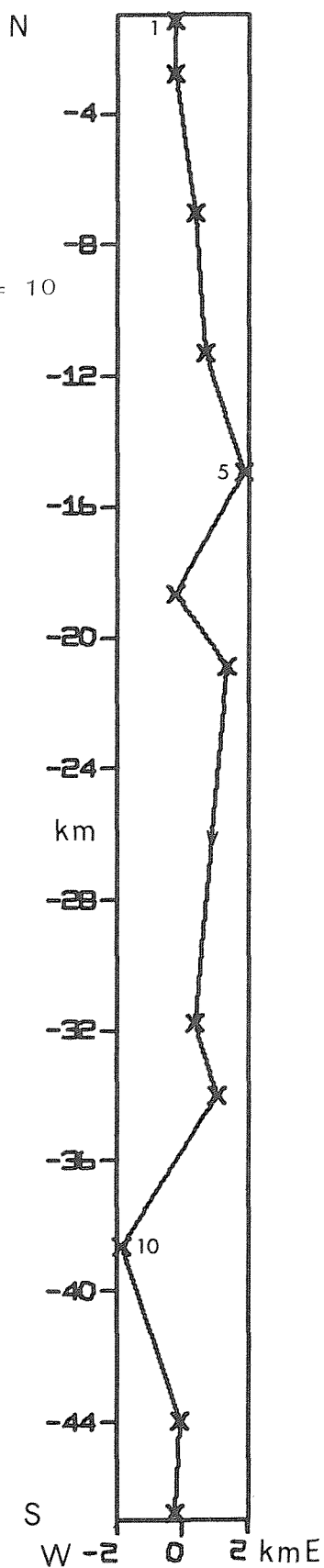
MEAN SPEED ALONG TRAJECTORY= 8.5 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 12 = 8.1 CM/SEC 180 DEGREES TRUE

FLOAT DESIGNATION = 10

SERIAL NO = 269

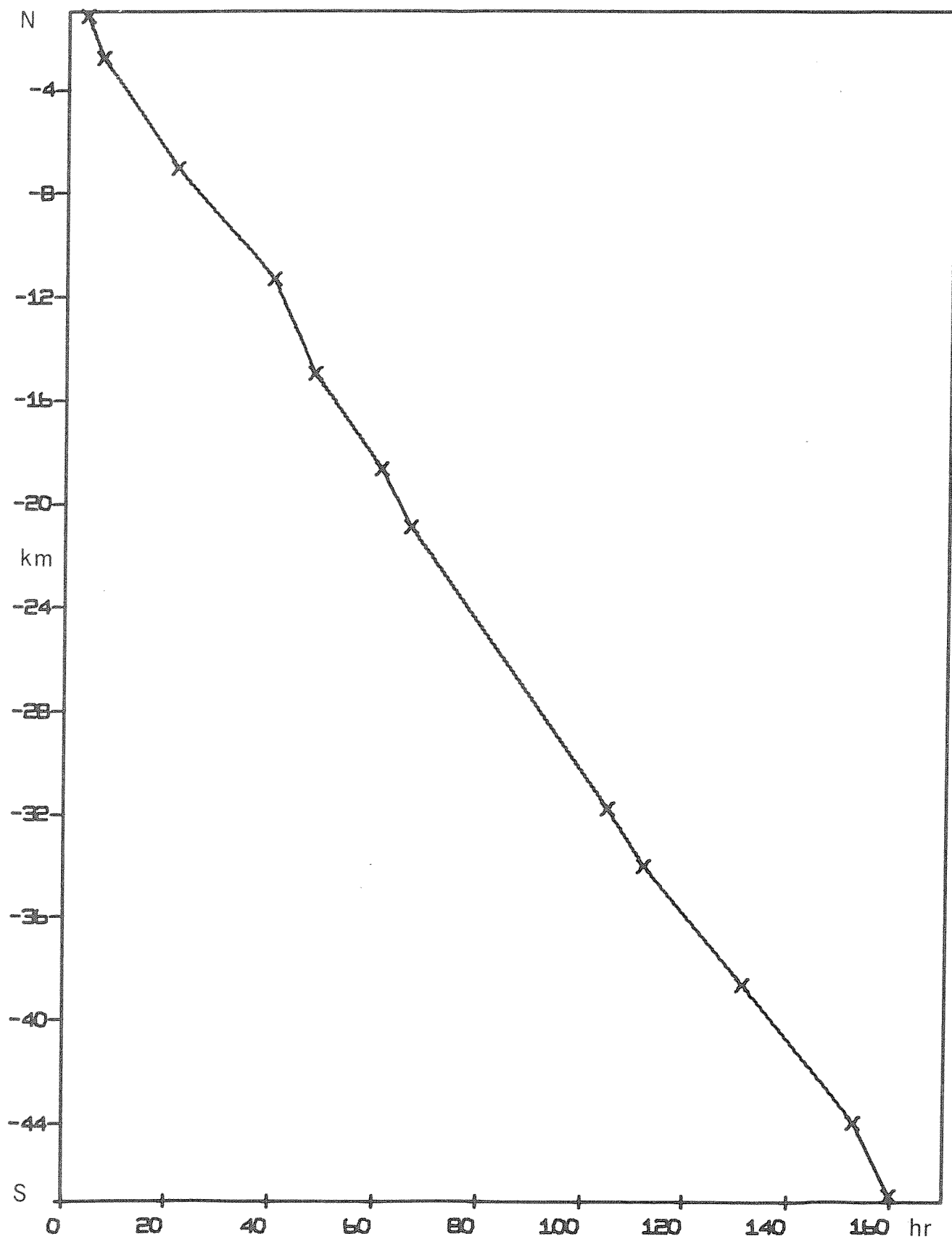
DATE AND TIME LAID = 0.2/5.5.73



SERIAL NO = 269

FLOAT DESIGNATION = 10

DATE AND TIME LAID = 0.2/55.73



SERIAL NO= 270

FLOAT DESIGNATION= 11

DATE AND TIME LAID= 13.4/ 6. 5.73

POSITION LAID= 27 51.1N 68 17.7W DISPLACEMENT ORIGIN= 27 51.0N
(3.7KM E 0.1KM N) 68 20.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
500 610 10

FIX NO	DATE	TIME GMT	FIX POSITION LAT.N	LONG.W	HOURS SINCE LAID	DISPLACEMENT (KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	6. 5	19.8	27 50.5	68 17.5	6.4	4.1	-0.9		
2	7. 5	5.5	27 49.7	68 17.6	16.1	3.9	-2.4	4.3	186
3	8. 5	2.4	27 48.7	68 17.6	37.0	3.9	-4.2	2.5	180
4	9. 5	8.7	27 47.0	68 17.8	67.3	3.6	-7.4	2.9	186
* 5	9. 5	18.3	27 45.4	68 17.8	76.9	3.6	-10.3	8.6	180
6	10. 5	15.9	27 44.5	68 18.6	98.5	2.3	-12.0	2.7	218
7	11. 5	11.9	27 43.5	68 19.5	118.5	0.8	-13.9	3.3	219
* 8	12. 5	2.5	27 42.4	68 20.2	133.1	-0.3	-15.9	4.4	210
9	12. 5	13.1	27 41.5	68 21.2	143.7	-2.0	-17.5	6.1	225
* 10	14. 5	15.5	27 39.3	68 23.6	194.1	-5.9	-21.6	3.1	224
* 11	15. 5	18.1	27 38.1	68 25.3	220.7	-8.7	-23.8	3.7	232
12	16. 5	9.1	27 37.3	68 25.9	235.7	-9.7	-25.3	3.3	214
13	18. 5	3.4	27 37.8	68 27.8	278.0	-12.8	-24.4	2.1	286
* 14	20. 5	19.1	27 37.9	68 30.0	341.7	-16.5	-24.2	1.6	273
15	21. 5	0.5	27 38.1	68 30.7	347.1	-17.6	-23.8	6.2	288
16	22. 5	4.2	27 39.1	68 32.0	374.8	-19.7	-22.0	2.8	311
17	23. 5	0.6	27 38.6	68 31.9	395.2	-19.6	-22.9	1.3	170
* 18	24. 5	2.3	27 39.5	68 33.2	420.9	-21.7	-21.2	2.9	308
19	26. 5	12.8	27 42.1	68 34.3	479.4	-23.5	-16.4	2.4	339
20	27. 5	4.8	27 42.2	68 36.6	495.4	-27.3	-16.3	6.6	273
21	28. 5	8.2	27 43.4	68 37.1	522.8	-28.1	-14.0	2.4	340
22	29. 5	2.7	27 42.9	68 36.6	541.3	-27.3	-15.0	1.9	138

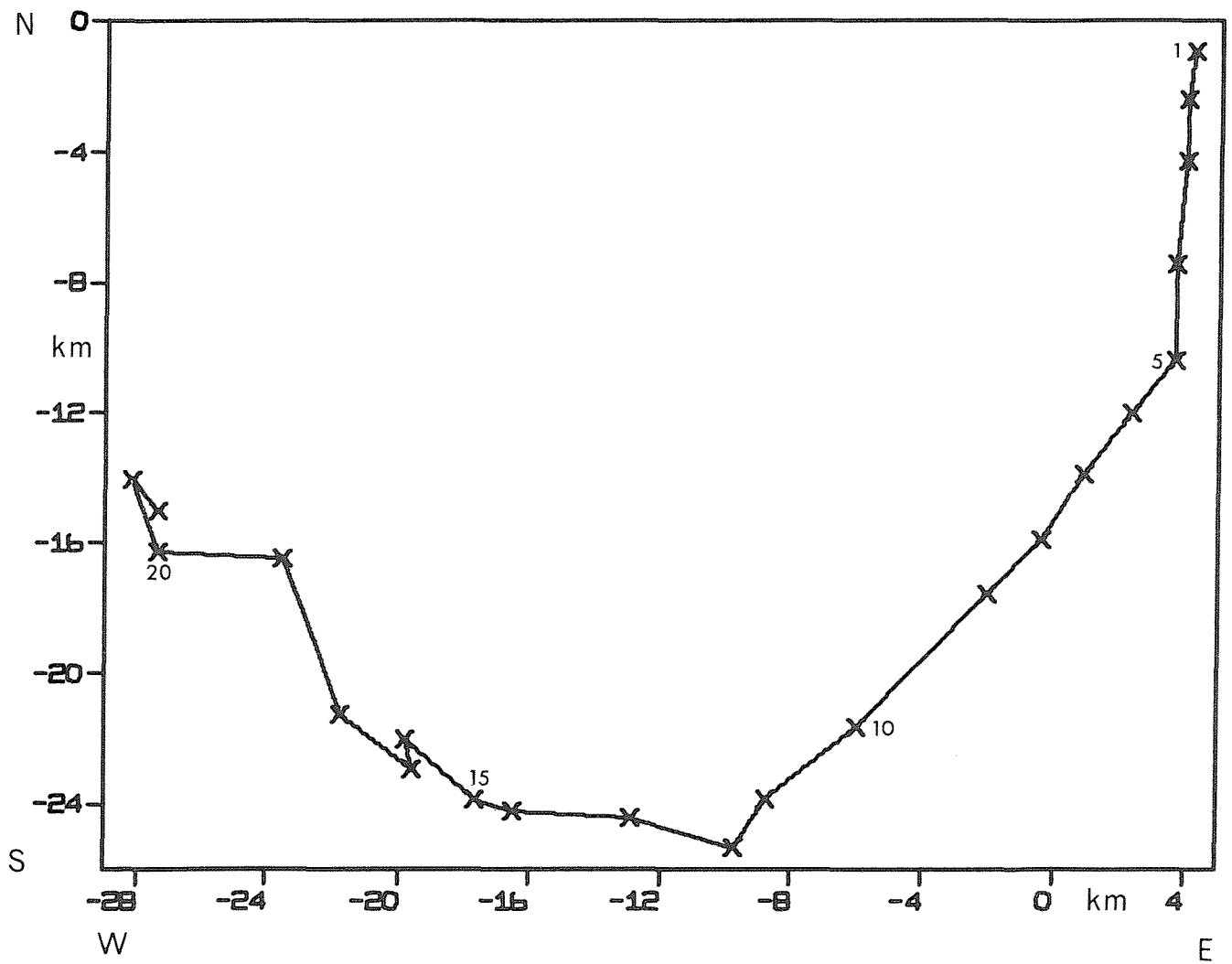
MEAN SPEED ALONG TRAJECTORY= 2.9 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 22 = 1.8 CM/SEC 246 DEGREES TRUE

SERIAL NO = 270

FLOAT DESIGNATION = 11

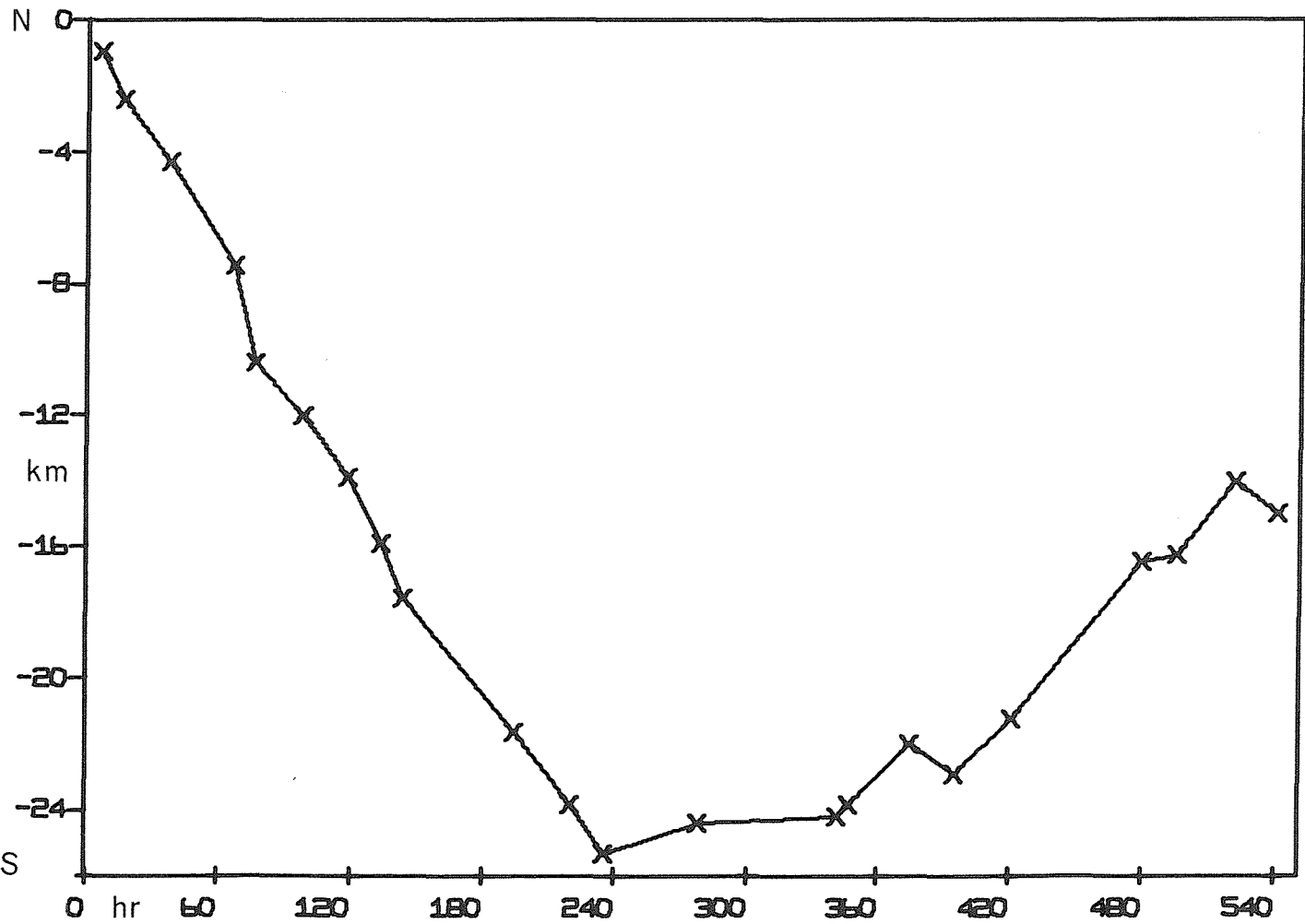
DATE AND TIME LAID = 13.4/6.5.73



SERIAL NO = 270

FLOAT DESIGNATION = 11

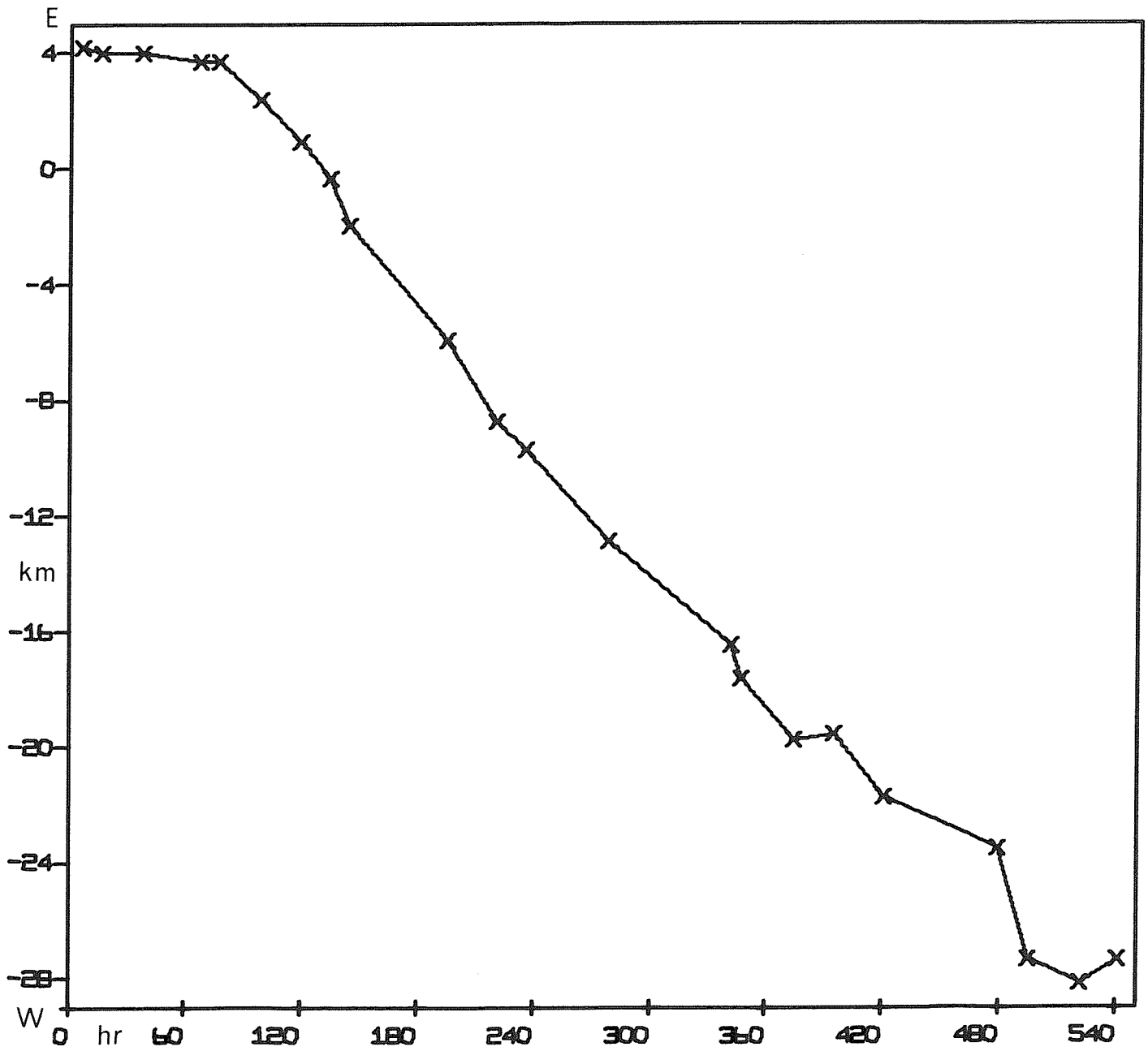
DATE AND TIME LAID = 13.4/6.5.73



SERIAL NO = 270

FLOAT DESIGNATION = 11

DATE AND TIME LAID = 13.4/6.5.73



SERIAL NO= 271

FLOAT DESIGNATION= 18

DATE AND TIME LAID= 13.9/ 6. 5.73

POSITION LAID= 27 51.2N 68 21.9W DISPLACEMENT ORIGIN= 27 51.0N
(-3.1KM E 0.3KM N) 68 20.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
4000 3650 60

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		CM/SEC	T
			LAT.N	LONG.W		+E-W X	+N-S Y				
*	1	6. 5	17.6	27 51.2	68 21.9	3.7	-3.1	0.4			
	2	6. 5	19.2	27 51.1	68 21.7	5.3	-2.8	0.2	6.5	119	
	3	7. 5	12.5	27 50.5	68 22.0	22.6	-3.3	-0.9	1.9	204	
	4	9. 5	7.5	27 49.1	68 22.1	65.6	-3.4	-3.5	1.7	184	
*	5	9. 5	17.6	27 48.8	68 22.1	75.7	-3.4	-4.1	1.5	180	
	6	10. 5	15.9	27 47.3	68 22.4	98.0	-3.9	-6.8	3.5	190	
*	7	11. 5	10.9	27 46.1	68 22.8	117.0	-4.6	-9.1	3.4	197	
	8	11. 5	19.5	27 45.4	68 22.9	125.6	-4.8	-10.3	4.2	187	
*	9	12. 5	3.4	27 44.8	68 23.2	133.5	-5.3	-11.5	4.3	204	
	10	12. 5	11.8	27 44.3	68 23.4	141.9	-5.6	-12.4	3.2	200	
*	11	14. 5	15.7	27 40.5	68 24.6	193.8	-7.6	-19.4	3.9	196	
*	12	15. 5	17.5	27 38.6	68 25.3	219.6	-8.7	-22.9	4.0	198	

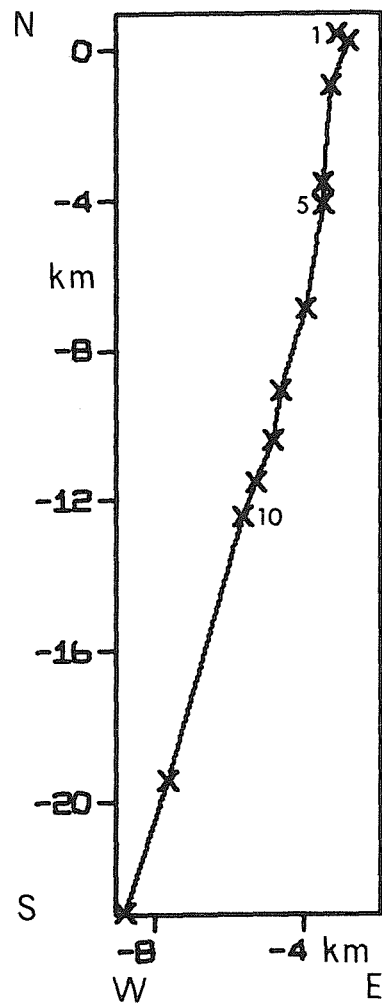
MEAN SPEED ALONG TRAJECTORY= 3.1 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 12 = 3.1 CM/SEC 193 DEGREES TRUE

SERIAL NO = 271

FLOAT DESIGNATION = 18

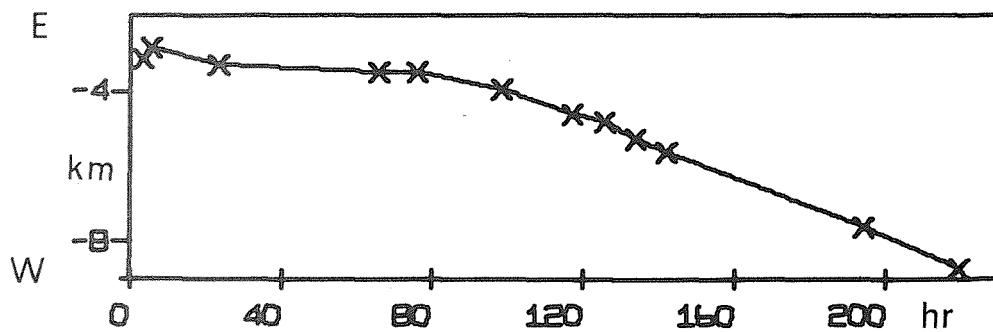
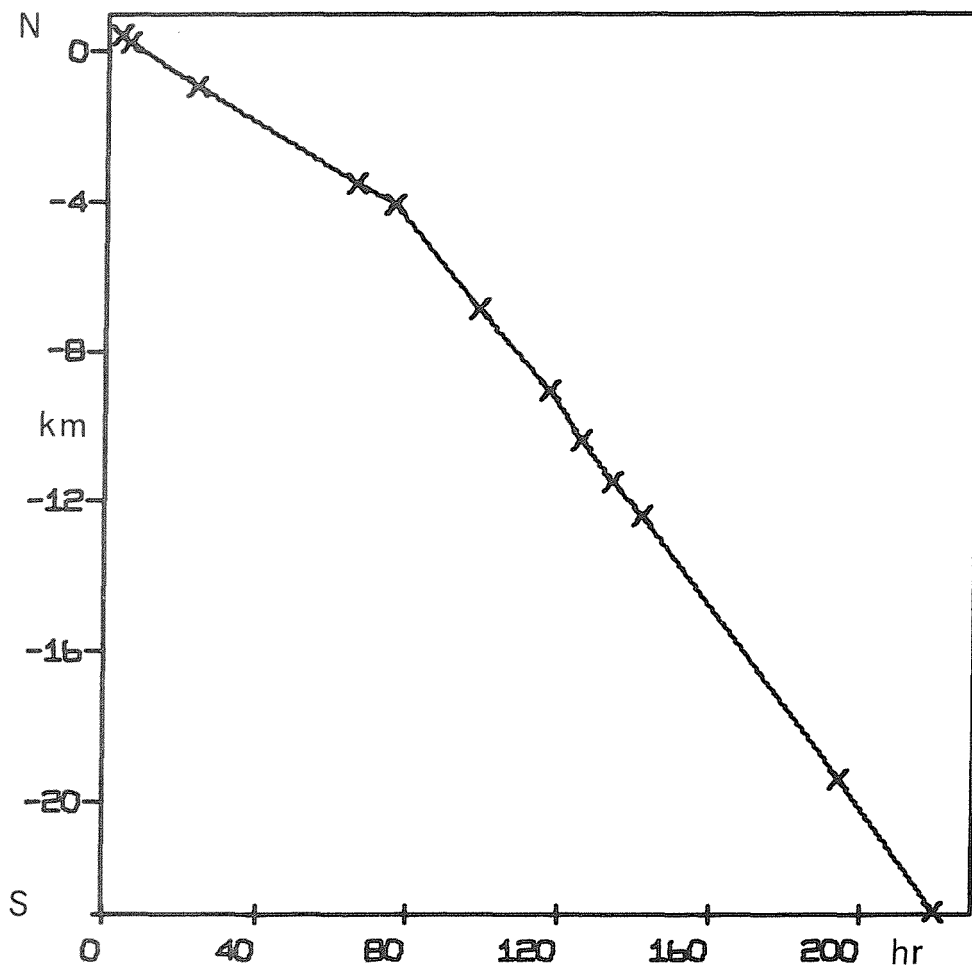
DATE AND TIME LAID = 13.9/6.5.73



SERIAL NO = 271

FLOAT DESIGNATION = 18

DATE AND TIME LAID = 13.9/6.5.73



SERIAL NO= 272

FLOAT DESIGNATION= 9

DATE AND TIME LAID= 14.0/ 6. 5.73

POSITION LAID= 27 51.2N 68 21.9W DISPLACEMENT ORIGIN= 27 51.0N
(-3.1KM E 0.3KM N) 68 20.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
3000 2920 20

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT (KM)		VELOCITIES BETWEEN FIXES		T
			LAT.N	LONG.W		+E-W X	+N-S Y	CM/SEC		
1	6.	5	18.8	27 51.1	68 21.8	4.8	-3.0	0.2		
2	7.	5	6.9	27 51.4	68 22.3	16.9	-3.8	0.7	2.3	304
3	7.	5	20.3	27 51.5	68 22.4	30.3	-3.9	0.9	0.5	318
4	8.	5	2.4	27 51.6	68 22.6	36.4	-4.3	1.1	1.7	299
5	9.	5	3.7	27 51.4	68 23.2	61.7	-5.3	0.7	1.2	249
* 6	9.	5	17.9	27 51.6	68 23.8	75.9	-6.2	1.1	2.1	291
7	10.	5	11.1	27 51.3	68 24.6	93.1	-7.6	0.6	2.3	247
8	11.	5	7.5	27 51.1	68 25.6	113.5	-9.2	0.2	2.3	257
9	11.	5	19.5	27 50.9	68 25.9	125.5	-9.7	-0.2	1.4	233
* 10	12.	5	3.5	27 50.7	68 26.4	133.5	-10.5	-0.6	3.1	246
11	12.	5	11.8	27 50.5	68 26.8	141.8	-11.2	-0.9	2.5	241
12	12.	5	23.1	27 50.5	68 27.3	153.1	-12.0	-0.9	2.0	270
13	13.	5	16.9	27 50.1	68 28.3	170.9	-13.6	-1.7	2.8	246
* 14	14.	5	16.9	27 49.6	68 29.7	194.9	-15.9	-2.6	2.9	248
15	15.	5	7.4	27 49.3	68 30.7	209.4	-17.6	-3.1	3.3	251
16	16.	5	9.1	27 49.3	68 31.4	235.1	-18.7	-3.1	1.2	270
17	17.	5	10.0	27 49.4	68 32.8	260.0	-21.0	-3.0	2.6	275
18	18.	5	2.7	27 49.3	68 33.1	276.7	-21.5	-3.1	0.9	242
* 19	18.	5	17.2	27 49.6	68 33.6	291.2	-22.3	-2.6	1.9	304
20	20.	5	1.7	27 49.8	68 34.4	323.7	-23.6	-2.2	1.2	286
21	20.	5	14.2	27 50.4	68 34.7	336.2	-24.1	-1.1	2.7	336
* 22	20.	5	23.3	27 50.3	68 35.1	345.3	-24.8	-1.3	2.1	254
23	21.	5	6.1	27 50.4	68 35.1	352.1	-24.8	-1.1	0.8	0
24	22.	5	4.2	27 51.0	68 35.6	374.2	-25.6	-0.0	1.7	323
25	23.	5	6.4	27 51.8	68 35.8	400.4	-25.9	1.5	1.6	347
26	24.	5	11.8	27 53.0	68 36.1	429.8	-26.4	3.7	2.1	347
27	25.	5	3.1	27 53.7	68 36.3	445.1	-26.8	5.0	2.4	346
28	26.	5	12.8	27 55.6	68 36.8	478.8	-27.6	8.5	3.0	347
29	26.	5	23.8	27 56.1	68 37.0	489.8	-27.9	9.4	2.5	340
* 30	27.	5	15.7	27 57.1	68 37.2	505.7	-28.2	11.3	3.3	350

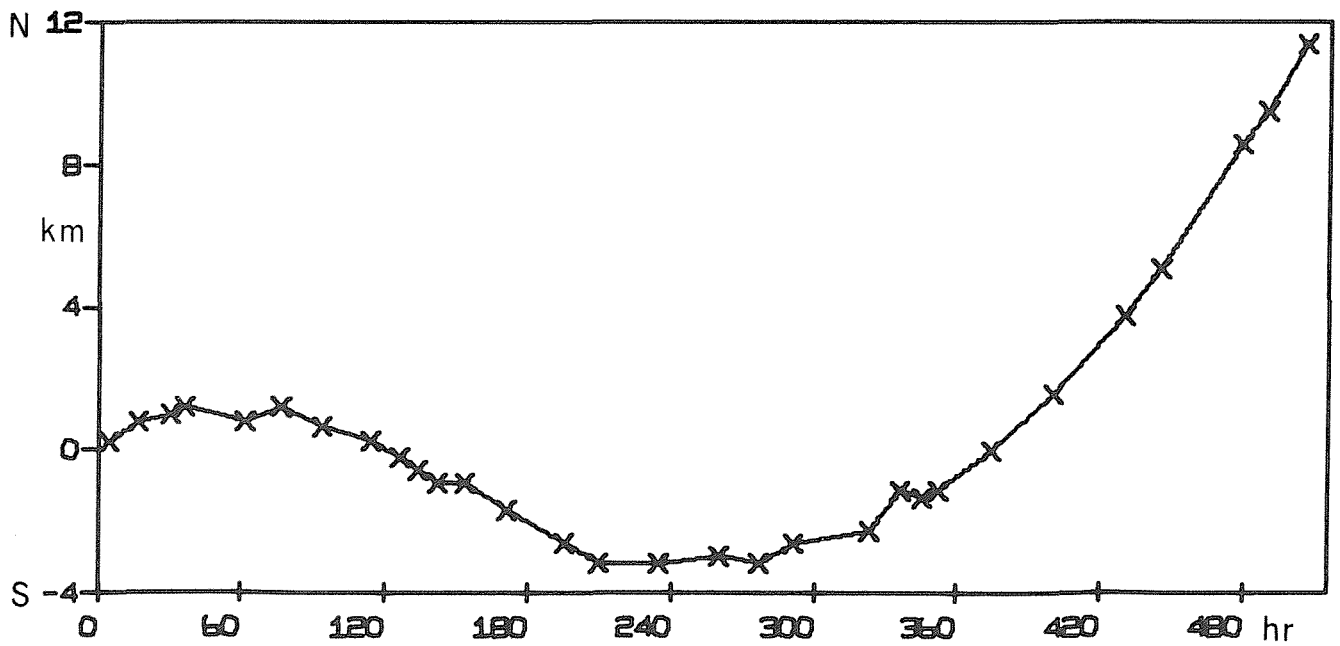
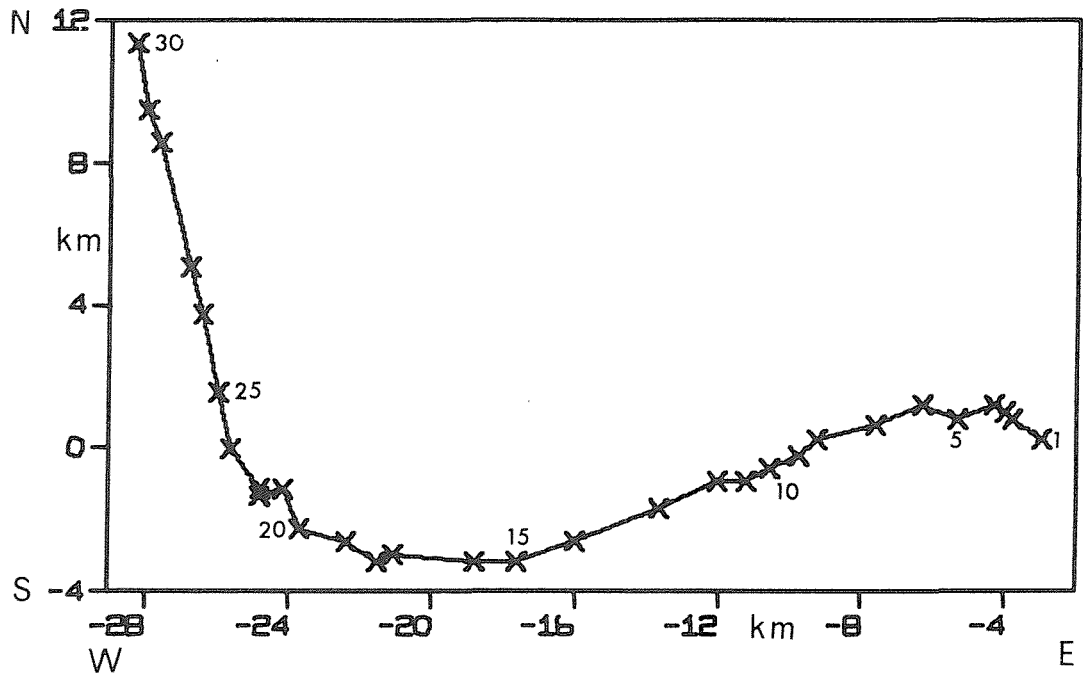
MEAN SPEED ALONG TRAJECTORY= 2.1 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 30 = 1.5 CM/SEC 294 DEGREES TRUE

