I.O.S.

NEUTRALLY BUOYANT FLOATS
SERIAL NOS 242-265
APRIL 1973

by

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and

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Data Report No.1

1974

NATURAL ENVIRONMENT RESEARCH COUNCIL

INSTITUTE OF OCEANOGRAPHIC SCIENCES

NEUTRALLY BUOYANT FLOATS

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

Serial nos.		N.I.O. Internal Report
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)

INSTITUTE OF OCEANOGRAPHIC SCIENCES,

WORMLEY, GODALMING, SURREY

NEUTRALLY BUOYANT FLOATS

SERIAL NOS 242-265

APRIL 1973

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

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CONTENTS

Introduction

This report contains tables and diagrams of the trajectories of 24 floats launched from the RRS Discovery during April 1973. These observations were made in a region of flat topography approximately 5450 metres deep, bounded by 27°45'N to 28°30'N, 69°40'W to 70°30'W, as a contribution to the Mid-Ocean Dynamics Experiment (MODE-1). Some further observations made in May 1973 are reported in the next volume in this series.

This was the first full-scale use of a new design of floats and method of tracking (Ref. 1), which enabled 18 floats to be tracked simultaneously whilst working CTD stations. The floats were fitted with transponders, so that ranges could be measured to each float from the ship, and these ranges were combined to give fixes typically once per day per float. Fixes could also be obtained by running close by a float and measuring several short ranges in quick succession. These short range 'running fixes' are marked by asterisks in the tables.

Navigation was initially by satellite fixes using the 2-component EM log and gyro compass for interpolation. Loran-C was also used and appeared to be more stable. Wherever possible, positions have been replotted based on Loran-C. The close range 'running fixes' are unlikely to be in error by more than ±0.2 km. Errors in positions of the other fixes, obtained by combining long ranges from widely separated points, are unlikely to exceed ±1 km.

'Nominal depth' is the depth for which each float was loaded. Depths were observed mainly by triangulation using those close-range running fixes that included a course change, and by means of surface or bottom reflections at horizontal ranges of less than 10 km. 'S.D.' in the tables is the standard deviation of the mean of the depth observations for the tabulated float.

The floats were intended to be recoverable, and all but four of those used in April 1973 were recovered. On revisiting the area during May, float No. 15 was found again, and so the last fix in trajectory No. 243 was on May 8th, after a gap of 11 days from the previous fix.

Trajectory No. 263 was cut short when float No. 3 surfaced accidentally, sometime between 1908 and 2248 on 23rd April. The four fixes obtained on it subsequently are listed separately below the first seven fixes on p. 83 and provide a small sample of surface current.

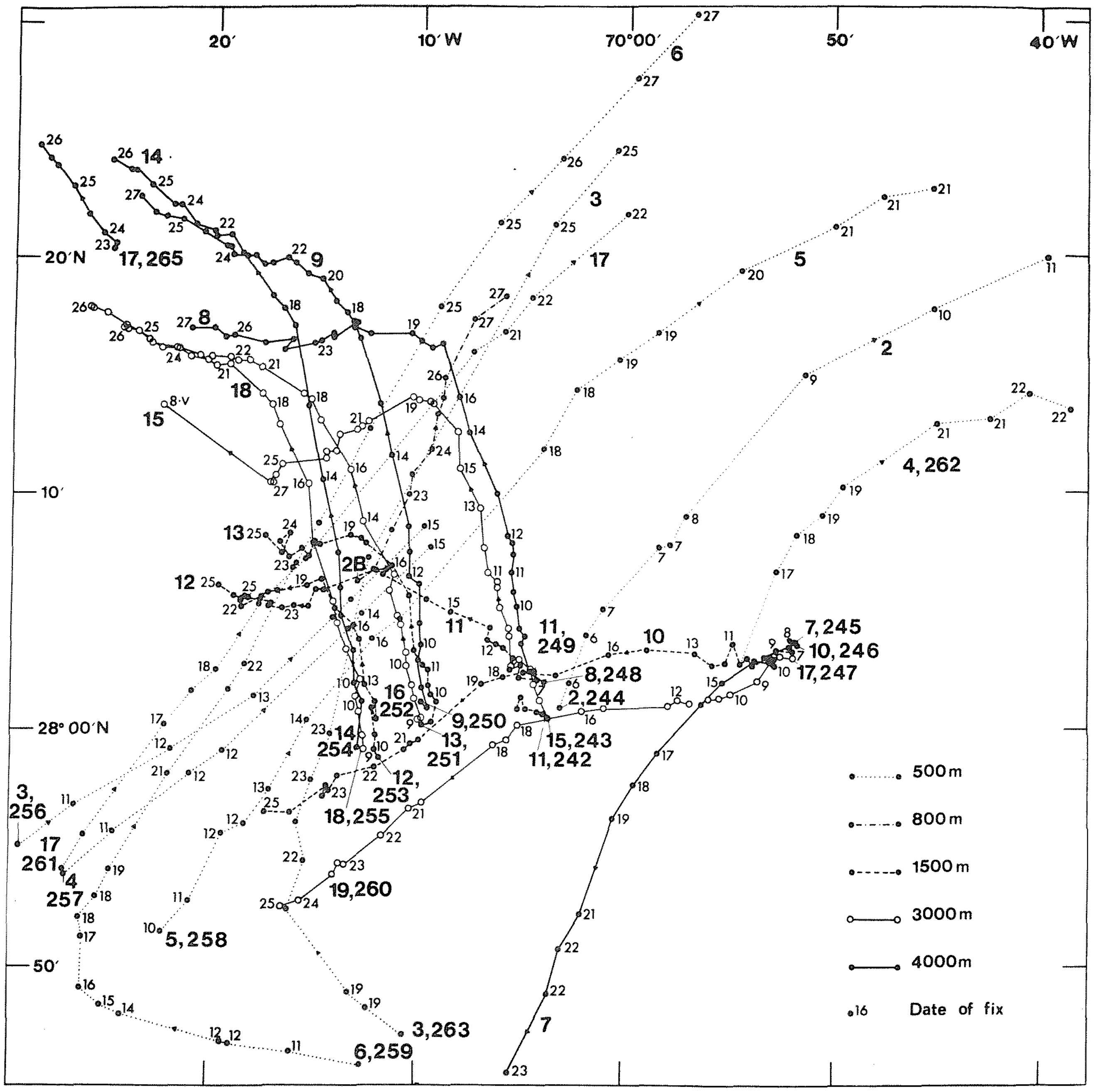
As in previous reports in this series, the float tracks have been re-numbered in chronological order of launching.

Reference

1. Swallow, J.C., B.S. McCartney and N.W. Millard, 1974. The Minimode float tracking system. Deep-Sea Research (in press).