SERIAL NO = 272

FLOAT DESIGNATION = 9

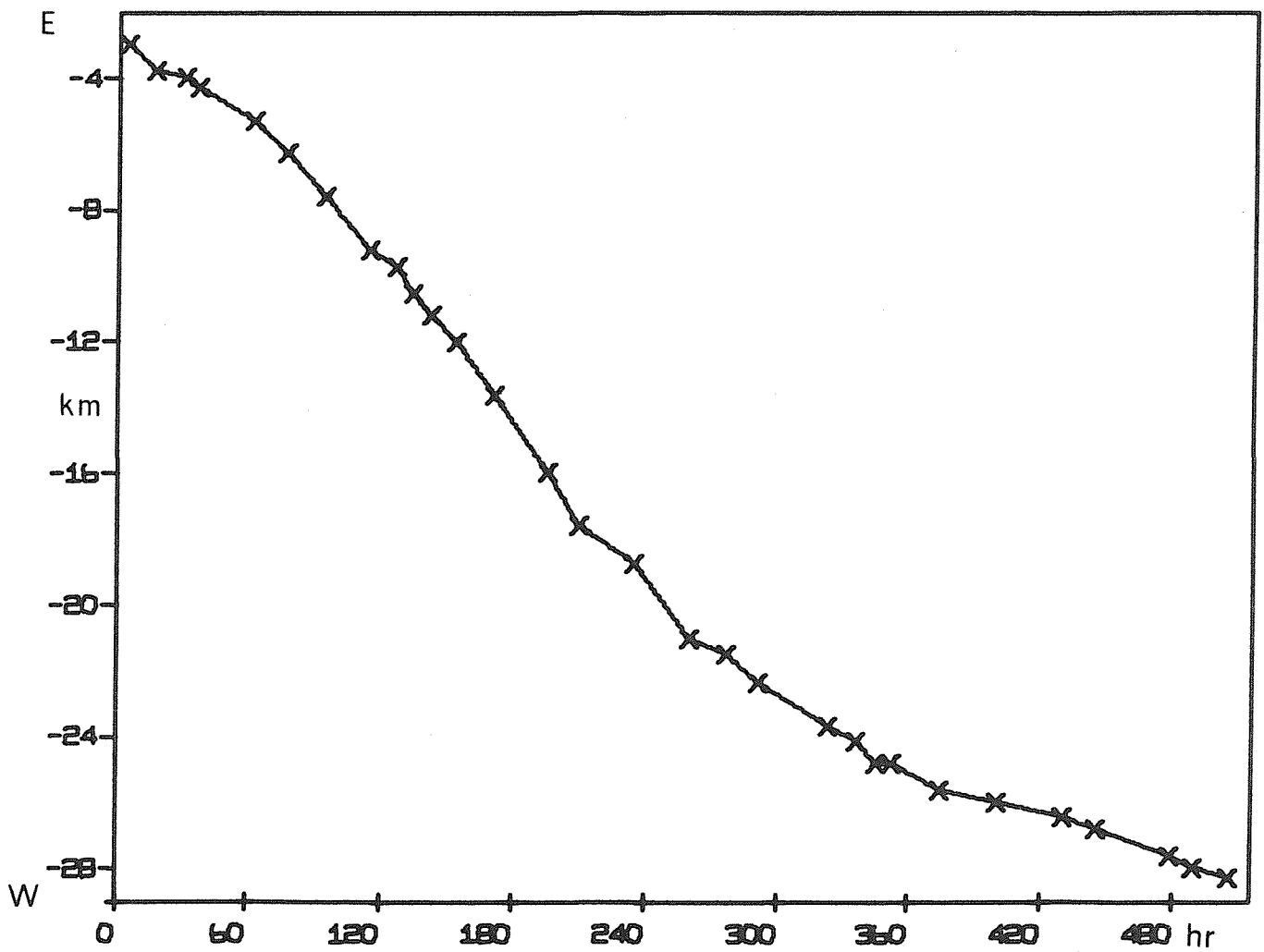
DATE AND TIME LAID = 14.0/6.5.73



SERIAL NO = 272

FLOAT DESIGNATION = 9

DATE AND TIME LAID = 14.0/6.5.73



SERIAL NO= 273

FLOAT DESIGNATION= 2

DATE AND TIME LAID= 14.0/ 6. 5.73

POSITION LAID= 27 51.2N 68 21.9W DISPLACEMENT ORIGIN= 27 51.0N
(-3.1KM E 0.3KM N) 68 20.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
1500 1550 10

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		CM/SEC	T
			LAT.N	LONG.W		+E-W X	+N-S Y				
1	6.	5	19.1	27 51.2	68 22.0	5.1	-3.3	0.4			
2	7.	5	5.5	27 51.3	68 22.2	15.5	-3.6	0.6	1.0	299	
3	8.	5	2.4	27 51.1	68 22.8	36.4	-4.6	0.2	1.4	249	
4	9.	5	8.7	27 50.4	68 23.3	66.7	-5.4	-1.1	1.4	212	
* 5	9.	5	17.5	27 50.4	68 23.7	75.5	-6.1	-1.1	2.1	270	
6	10.	5	15.9	27 49.7	68 24.7	97.9	-7.7	-2.4	2.6	232	
* 7	11.	5	10.6	27 48.9	68 25.5	116.6	-9.0	-3.9	2.9	222	
8	11.	5	13.1	27 49.0	68 25.2	119.1	-8.5	-3.7	5.9	69	
* 9	12.	5	3.2	27 48.3	68 26.1	133.2	-10.0	-5.0	3.9	229	
10	12.	5	11.8	27 48.2	68 26.5	141.8	-10.7	-5.2	2.2	254	
11	13.	5	7.7	27 47.3	68 27.6	161.7	-12.5	-6.8	3.4	227	
* 12	14.	5	16.2	27 46.3	68 28.7	194.2	-14.3	-8.7	2.2	224	
13	15.	5	7.4	27 46.0	68 29.0	209.4	-14.8	-9.2	1.4	222	
14	16.	5	5.0	27 45.5	68 30.2	231.0	-16.7	-10.2	2.8	245	
15	17.	5	4.3	27 45.0	68 30.9	254.3	-17.9	-11.1	1.8	231	
16	18.	5	3.4	27 44.3	68 31.6	277.4	-19.1	-12.4	2.1	222	
* 17	18.	5	16.9	27 44.7	68 31.9	290.9	-19.5	-11.6	1.8	326	
18	20.	5	8.4	27 44.2	68 33.3	330.4	-21.8	-12.6	1.7	248	
19	20.	5	20.5	27 44.3	68 33.0	342.5	-21.4	-12.4	1.2	69	
* 20	20.	5	23.2	27 44.4	68 32.9	345.2	-21.2	-12.2	2.5	42	
21	21.	5	7.5	27 44.4	68 33.2	353.5	-21.7	-12.2	1.7	270	
22	22.	5	4.2	27 44.8	68 33.3	374.2	-21.8	-11.5	1.0	347	
23	23.	5	6.4	27 45.3	68 34.1	400.4	-23.2	-10.5	1.7	305	
* 24	24.	5	2.0	27 46.2	68 33.6	420.0	-22.3	-8.9	2.6	26	
25	24.	5	11.8	27 45.9	68 33.8	429.8	-22.7	-9.4	1.8	211	
26	25.	5	8.4	27 46.9	68 33.5	450.4	-22.2	-7.6	2.6	15	
* 27	26.	5	12.2	27 48.1	68 33.3	478.2	-21.8	-5.4	2.2	8	

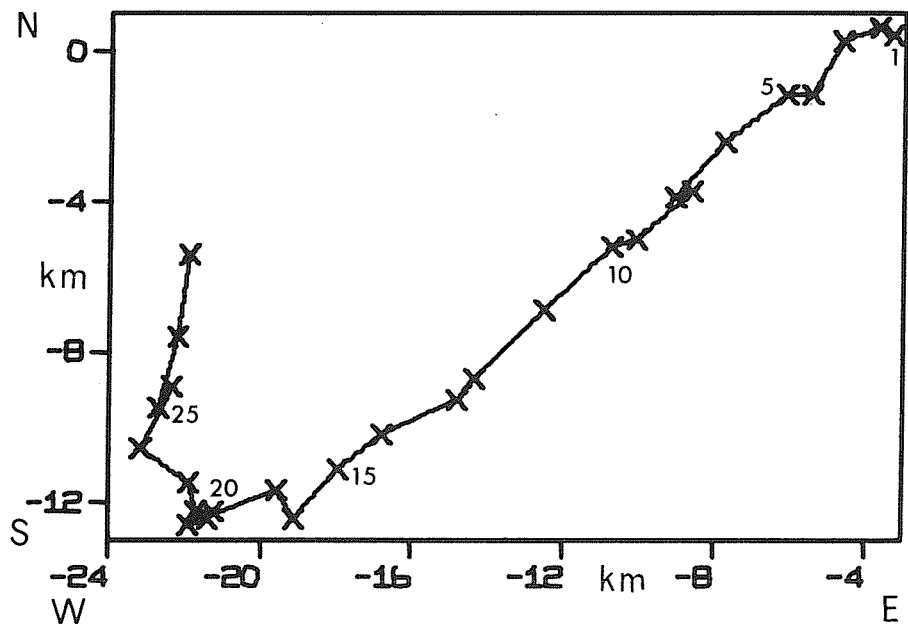
MEAN SPEED ALONG TRAJECTORY= 2.1 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 27 = 1.1 CM/SEC 253 DEGREES TRUE

SERIAL NO = 273

FLOAT DESIGNATION = 2

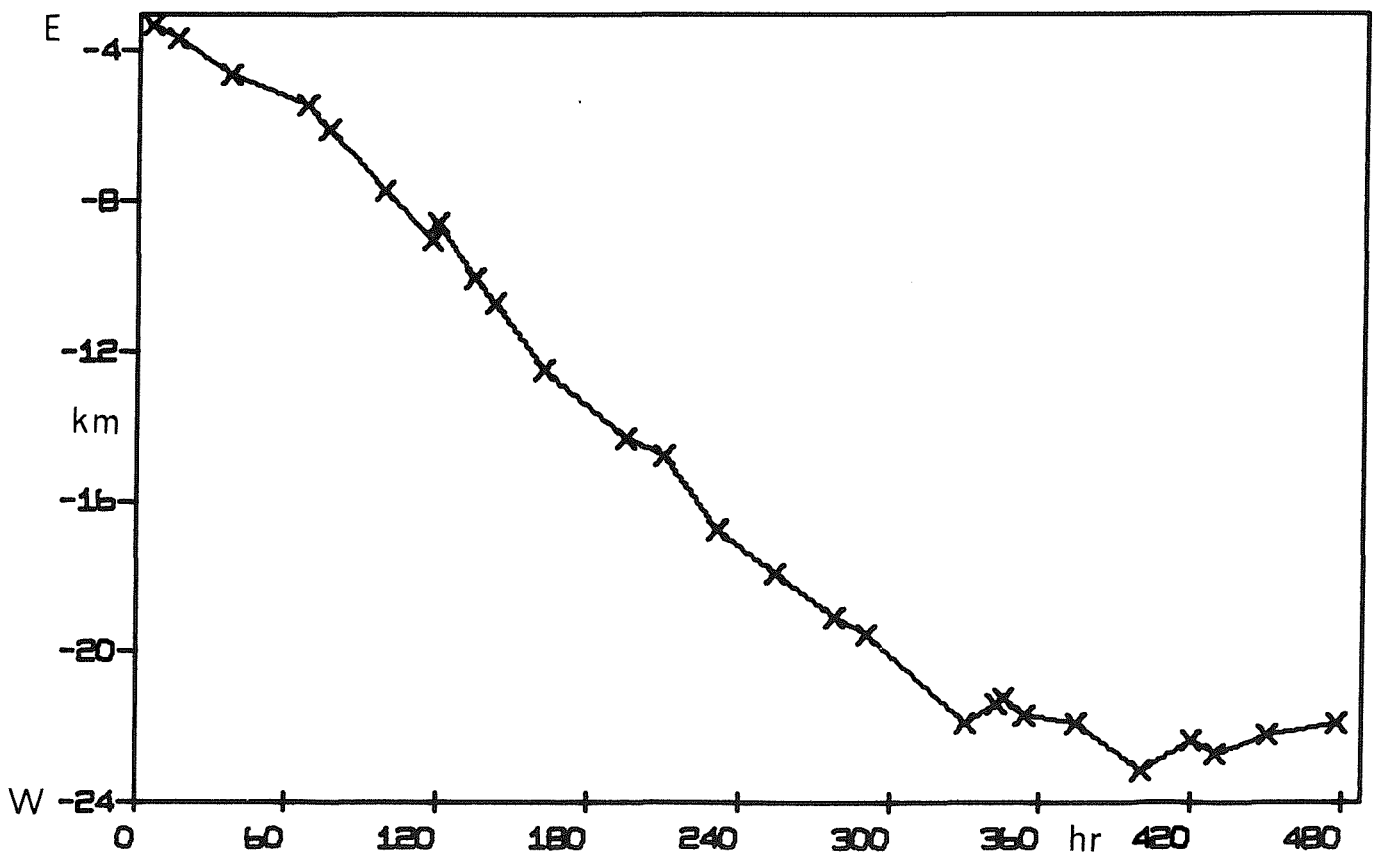
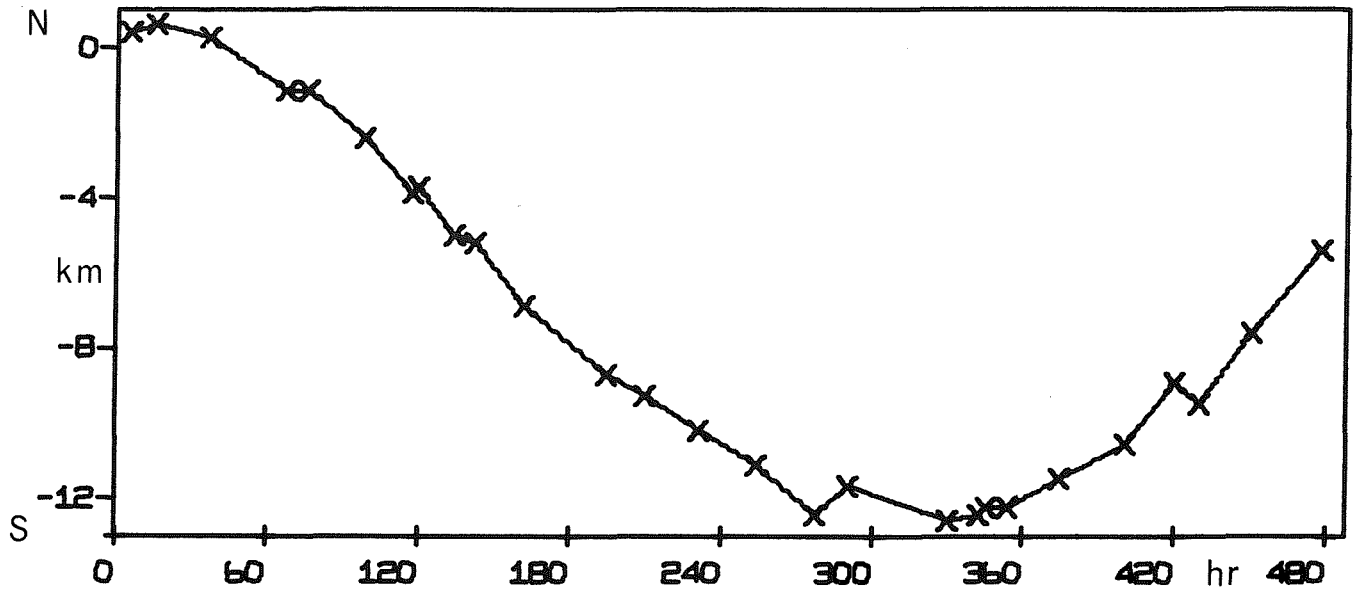
DATE AND TIME LAID = 14.0/6.5.73



SERIAL NO = 273

FLOAT DESIGNATION = 2

DATE AND TIME LAID = 14.0/6.5.73



SERIAL NO= 274

FLOAT DESIGNATION= 17

DATE AND TIME LAID= 21.4/ 6. 5.73

POSITION LAID= 27 58.0N 68 38.2W DISPLACEMENT ORIGIN= 27 58.0N
(-0.3KM E -0.0KM N) 68 38.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
4000 3750 100

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES	
			LAT.N	LONG.W		+E-W X	+N-S Y	BETWEEN FIXES CM/SEC	T
1	7. 5	1.6	27 58.2	68 38.4	4.2	-0.7	0.4		
2	7. 5	13.6	27 58.8	68 39.1	16.2	-1.8	1.5	3.7	314
3	7. 5	20.3	27 58.7	68 38.4	22.9	-0.7	1.3	4.8	99
4	9. 5	2.5	27 59.2	68 39.5	53.1	-2.5	2.2	1.9	297
5	9. 5	12.0	27 59.3	68 39.4	62.6	-2.3	2.4	0.7	42
6	10. 5	15.9	27 59.4	68 40.5	90.5	-4.1	2.6	1.8	276
7	11. 5	7.5	27 59.6	68 41.3	106.1	-5.4	3.0	2.4	286
* 8	12. 5	19.8	27 59.1	68 42.4	142.4	-7.2	2.0	1.6	243
* 9	15. 5	5.1	27 57.6	68 43.9	199.7	-9.7	-0.7	1.8	222
10	15. 5	9.5	27 57.3	68 43.9	204.1	-9.7	-1.3	3.5	180
11	16. 5	9.1	27 56.8	68 44.5	227.7	-10.7	-2.2	1.6	227
* 12	16. 5	14.3	27 56.3	68 44.8	232.9	-11.2	-3.1	5.6	208
* 13	17. 5	14.1	27 55.7	68 45.3	256.7	-12.0	-4.2	1.6	217
* 14	19. 5	18.2	27 54.8	68 45.5	308.8	-12.3	-5.9	0.9	191
* 15	21. 5	4.2	27 54.1	68 45.5	342.8	-12.3	-7.2	1.1	180
* 16	22. 5	2.7	27 53.8	68 45.2	365.3	-11.8	-7.8	0.9	138
* 17	23. 5	4.6	27 53.6	68 45.0	391.2	-11.5	-8.1	0.5	138
* 18	24. 5	7.3	27 53.5	68 44.8	417.9	-11.1	-8.3	0.4	119
19	24. 5	23.8	27 53.4	68 44.4	434.4	-10.5	-8.5	1.1	106
20	25. 5	3.1	27 53.6	68 44.5	437.7	-10.7	-8.1	3.4	336
21	26. 5	8.3	27 53.7	68 43.8	466.9	-9.5	-7.9	1.1	81
* 22	27. 5	11.0	27 54.1	68 43.5	493.6	-9.0	-7.2	0.9	34

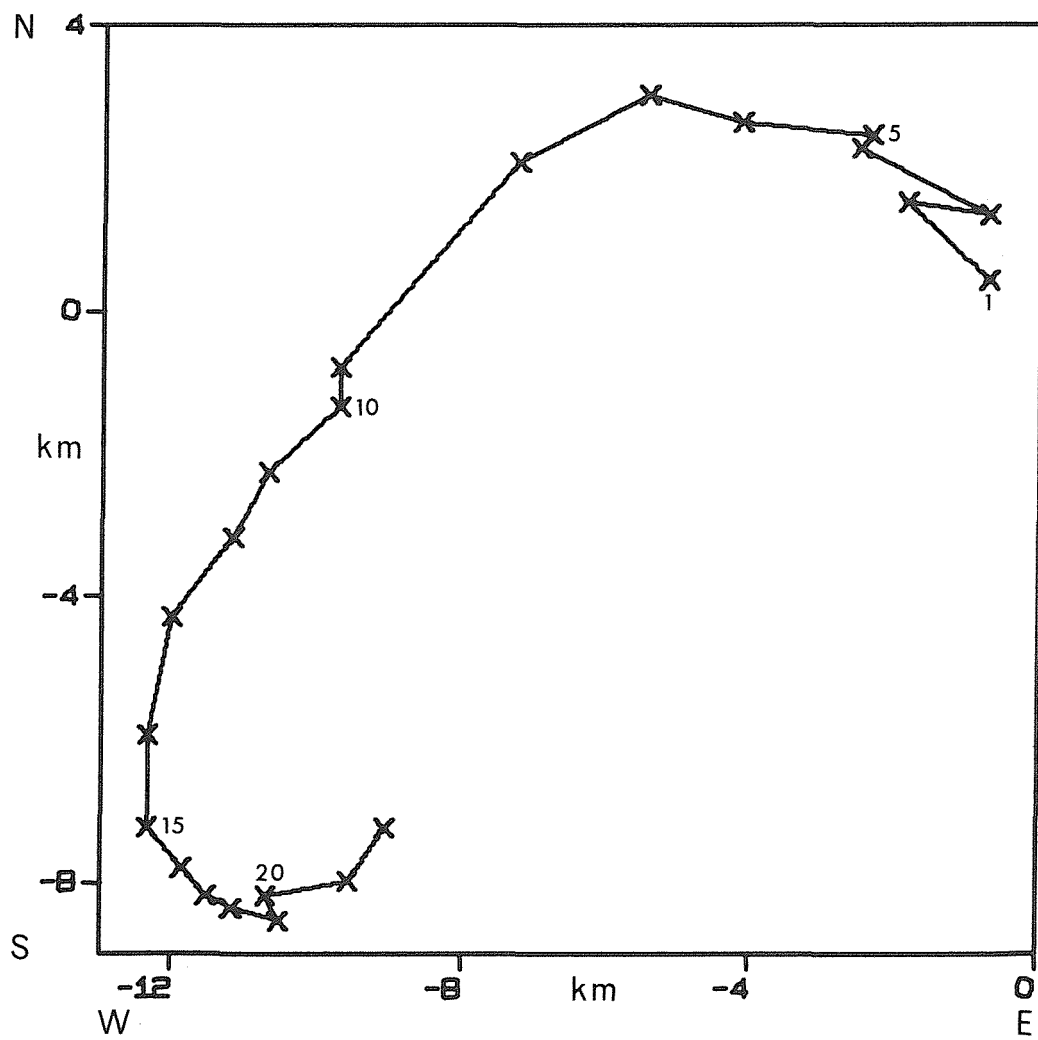
MEAN SPEED ALONG TRAJECTORY= 1.5 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 22 = 0.6 CM/SEC 228 DEGREES TRUE

SERIAL NO = 274

FLOAT DESIGNATION = 17

DATE AND TIME LAID = 21.4/6.5.73

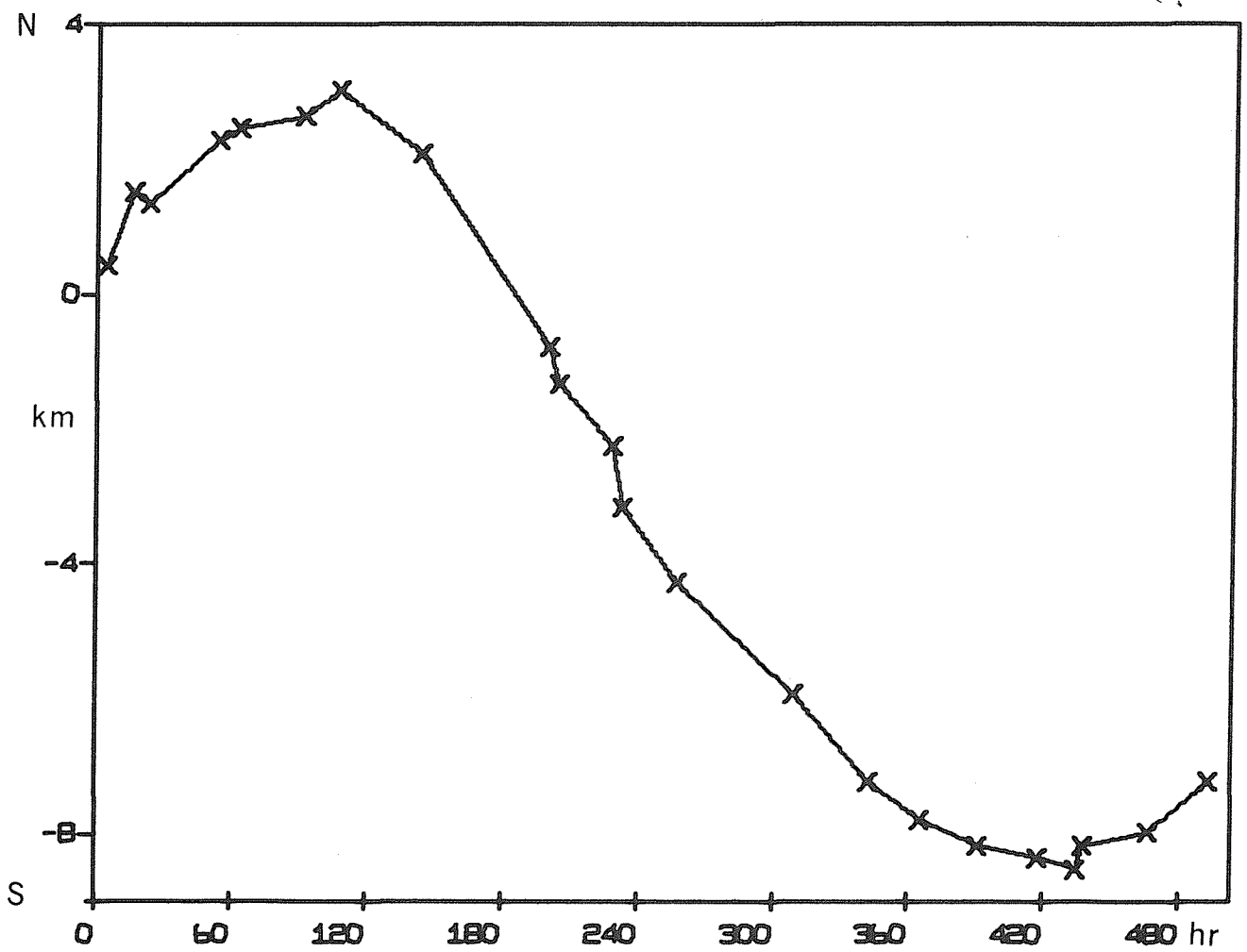


SERIAL NO = 274

FLOAT DESIGNATION = 17

DATE AND TIME LAID = 21.4/6.5.73

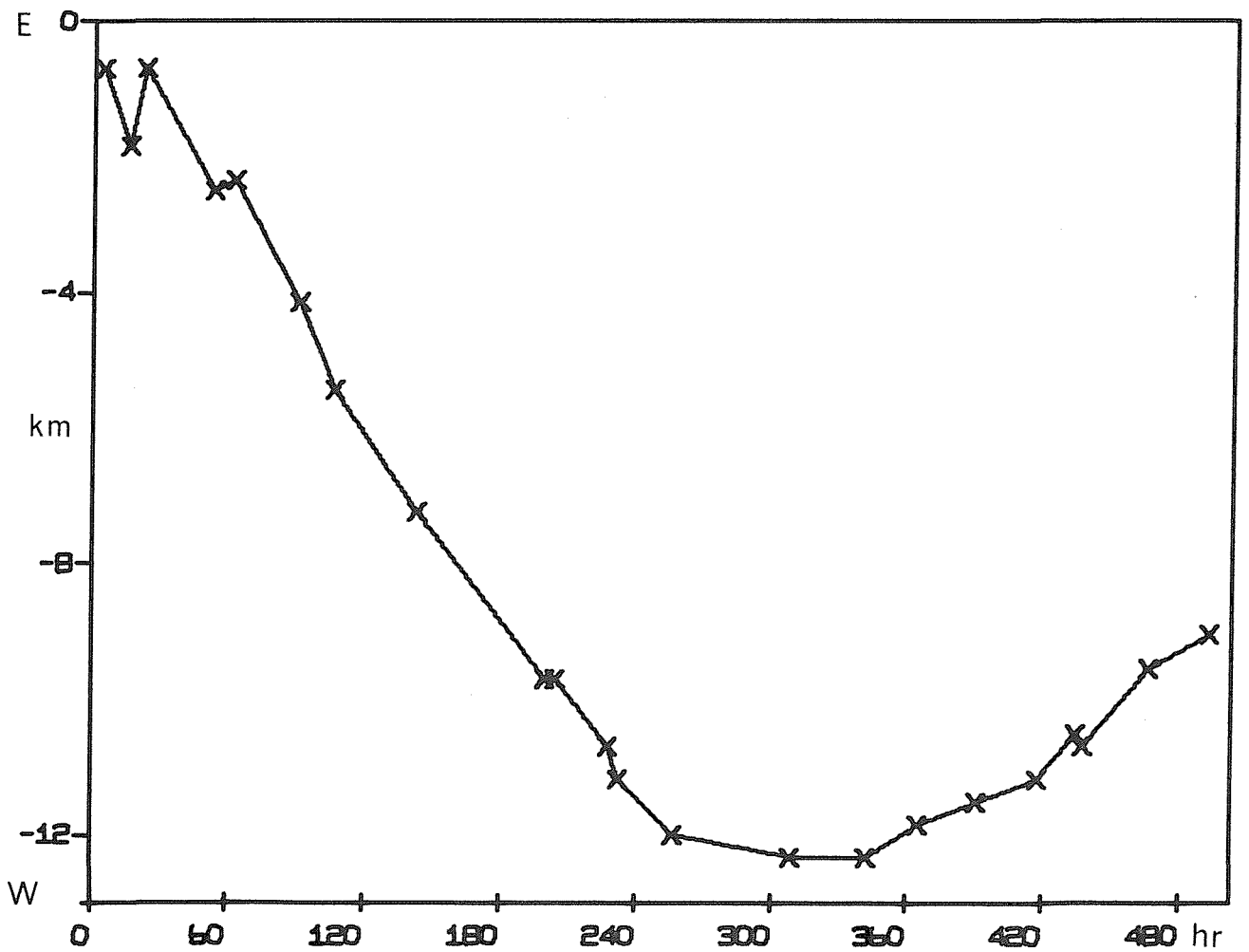
274



SERIAL NO = 274

FLOAT DESIGNATION = 17

DATE AND TIME LAID = 21.4/6.5.73



SERIAL NO= 275

FLOAT DESIGNATION= 14

DATE AND TIME LAID= 21.4/ 6. 5.73

POSITION LAID= 27 58.1N 68 38.2W DISPLACEMENT ORIGIN= 27 58.0N
(-0.3KM E 0.1KM N) 68 38.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
3000 2950 300

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		T
			LAT.N	LONG.W		+E-W X	+N-S Y	CM/SEC		
1	7. 5	2.7	27 58.0	68 38.1	5.3	-0.2	-0.0			
2	7. 5	6.9	27 58.1	68 38.0	9.5	0.0	0.2	1.6		42
3	8. 5	2.4	27 58.2	68 38.3	29.0	-0.5	0.4	0.7		291
4	9. 5	6.3	27 58.4	68 39.0	56.9	-1.6	0.7	1.2		288
5	10. 5	12.5	27 58.1	68 39.5	87.1	-2.5	0.2	0.9		236
6	10. 5	15.9	27 58.2	68 39.9	90.5	-3.1	0.4	5.6		286
7	11. 5	4.8	27 57.7	68 40.7	103.4	-4.4	-0.6	3.5		235
8	12. 5	17.7	27 56.7	68 41.5	140.3	-5.7	-2.4	1.7		215
* 9	15. 5	4.6	27 54.6	68 42.8	199.2	-7.9	-6.3	2.1		209
10	15. 5	11.6	27 54.4	68 43.4	206.2	-8.9	-6.6	4.2		249
11	16. 5	9.1	27 53.9	68 43.7	227.7	-9.3	-7.6	1.4		208
* 12	16. 5	15.1	27 53.9	68 43.9	233.7	-9.7	-7.6	1.5		270
13	16. 5	22.2	27 53.8	68 44.2	240.8	-10.2	-7.8	2.1		249
* 14	17. 5	14.1	27 53.2	68 44.2	256.7	-10.2	-8.9	1.9		180
15	18. 5	3.4	27 53.1	68 43.9	270.0	-9.7	-9.1	1.1		111
16	18. 5	19.7	27 52.7	68 44.0	286.3	-9.8	-9.8	1.3		193
* 17	19. 5	18.0	27 52.2	68 44.1	308.6	-10.0	-10.7	1.2		190

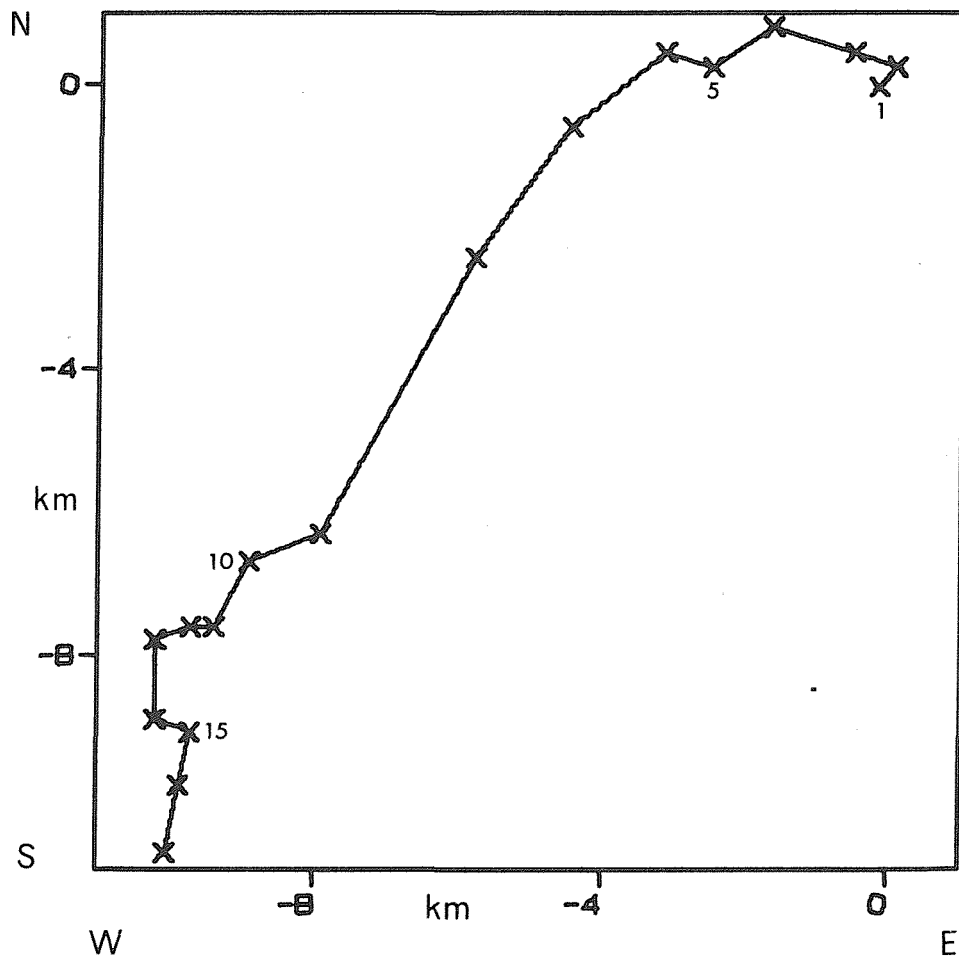
MEAN SPEED ALONG TRAJECTORY= 1.7 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 17 = 1.3 CM/SEC 223 DEGREES TRUE

SERIAL NO = 275

FLOAT DESIGNATION = 14

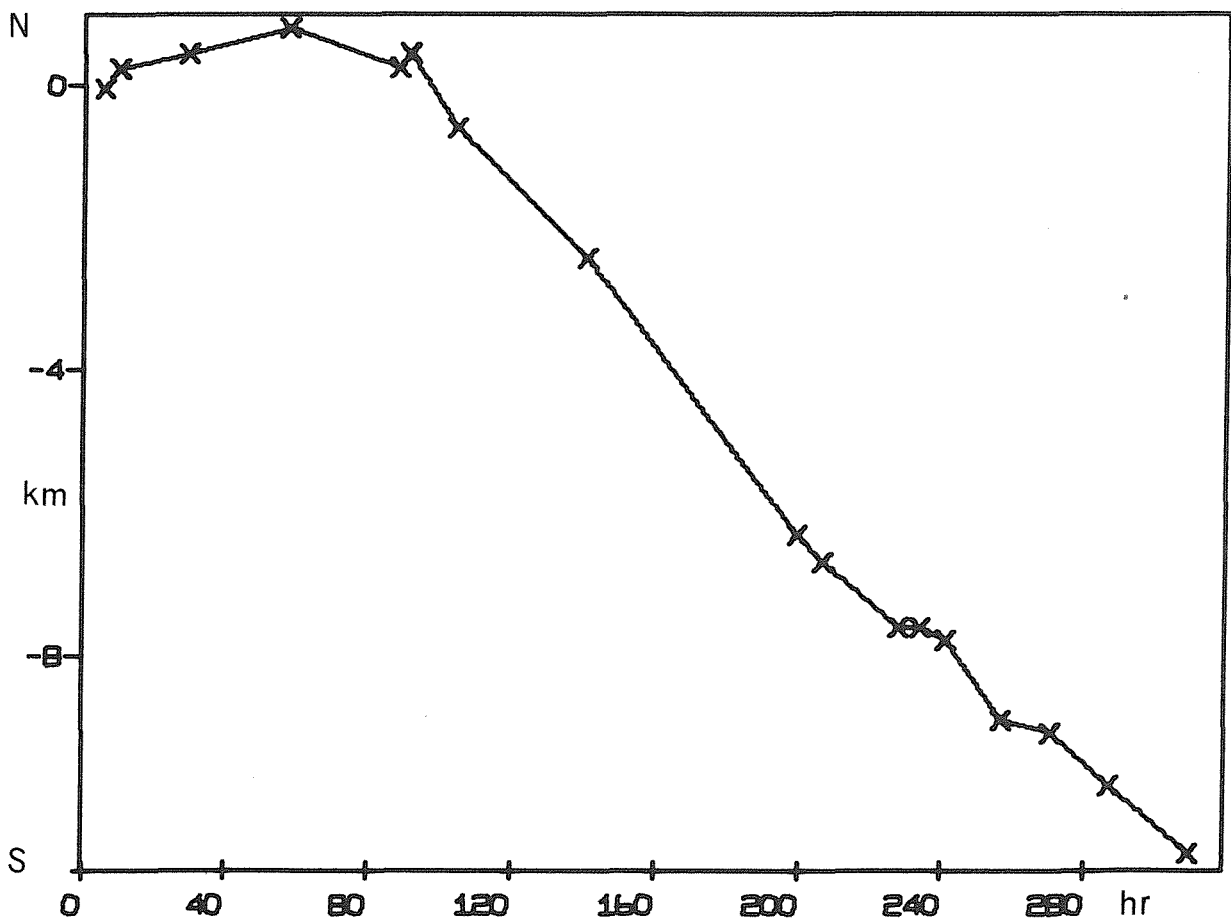
DATE AND TIME LAID = 21.4/6.5.73



SERIAL NO = 275

FLOAT DESIGNATION = 14

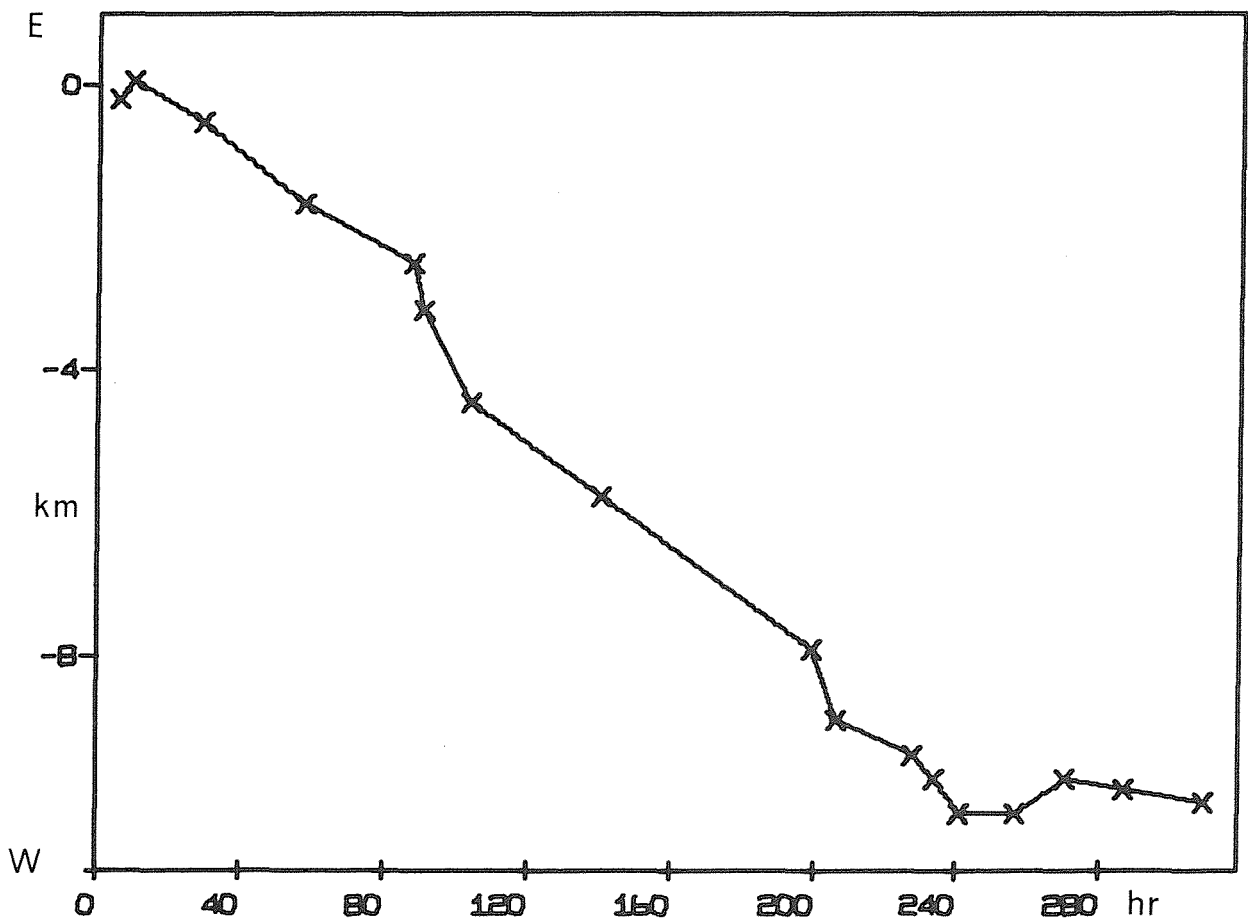
DATE AND TIME LAID = 21.4/6.5.73



SERIAL NO = 275

FLOAT DESIGNATION = 14

DATE AND TIME LAID = 21.4/6.5.73



SERIAL NO= 276

FLOAT DESIGNATION= 5

DATE AND TIME LAID= 21.5/ 6. 5.73

POSITION LAID= 27 58.1N 68 38.2W DISPLACEMENT ORIGIN= 27 58.0N
(-0.3KM E 0.1KM N) 68 38.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
1500 1540 25

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT (KM)		VELOCITIES BETWEEN FIXES		CM/SEC	T
			LAT. N	LONG. W		+E-W X	+N-S Y				
1	7. 5	2.1	27 58.1	68 38.4	4.6	-0.7	0.2				
2	7. 5	12.5	27 58.8	68 38.6	15.0	-1.0	1.5	3.6		346	
3	8. 5	2.4	27 59.7	68 38.2	28.9	-0.3	3.1	3.6		22	
4	9. 5	6.7	28 1.1	68 38.6	57.2	-1.0	5.7	2.6		346	
5	9. 5	12.0	28 1.2	68 38.5	62.5	-0.8	5.9	1.3		42	
6	10. 5	11.1	28 2.3	68 39.6	85.6	-2.6	7.9	3.3		318	
7	11. 5	7.5	28 3.5	68 39.9	106.0	-3.1	10.2	3.1		347	
8	12. 5	18.6	28 4.9	68 42.0	141.1	-6.6	12.7	3.4		307	
* 9	13. 5	2.2	28 5.1	68 42.0	148.7	-6.6	13.1	1.4		0	
10	14. 5	9.5	28 5.8	68 43.3	180.0	-8.7	14.4	2.2		301	
11	15. 5	5.9	28 6.6	68 44.2	200.4	-10.2	15.9	2.8		315	
12	16. 5	5.0	28 7.3	68 45.5	223.5	-12.3	17.2	3.0		301	
13	17. 5	17.6	28 8.2	68 47.5	260.1	-15.6	18.8	2.8		297	
14	18. 5	10.8	28 8.6	68 48.3	277.3	-16.9	19.6	2.4		299	
* 15	19. 5	21.5	28 10.1	68 49.6	312.0	-19.0	22.3	2.8		322	
16	20. 5	21.0	28 11.4	68 50.2	335.5	-20.0	24.8	3.1		338	
17	21. 5	6.1	28 11.9	68 50.0	344.6	-19.7	25.7	3.0		20	
18	22. 5	4.2	28 12.4	68 51.7	366.7	-22.4	26.6	3.7		288	
19	23. 5	6.4	28 13.6	68 51.8	392.9	-22.6	28.8	2.4		356	
20	24. 5	4.5	28 15.2	68 52.8	415.0	-24.2	31.8	4.2		331	
* 21	24. 5	13.8	28 15.7	68 53.1	424.3	-24.7	32.7	3.1		332	
22	26. 5	23.8	28 20.0	68 54.8	482.3	-27.5	40.6	4.0		341	
23	28. 5	4.6	28 21.9	68 56.4	511.1	-30.1	44.1	4.2		323	

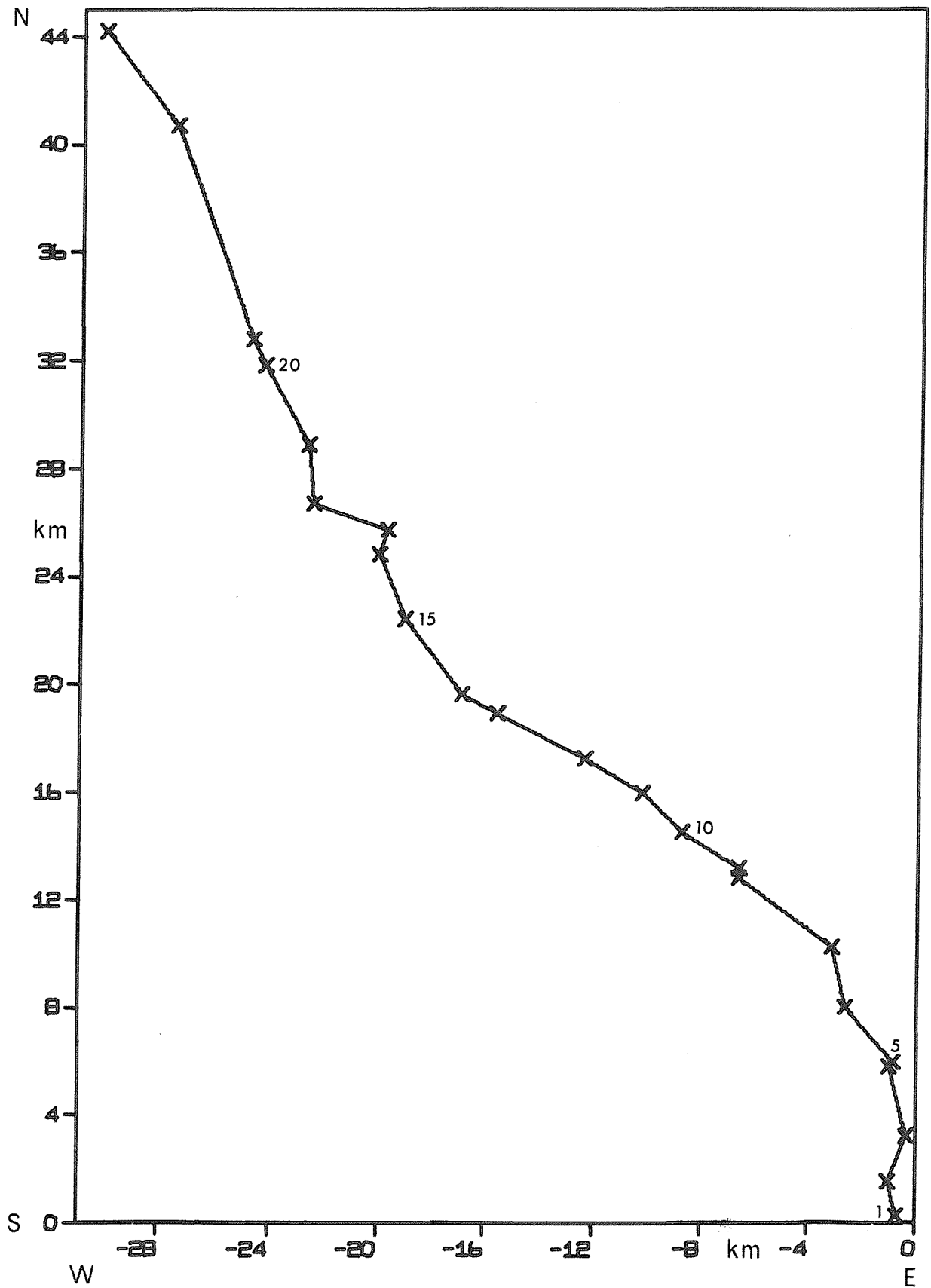
MEAN SPEED ALONG TRAJECTORY= 3.1 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 23 = 2.9 CM/SEC 326 DEGREES TRUE

SERIAL NO = 276

FLOAT DESIGNATION = 5

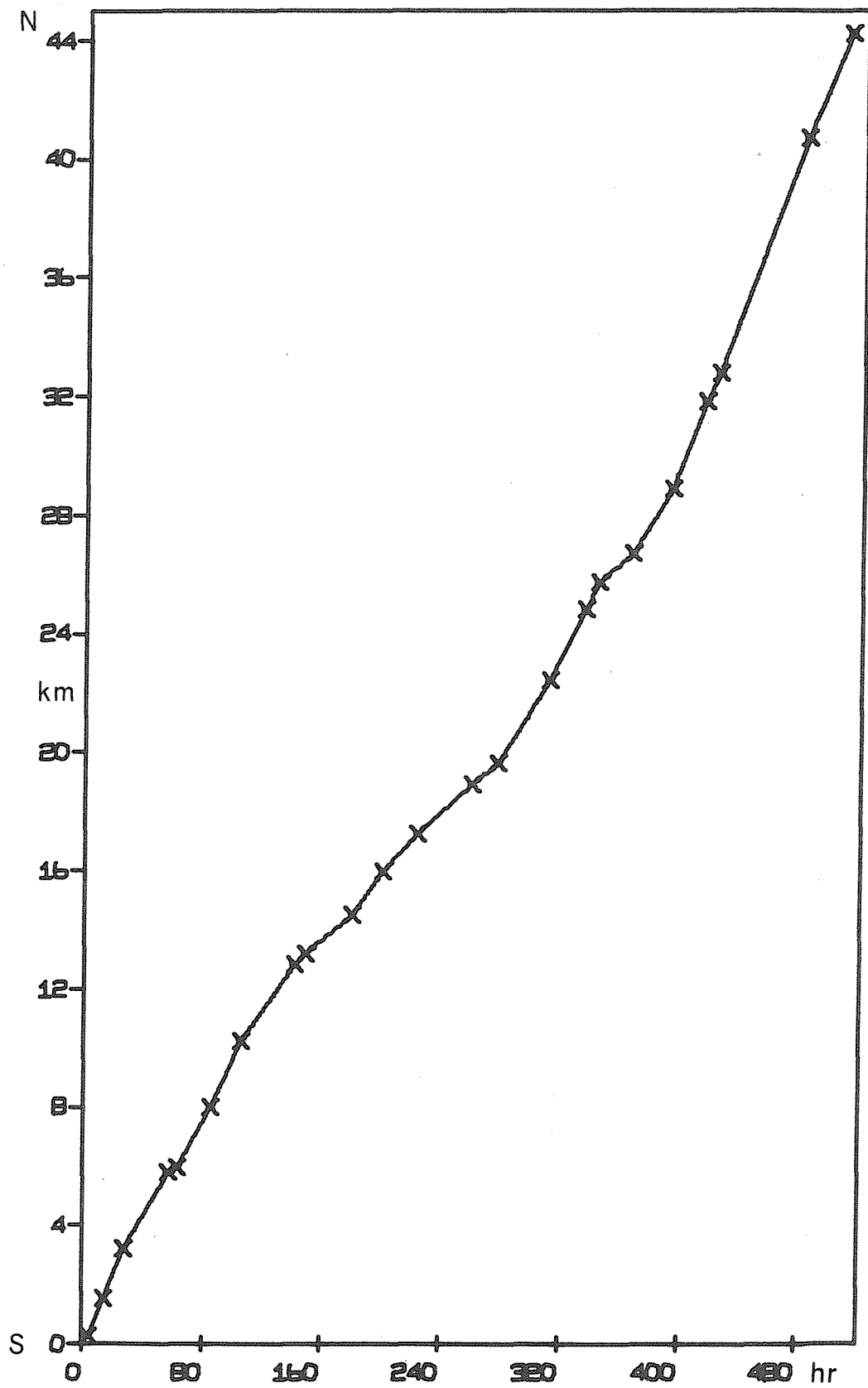
DATE AND TIME LAID = 21.5/6.5.73



SERIAL NO = 276

FLOAT DESIGNATION = 5

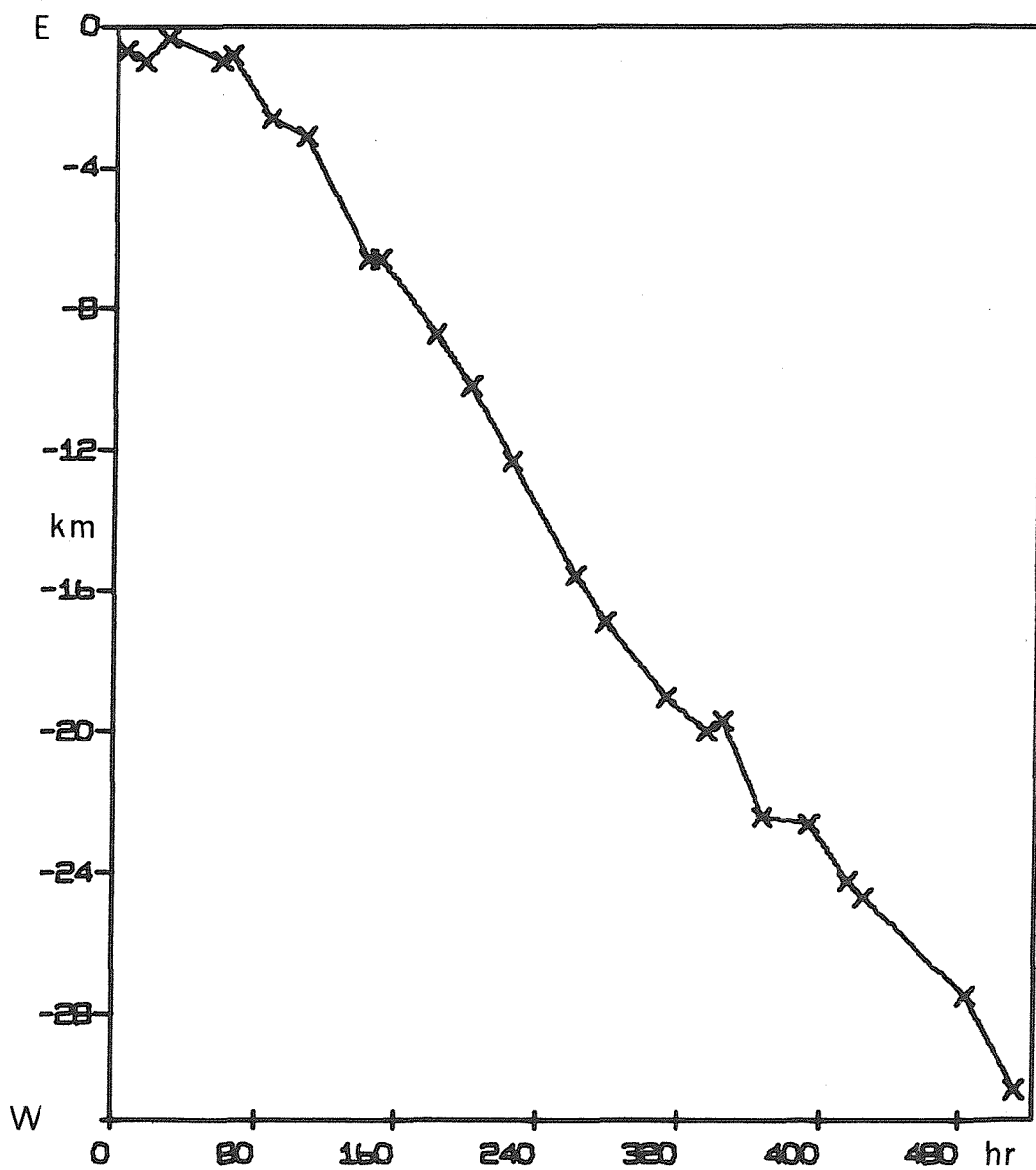
DATE AND TIME LAID = 21.5/6.5.73



SERIAL NO = 276

FLOAT DESIGNATION = 5

DATE AND TIME LAID = 21.5/6.5.73



SERIAL NO= 277

FLOAT DESIGNATION= 12

DATE AND TIME LAID= 22.1/ 6. 5.73

POSITION LAID= 27 59.2N 68 41.2W DISPLACEMENT ORIGIN= 27 59.0N
(-0.3KM E 0.3KM N) 68 41.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
4000 3750 100

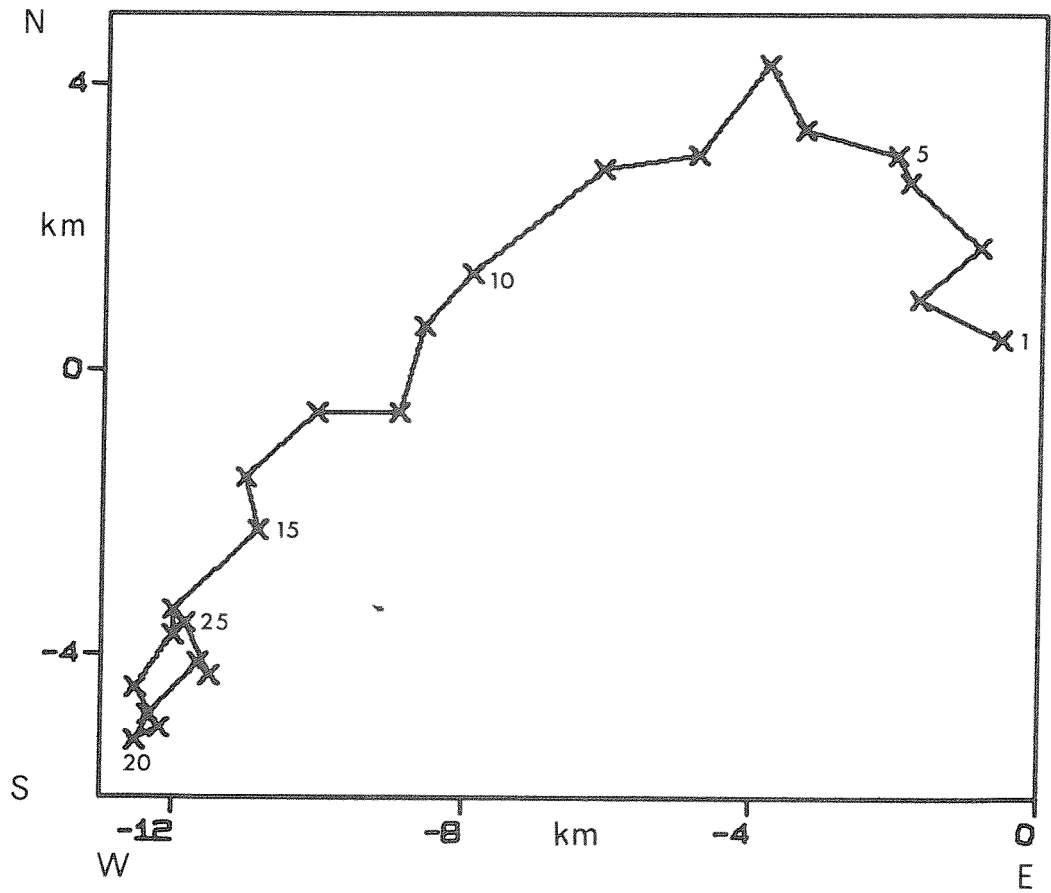
FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		T
			LAT.N	LONG.W		+E-W X	+N-S Y	CM/SEC		
1	7. 5	2.4	27 59.2	68 41.3	4.3	-0.5	0.4			
2	7. 5	13.6	27 59.5	68 42.0	15.5	-1.6	0.9	3.2	296	
3	8. 5	3.3	27 59.9	68 41.5	29.2	-0.8	1.7	2.2	48	
4	9. 5	2.5	28 0.4	68 42.1	52.4	-1.8	2.6	1.6	313	
5	9. 5	12.0	28 0.6	68 42.2	61.9	-2.0	3.0	1.2	336	
6	10. 5	15.9	28 0.8	68 43.0	89.8	-3.3	3.3	1.4	286	
7	11. 5	4.8	28 1.3	68 43.3	102.7	-3.8	4.2	2.3	332	
8	11. 5	11.9	28 0.6	68 43.9	109.8	-4.8	3.0	6.4	217	
* 9	12. 5	19.9	28 0.5	68 44.7	141.8	-6.1	2.8	1.2	262	
10	15. 5	3.3	27 59.7	68 45.8	197.2	-7.9	1.3	1.2	231	
11	15. 5	9.3	27 59.3	68 46.2	203.2	-8.5	0.6	4.6	222	
12	16. 5	5.0	27 58.7	68 46.4	222.9	-8.9	-0.6	1.6	196	
* 13	16. 5	14.2	27 58.7	68 47.1	232.1	-10.0	-0.6	3.5	270	
* 14	17. 5	14.1	27 58.2	68 47.7	256.0	-11.0	-1.5	1.6	227	
15	18. 5	19.7	27 57.8	68 47.6	285.6	-10.8	-2.2	0.7	167	
* 16	19. 5	17.6	27 57.2	68 48.3	307.5	-12.0	-3.3	2.0	226	
17	20. 5	1.7	27 57.0	68 48.3	315.6	-12.0	-3.7	1.3	180	
* 18	21. 5	4.4	27 56.6	68 48.6	342.3	-12.5	-4.4	0.9	214	
19	22. 5	4.2	27 56.3	68 48.4	366.1	-12.1	-5.0	0.8	149	
* 20	23. 5	4.4	27 56.2	68 48.6	390.3	-12.5	-5.2	0.4	241	
* 21	24. 5	7.6	27 56.2	68 48.6	417.5	-12.5	-5.2	0.0	90	
22	25. 5	0.6	27 56.4	68 48.5	434.5	-12.3	-4.8	0.7	24	
23	26. 5	23.8	27 56.8	68 48.1	481.7	-11.6	-4.1	0.6	42	
* 24	27. 5	8.6	27 56.7	68 48.0	490.5	-11.5	-4.2	0.8	138	
25	27. 5	21.2	27 57.1	68 48.2	503.1	-11.8	-3.5	1.8	336	

MEAN SPEED ALONG TRAJECTORY= 1.3 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 25 = 0.7 CM/SEC 251 DEGREES TRUE

FLOAT DESIGNATION = 12

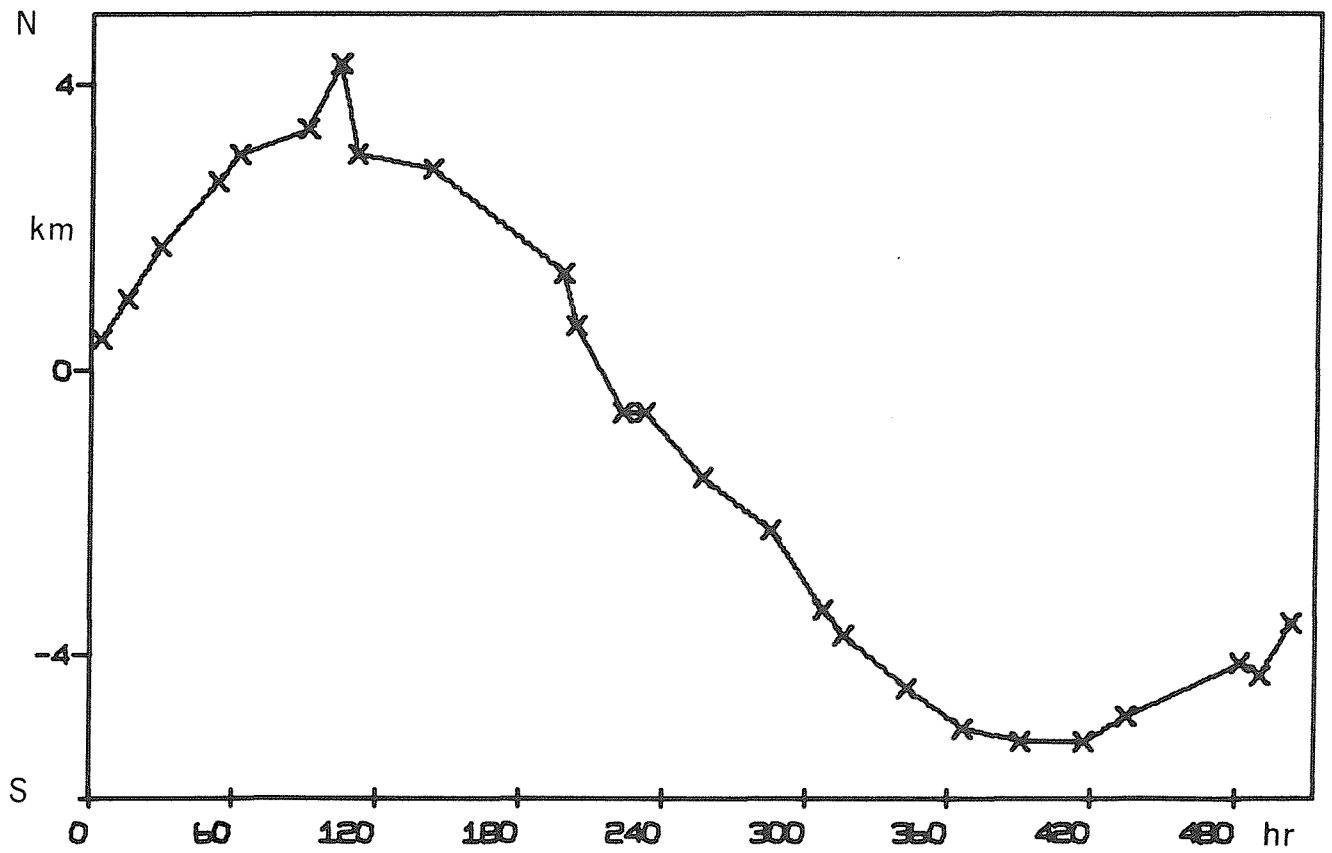
SERIAL NO = 277
DATE AND TIME LAID = 22.1/
6.5.73