LIST OF FLOATS

Serial No	Original Designation	Date and time laid
242	11	23.3/ 5.4.73
243	15	23.3/ 5.4.73
244	2	23.4/ 5.4.73
245	7	14.2/ 7.4.73
246	10	14.2/ 7.4.73
247	17	14.3/ 7.4.73
248	8	17.8/ 7.4.73
249	11	12.1/ 8.4.73
250	9	16.0/ 8.4.73
251	13	16.0/ 8.4.73
252	16	16.1/ 8.4.73
253	12	4.4/ 9.4.73
254	14	4.4/ 9.4.73
255	18	4.4/ 9.4.73
256	3	21.8/ 9.4.73
257	4	22.2/ 9.4.73
258	5	23.0/ 9.4.73
259	6	0.7/10.4.73
260	19	18.1/11.4.73
261	17	15.9/15.4.73
262	4	1.9/16.4.73
263	3	12.9/18.4.73
264	2B	16.3/19.4.73
265	17	3.3/23.4.73



FLOAT TRAJECTORIES APRIL 1973

SERIAL NO= 242

FLOAT DESIGNATION= 11 DATE AND TIME LAID= 23.3/ 5. 4.73

POSITION LAID= 28 0.1N 70 3.5W DISPLACEMENT ORIGIN= 28 0.0N
(-0.8KM E 0.1KM N) 70 3.0W

NAVIGATION BASED ON LORAN C + SAT

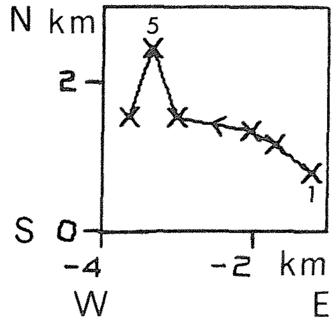
DEPTH(M)= NOMINAL OBSERVED S.D
1500 1567 10

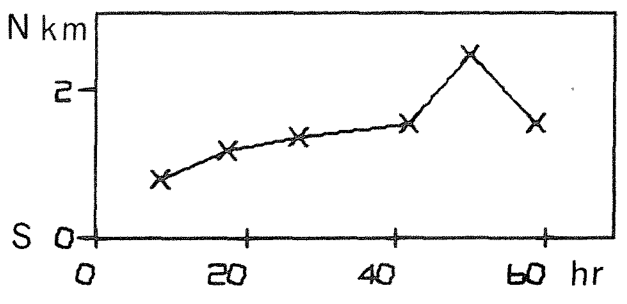
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
*	1	6. 4	8.0	28	0.4	70	3.7	8.7	-1.1	0.7		
	2	6. 4	16.8	28	0.6	70	4.0	17.5	-1.6	1.1	1.9	307
	3	7. 4	2.3	28	0.7	70	4.2	27.0	-2.0	1.3	1.1	299
	4	7. 4	16.8	28	0.8	70	4.8	41.5	-3.0	1.5	1.9	281
	5	8. 4	1.1	28	1.3	70	5.0	49.8	-3.3	2.4	3.3	340
*	6	8. 4	10.0	28	0.8	70	5.2	58.7	-3.6	1.5	3.1	200

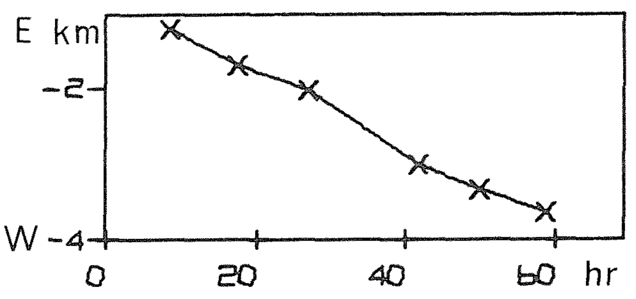
MEAN SPEED ALONG TRAJECTORY= 2.2 CM/SEC
MEAN VELOCITY. FIX 1 - FIX 6 = 1.4 CM/SEC 287 DEGREES TRUE

SERIAL NO = 242

FLOAT DESIGNATION = 11 DATE AND TIME LAID = 23.3/5.4.73.







SERIAL NO= 243

FLOAT DESIGNATION= 15 DATE AND TIME LAID= 23.3/ 5. 4.73

POSITION LAID= 28 0.1N 70 3.5W DISPLACEMENT ORIGIN= 28 0.0N
(-0.8KM E 0.1KM N) 70 3.0W

NAVIGATION BASED ON LORAN C + SAT

DEPTH(M)= NOMINAL OBSERVED S.D
3000 2900 50

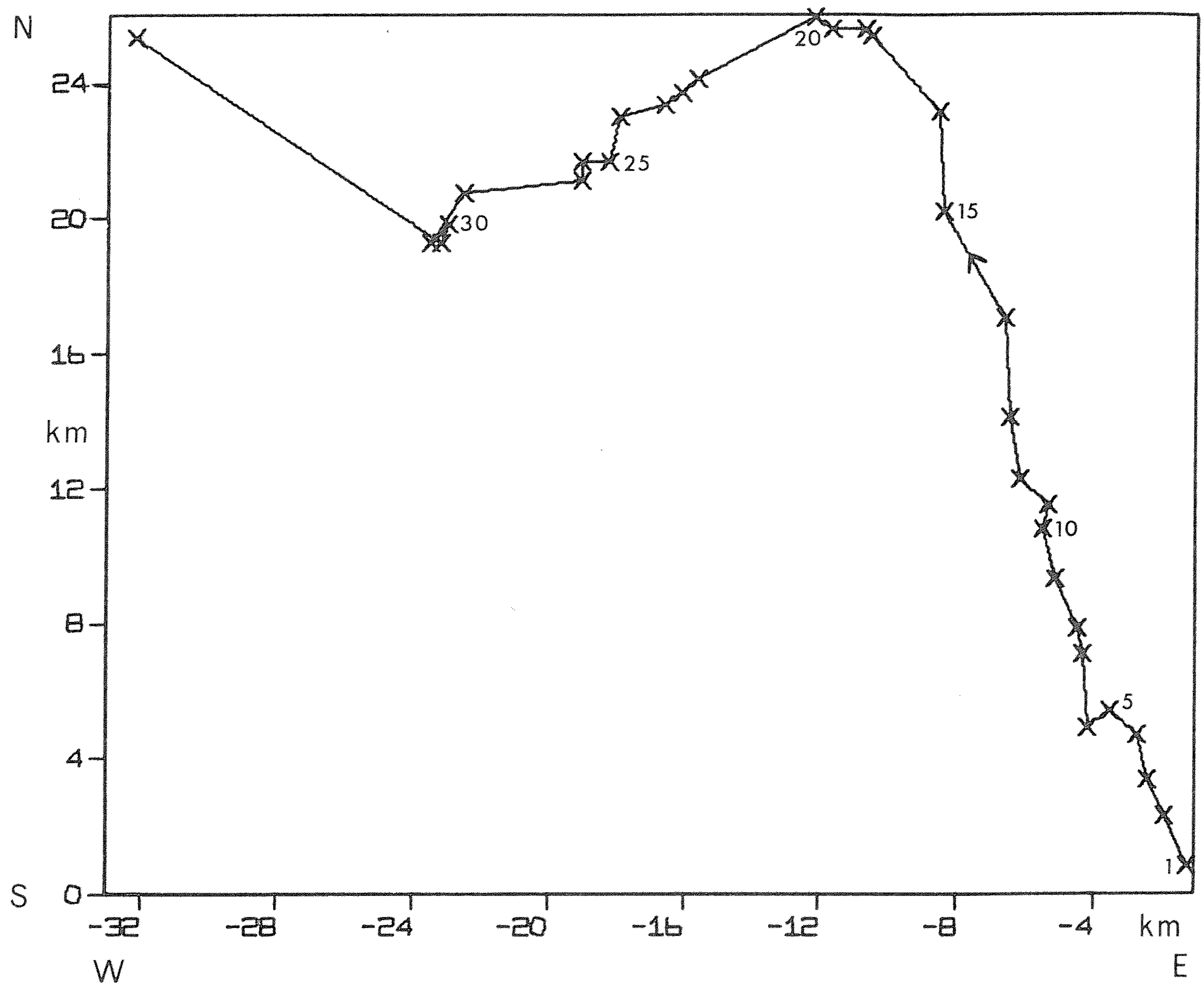
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
*	1	6. 4	8.7	28	0.4	70	3.7	9.4	-1.1	0.7		
	2	6. 4	16.8	28	1.2	70	4.1	17.5	-1.8	2.2	5.5	336
	3	7. 4	10.1	28	1.8	70	4.4	34.8	-2.3	3.3	1.9	336
	4	7. 4	18.5	28	2.5	70	4.6	43.2	-2.6	4.6	4.4	346
	5	8. 4	3.7	28	2.9	70	5.1	52.4	-3.4	5.4	3.3	312
	6	8. 4	12.5	28	2.6	70	5.5	61.2	-4.1	4.8	2.7	230
	7	9. 4	6.9	28	3.8	70	5.6	79.6	-4.3	7.0	3.4	356
	8	9. 4	14.1	28	4.2	70	5.7	86.8	-4.4	7.8	2.9	347
	9	10. 4	9.0	28	5.0	70	6.1	105.7	-5.1	9.2	2.4	336
	10	10. 4	22.5	28	5.8	70	6.3	119.2	-5.4	10.7	3.1	347
	11	11. 4	8.8	28	6.2	70	6.2	129.5	-5.2	11.5	2.0	12
	12	11. 4	18.3	28	6.6	70	6.7	139.0	-6.1	12.2	3.2	312
	13	12. 4	8.5	28	7.6	70	6.9	153.2	-6.4	14.0	3.7	350
	14	13. 4	6.5	28	9.2	70	7.0	175.2	-6.6	17.0	3.7	357
	15	15. 4	1.1	28	10.9	70	8.1	217.8	-8.4	20.1	2.4	330
	16	16. 4	6.7	28	12.5	70	8.2	247.4	-8.5	23.1	2.8	357
	17	17. 4	22.7	28	13.7	70	9.4	287.4	-10.5	25.3	2.1	318
	18	18. 4	7.9	28	13.8	70	9.5	296.6	-10.6	25.5	0.7	318
	19	19. 4	0.0	28	13.8	70	10.1	312.7	-11.6	25.5	1.7	270
	20	19. 4	9.4	28	14.0	70	10.4	322.1	-12.1	25.9	1.8	307
	21	21. 4	12.5	28	13.0	70	12.5	373.2	-15.6	24.0	2.1	242
	22	21. 4	18.6	28	12.8	70	12.8	379.3	-16.0	23.6	2.8	233
	23	22. 4	9.9	28	12.6	70	13.1	394.6	-16.5	23.3	1.1	233
	24	22. 4	23.7	28	12.4	70	13.9	408.4	-17.8	22.9	2.7	254
	25	23. 4	11.5	28	11.7	70	14.1	420.2	-18.2	21.6	3.1	194
	26	24. 4	1.3	28	11.7	70	14.6	434.0	-19.0	21.6	1.6	270
	27	24. 4	12.0	28	11.4	70	14.6	444.7	-19.0	21.1	1.4	180
	28	25. 4	22.4	28	11.2	70	16.7	479.1	-22.4	20.7	2.8	264
*	29	26. 4	14.6	28	10.4	70	17.3	495.3	-23.4	19.2	3.0	214
*	30	26. 4	19.0	28	10.7	70	17.0	499.7	-22.9	19.8	4.7	42
	31	27. 4	9.4	28	10.4	70	17.1	514.1	-23.1	19.2	1.1	196
	32	8. 5	17.4	28	13.7	70	22.6	786.1	-32.1	25.3	1.1	304