SERIAL NO = 277

FLOAT DESIGNATION = 12

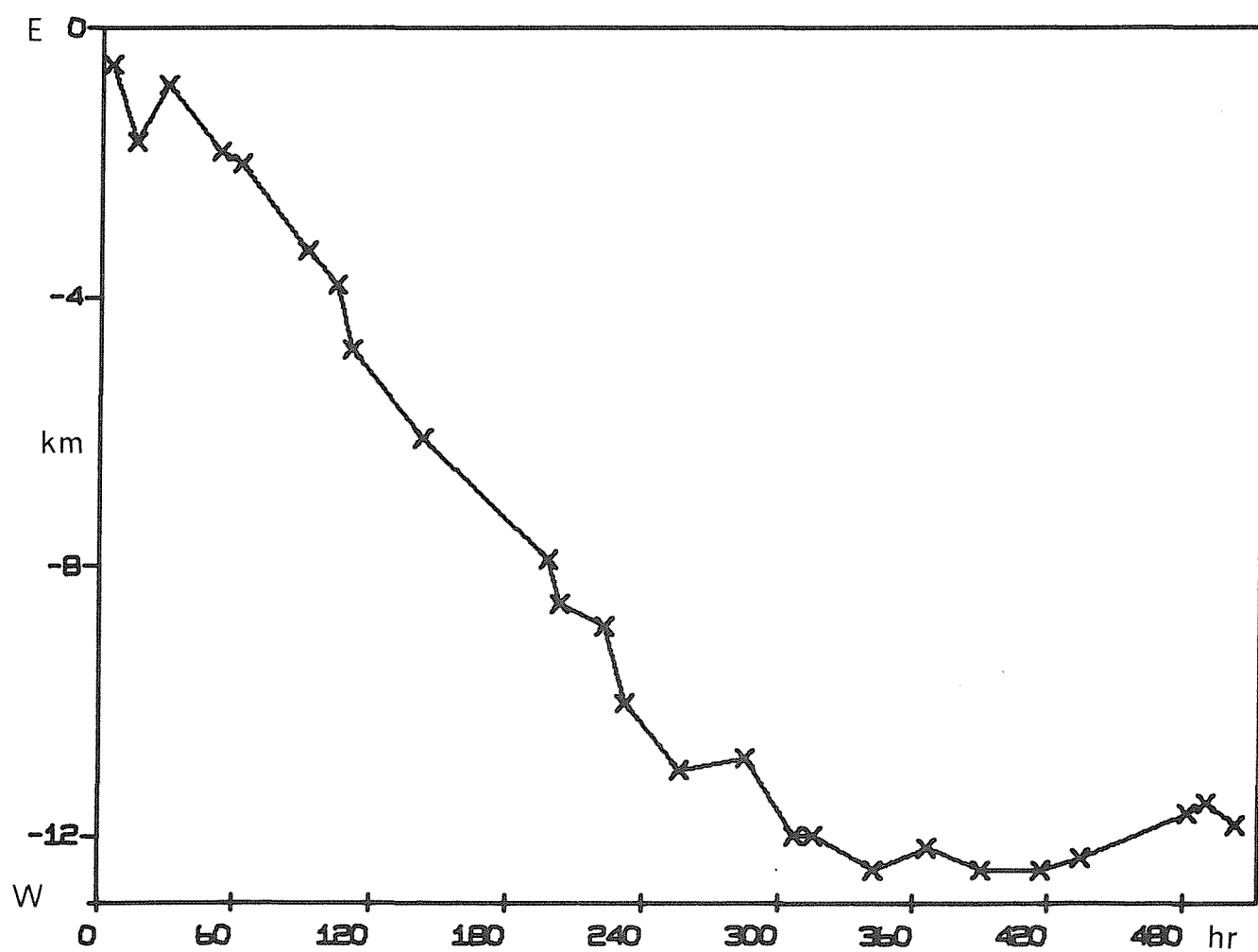
DATE AND TIME LAID = 22.1/6.5.73



SERIAL NO = 277

FLOAT DESIGNATION = 12

DATE AND TIME LAID = 22.1/6.5.73



SERIAL NO= 278

FLOAT DESIGNATION= 15

DATE AND TIME LAID= 22.1/ 6. 5.73

POSITION LAID= 27 59.2N 68 41.2W DISPLACEMENT ORIGIN= 27 59.0N
(-0.3KM E 0.3KM N) 68 41.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
3000 2890 10

FIX NO	DATE	TIME GMT	FIX LAT.N	POSITION LONG.W	HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	7.	5	2.1	27 59.2	68 41.4	4.0	-0.7	0.4	
2	7.	5	13.6	27 59.6	68 41.5	15.5	-0.8	1.1	1.8 347
3	8.	5	2.4	27 59.8	68 41.3	28.3	-0.5	1.5	1.1 42
4	9.	5	2.5	27 59.7	68 41.6	52.4	-1.0	1.3	0.6 249
5	9.	5	8.7	27 59.1	68 41.7	58.6	-1.1	0.2	5.0 188
6	10.	5	15.9	27 59.0	68 42.7	89.8	-2.8	-0.0	1.5 264
7	11.	5	4.8	27 58.5	68 42.6	102.7	-2.6	-0.9	2.0 170
8	11.	5	7.5	27 58.7	68 42.8	105.4	-3.0	-0.6	5.1 318
9	12.	5	7.3	27 57.8	68 43.3	129.2	-3.8	-2.2	2.2 206
* 10	12.	5	19.8	27 57.5	68 43.8	141.7	-4.6	-2.8	2.2 236
* 11	15.	5	4.9	27 55.5	68 44.9	198.8	-6.4	-6.5	2.0 206
12	15.	5	13.0	27 55.1	68 45.1	206.9	-6.7	-7.2	2.8 204
13	16.	5	5.0	27 54.2	68 45.5	222.9	-7.4	-8.9	3.1 202
* 14	16.	5	15.2	27 54.2	68 45.8	233.1	-7.9	-8.9	1.3 270
* 15	17.	5	14.2	27 53.4	68 46.0	256.1	-8.2	-10.3	1.8 193
16	18.	5	12.3	27 52.5	68 46.0	278.2	-8.2	-12.0	2.1 180
* 17	19.	5	18.0	27 51.8	68 45.9	307.9	-8.0	-13.3	1.2 173
18	20.	5	3.9	27 51.4	68 45.7	317.8	-7.7	-14.0	2.3 156
19	20.	5	21.6	27 51.1	68 45.4	335.5	-7.2	-14.6	1.2 138
* 20	21.	5	3.8	27 50.9	68 45.5	341.7	-7.4	-15.0	1.8 204
* 21	22.	5	2.9	27 50.6	68 45.2	364.8	-6.9	-15.5	0.9 138
* 22	23.	5	4.6	27 50.4	68 44.7	390.5	-6.1	-15.9	1.0 114
23	24.	5	23.4	27 50.6	68 44.4	433.3	-5.6	-15.5	0.4 53
24	26.	5	9.7	27 51.0	68 43.4	467.6	-3.9	-14.8	1.5 66
25	27.	5	1.3	27 51.5	68 43.4	483.2	-3.9	-13.9	1.6 0
* 26	27.	5	11.4	27 51.6	68 43.1	493.3	-3.4	-13.7	1.4 69

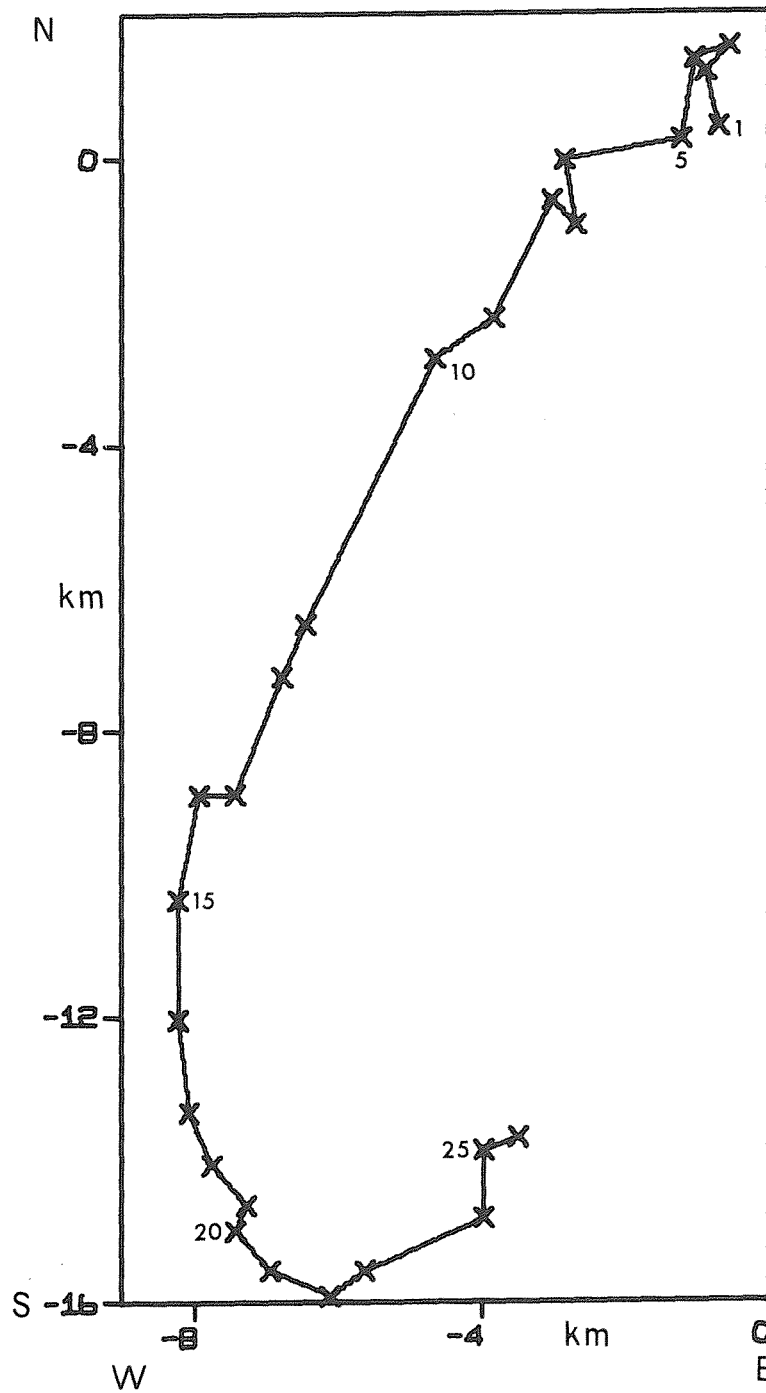
MEAN SPEED ALONG TRAJECTORY= 1.6 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 26 = 0.8 CM/SEC 191 DEGREES TRUE

SERIAL NO = 278

FLOAT DESIGNATION = 15

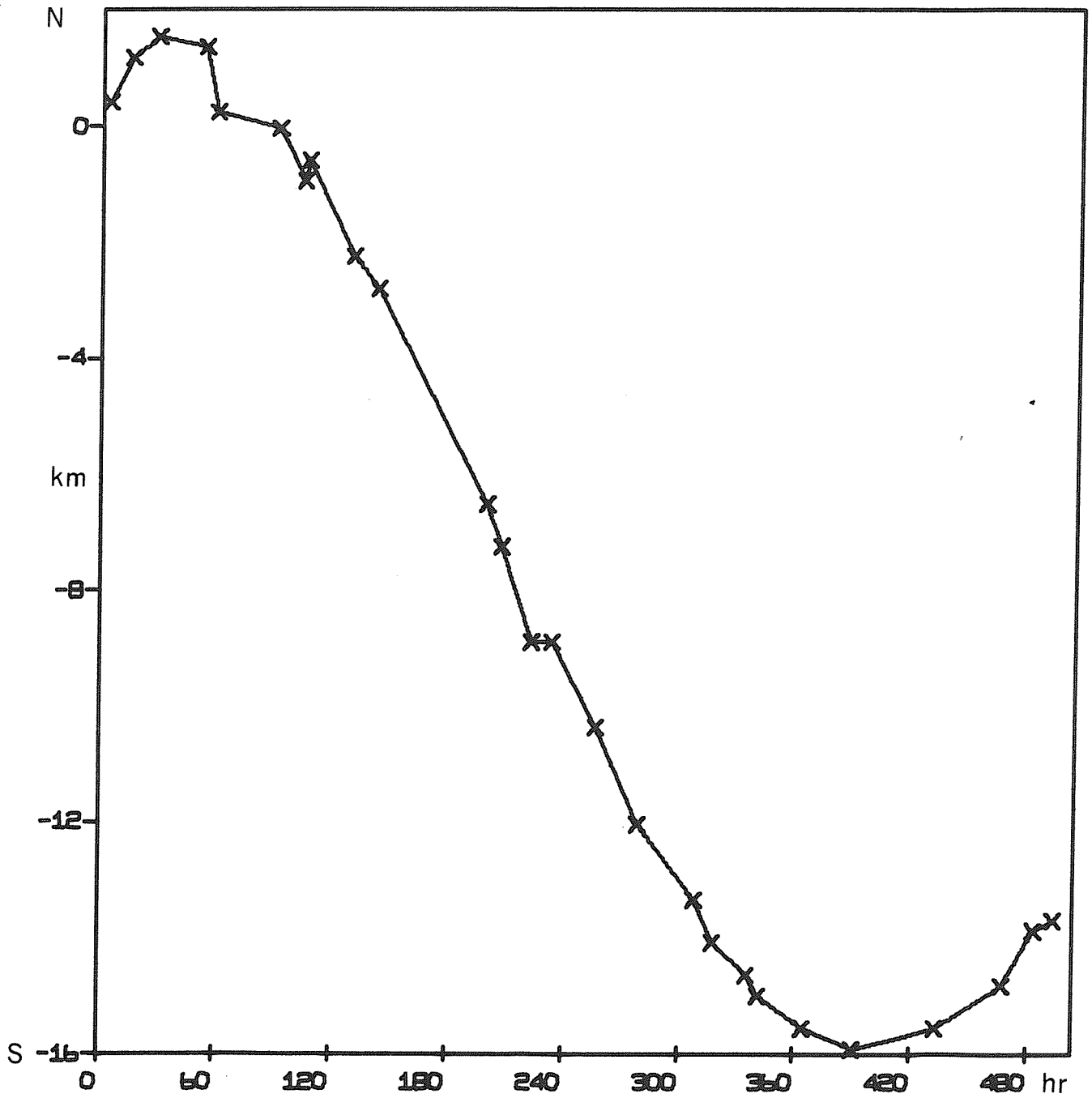
DATE AND TIME LAID = 22.1/6.5.73



SERIAL NO = 278

FLOAT DESIGNATION = 15

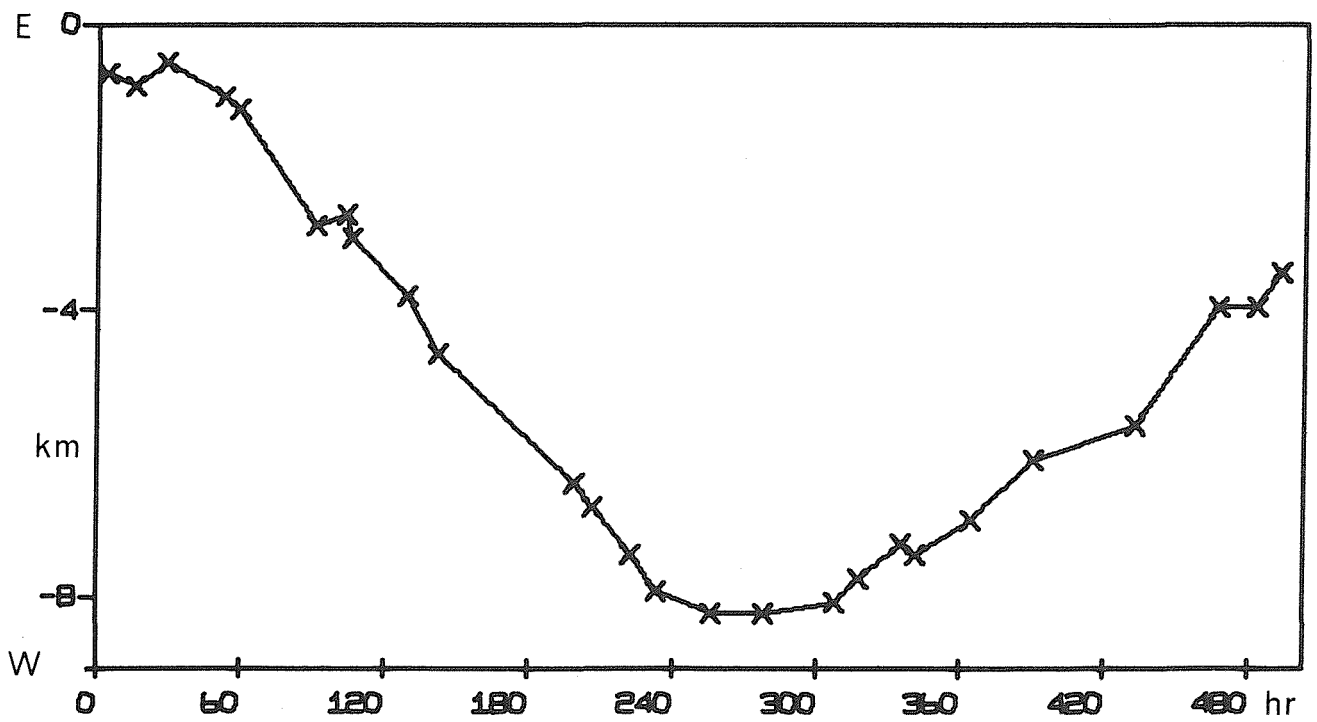
DATE AND TIME LAID = 22.1/6.5.73



SERIAL NO = 278

FLOAT DESIGNATION = 15

DATE AND TIME LAID = 22.1/6.5.73



SERIAL NO= 279

FLOAT DESIGNATION= 13

DATE AND TIME LAID= 22.1/ 6. 5.73

POSITION LAID= 27 59.2N 68 41.2W DISPLACEMENT ORIGIN= 27 59.0N
(-0.3KM E 0.3KM N) 68 41.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
1500 1610 50

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		CM/SEC	T
			LAT.N	LONG.W		+E-W X	+N-S Y				
1	7. 5	2.1	27 59.3	68 41.2	4.0	-0.3	0.6				
2	7. 5	12.5	27 59.2	68 41.4	14.4	-0.7	0.4	1.0		241	
3	7. 5	20.3	28 0.0	68 41.3	22.2	-0.5	1.8	5.3		6	
4	9. 5	12.0	28 1.7	68 41.8	61.9	-1.3	5.0	2.3		345	
5	10. 5	11.1	28 2.6	68 42.6	85.0	-2.6	6.6	2.5		322	
6	10. 5	23.3	28 3.1	68 43.2	97.2	-3.6	7.6	3.1		313	
7	11. 5	11.9	28 3.5	68 43.7	109.8	-4.4	8.3	2.4		312	
8	12. 5	13.1	28 4.0	68 44.7	135.0	-6.1	9.2	2.1		299	
9	12. 5	21.9	28 4.6	68 45.2	143.8	-6.9	10.3	4.4		324	
* 10	13. 5	1.8	28 4.6	68 45.2	147.7	-6.9	10.3	0.0		90	
11	15. 5	2.1	28 5.6	68 47.4	196.0	-10.5	12.2	2.3		297	
12	16. 5	5.0	28 6.7	68 48.6	222.9	-12.5	14.2	2.9		316	
13	17. 5	17.6	28 6.9	68 50.7	259.5	-15.9	14.6	2.6		276	
* 14	19. 5	21.6	28 8.4	68 53.1	311.5	-19.8	17.4	2.6		305	

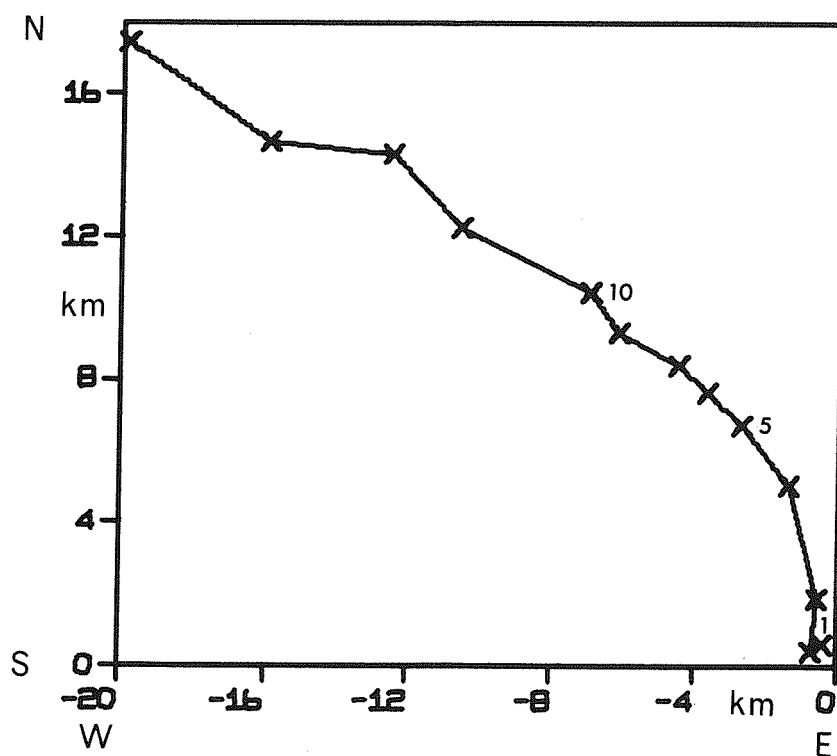
MEAN SPEED ALONG TRAJECTORY= 2.5 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 14 = 2.3 CM/SEC 311 DEGREES TRUE

SERIAL NO = 279

FLOAT DESIGNATION = 13

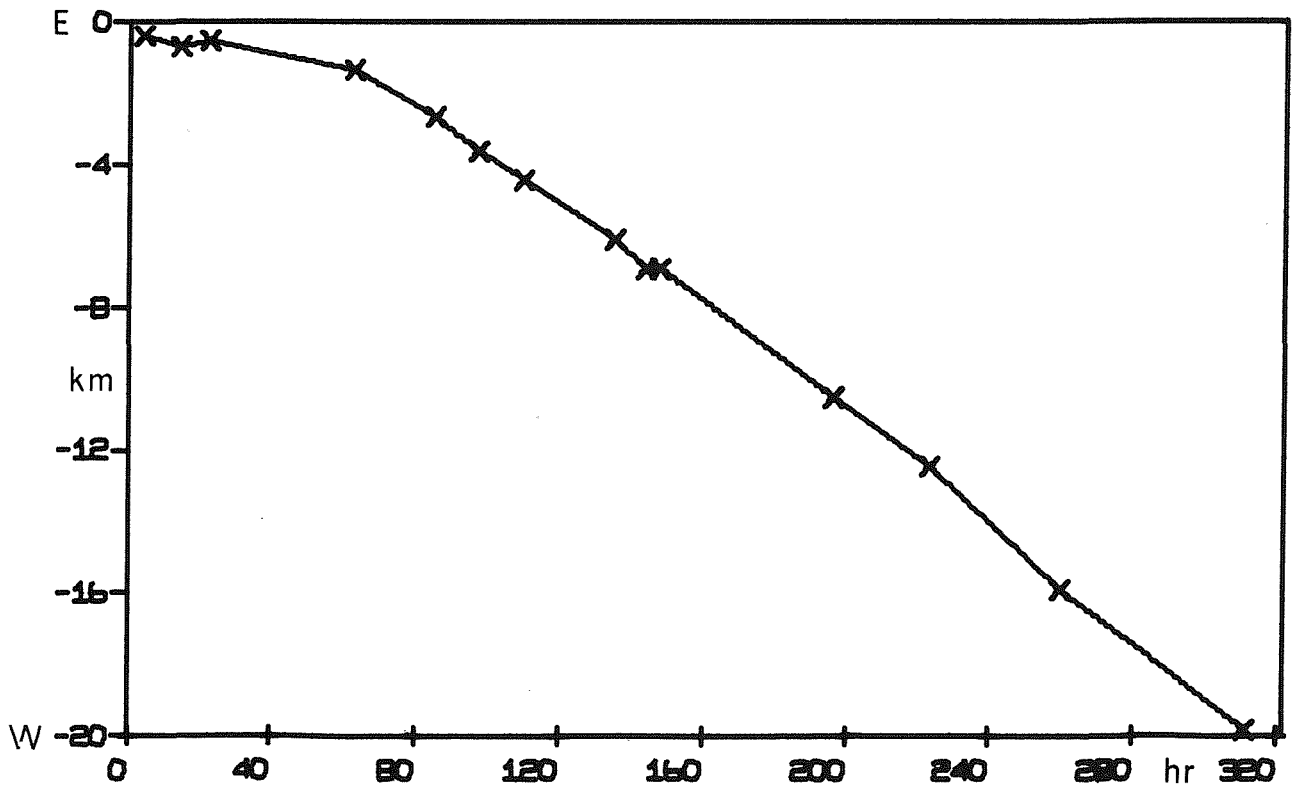
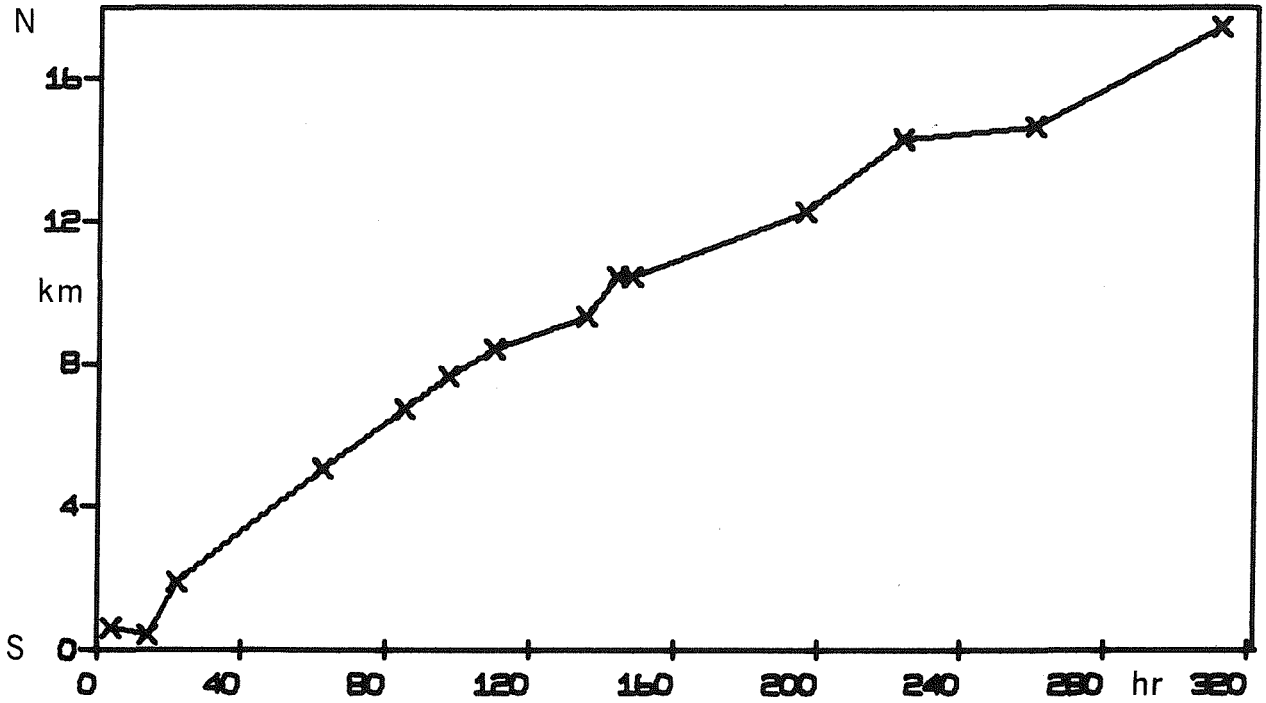
DATE AND TIME LAID = 22.1/6.5.73



SERIAL NO = 279

FLOAT DESIGNATION = 13

DATE AND TIME LAID = 22.1/6.5.73



SERIAL NO= 280

FLOAT DESIGNATION= 16

DATE AND TIME LAID= 22.7/ 9. 5.73

POSITION LAID= 28 18.0N 68 36.7W DISPLACEMENT ORIGIN= 28 18.0N
(5.3KM E 0.0KM N) 68 40.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
500 530 20

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		CM/SEC	T
			LAT.N	LONG.W		+E-W X	+N-S Y				
* 1	10.	5	3.7	28 17.2	68 37.2	5.0	4.6	-1.5			
* 2	10.	5	8.2	28 16.8	68 37.9	9.5	3.4	-2.2	8.4	237	
3	10.	5	15.9	28 15.3	68 37.4	17.2	4.3	-5.0	10.4	164	
* 4	10.	5	19.8	28 14.2	68 37.3	21.1	4.4	-7.0	14.5	175	
5	11.	5	4.8	28 13.0	68 38.6	30.1	2.3	-9.2	9.5	224	
6	12.	5	18.6	28 6.5	68 40.8	67.9	-1.3	-21.2	9.2	197	
* 7	13.	5	2.3	28 5.2	68 41.3	75.6	-2.1	-23.6	9.2	199	
* 8	15.	5	5.0	27 55.8	68 46.4	126.3	-10.5	-41.0	10.6	206	
* 9	16.	5	15.9	27 49.3	68 49.9	161.2	-16.2	-53.0	10.6	206	

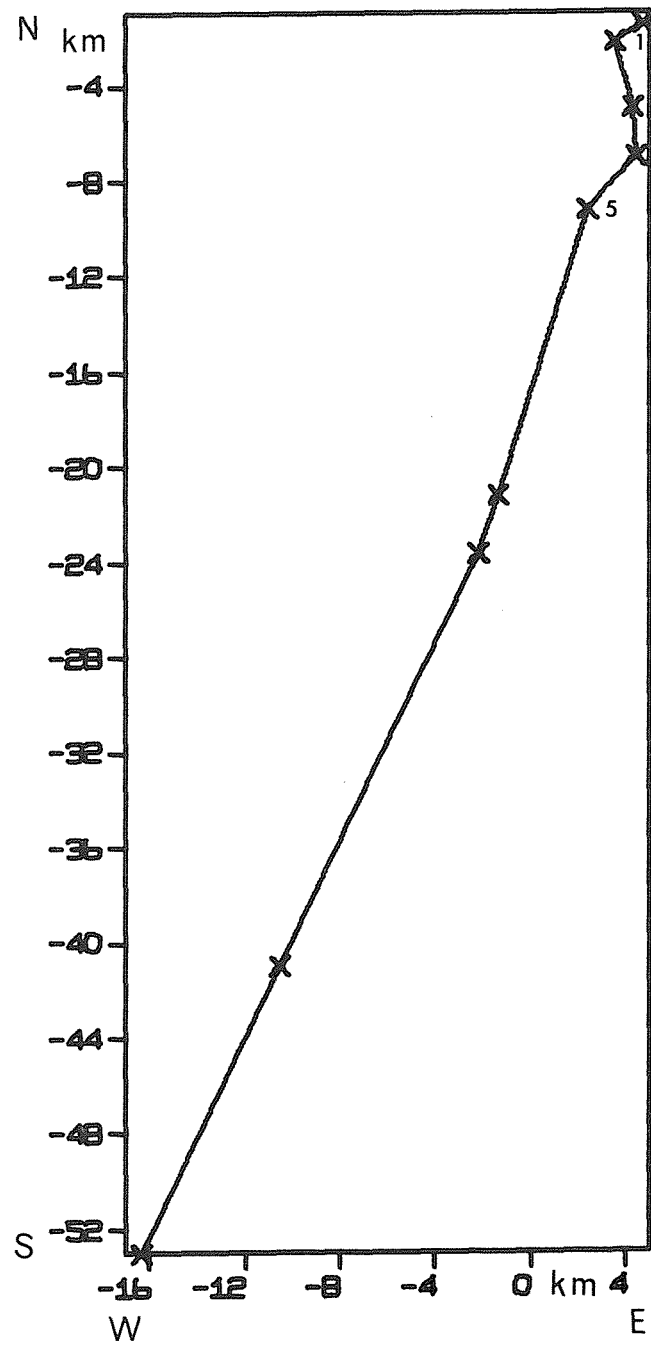
MEAN SPEED ALONG TRAJECTORY=10.1 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 9 = 9.9 CM/SEC 202 DEGREES TRUE