MEAN SPEED ALONG TRAJECTORY= 2.0 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 32 = 1.4 CM/SEC 308 DEGREES TRUE

SERIAL NO = 243

FLOAT DESIGNATION=15

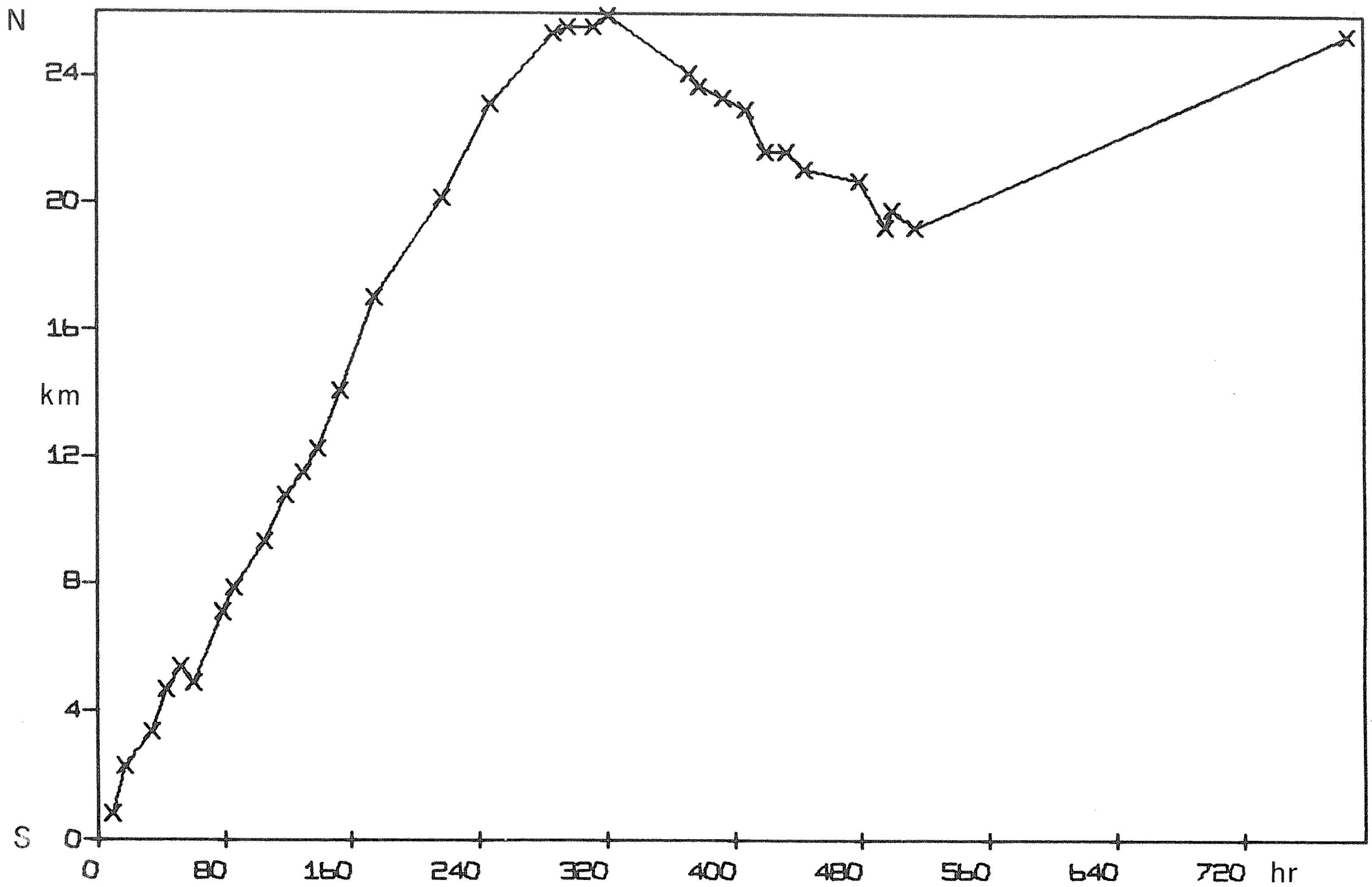
DATE AND TIME LAID = 23.3/5.4.73

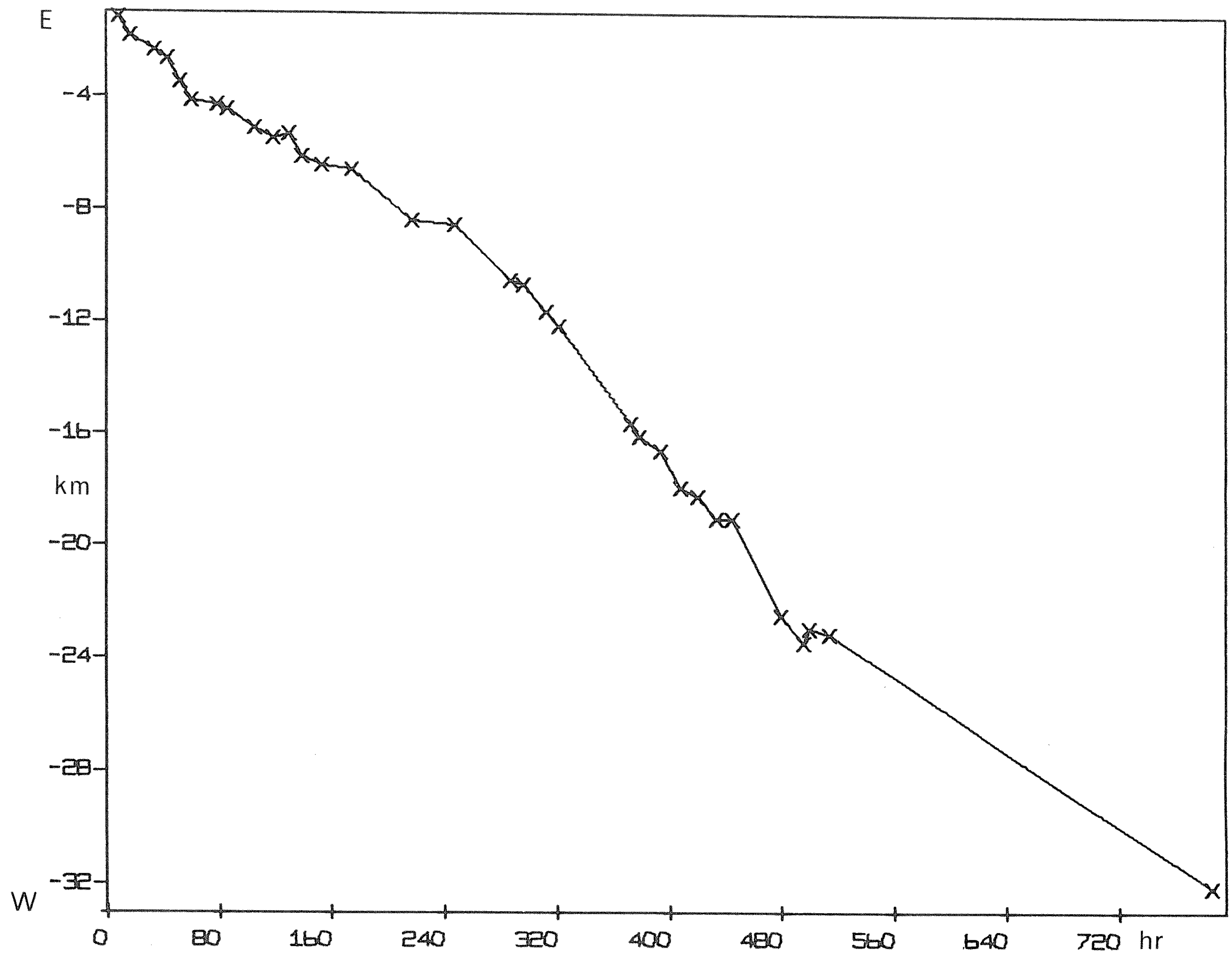


SERIAL NO = 243

FLOAT DESIGNATION = 15

DATE AND TIME LAID = 23.3/5.4.73





SERIAL NO = 243

FLOAT DESIGNATION = 15

DATE AND TIME LAID = 23.3/5.4.73

SERIAL NO= 244

FLOAT DESIGNATION= 2 DATE AND TIME LAID= 23.4/ 5. 4.73

POSITION LAID= 28 0.1N 70 3.5W DISPLACEMENT ORIGIN= 28 0.0N
(-0.8KM E 0.1KM N) 70 3.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
500 590 25

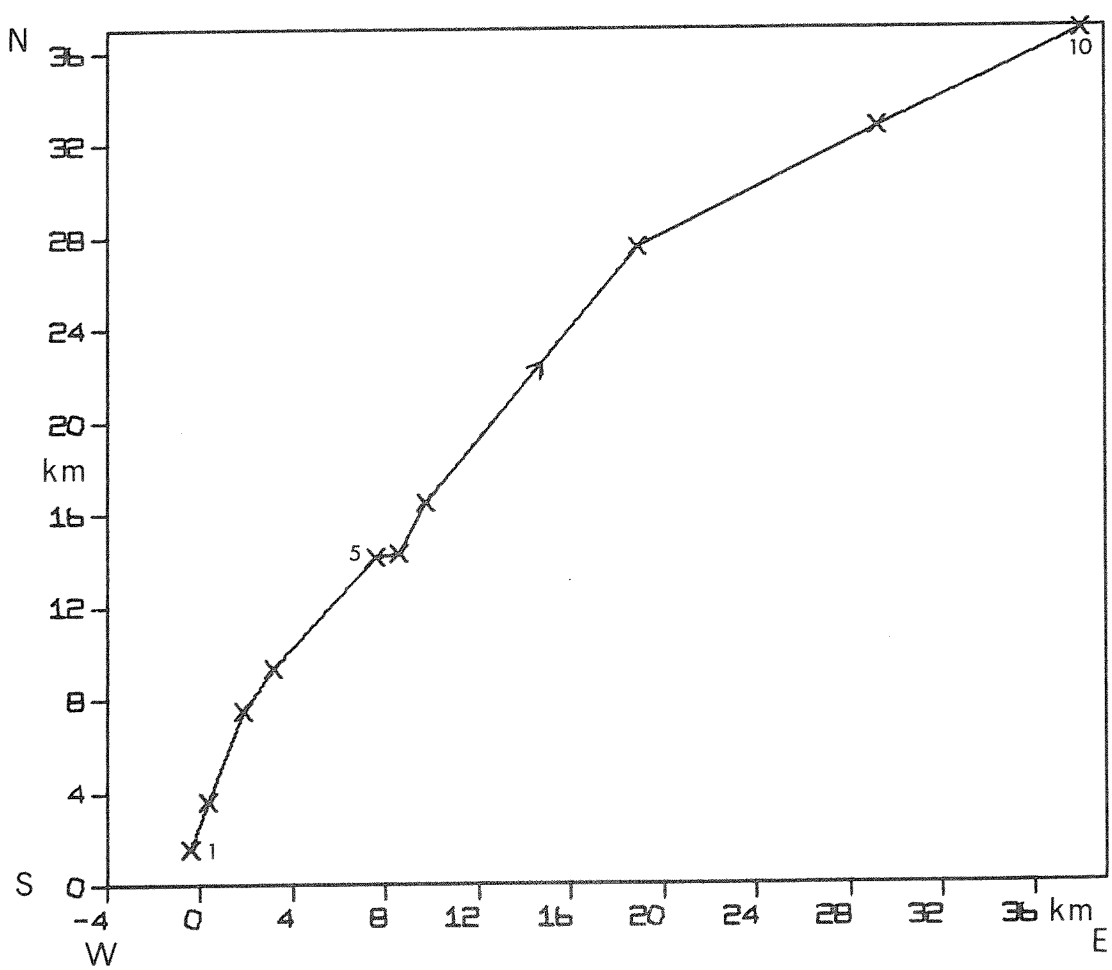
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
	1	6. 4	2.7	28	0.8	70	3.2	3.3	-0.3	1.5		
*	2	6. 4	9.5	28	1.9	70	2.8	10.1	0.3	3.5	8.7	18
	3	6. 4	20.9	28	4.0	70	1.9	21.5	1.8	7.4	10.1	21
	4	7. 4	1.7	28	5.0	70	1.1	26.3	3.1	9.2	13.1	35
	5	7. 4	18.0	28	7.6	69	58.4	42.6	7.5	14.0	11.1	43
*	6	7. 4	21.0	28	7.7	69	57.8	45.6	8.5	14.2	9.3	79
	7	8. 4	4.7	28	8.9	69	57.1	53.3	9.7	16.4	9.0	27
*	8	9. 4	12.1	28	14.9	69	51.5	84.7	18.8	27.5	12.7	40
*	9	10. 4	14.0	28	17.7	69	45.2	110.6	29.1	32.7	12.4	63
*	10	11. 4	11.8	28	19.9	69	39.8	132.4	38.0	36.8	12.4	65

MEAN SPEED ALONG TRAJECTORY=11.7 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 10 =11.2 CM/SEC 47 DEGREES TRUE

SERIAL NO = 244

FLOAT DESIGNATION = 2

DATE AND TIME LAID = 23.4/5.4.73



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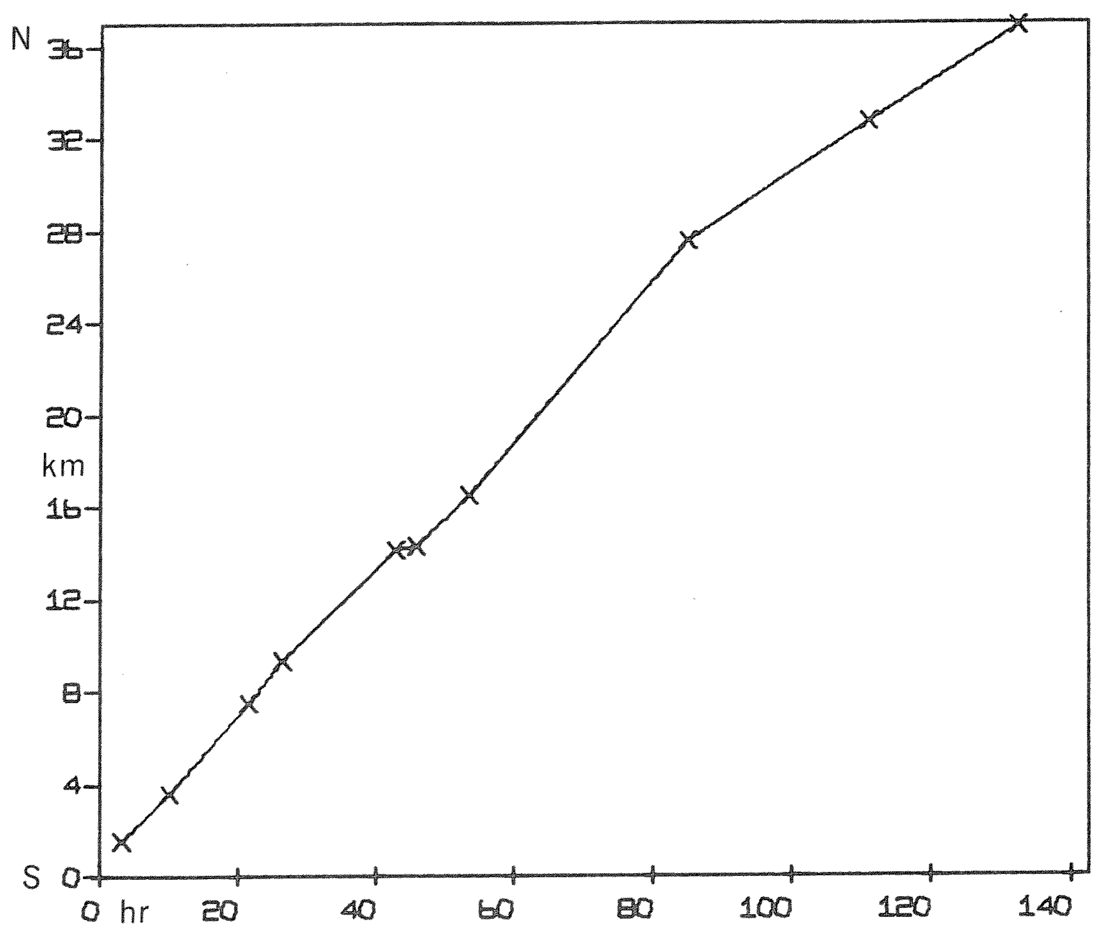
FLOAT DESIGNATION = 2