SERIAL NO = 280

FLOAT DESIGNATION = 16

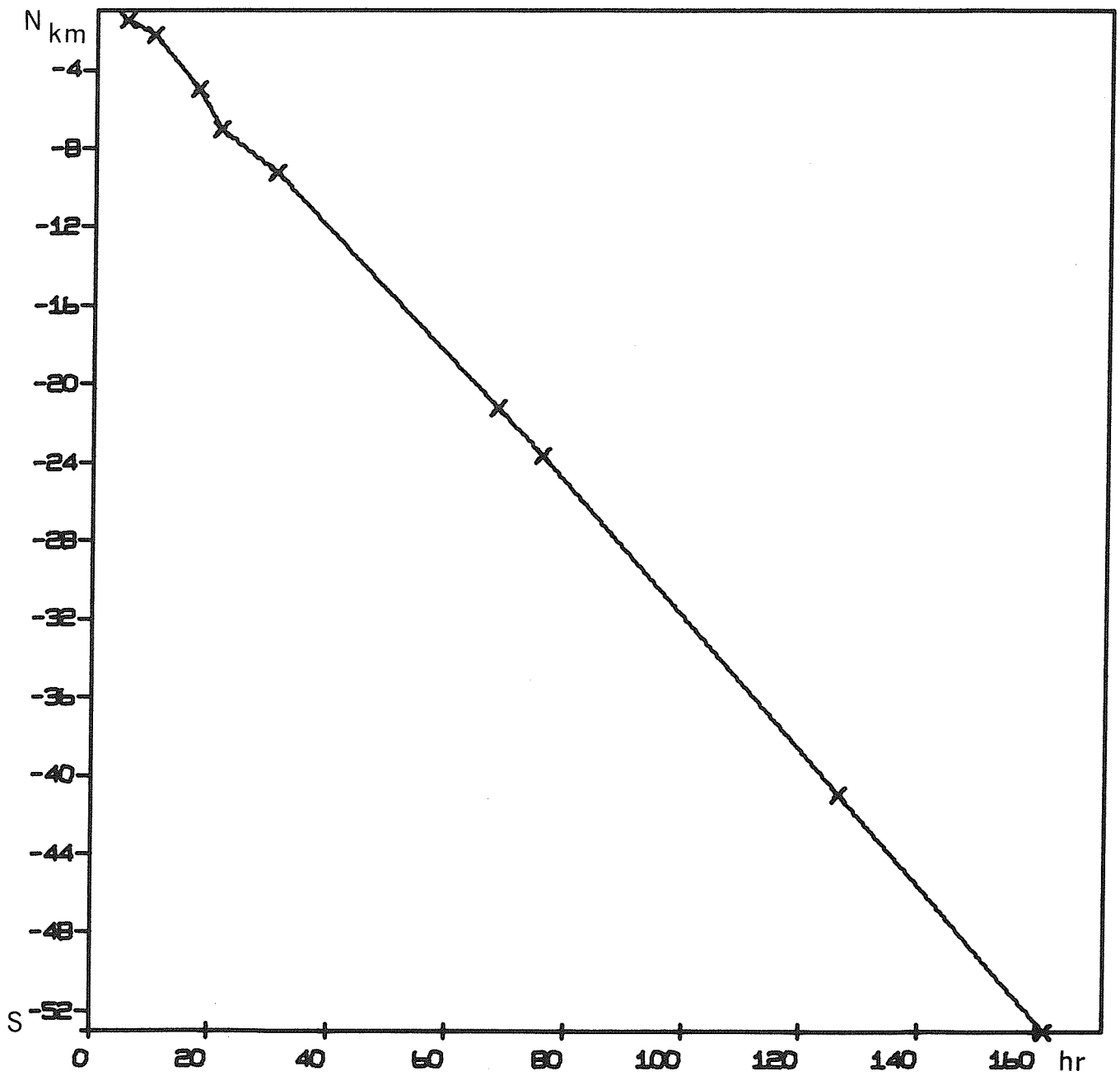
DATE AND TIME LAID = 22.7/9.5.73



SERIAL NO = 280

FLOAT DESIGNATION = 16

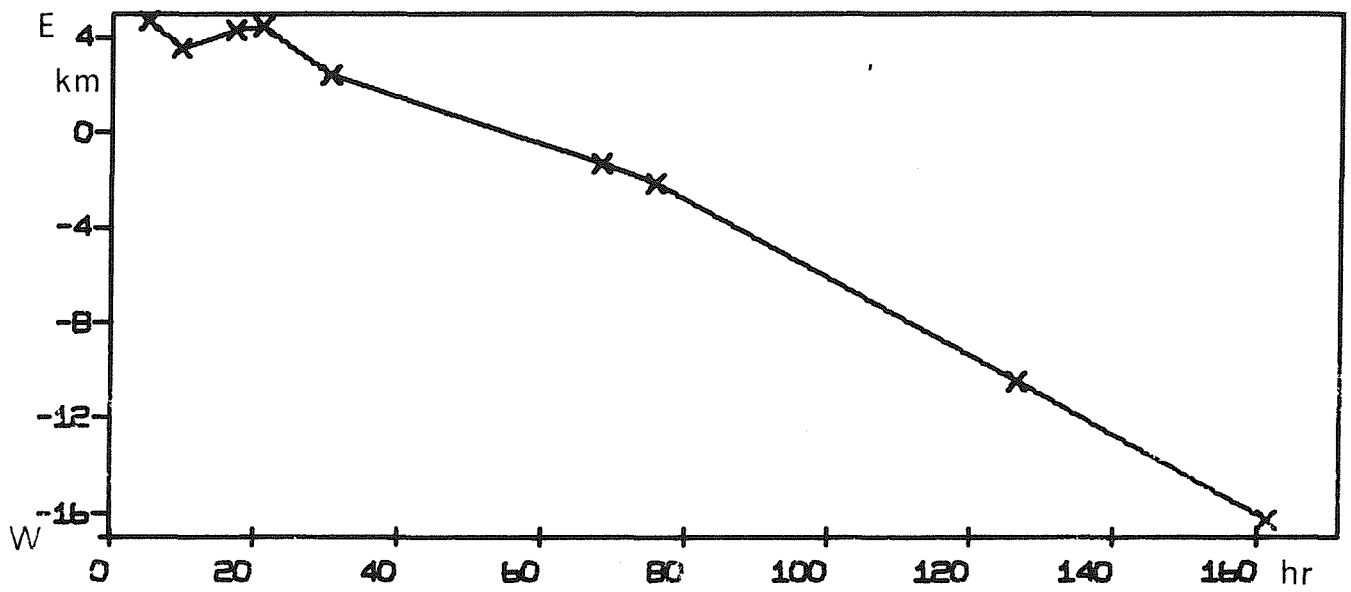
DATE AND TIME LAID = 22.7/9.5.73



SERIAL NO = 280

FLOAT DESIGNATION = 16

DATE AND TIME LAID = 22.7/9.5.73



SERIAL NO= 291

FLOAT DESIGNATION= 3

DATE AND TIME LAID= 23.5/ 9. 5.73

POSITION LAID= 28 17.9N 68 42.9W DISPLACEMENT ORIGIN= 28 18.0N
(-4.7KM E -0.1KM N) 68 40.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
500 590 20

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		T	
			LAT.N	LONG.W		+E-W X	+N-S Y	CM/SEC			
* 1	10.	5	3.1	28 17.3	68 43.3	3.6	-5.4	-1.3			
* 2	10.	5	8.2	28 16.9	68 42.9	8.7	-4.7	-2.0	5.4	138	
	3	10.	5	15.9	28 15.1	68 42.6	16.4	-4.3	-5.4	12.1	172
* 4	10.	5	20.2	28 13.9	68 43.2	20.7	-5.2	-7.6	15.7	204	
* 5	11.	5	1.9	28 13.1	68 44.0	26.4	-6.5	-9.1	9.6	222	
	6	11.	5	11.9	28 11.3	68 44.1	36.4	-6.7	-12.4	9.3	183
	7	12.	5	17.7	28 4.3	68 46.2	66.2	-10.1	-25.3	12.5	195
* 8	13.	5	1.6	28 3.2	68 46.9	74.1	-11.3	-27.3	8.2	209	
	9	15.	5	5.9	27 51.6	68 50.7	126.4	-17.5	-48.8	11.9	196
	10	16.	5	5.0	27 46.3	68 54.2	149.5	-23.3	-58.6	13.7	210
* 11	16.	5	17.5	27 44.6	68 55.2	162.0	-24.9	-61.7	7.9	208	

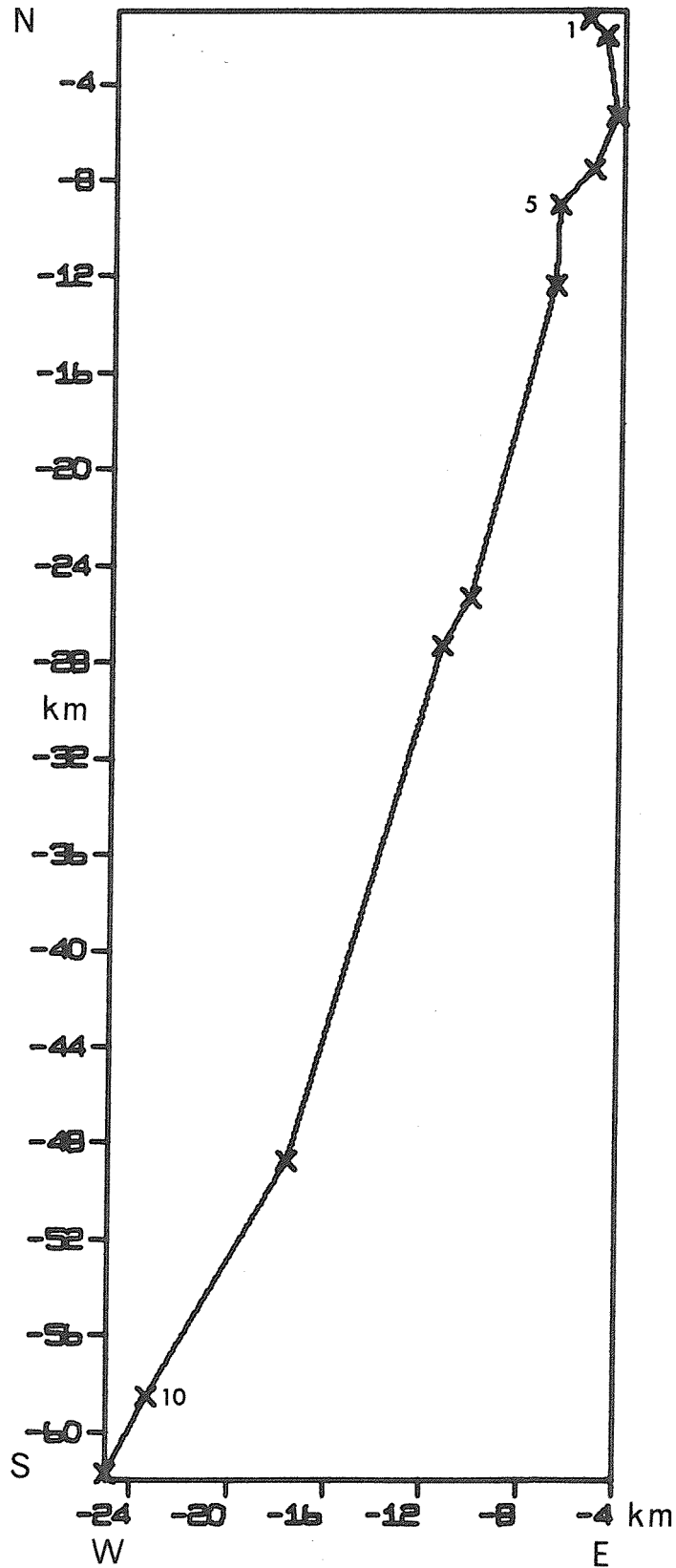
MEAN SPEED ALONG TRAJECTORY=11.4 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 11 =11.1 CM/SEC 198 DEGREES TRUE

SERIAL NO = 281

FLOAT DESIGNATION = 3

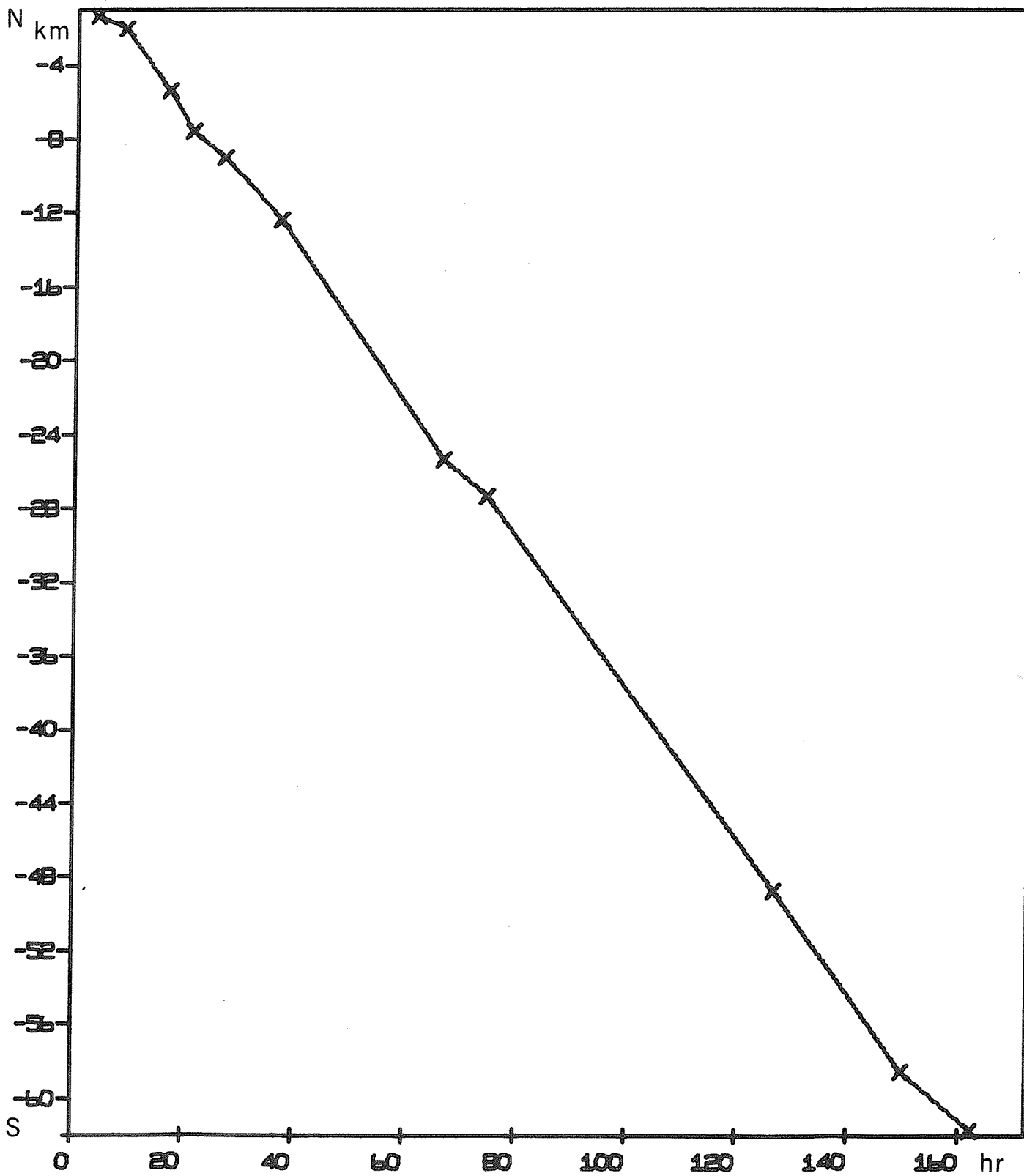
DATE AND TIME LAID = 23.5/9.5.73



SERIAL NO = 281

FLOAT DESIGNATION = 3

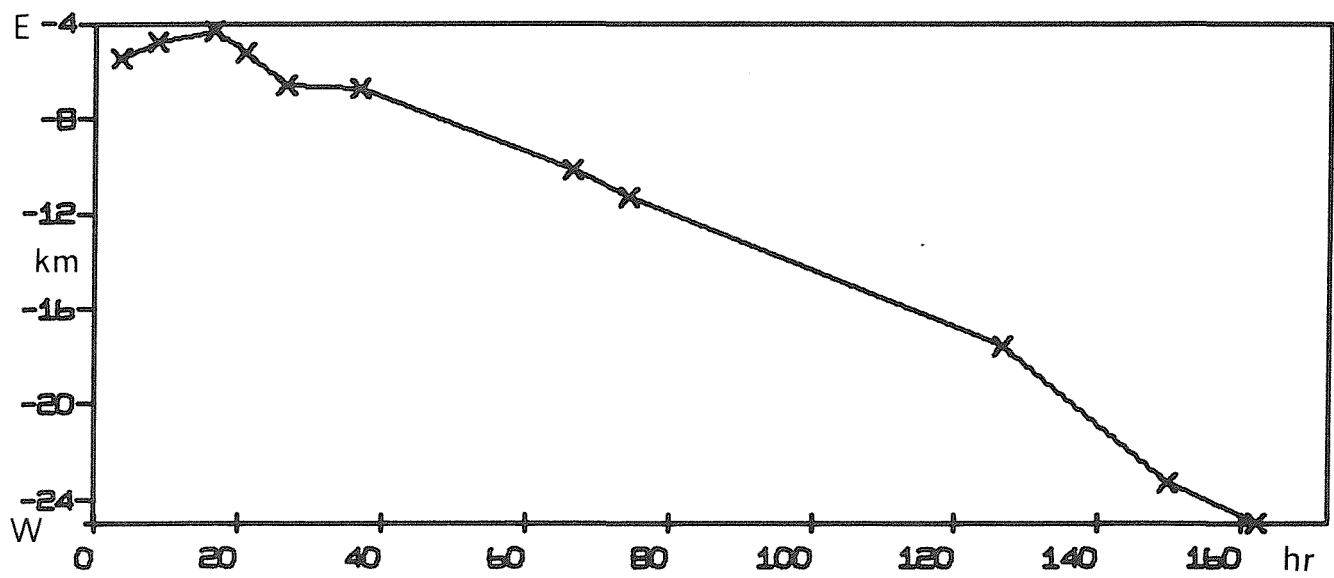
DATE AND TIME LAID = 23.5/9.5.73



SERIAL NO = 281

FLOAT DESIGNATION = 3

DATE AND TIME LAID = 23.5/9.5.73



SERIAL NO= 282

FLOAT DESIGNATION= 8

DATE AND TIME LAID= 17.2/10. 5.73

POSITION LAID= 28 2.2N 68 25.0W DISPLACEMENT ORIGIN= 28 2.0N
(0.0KM E 0.3KM N) 68 25.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
4000 3790 20

FIX NO	DATE	TIME GMT	FIX LAT.N	POSITION LONG.W	HOURS SINCE LAID	DISPLACEMENT (KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	11. 5	7.5	28 1.5	68 25.8	14.3	-1.3	-0.9		
2	11. 5	20.5	28 0.8	68 26.2	27.3	-2.0	-2.2	3.1	207
* 3	12. 5	10.4	27 59.7	68 26.8	41.2	-3.0	-4.2	4.5	206
4	12. 5	22.5	27 58.7	68 27.5	53.3	-4.1	-6.1	5.0	212
5	13. 5	16.9	27 58.0	68 29.3	71.7	-7.0	-7.4	4.9	246
* 6	14. 5	23.6	27 57.3	68 31.3	102.4	-10.3	-8.7	3.2	248
7	15. 5	5.9	27 57.2	68 31.8	108.7	-11.1	-8.9	3.7	257
* 8	15. 5	15.5	27 57.4	68 32.3	118.3	-12.0	-8.5	2.6	294
9	16. 5	1.4	27 57.6	68 32.3	128.2	-12.0	-8.1	1.0	0
* 10	16. 5	13.6	27 57.5	68 32.7	140.4	-12.6	-8.3	1.6	254
* 11	17. 5	15.5	27 56.8	68 32.1	166.3	-11.6	-9.6	1.7	143
12	18. 5	2.7	27 56.3	68 31.9	177.5	-11.3	-10.5	2.4	160
* 13	18. 5	18.0	27 55.5	68 32.2	192.8	-11.8	-12.0	2.8	198
* 14	19. 5	16.2	27 54.6	68 33.0	215.0	-13.1	-13.7	2.7	218
15	20. 5	8.4	27 54.3	68 33.6	231.2	-14.1	-14.2	1.9	241
16	20. 5	21.6	27 54.2	68 34.5	244.4	-15.6	-14.4	3.1	263
* 17	21. 5	4.5	27 54.7	68 34.9	251.3	-16.2	-13.5	4.6	325
* 18	22. 5	2.3	27 55.5	68 35.4	273.1	-17.1	-12.0	2.2	331
19	22. 5	19.0	27 56.2	68 35.6	289.8	-17.4	-10.7	2.2	346
* 20	23. 5	5.6	27 57.1	68 35.3	300.4	-16.9	-9.1	4.5	16
21	24. 5	4.5	27 58.1	68 34.6	323.3	-15.7	-7.2	2.6	32
22	24. 5	22.9	27 58.6	68 34.1	341.7	-14.9	-6.3	1.9	42
23	25. 5	4.9	27 58.8	68 33.7	347.7	-14.3	-5.9	3.5	61
24	26. 5	11.3	27 58.7	68 33.3	378.1	-13.6	-6.1	0.6	106
25	27. 5	4.8	27 59.3	68 33.9	395.6	-14.6	-5.0	2.4	318
* 26	27. 5	17.0	27 59.6	68 34.4	407.8	-15.4	-4.4	2.3	304

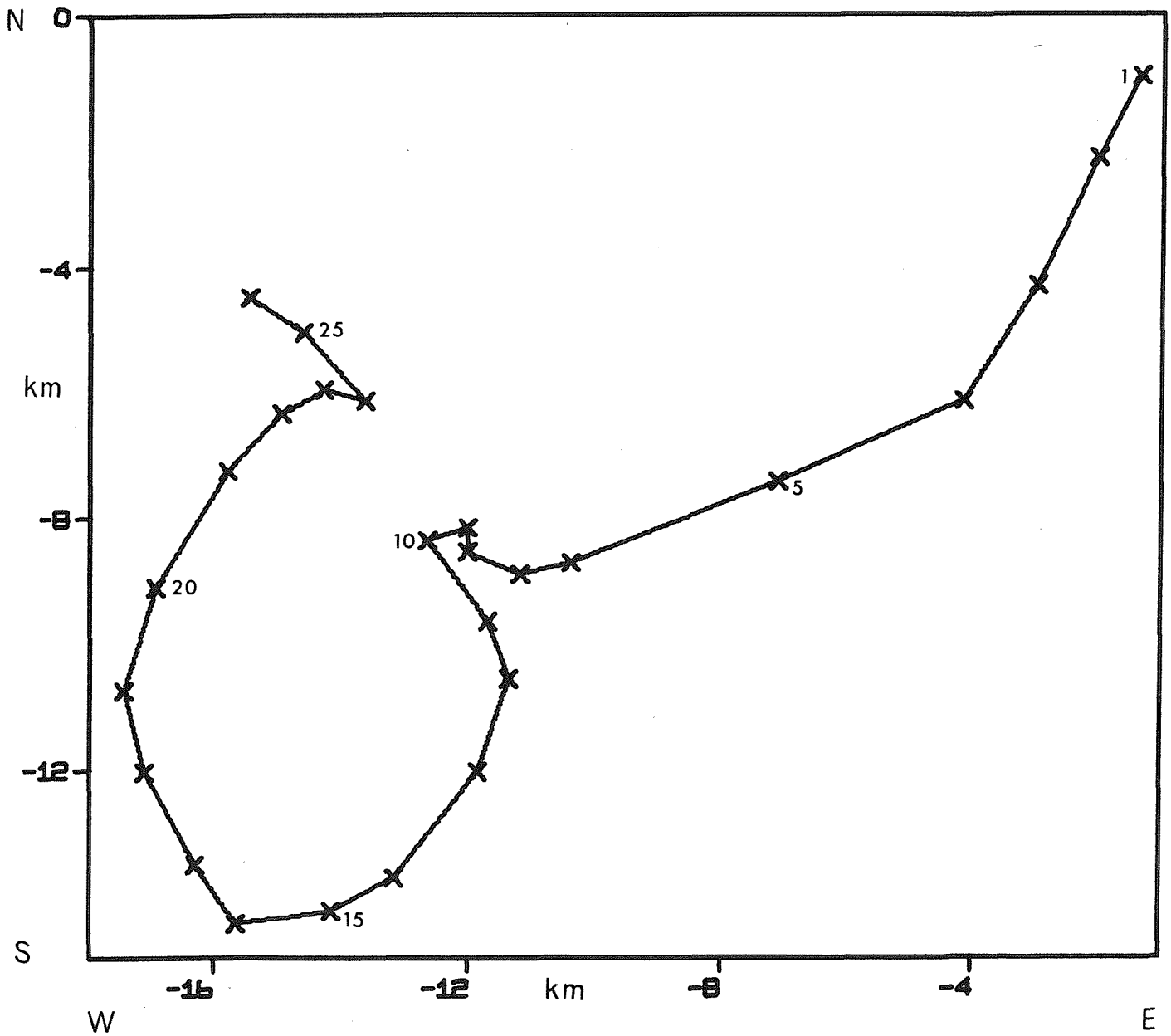
MEAN SPEED ALONG TRAJECTORY= 2.7 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 26 = 1.0 CM/SEC 256 DEGREES TRUE

SERIAL NO = 282

FLOAT DESIGNATION = 8

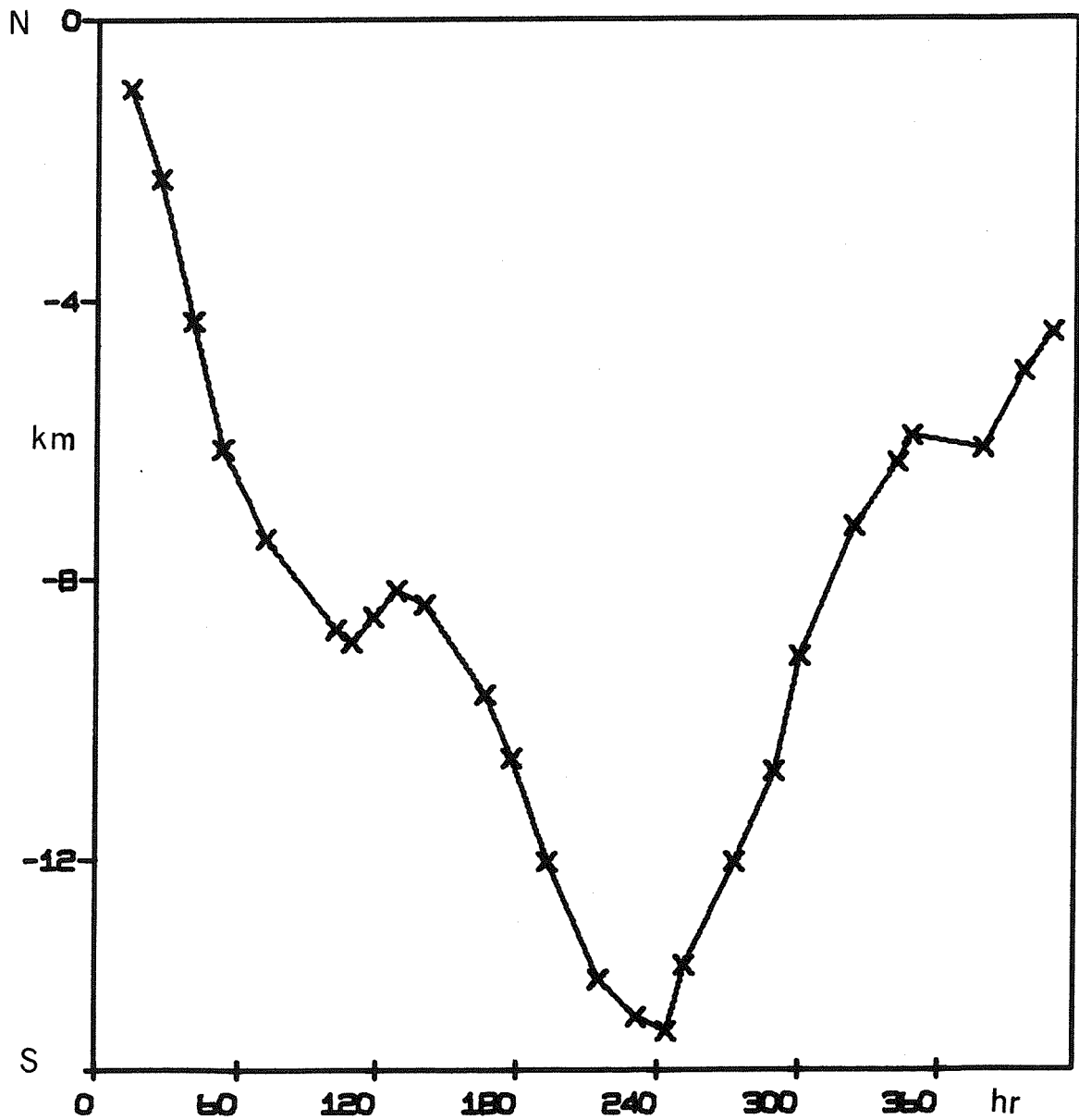
DATE AND TIME LAID = 17.2/10.5.73



SERIAL NO = 282

FLOAT DESIGNATION = 8

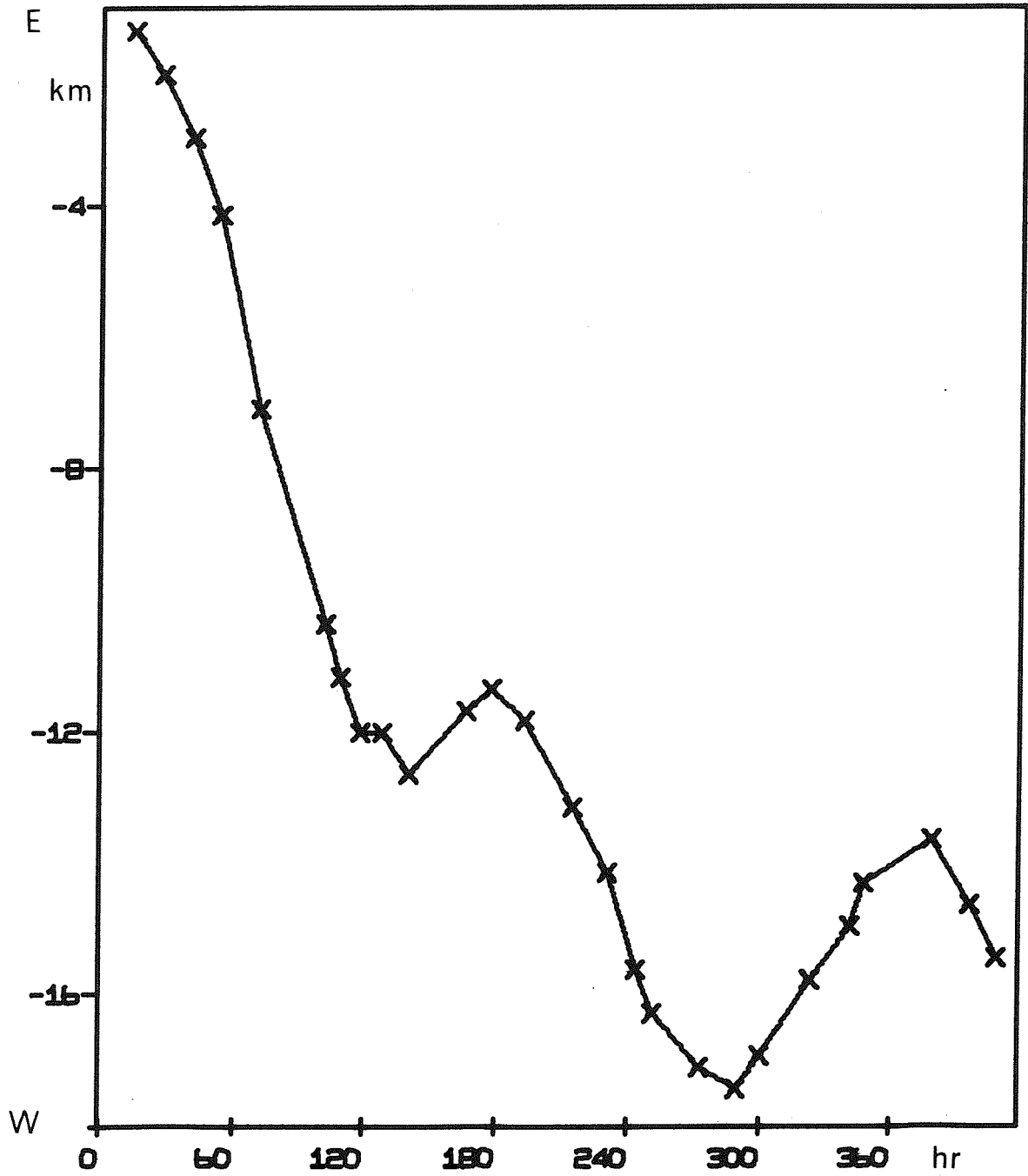
DATE AND TIME LAID = 17.2/10.5.73



SERIAL NO = 282

FLOAT DESIGNATION = 8

DATE AND TIME LAID = 17.2/10.5.73



FL0AT DESIGNATION= 6

DATE AND TIME LAID= 17.3/10. 5.73

POSITION LAID= 28 2.3N 68 25.0W DISPLACEMENT ORIGIN= 28 2.0N
(0.0KM E 0.5KM N) 68 25.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
3000 2960 20