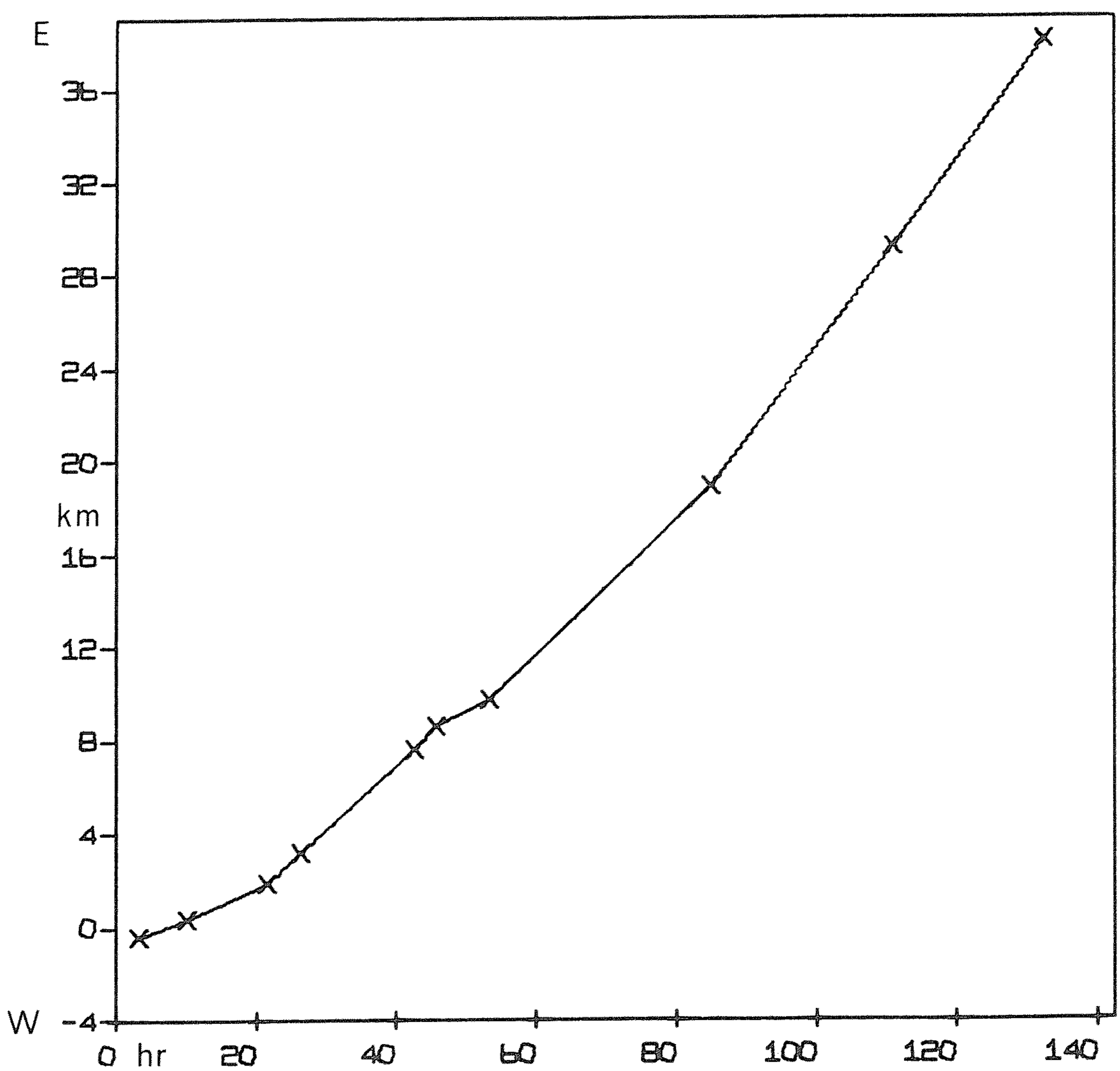
DATE AND TIME LAID = 23.4/5.4.73



SERIAL NO = 244

FLOAT DESIGNATION = 2

DATE AND TIME LAID = 23.4/5.4.73



SERIAL NO= 245

FLOAT DESIGNATION= 7 DATE AND TIME LAID= 14.2/ 7. 4.73

POSITION LAID= 28 3.2N 69 51.8W DISPLACEMENT ORIGIN= 28 3.0N
(-1.3KM E 0.3KM N) 69 51.0W

NAVIGATION BASED ON LORAN C + SAT

DEPTH(M)= NOMINAL OBSERVED S.D
4000 3820 70

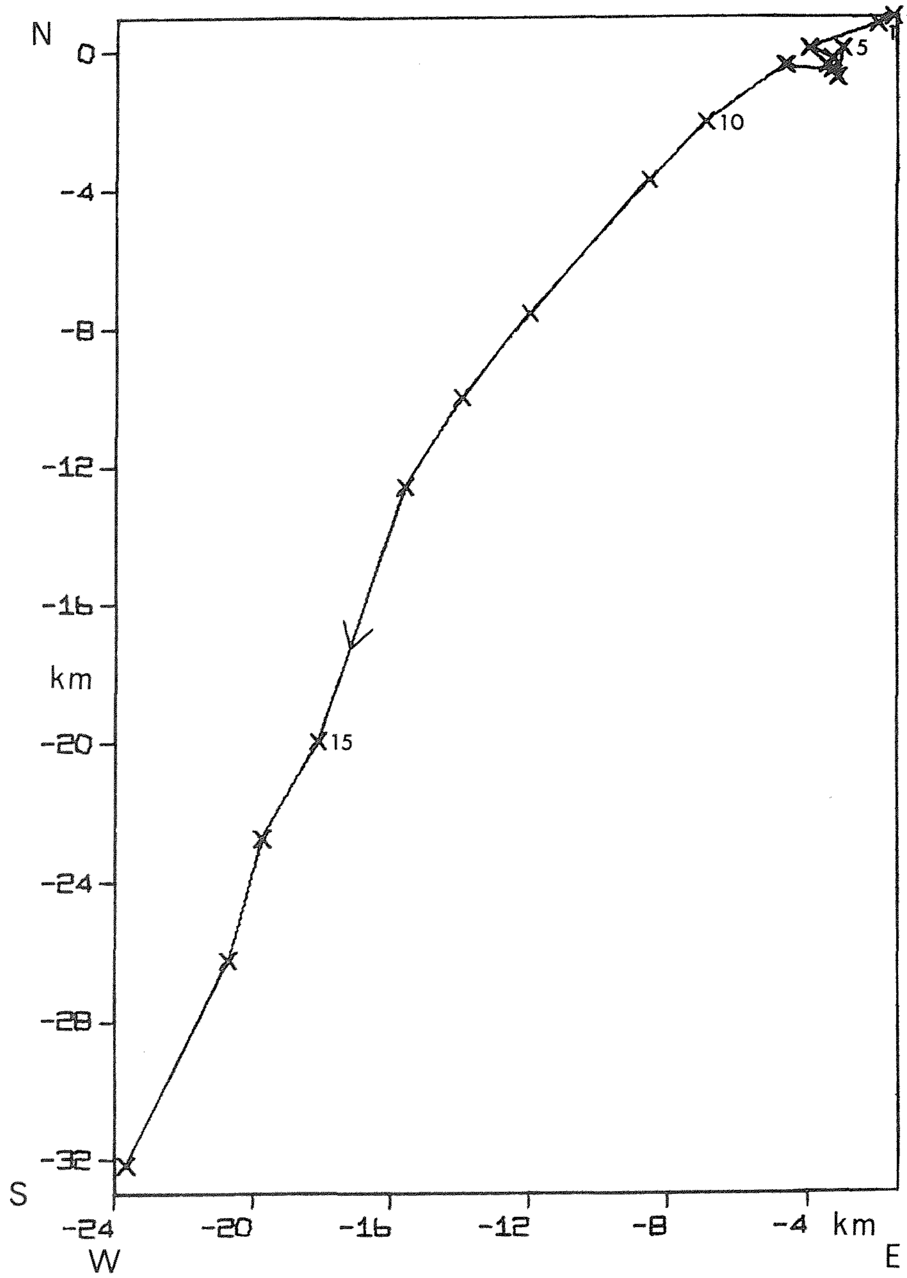
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
	1	7. 4	21.5	28	3.5	69	51.9	7.3	-1.5	0.9		
*	2	8. 4	8.2	28	3.4	69	52.2	18.0	-2.0	0.7	1.4	249
	3	9. 4	6.9	28	3.0	69	53.4	40.7	-3.9	0.0	2.6	249
	4	9. 4	14.1	28	2.9	69	53.0	47.9	-3.3	-0.2	2.6	106
	5	10. 4	16.0	28	3.0	69	52.8	73.8	-2.9	0.0	0.4	61
	6	10. 4	21.3	28	2.6	69	52.9	79.1	-3.1	-0.7	4.0	193
	7	11. 4	8.8	28	2.8	69	53.1	90.6	-3.4	-0.4	1.2	318
	8	11. 4	17.5	28	2.7	69	53.0	99.3	-3.3	-0.6	0.8	138
	9	13. 4	0.5	28	2.8	69	53.8	130.3	-4.6	-0.4	1.2	278
	10	15. 4	2.8	28	1.9	69	55.2	180.6	-6.9	-2.0	1.6	234
	11	16. 4	3.3	28	1.0	69	56.2	205.1	-8.5	-3.7	2.6	225
	12	17. 4	22.7	27	58.9	69	58.3	248.5	-12.0	-7.6	3.3	222
	13	18. 4	14.1	27	57.6	69	59.5	263.9	-13.9	-10.0	5.6	219
	14	19. 4	10.8	27	56.2	70	0.5	284.6	-15.6	-12.6	4.1	212
	15	21. 4	5.6	27	52.2	70	2.0	327.4	-18.0	-19.9	5.1	198
	16	21. 4	18.6	27	50.7	70	3.0	340.4	-19.7	-22.7	6.9	211
	17	22. 4	12.8	27	48.8	70	3.6	358.6	-20.7	-26.2	5.6	196
*	18	23. 4	17.2	27	45.6	70	5.4	387.0	-23.6	-32.1	6.5	207

MEAN SPEED ALONG TRAJECTORY= 3.2 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 18 = 2.9 CM/SEC 214 DEGREES TRUE

SERIAL NO = 245

FLOAT DESIGNATION = 7

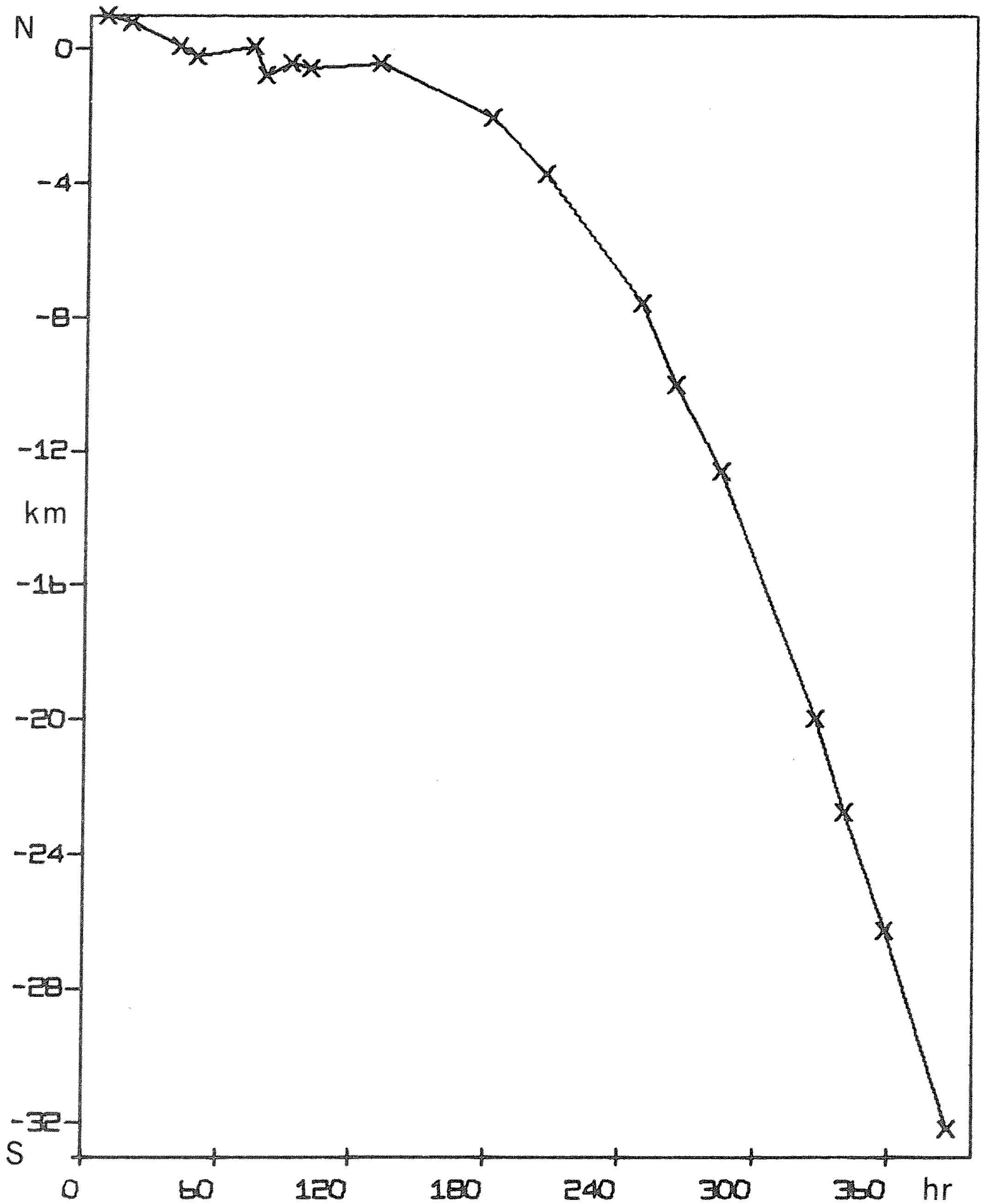
DATE AND TIME LAID = 14.2/7.4.73



SERIAL NO = 245

FLOAT DESIGNATION = 7

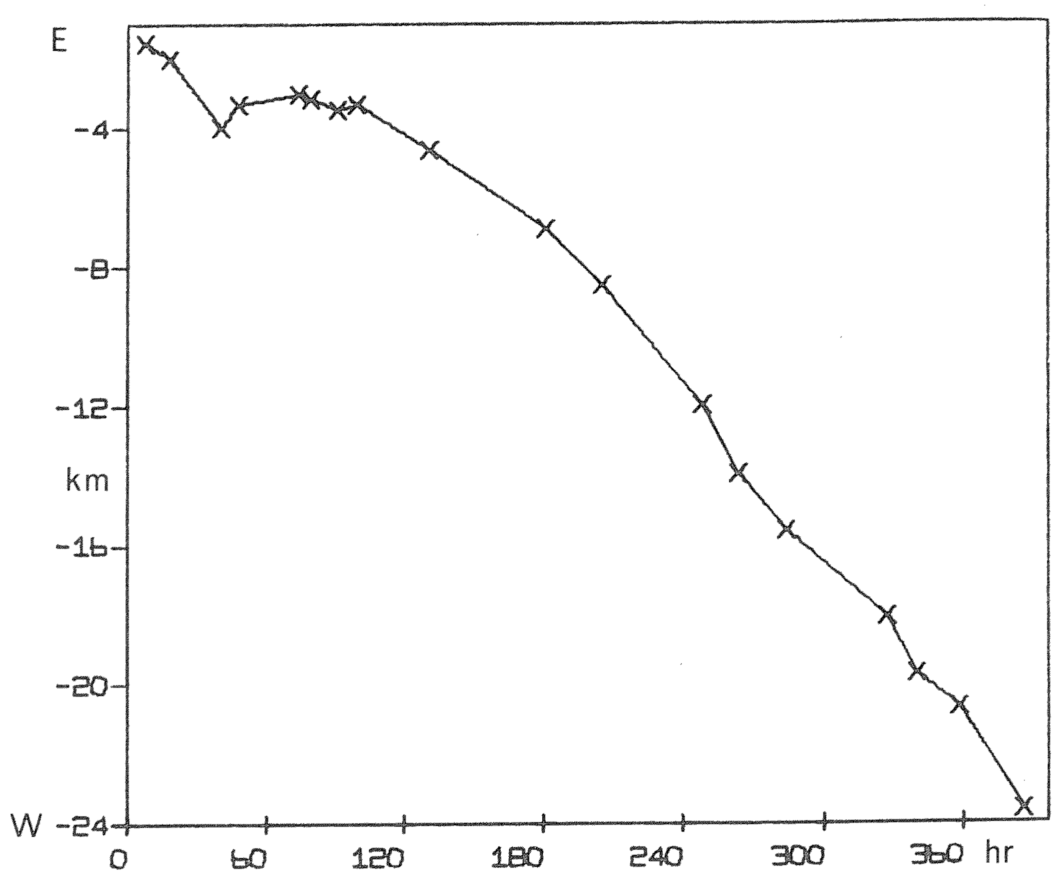
DATE AND TIME LAID = 14.2/7.4.73



SERIAL NO = 245

FLOAT DESIGNATION = 7

DATE AND TIME LAID = 14.2/7.4.73



SERIAL NO= 246

FLOAT DESIGNATION= 10 DATE AND TIME LAID= 14.2/ 7. 4.73

POSITION LAID= 28 3.2N 69 51.8W DISPLACEMENT ORIGIN= 28 3.0N
(-1.3KM E 0.3KM N) 69 51.0W

NAVIGATION BASED ON LORAN C + SAT

DEPTH(M)= NOMINAL OBSERVED S.D
1500 1650 30

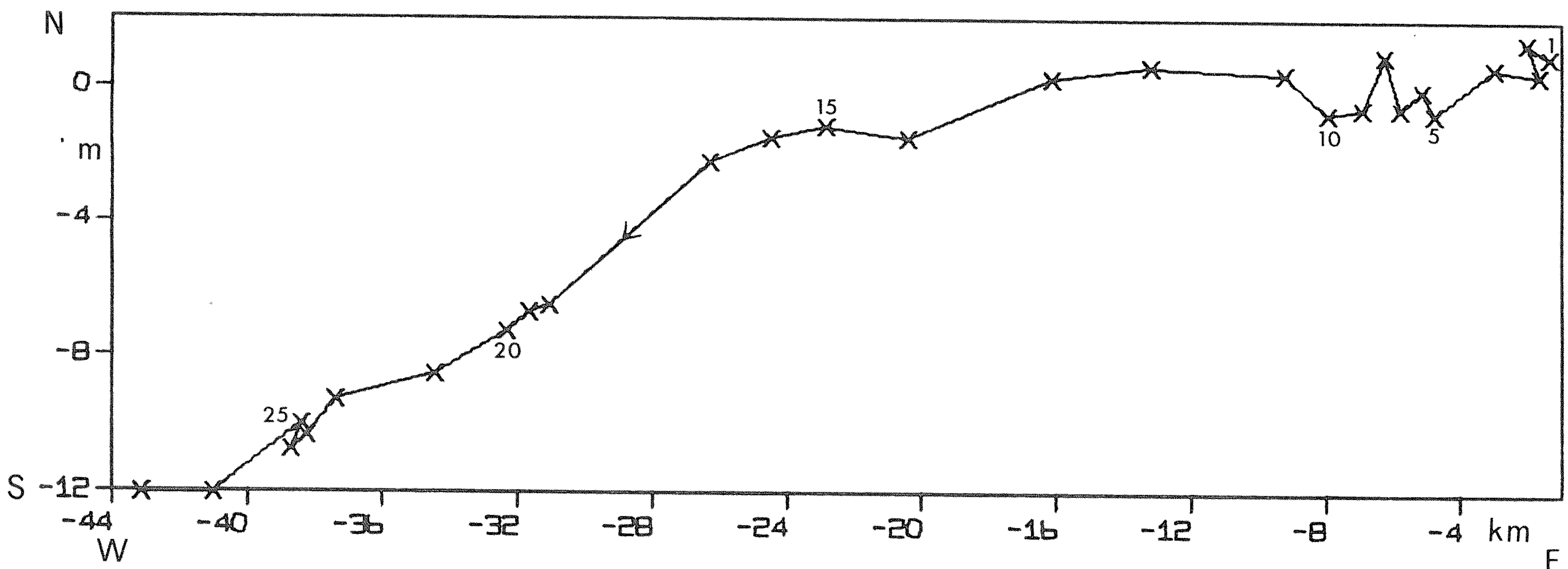
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
	1	7. 4	23.4	28	3.5	69	51.8	9.2	-1.3	0.9		
	2	8. 4	3.7	28	3.7	69	52.2	13.5	-2.0	1.3	4.9	299
*	3	8. 4	6.7	28	3.2	69	52.0	16.5	-1.6	0.4	9.1	160
	4	9. 4	10.3	28	3.3	69	52.8	44.1	-2.9	0.6	1.3	278
	5	10. 4	1.8	28	2.6	69	53.9	59.6	-4.8	-0.7	4.0	234
	6	10. 4	16.0	28	3.0	69	54.1	73.8	-5.1	-0.0	1.6	336
	7	10. 4	22.1	28	2.7	69	54.5	79.9	-5.7	-0.6	3.9	230
	8	11. 4	4.3	28	3.5	69	54.8	86.1	-6.2	0.9	7.0	342