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		T
			LAT.N	LONG.W		+E-W X	+N-S Y	CM/SEC		
	1	11. 5	4.8	28 2.1	68 25.7	11.5	-1.1	0.2		
*	2	12. 5	10.6	28 2.3	68 27.6	41.3	-4.3	0.6	2.9	277
	3	12. 5	17.7	28 2.3	68 28.2	48.4	-5.2	0.6	3.8	270
*	4	13. 5	3.6	28 2.4	68 28.4	58.3	-5.6	0.7	1.1	299
	5	14. 5	9.5	28 2.4	68 30.3	88.2	-8.7	0.7	2.9	270
*	6	14. 5	22.9	28 2.7	68 31.3	101.6	-10.3	1.3	3.6	289
	7	15. 5	7.4	28 2.5	68 31.9	110.1	-11.3	0.9	3.4	249
*	8	15. 5	14.8	28 2.6	68 32.4	117.5	-12.1	1.1	3.2	283
	9	16. 5	5.0	28 2.6	68 32.9	131.7	-12.9	1.1	1.6	270
*	10	17. 5	15.7	28 3.1	68 34.3	166.4	-15.2	2.0	2.0	292
	11	18. 5	12.3	28 3.1	68 34.9	187.0	-16.2	2.0	1.3	270
*	12	19. 5	15.8	28 3.8	68 35.4	214.5	-17.0	3.3	1.5	328
	13	20. 5	14.2	28 4.0	68 35.5	236.9	-17.2	3.7	0.5	336
	14	21. 5	0.5	28 4.0	68 35.7	247.2	-17.5	3.7	0.9	270
*	15	21. 5	7.3	28 4.2	68 36.0	254.0	-18.0	4.1	2.5	307
*	16	22. 5	1.5	28 4.7	68 36.0	272.2	-18.0	5.0	1.4	0
	17	23. 5	0.6	28 5.0	68 36.5	295.3	-18.8	5.5	1.2	304
*	18	23. 5	9.7	28 5.1	68 36.9	304.4	-19.5	5.7	2.1	286
	19	24. 5	10.5	28 6.2	68 37.3	329.2	-20.2	7.8	2.4	342
	20	25. 5	3.1	28 6.7	68 37.1	345.8	-19.8	8.7	1.6	20
	21	26. 5	9.0	28 8.0	68 37.7	375.7	-20.8	11.1	2.4	338
*	22	26. 5	20.9	28 8.6	68 37.8	387.6	-21.0	12.2	2.6	352

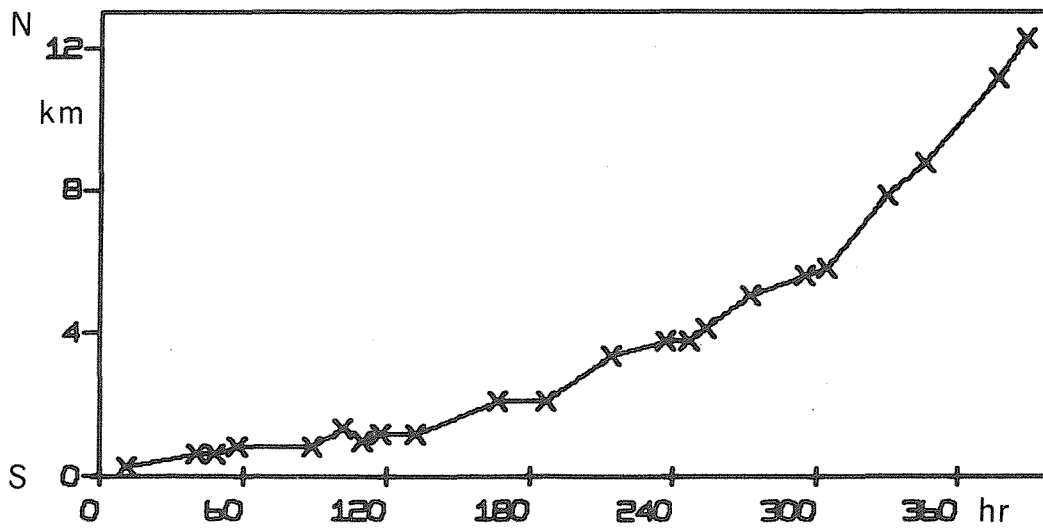
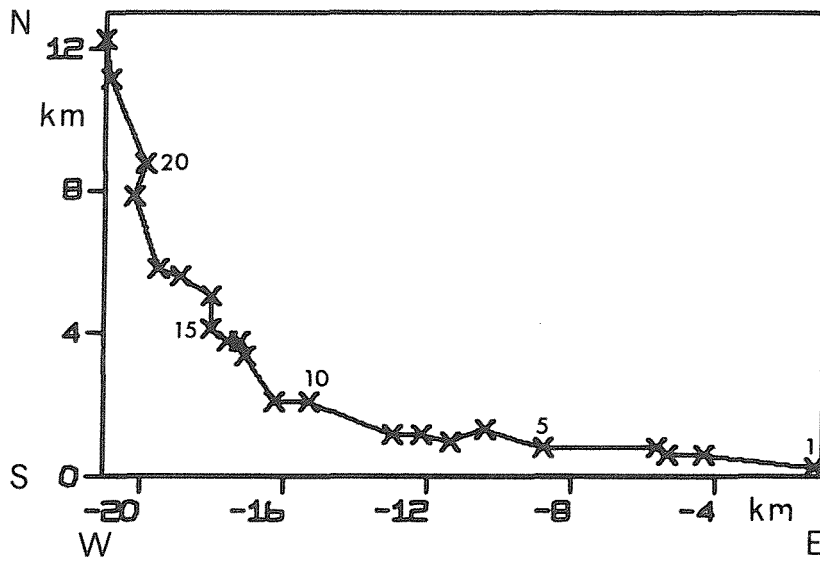
MEAN SPEED ALONG TRAJECTORY= 2.1 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 22 = 1.7 CM/SEC 301 DEGREES TRUE

SERIAL NO = 283

FLOAT DESIGNATION = 6

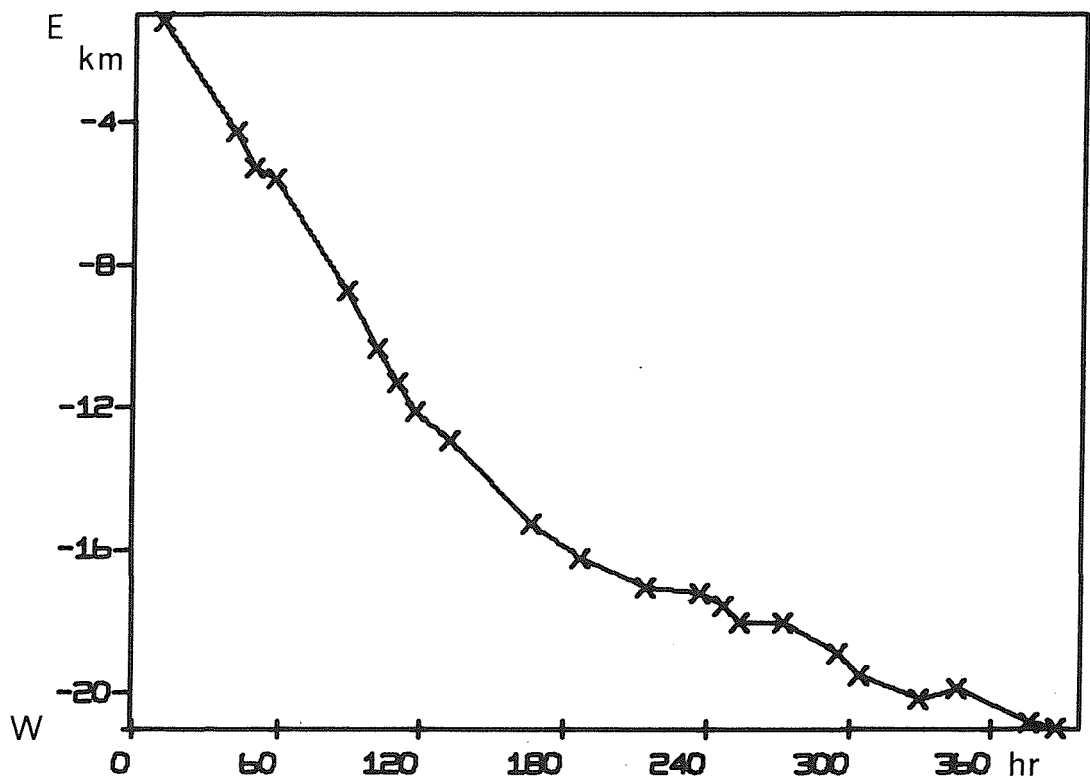
DATE AND TIME LAID = 17.3/10.5.73



SERIAL NO = 283

FLOAT DESIGNATION = 6

DATE AND TIME LAID = 17.3/10.5.73



SERIAL NO= 284

FLOAT DESIGNATION= 10

DATE AND TIME LAID= 10.7/12. 5.73

POSITION LAID= 28 2.0N 68 26.2W DISPLACEMENT ORIGIN= 28 2.0N
(-1.9KM E 0.0KM N) 68 25.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
1500 1530 20

FIX NO	DATE		TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT (KM)		VELOCITIES BETWEEN FIXES		T
				LAT. N	LONG. W		+E-W X	+N-S Y	CM/SEC		
*	1	12.	5	14.9	28 1.7	68 26.3	4.2	-2.1	-0.6		
	2	13.	5	7.7	28 1.5	68 27.3	21.0	-3.8	-0.9	2.8	257
*	3	14.	5	23.2	28 0.2	68 29.0	60.5	-6.6	-3.3	2.6	229
	4	15.	5	7.4	28 0.0	68 29.4	68.7	-7.2	-3.7	2.6	241
*	5	15.	5	15.1	27 59.8	68 29.7	76.4	-7.7	-4.1	2.2	233
	6	16.	5	5.0	27 59.7	68 30.4	90.3	-8.9	-4.2	2.3	261
	7	16.	5	22.9	27 59.4	68 30.9	108.2	-9.7	-4.8	1.5	236
	8	17.	5	17.6	27 58.8	68 31.3	126.9	-10.3	-5.9	1.9	211
	9	18.	5	19.7	27 58.4	68 32.7	153.0	-12.6	-6.6	2.6	252
*	10	19.	5	15.8	27 58.3	68 33.1	173.1	-13.3	-6.8	0.9	254
	11	20.	5	1.7	27 58.5	68 33.0	183.0	-13.1	-6.5	1.1	24
	12	20.	5	14.2	27 58.4	68 33.4	195.5	-13.8	-6.6	1.5	254
*	13	21.	5	5.0	27 58.4	68 33.9	210.3	-14.6	-6.6	1.5	270
	14	21.	5	20.4	27 58.5	68 34.0	225.7	-14.8	-6.5	0.4	318
*	15	22.	5	1.6	27 58.4	68 34.2	230.9	-15.1	-6.6	2.0	241
*	16	23.	5	5.9	27 58.9	68 34.7	259.2	-15.9	-5.7	1.2	318
*	17	23.	5	8.5	27 58.9	68 34.4	261.8	-15.4	-5.7	5.3	90
	18	24.	5	10.5	27 59.3	68 35.0	287.8	-16.4	-5.0	1.3	307
	19	25.	5	0.6	27 59.6	68 34.9	301.9	-16.2	-4.4	1.1	16
	20	25.	5	7.3	27 59.4	68 35.4	308.6	-17.0	-4.8	3.7	246
	21	26.	5	8.3	28 0.9	68 35.6	333.6	-17.4	-2.0	3.1	353
	22	26.	5	23.8	28 0.6	68 36.0	349.1	-18.0	-2.6	1.5	230
*	23	27.	5	16.4	28 2.0	68 35.6	365.7	-17.4	0.0	4.5	14

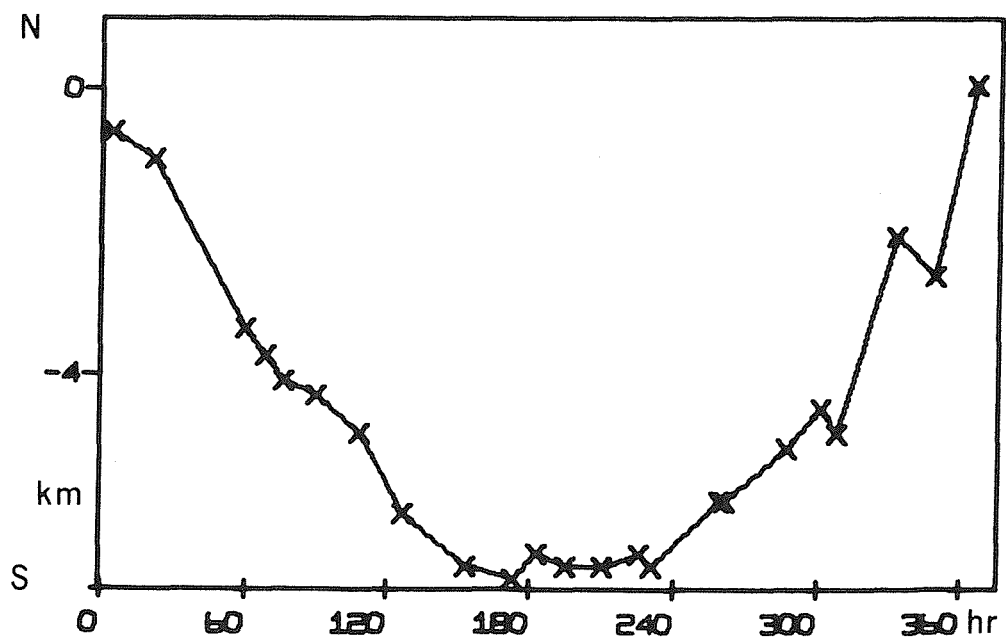
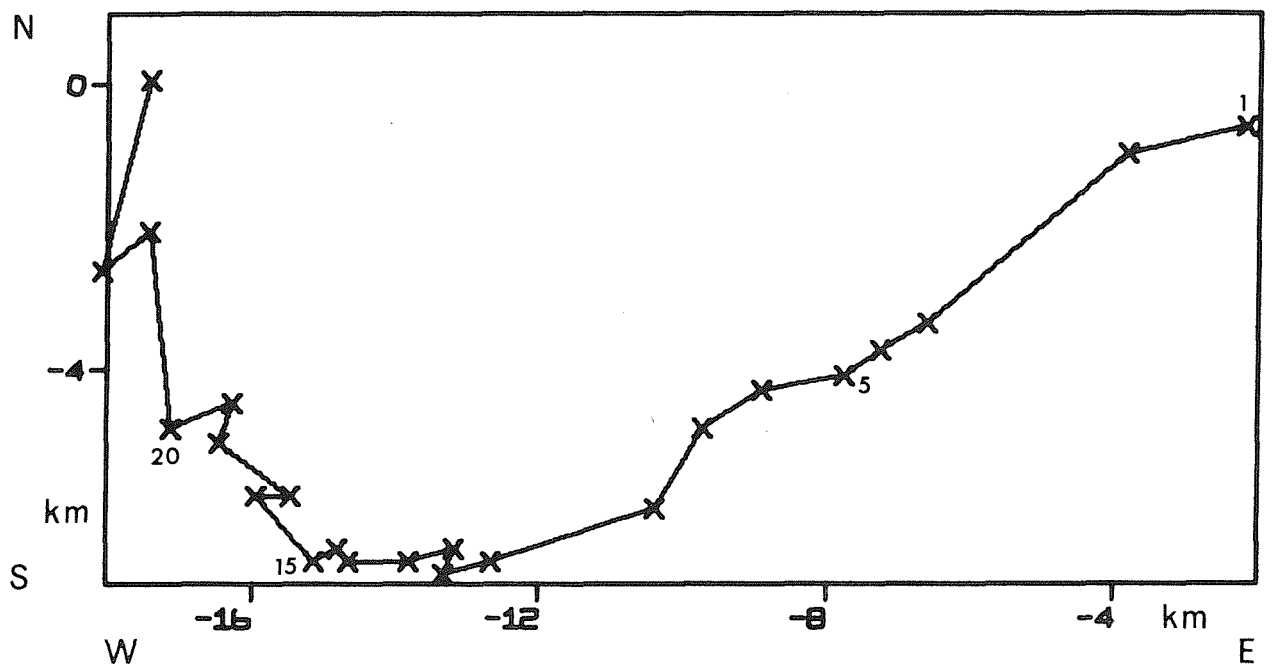
MEAN SPEED ALONG TRAJECTORY= 2.0 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 23 = 1.2 CM/SEC 272 DEGREES TRUE

SERIAL NO = 284

FLOAT DESIGNATION = 10

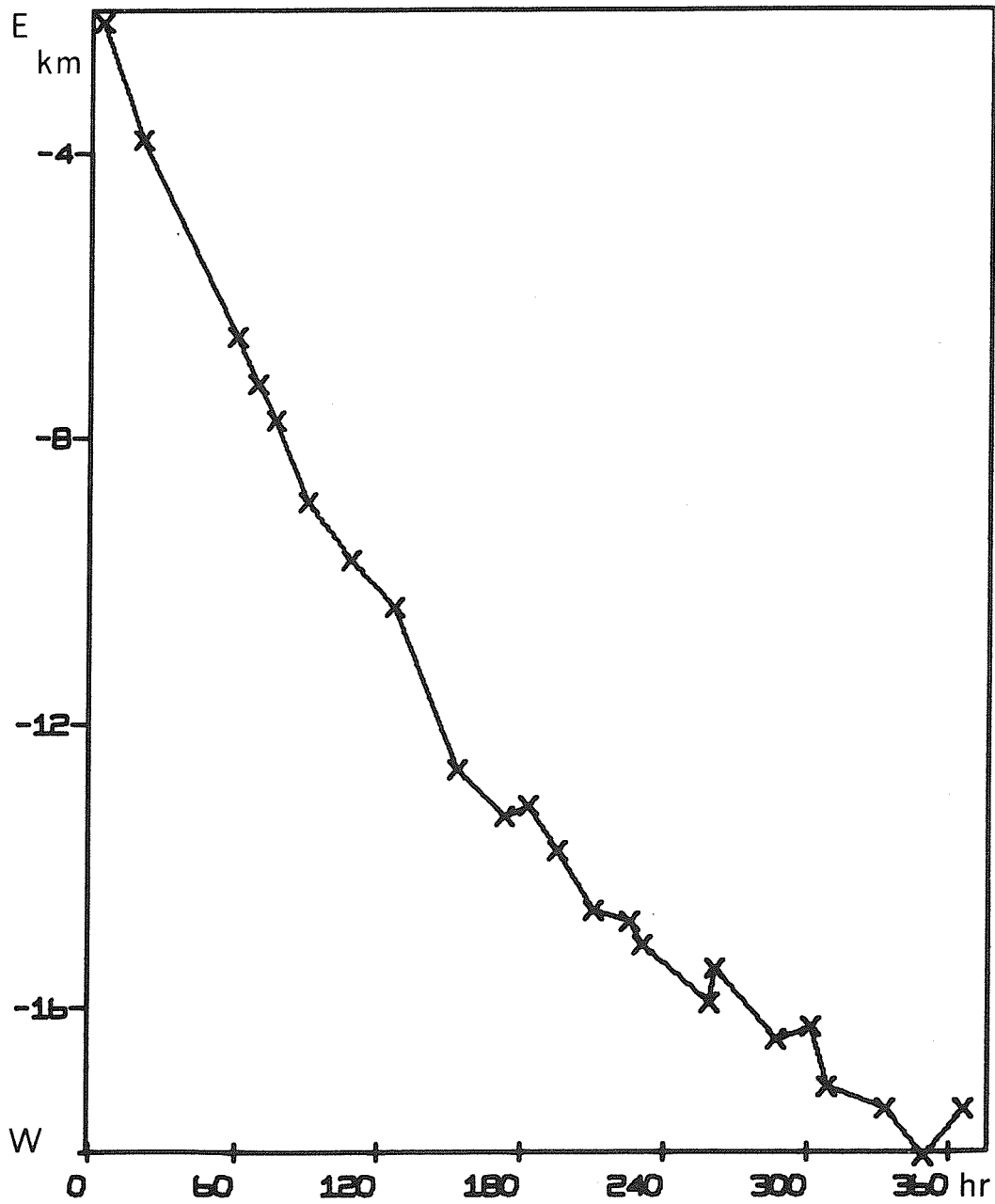
DATE AND TIME LAID = 10.7/12.5.73



SERIAL NO = 284

FLOAT DESIGNATION = 10

DATE AND TIME LAID = 10.7/12.5.73



SERIAL NO= 285

FLOAT DESIGNATION= 18

DATE AND TIME LAID= 22.0/15. 5.73

POSITION LAID= 27 59.8M 68 10.1W DISPLACEMENT ORIGIN= 28 0.0N
(-0.1KM E -0.3KM N) 68 10.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
4000 3750 10

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		CM/SEC	T
			LAT.N	LONG.W		+E-W X	+N-S Y				
1	16.	5	27 59.5	68 10.1	4.7	-0.2	-0.9				
2	16.	5	27 58.8	68 9.7	11.1	0.5	-2.2	6.3	153		
* 3	17.	5	27 56.9	68 8.8	48.7	2.0	-5.7	2.8	157		
* 4	19.	5	27 55.8	68 7.9	76.9	3.4	-7.8	2.5	144		
* 5	19.	5	27 55.4	68 7.6	86.6	3.9	-8.5	2.5	146		
6	20.	5	27 54.8	68 7.1	106.4	4.8	-9.6	1.9	143		
* 7	20.	5	27 54.9	68 6.7	109.8	5.4	-9.4	5.6	74		
8	20.	5	27 54.6	68 6.6	118.5	5.6	-10.0	1.8	164		
* 9	21.	5	27 54.7	68 5.9	134.7	6.7	-9.8	2.0	81		
* 10	23.	5	27 55.5	68 3.7	190.2	10.3	-8.3	2.0	68		
11	25.	5	27 56.3	68 2.6	224.2	12.1	-6.8	1.9	51		
12	26.	5	27 56.8	68 1.1	243.5	14.6	-5.9	3.8	69		
13	29.	5	27 59.1	67 58.1	316.7	19.5	-1.7	2.5	49		
* 14	29.	5	27 59.6	67 57.7	329.7	20.2	-0.7	2.4	35		

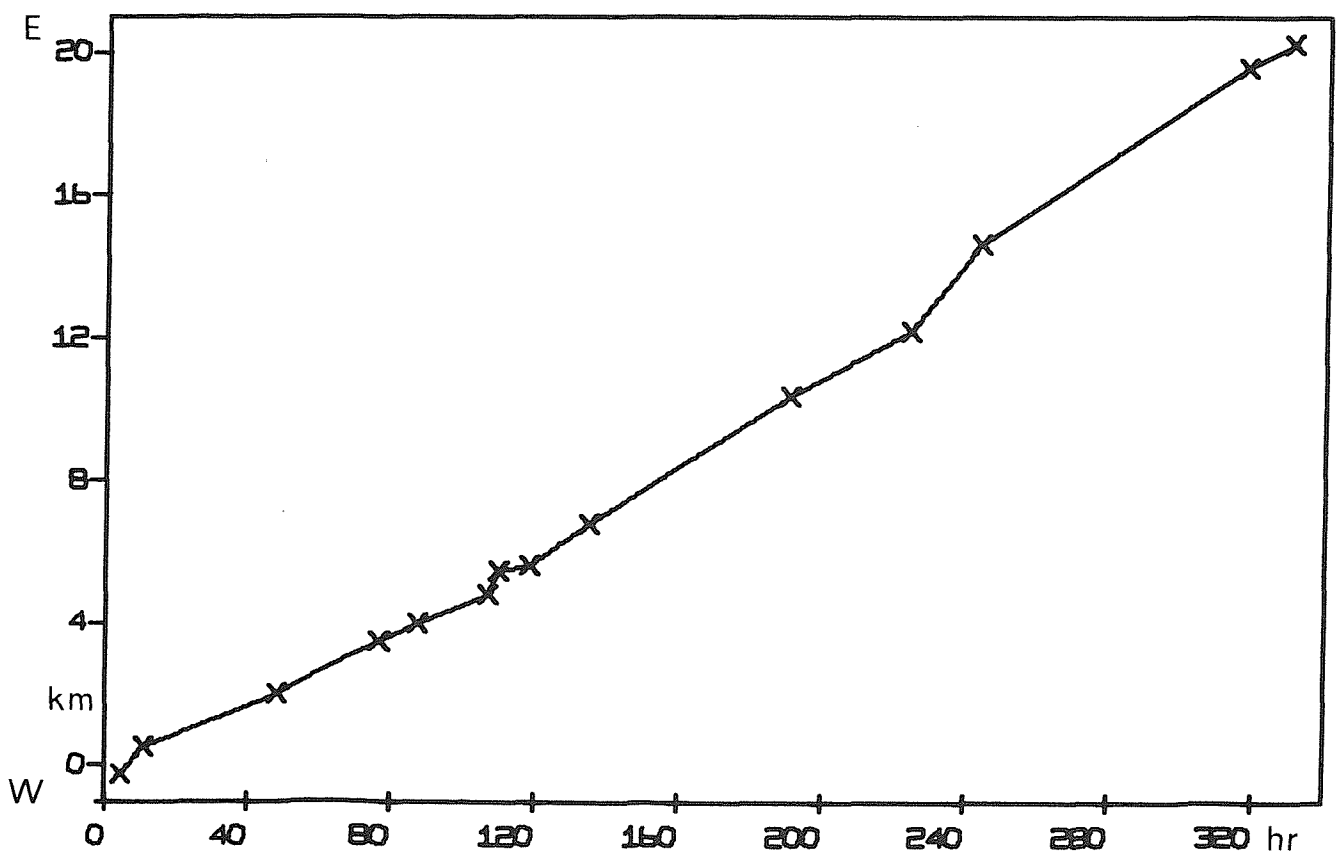
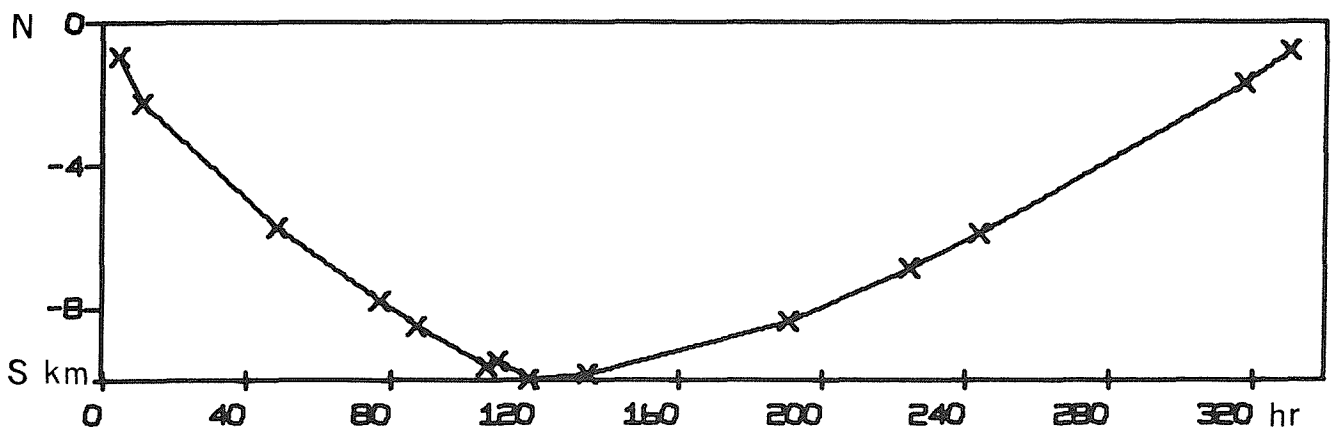
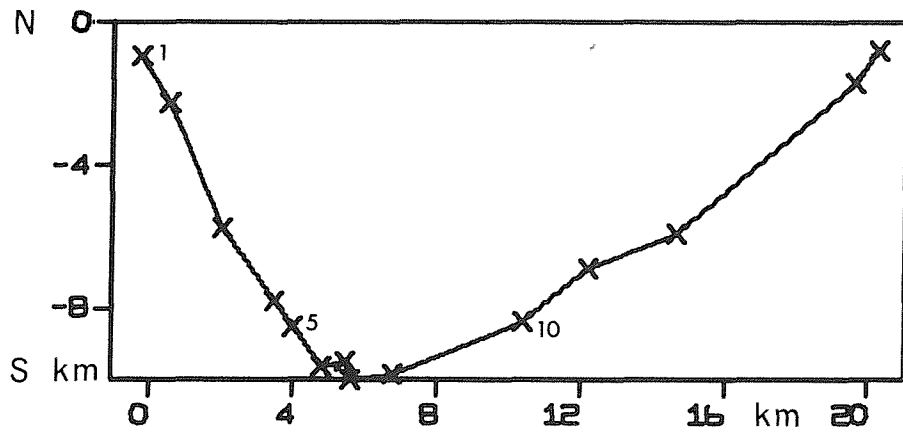
MEAN SPEED ALONG TRAJECTORY= 2.5 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 14 = 1.7 CM/SEC 89 DEGREES TRUE

SERIAL NO = 285

FLOAT DESIGNATION = 18

DATE AND TIME LAID = 22.0/15.5.73



SERIAL NO= 286

FLOAT DESIGNATION= 11B

DATE AND TIME LAID= 22.1/15. 5.73

POSITION LAID= 27 59.8N 68 10.1W DISPLACEMENT ORIGIN= 28 0.0N
(-0.1KM E -0.3KM N) 68 10.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
3000 2830 70

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		CM/SEC	T
			LAT.N	LONG.W		+E-W X	+N-S Y				
	1	16. 5	2.8	27 59.3	68 9.9	4.7	0.2	-1.3			
	2	16. 5	9.1	27 58.6	68 9.2	11.0	1.3	-2.6	7.6	138	
*	3	17. 5	23.8	27 55.3	68 5.2	49.7	7.9	-8.7	6.4	133	
	4	18. 5	19.7	27 54.4	68 2.4	69.6	12.5	-10.3	6.8	110	
*	5	19. 5	12.2	27 53.9	67 59.7	86.1	16.9	-11.3	7.6	102	
*	6	20. 5	12.8	27 53.7	67 55.4	110.7	24.0	-11.6	8.0	93	
	7	20. 5	21.6	27 54.0	67 53.9	119.5	26.4	-11.1	8.0	77	
*	8	21. 5	14.0	27 54.5	67 50.7	135.9	31.7	-10.2	9.0	80	
*	9	23. 5	17.9	27 57.9	67 39.4	187.8	50.2	-3.9	10.5	71	
	10	26. 5	1.5	28 1.8	67 28.9	243.4	67.4	3.3	9.3	67	
*	11	29. 5	23.0	28 2.8	67 17.4	336.9	86.3	5.2	5.6	84	

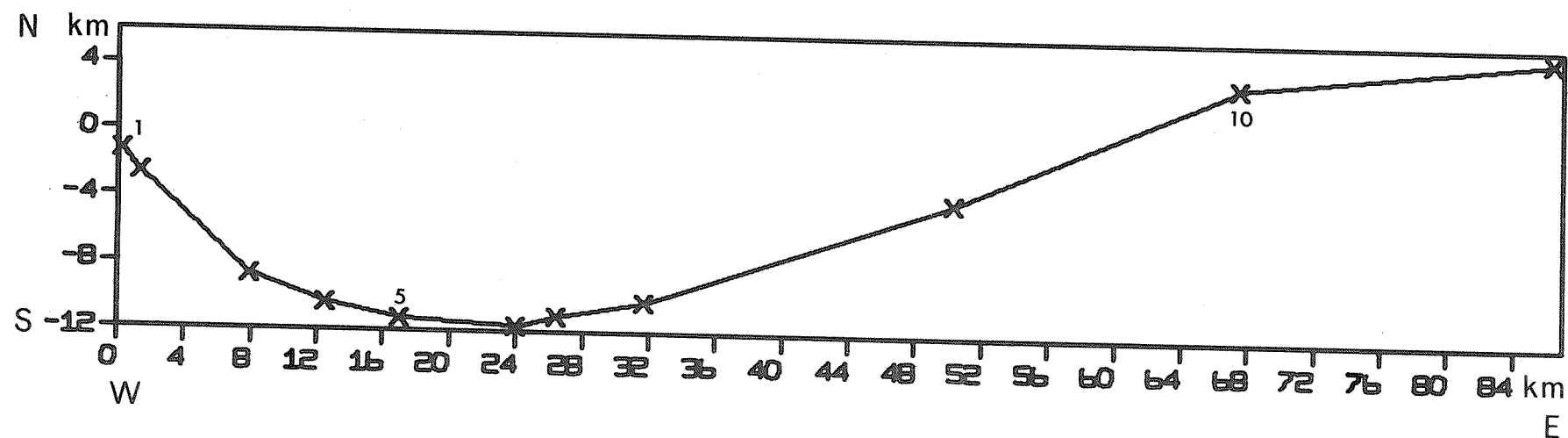
MEAN SPEED ALONG TRAJECTORY= 7.7 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 11 = 7.2 CM/SEC 86 DEGREES TRUE

FLOAT DESIGNATION = 11B

SERIAL NO = 286

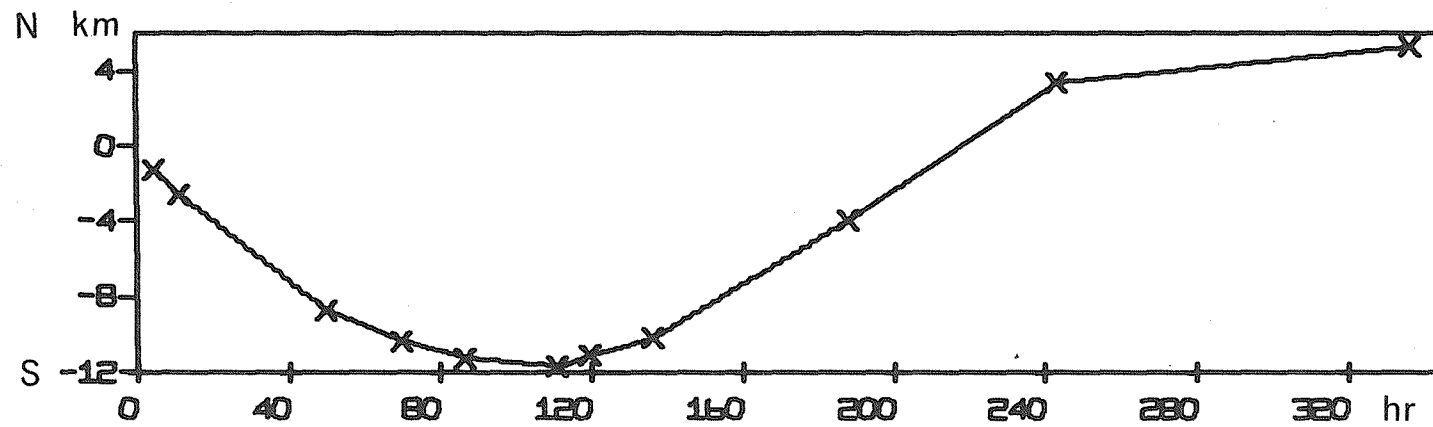
DATE AND TIME LAID = 22.1/15.5.73



SERIAL NO = 286

FLOAT DESIGNATION = 11B

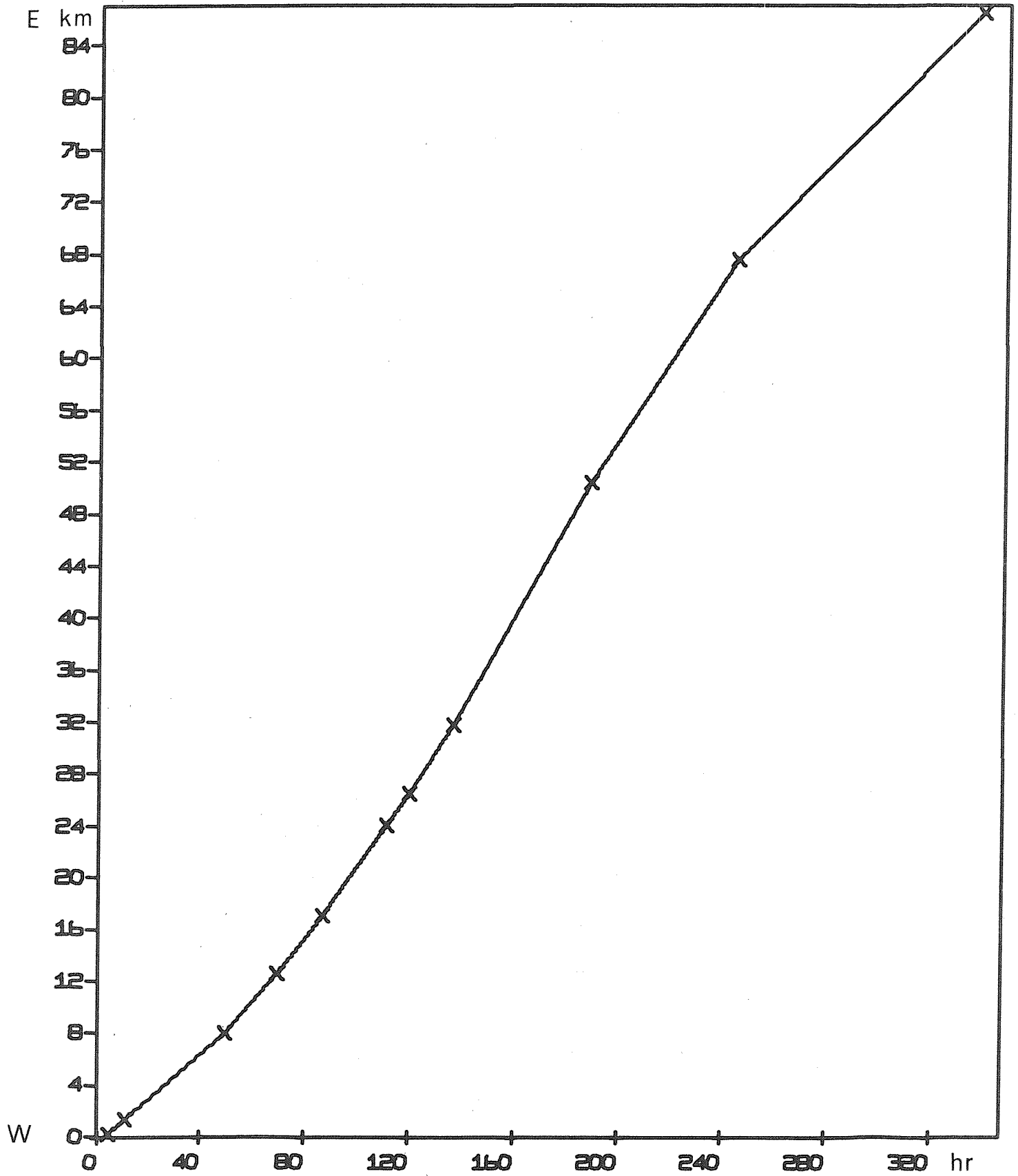
DATE AND TIME LAID = 22.1/15.5.73



SERIAL NO = 286

FLOAT DESIGNATION = 11B

DATE AND TIME LAID = 22.1/15.5.73



SERIAL NO= 287

FLOAT DESIGNATION= 3

DATE AND TIME LAID= 16.5/17. 5.73

POSITION LAID= 28 8.0N 68 28.9W DISPLACEMENT ORIGIN= 28 8.0N
(1.8KM E 0.0KM N) 68 30.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
4500 4100 50

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		T
			LAT.N	LONG.W		+E-W X	+N-S Y	CM/SEC		
* 1	17. 5	20.7	28 7.8	68 28.9	4.2	1.8	-0.4			
2	18. 5	11.5	28 7.3	68 28.1	19.0	3.1	-1.3	3.0	125	
* 3	19. 5	15.0	28 6.6	68 26.5	46.5	5.7	-2.6	3.0	116	
4	20. 5	9.8	28 6.0	68 25.3	65.3	7.7	-3.7	3.3	119	
5	20. 5	21.1	28 6.1	68 24.6	76.6	8.8	-3.5	2.9	81	
6	21. 5	6.1	28 6.4	68 24.3	85.6	9.3	-3.0	2.3	42	
* 7	21. 5	10.8	28 6.5	68 23.7	90.3	10.3	-2.8	5.9	79	
* 8	22. 5	0.4	28 6.4	68 22.9	103.9	11.6	-3.0	2.7	98	
* 9	23. 5	10.9	28 7.1	68 20.6	138.4	15.4	-1.7	3.2	71	
10	25. 5	3.1	28 8.4	68 17.9	178.6	19.8	0.7	3.5	61	
11	26. 5	2.1	28 9.2	68 16.0	201.6	22.9	2.2	4.2	65	
12	27. 5	0.6	28 10.7	68 14.4	224.1	25.5	5.0	4.7	43	
13	28. 5	4.0	28 11.7	68 12.9	251.5	28.0	6.8	3.1	53	
14	29. 5	2.7	28 12.3	68 11.3	274.2	30.6	7.9	3.5	67	
* 15	29. 5	12.6	28 13.2	68 10.7	284.1	31.6	9.6	5.4	31	

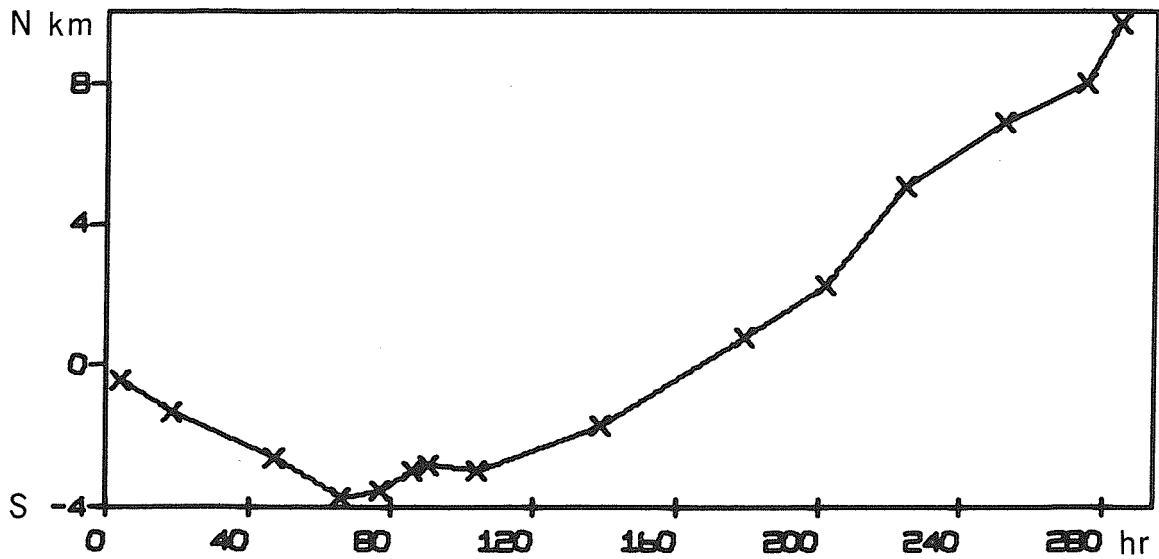
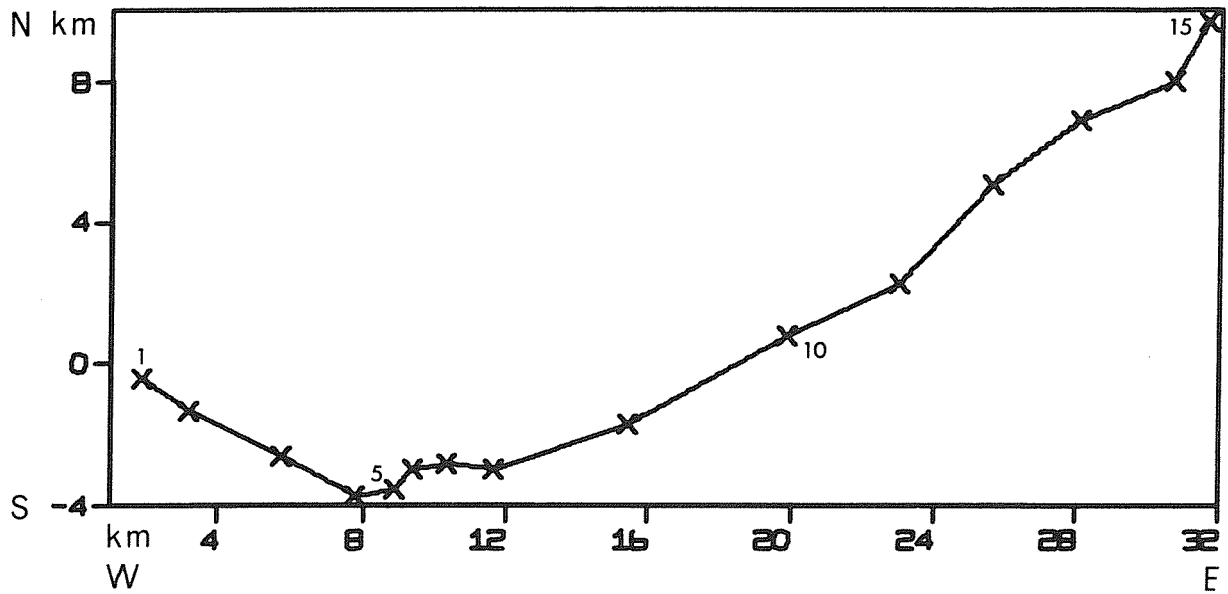
MEAN SPEED ALONG TRAJECTORY= 3.5 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 15 = 3.1 CM/SEC 71 DEGREES TRUE

SERIAL NO = 287

FLOAT DESIGNATION = 3

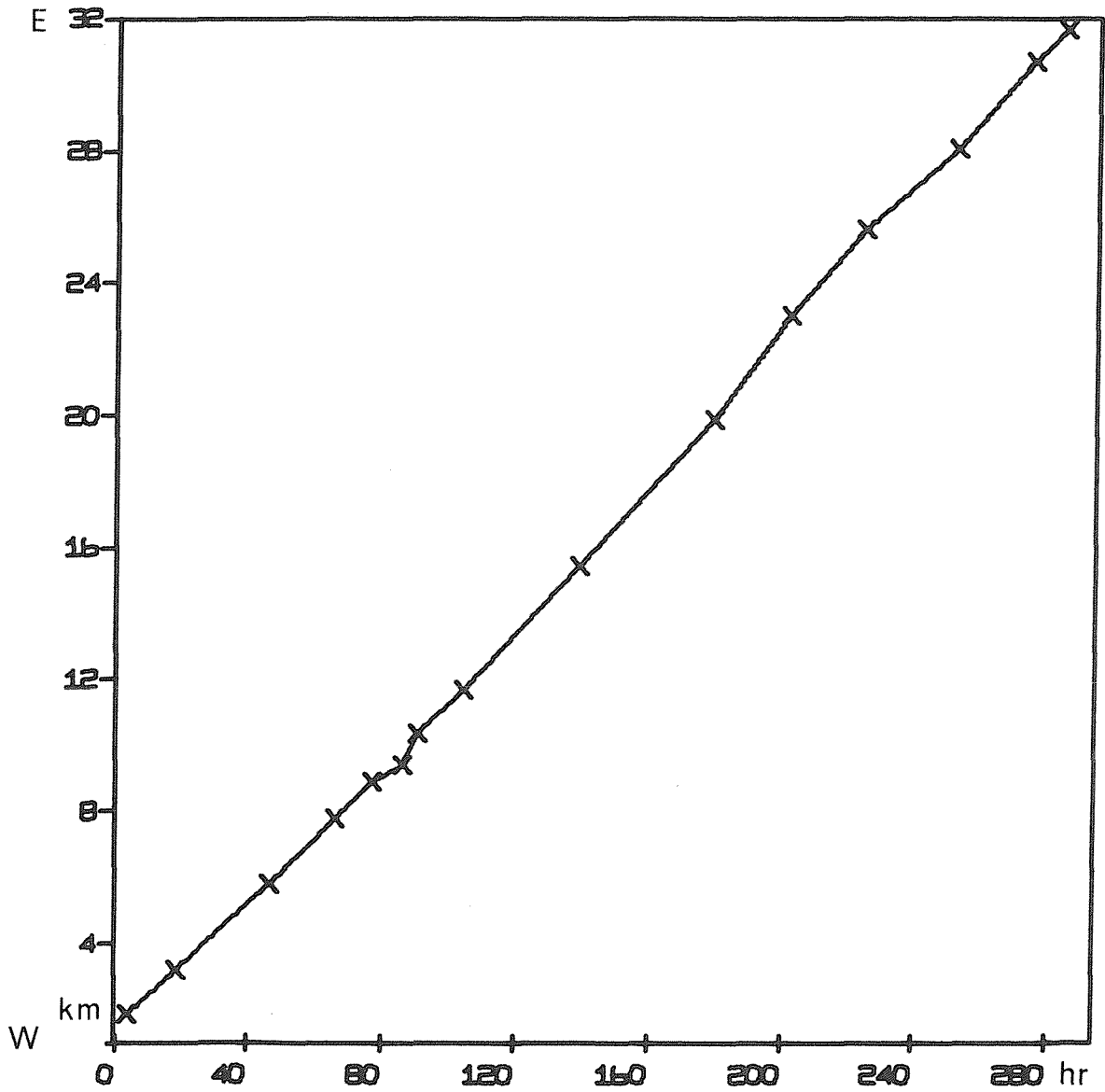
DATE AND TIME LAID = 16.5/17.5.73



SERIAL NO = 287

FLOAT DESIGNATION = 3

DATE AND TIME LAID = 16.5/17.5.73



SERIAL NO= 288

FLOAT DESIGNATION= 16A

DATE AND TIME LAID= 16.6/17. 5.73

POSITION LAID= 28 8.0N 68 28.9W DISPLACEMENT ORIGIN= 28 8.0N
(1.8KM E 0.0KM N) 68 30.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D.
500 580 50

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		CM/SEC	T
			LAT.N	LONG.W		+E-W X	+N-S Y				
*	1	17. 5	20.7	28 7.2	68 29.3	4.1	1.1	-1.5			
*	2	19. 5	15.5	28 3.6	68 32.3	46.9	-3.8	-8.1	5.4	216	
*	3	20. 5	3.9	28 1.5	68 34.0	59.3	-6.6	-12.0	10.7	216	
*	4	21. 5	5.3	28 0.2	68 36.3	84.7	-10.3	-14.4	4.9	238	
*	5	21. 5	9.5	28 0.0	68 36.0	88.9	-9.8	-14.8	4.1	127	
*	6	22. 5	2.0	27 58.4	68 38.3	105.4	-13.6	-17.7	8.1	232	
*	7	23. 5	5.5	27 56.2	68 40.5	132.9	-17.2	-21.8	5.5	222	
*	8	24. 5	17.2	27 53.5	68 45.1	168.6	-24.8	-26.8	7.0	237	
*	9	26. 5	17.8	27 49.0	68 53.1	217.2	-37.9	-35.1	8.9	238	

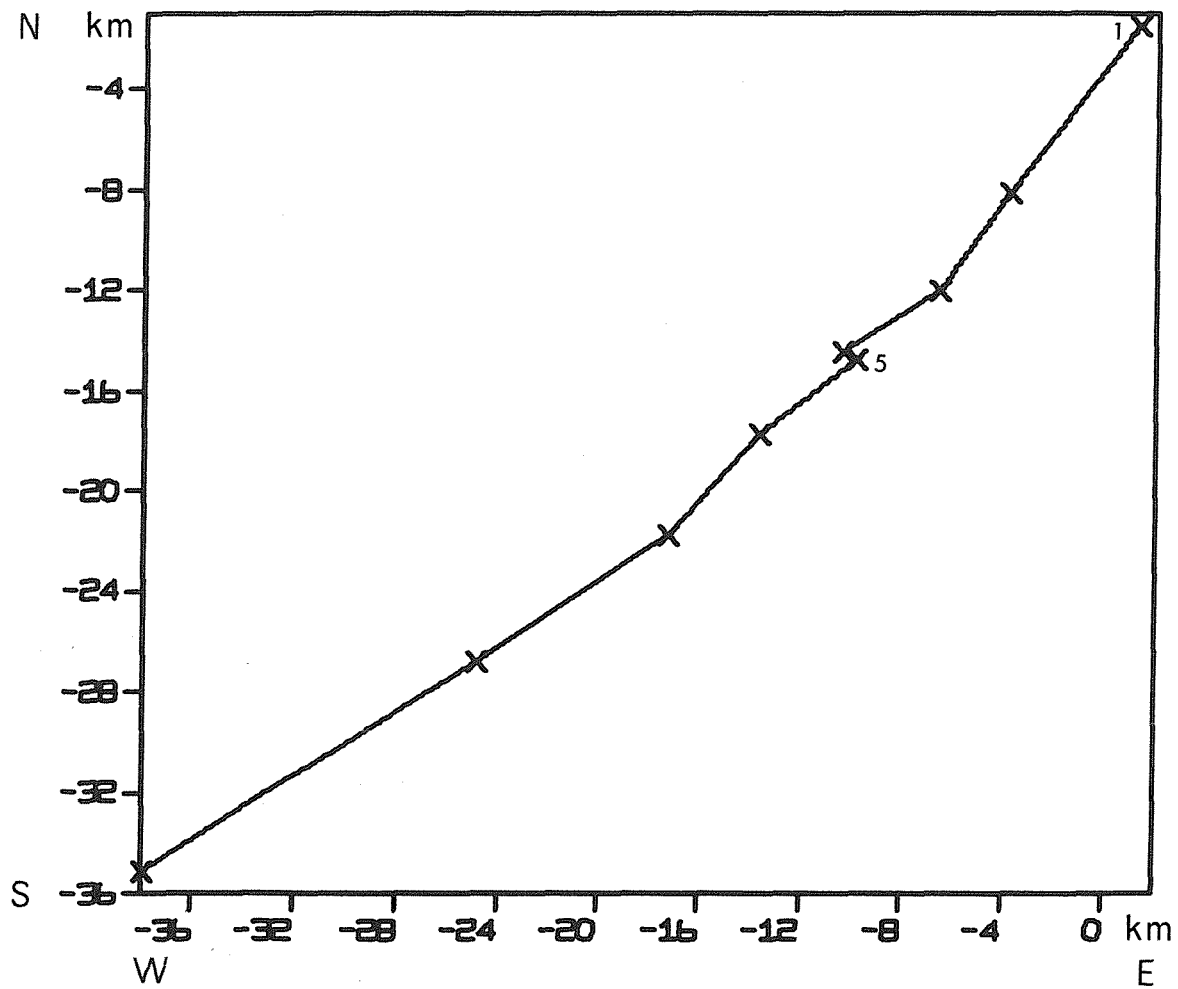
MEAN SPEED ALONG TRAJECTORY= 6.9 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 9 = 6.7 CM/SEC 229 DEGREES TRUE

SERIAL NO = 288

FLOAT DESIGNATION = 16A

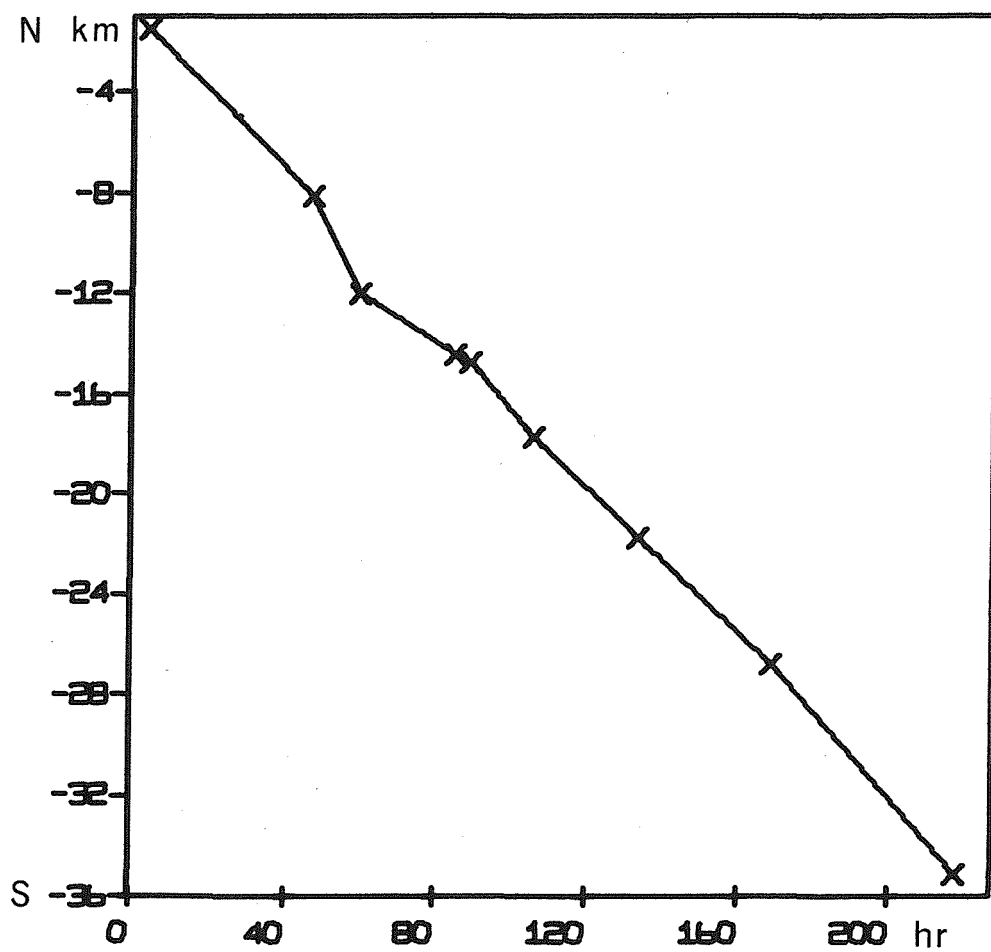
DATE AND TIME LAID = 16.6/17.5.73



SERIAL NO = 288

FLOAT DESIGNATION = 16A

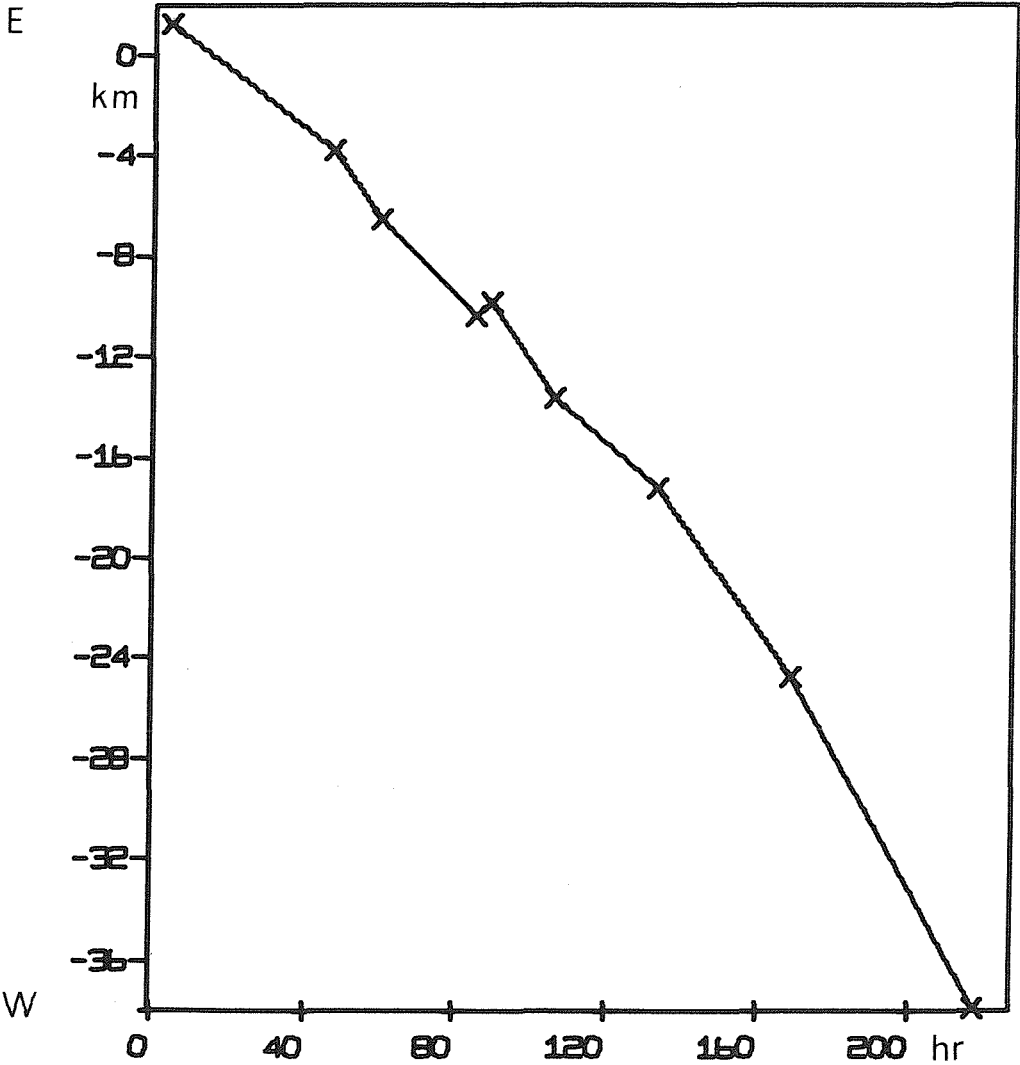
DATE AND TIME LAID = 16.6/17.5.73



SERIAL NO = 288

FLOAT DESIGNATION = 16A

DATE AND TIME LAID = 16.6/17.5.73



SERIAL NO= 289

FLOAT DESIGNATION= 12B

DATE AND TIME LAID= 3.7/19. 5.73

POSITION LAID= 27 59.9N 67 59.7W DISPLACEMENT ORIGIN= 28 0.0N
(16.8KM E -0.1KM N) 68 10.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
500 600 30

FIX NO	DATE	TIME GMT	FIX POSITION LAT.N	LONG.W	HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
* 1	19. 5	11.8	27 59.8	67 59.2	8.1	17.7	-0.4		
* 2	20. 5	12.4	27 58.1	67 57.7	32.7	20.2	-3.5	4.5	142
3	20. 5	20.5	27 57.6	67 56.3	40.8	22.5	-4.4	8.5	112
* 4	21. 5	15.4	27 57.0	67 55.5	59.7	23.8	-5.5	2.5	130
* 5	23. 5	18.7	27 56.6	67 51.1	111.0	31.0	-6.3	3.9	96
6	25. 5	8.4	27 56.8	67 46.9	148.7	37.9	-5.9	5.1	87
7	26. 5	8.3	27 57.6	67 44.1	172.6	42.5	-4.4	5.6	72
* 8	29. 5	20.8	27 58.2	67 35.6	257.1	56.4	-3.3	4.6	85

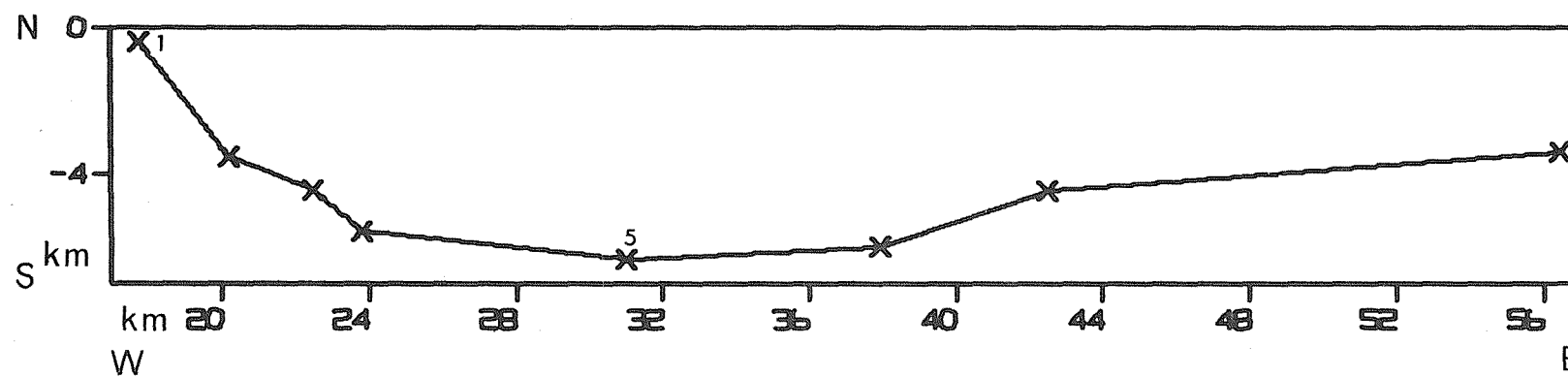
MEAN SPEED ALONG TRAJECTORY= 4.6 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 8 = 4.3 CM/SEC 94 DEGREES TRUE

SERIAL NO = 289

FLOAT DESIGNATION = 12B

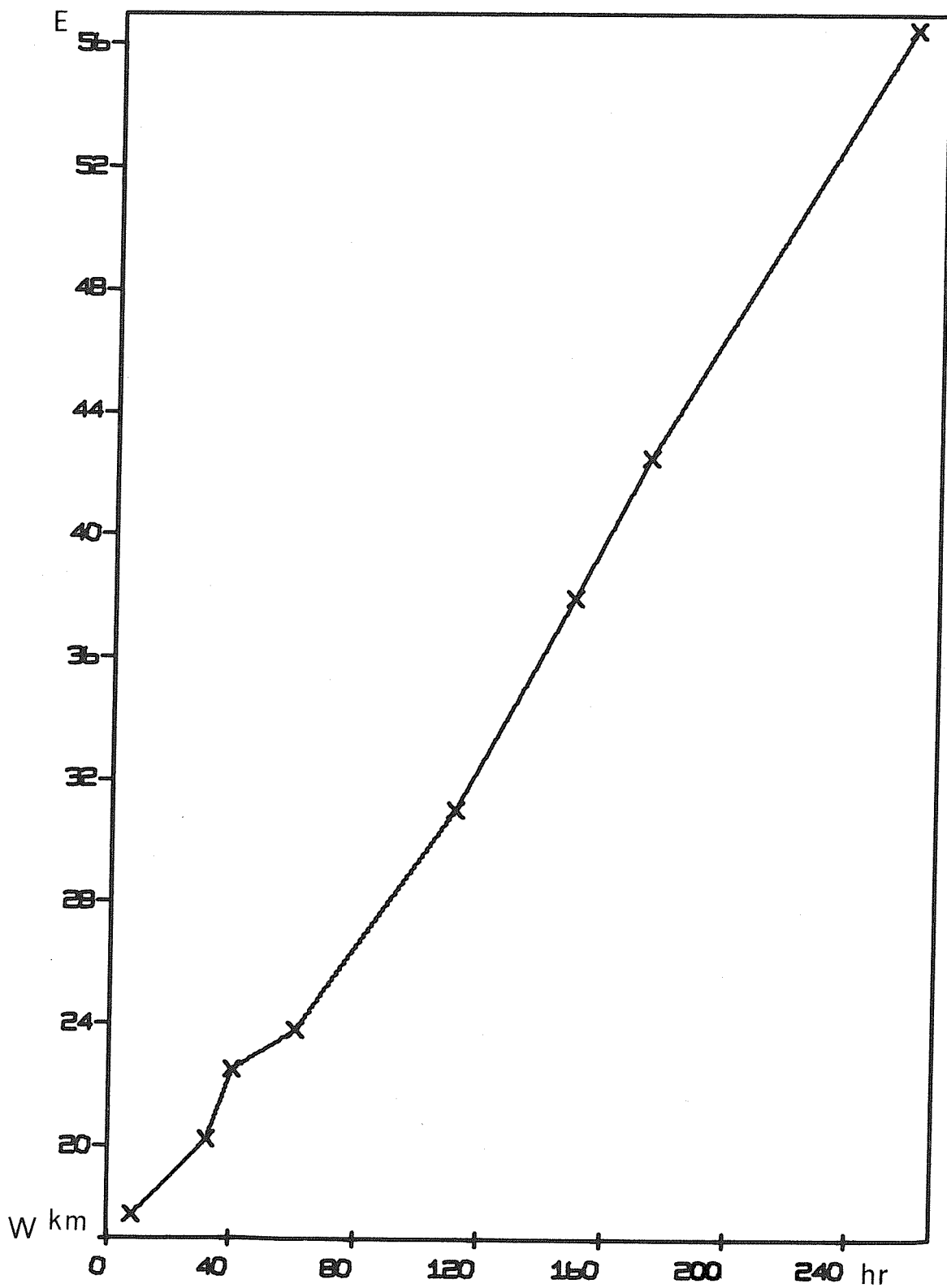
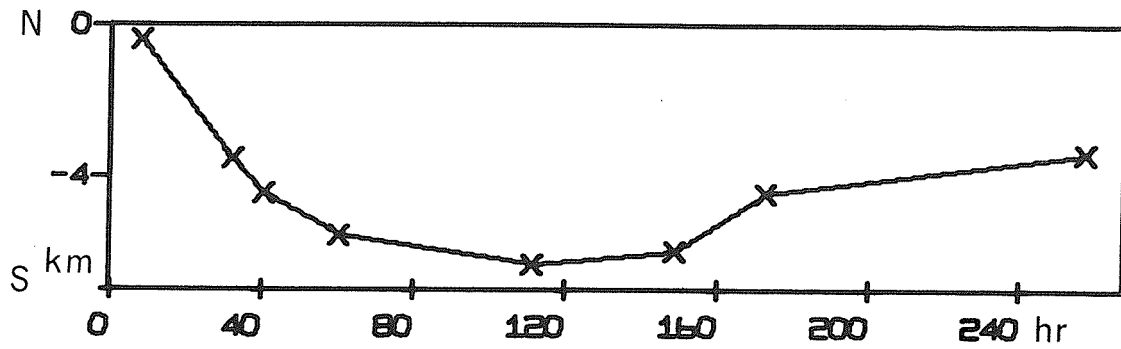
DATE AND TIME LAID = 3.7/19.5.73



SERIAL NO = 289

FLOAT DESIGNATION = 12B

DATE AND TIME LAID = 3.7/19.5.73



SERIAL NO= 290

FLOAT DESIGNATION= 14

DATE AND TIME LAID= 1.0/20. 5.73

POSITION LAID= 28 3.8N 68 32.2W DISPLACEMENT ORIGIN= 28 8.0N
(-3.6KM E -7.7KM N) 68 30.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
4500 4190 50

FIX NO	DATE	TIME GMT	FIX LAT.N	POSITION LONG.W	HOURS SINCE LAID	DISPLACEMENT (KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
* 1	20. 5	5.4	28 3.9	68 32.4	4.4	-3.9	-7.6		
2	20. 5	15.4	28 3.7	68 31.9	14.4	-3.1	-7.9	2.5	114
3	20. 5	20.5	28 3.3	68 32.3	19.5	-3.8	-8.7	5.4	222
* 4	21. 5	5.4	28 3.3	68 32.1	28.4	-3.4	-8.7	1.0	90
* 5	21. 5	9.7	28 3.2	68 31.9	32.7	-3.1	-8.9	2.4	119
* 6	22. 5	1.0	28 3.2	68 31.7	48.0	-2.8	-8.9	0.6	90
7	23. 5	0.6	28 3.0	68 31.5	71.6	-2.5	-9.2	0.6	138
* 8	23. 5	9.9	28 3.0	68 31.0	80.9	-1.6	-9.2	2.4	90
9	24. 5	4.5	28 3.1	68 30.6	99.5	-1.0	-9.1	1.0	74
10	24. 5	23.8	28 3.6	68 30.4	118.8	-0.7	-8.1	1.4	20
11	25. 5	7.3	28 3.6	68 29.7	126.3	0.5	-8.1	4.3	90
12	26. 5	12.8	28 3.8	68 29.4	155.8	1.0	-7.8	0.6	53
13	27. 5	22.7	28 4.7	68 28.4	189.7	2.6	-6.1	1.9	45
14	29. 5	2.7	28 5.3	68 27.4	217.7	4.3	-5.0	2.0	56
* 15	29. 5	9.0	28 5.2	68 27.3	224.0	4.4	-5.2	1.1	138

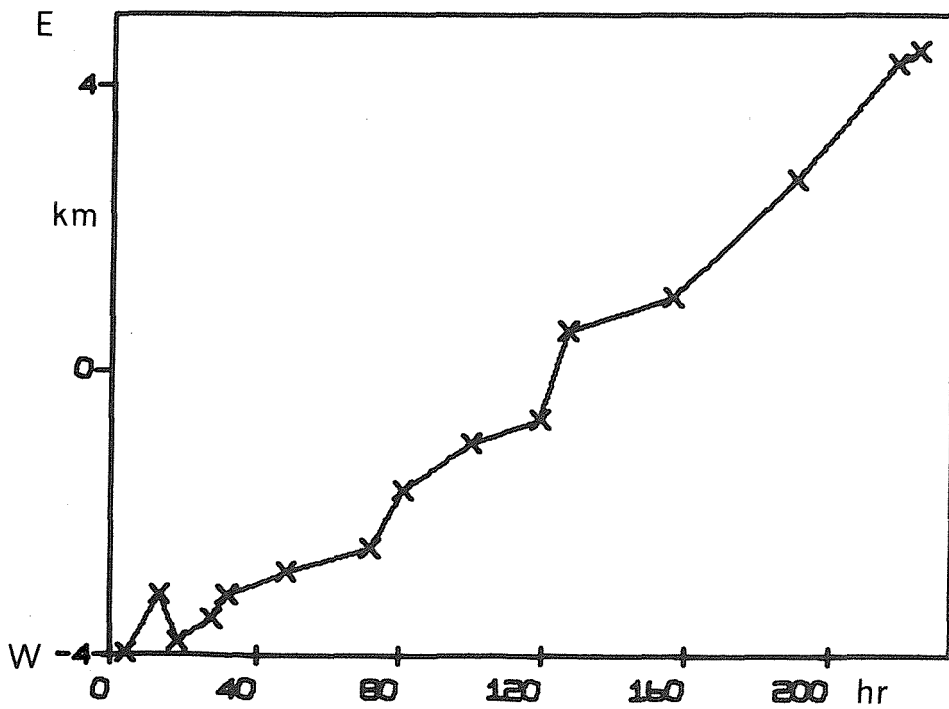
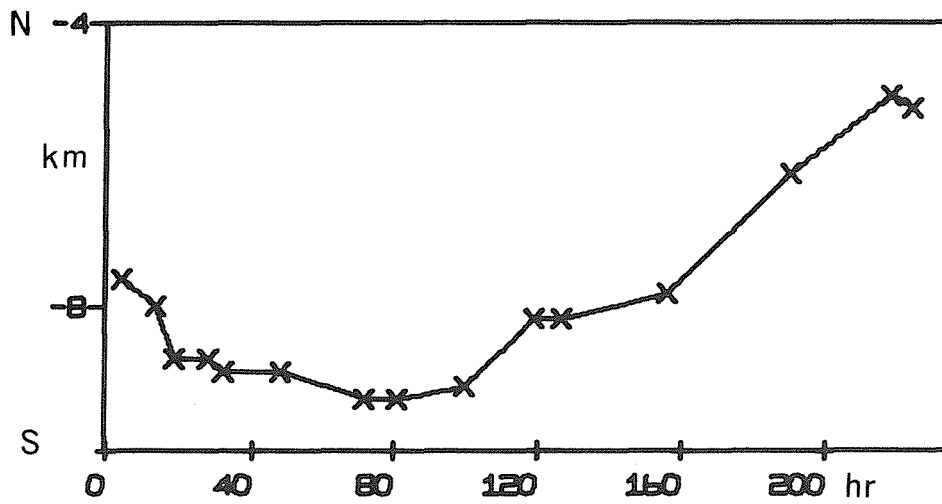
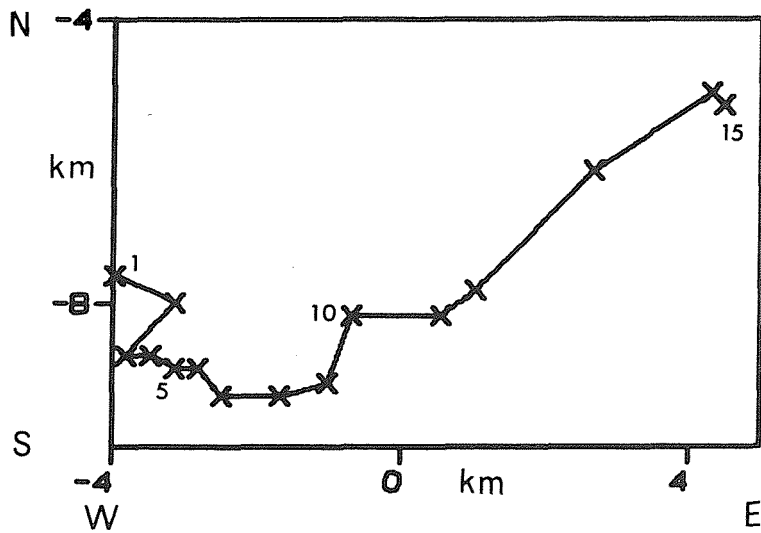
MEAN SPEED ALONG TRAJECTORY= 1.5 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 15 = 1.1 CM/SEC 74 DEGREES TRUE

SERIAL NO = 290

FLOAT DESIGNATION = 14

DATE AND TIME LAID = 1.0/20.5.73



SERIAL NO= 291

FLOAT DESIGNATION= 13

DATE AND TIME LAID= 7.7/20. 5.73

POSITION LAID= 28 0.2N 68 10.2W DISPLACEMENT ORIGIN= 28 0.0N
(-0.3KM E 0.3KM N) 68 10.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
1500 1550 10

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT (KM)		VELOCITIES BETWEEN FIXES		CM/SEC	T
			LAT. N	LONG. W		+E-W X	+N-S Y				
* 1	20. 5	11.3	28 0.1	68 9.8	3.6	0.3	0.2				
2	20. 5	21.6	27 59.9	68 10.0	13.9	-0.0	-0.2	1.3		222	
* 3	21. 5	12.3	28 0.2	68 9.3	28.6	1.1	0.4	2.4		64	
* 4	23. 5	21.0	28 0.9	68 8.2	85.3	3.0	1.7	1.1		54	
5	25. 5	7.3	28 1.7	68 8.3	119.6	2.8	3.1	1.2		354	
6	25. 5	13.7	28 2.1	68 8.3	126.0	2.8	3.9	3.2		0	
7	26. 5	1.5	28 2.7	68 8.0	137.8	3.3	5.0	2.9		24	
8	28. 5	3.3	28 3.5	68 7.7	187.6	3.8	6.5	0.9		18	
9	29. 5	2.7	28 5.4	68 8.2	211.0	3.0	10.0	4.3		347	
* 10	29. 5	13.4	28 6.6	68 7.5	221.7	4.1	12.2	6.5		27	

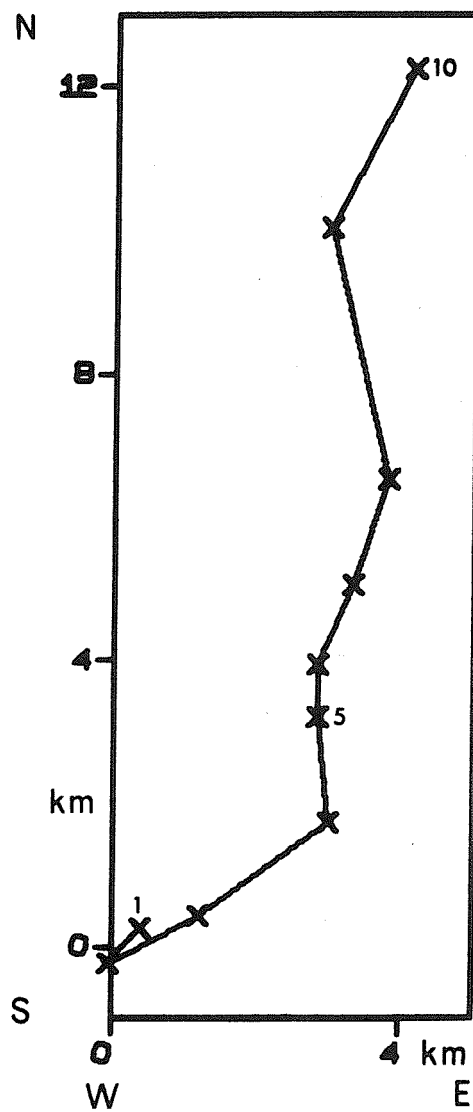
MEAN SPEED ALONG TRAJECTORY= 1.9 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 10 = 1.6 CM/SEC 17 DEGREES TRUE

SERIAL NO = 291

FLOAT DESIGNATION = 13

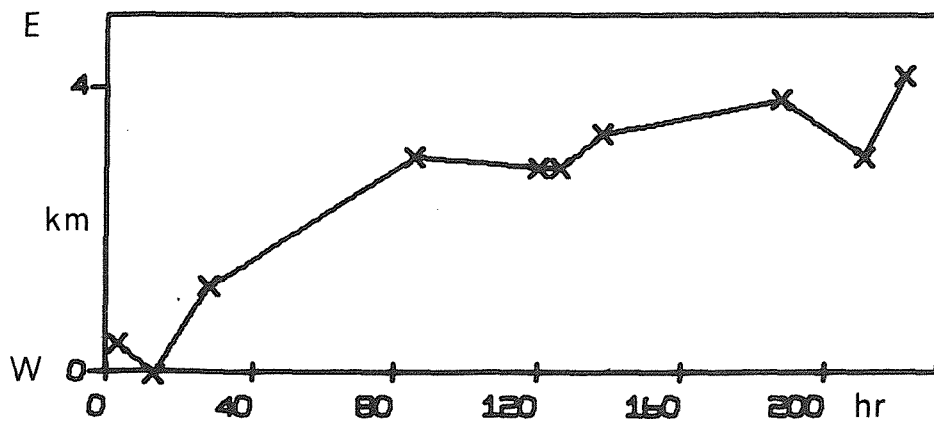
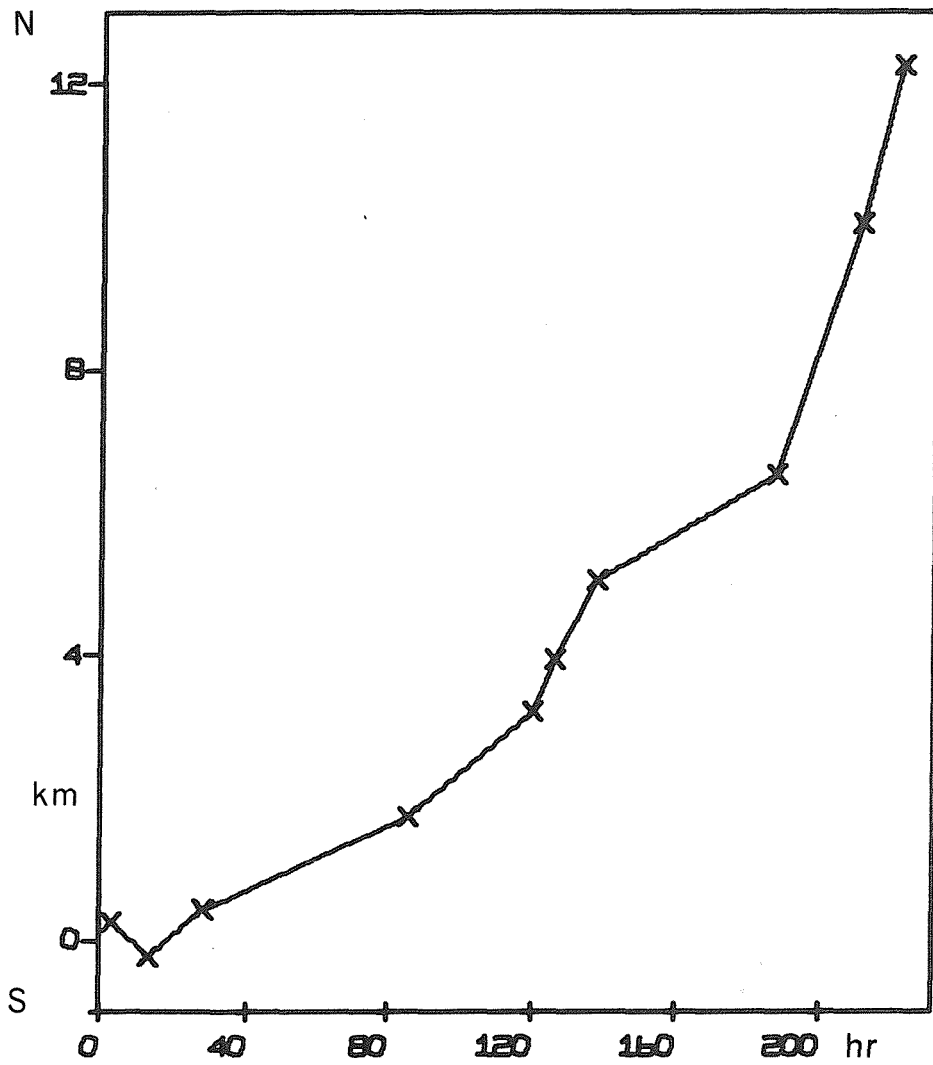
DATE AND TIME LAID = 7.7/20.5.73



SERIAL NO = 291

FLOAT DESIGNATION = 13

DATE AND TIME LAID = 7.7/20.5.73



SERIAL NO= 292

FLOAT DESIGNATION= 16B

DATE AND TIME LAID= 19.7/21. 5.73

POSITION LAID= 28 7.8N 68 18.0W DISPLACEMENT ORIGIN= 28 8.0N
(0.0KM E -0.3KM N) 68 18.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
3000 2900 60

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES		
			LAT.N	LONG.W		+E-W X	+N-S Y	CM/SEC	T	
* 1	21. 5	23.5	28	7.6	68 17.6	3.8	0.7	-0.7		
* 2	23. 5	11.4	28	5.3	68 12.4	39.7	9.2	-5.0	7.4	117
* 3	23. 5	22.0	28	5.0	68 10.8	50.3	11.8	-5.5	7.0	102
4	25. 5	7.3	28	3.0	68 6.3	83.6	19.2	-9.2	6.9	117
5	25. 5	20.7	28	2.6	68 4.5	97.0	22.1	-10.0	6.3	104
6	28. 5	4.6	28	1.0	67 58.5	152.9	31.9	-12.9	5.1	107
7	29. 5	2.7	28	0.4	67 56.4	175.0	35.4	-14.0	4.5	108
* 8	29. 5	15.7	28	0.3	67 55.7	188.0	36.5	-14.2	2.5	99

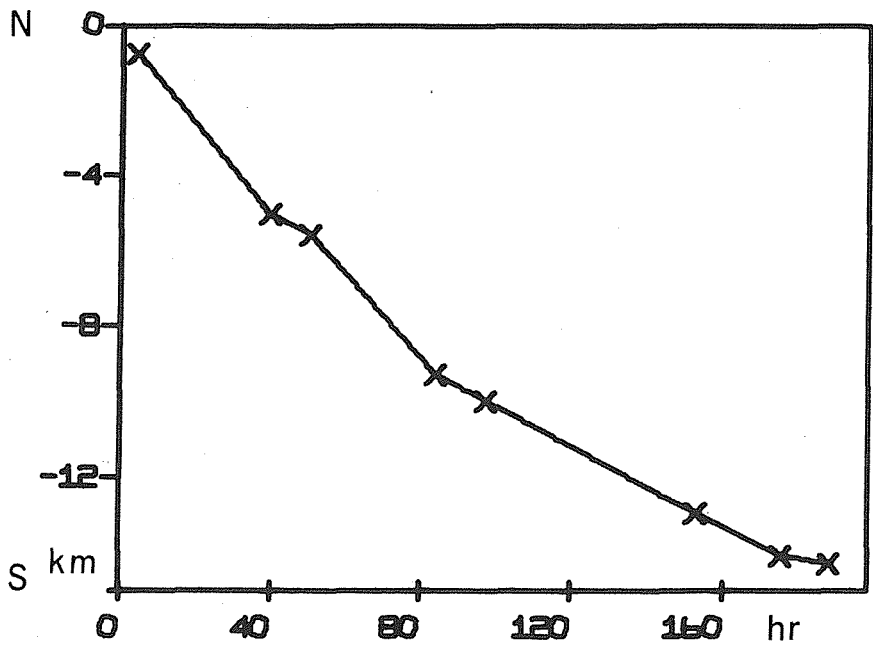
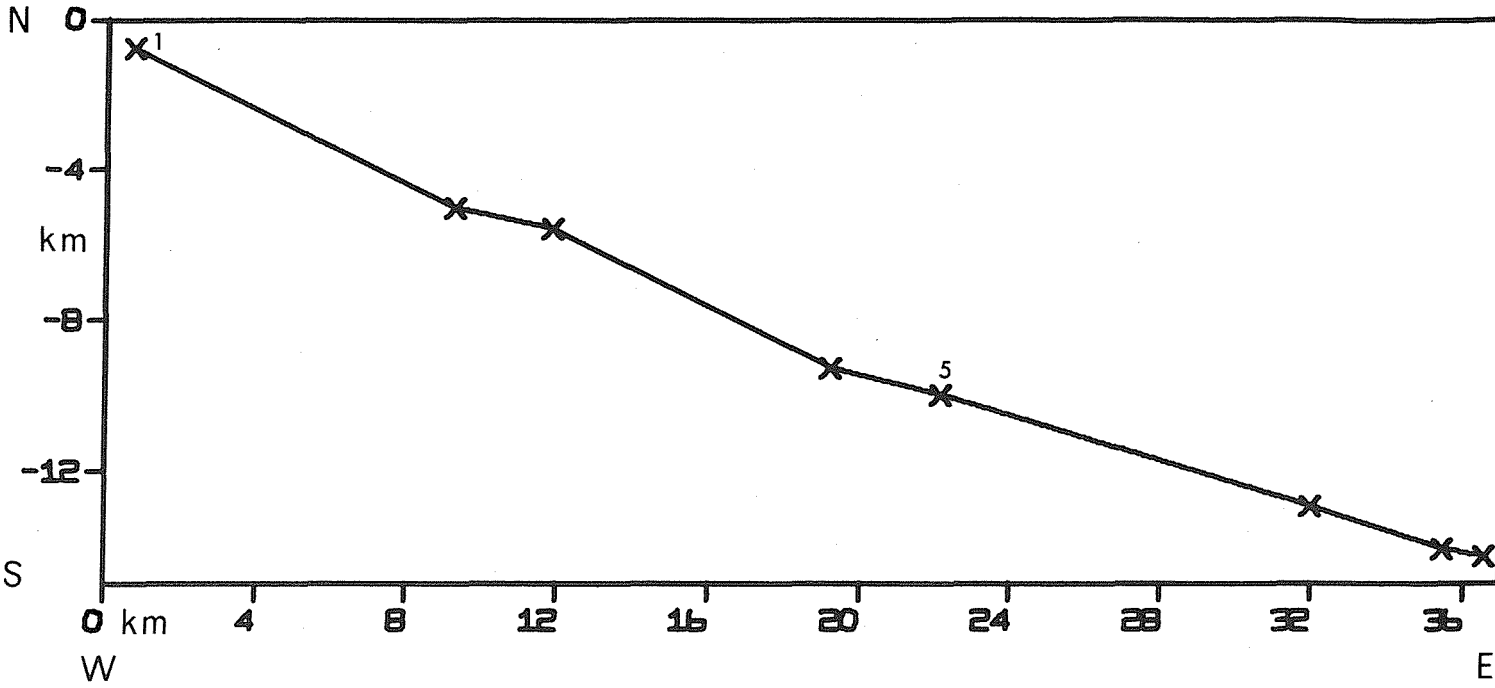
MEAN SPEED ALONG TRAJECTORY= 5.8 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 8 = 5.8 CM/SEC 111 DEGREES TRUE

SERIAL NO = 292

FLOAT DESIGNATION = 16B

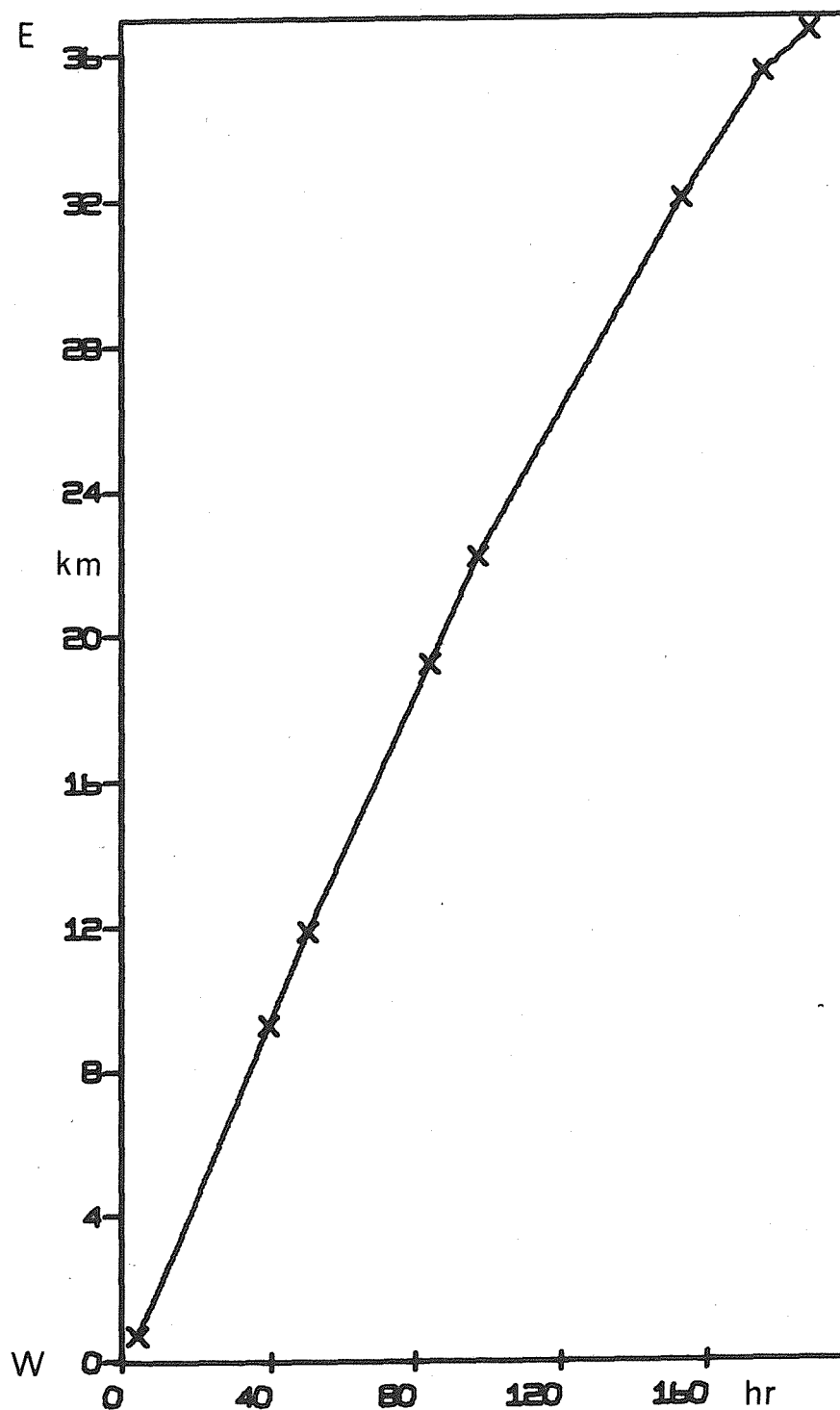
DATE AND TIME LAID = 19.7/21.5.73



SERIAL NO = 292

FLOAT DESIGNATION = 16B

DATE AND TIME LAID = 19.7/21.5.73



SERIAL NO= 293

FLOAT DESIGNATION= 5B

DATE AND TIME LAID= 19.7/21. 5.73

POSITION LAID= 28 7.8N 68 18.0W DISPLACEMENT ORIGIN= 28 8.0N
(0.0KM E -0.3KM N) 68 18.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
670 760 20

FIX NO	DATE	TIME GMT	FIX POSITION		HOURS SINCE LAID	DISPLACEMENT(KM)		VELOCITIES BETWEEN FIXES	
			LAT.N	LONG.W		+E-W X	+N-S Y	CM/SEC	T
* 1	21. 5	23.2	28 7.6	68 18.1	3.5	-0.2	-0.7		
2	23. 5	0.6	28 6.0	68 19.0	28.9	-1.6	-3.7	3.6	207
* 3	23. 5	11.1	28 4.8	68 18.3	39.4	-0.5	-5.9	6.6	153
* 4	23. 5	23.5	28 4.4	68 19.7	51.8	-2.8	-6.6	5.4	252
5	25. 5	5.3	28 2.6	68 19.9	81.6	-3.1	-10.0	3.1	186
6	25. 5	21.4	28 0.8	68 19.8	97.7	-2.9	-13.3	5.7	177
7	26. 5	8.3	28 1.4	68 20.2	108.6	-3.6	-12.2	3.3	329
8	27. 5	1.3	27 59.6	68 20.2	125.6	-3.6	-15.5	5.4	180
9	28. 5	4.6	27 59.2	68 20.1	152.9	-3.4	-16.3	0.8	167
10	29. 5	5.1	27 58.7	68 20.2	177.4	-3.6	-17.2	1.1	190
* 11	29. 5	10.0	27 59.4	68 19.7	182.3	-2.8	-15.9	8.7	32

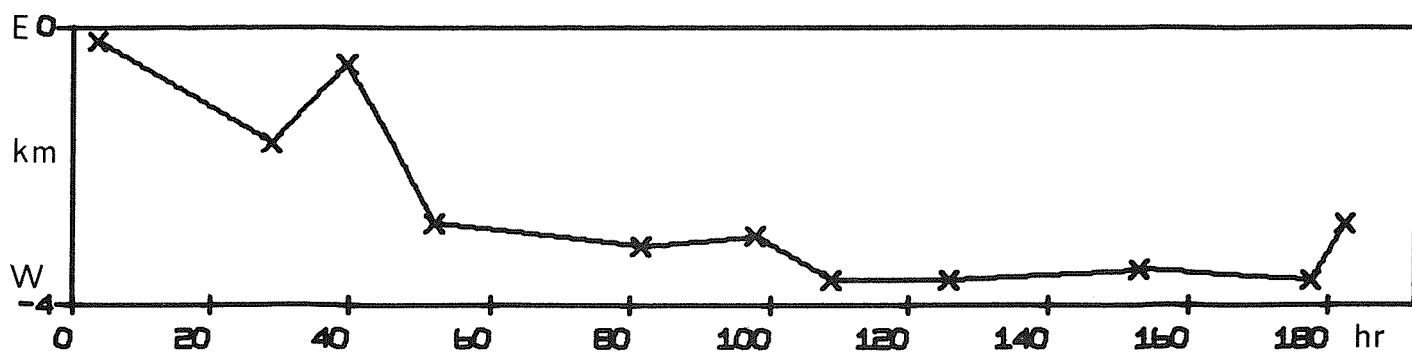
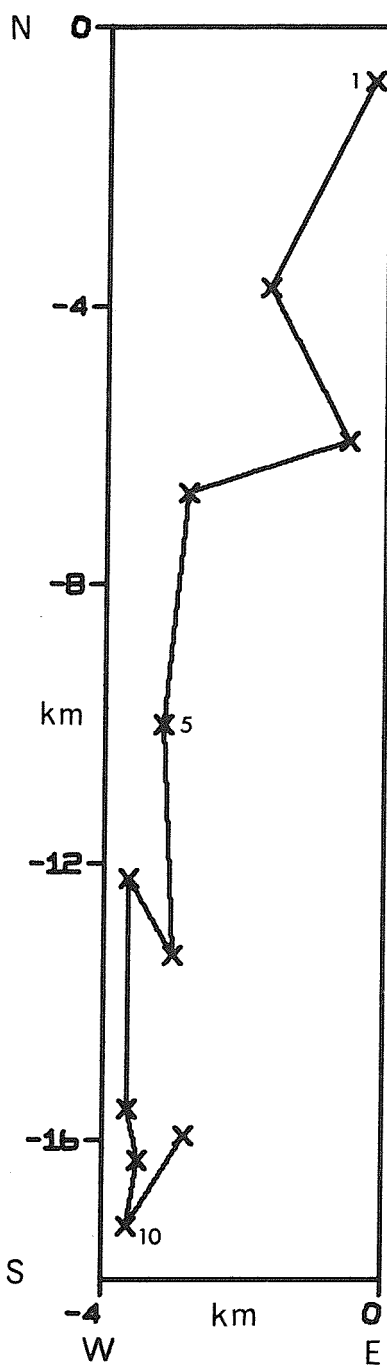
MEAN SPEED ALONG TRAJECTORY= 3.5 CM/SEC

MEAN VELOCITY, FIX 1 - FIX 11 = 2.4 CM/SEC 190 DEGREES TRUE

FLOAT DESIGNATION = 5B

SERIAL NO = 293

DATE AND TIME LAID = 19.7/21.5.7



SERIAL NO = 293

FLOAT DESIGNATION = 5B

DATE AND TIME LAID = 19.7/21.5.73