	9	11. 4	19.0	28	2.7	69	55.2	100.8	-6.9	-0.6	3.1	204
	10	12. 4	7.3	28	2.6	69	55.8	113.1	-7.9	-0.7	2.3	259
	11	13. 4	6.5	28	3.2	69	56.6	136.3	-9.2	0.4	2.1	310
	12	15. 4	0.7	28	3.3	69	59.0	178.5	-13.1	0.6	2.6	273
	13	16. 4	2.4	28	3.1	70	0.8	204.2	-16.1	0.2	3.2	263
	14	17. 4	23.5	28	2.2	70	3.4	249.3	-20.3	-1.5	2.8	249
	15	18. 4	14.6	28	2.4	70	4.9	264.4	-22.8	-1.1	4.6	279
	16	18. 4	22.9	28	2.2	70	5.9	272.7	-24.4	-1.5	5.6	257
	17	19. 4	10.8	28	1.8	70	7.0	284.6	-26.2	-2.2	4.6	248
	18	21. 4	5.6	27	59.5	70	9.9	327.4	-31.0	-6.5	4.1	228
	19	21. 4	12.5	27	59.4	70	10.3	334.3	-31.6	-6.6	2.7	254
	20	21. 4	18.6	27	59.1	70	10.7	340.4	-32.3	-7.2	3.9	230
	21	22. 4	12.8	27	58.4	70	12.0	358.6	-34.4	-8.5	3.8	239
	22	22. 4	23.7	27	58.0	70	13.8	369.5	-37.4	-9.2	7.8	256
	23	23. 4	14.8	27	57.4	70	14.3	384.6	-38.2	-10.3	2.5	216
	24	23. 4	18.0	27	57.2	70	14.6	387.8	-38.7	-10.7	5.3	233
	25	24. 4	1.3	27	57.6	70	14.4	395.1	-38.4	-10.0	3.1	24
	26	24. 4	22.4	27	56.5	70	16.0	416.2	-41.0	-12.0	4.4	232
*	27	25. 4	15.9	27	56.5	70	17.3	433.7	-43.1	-12.0	3.4	270

MEAN SPEED ALONG TRAJECTORY= 3.4 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 27 = 2.9 CM/SEC 253 DEGREES TRUE

SERIAL NO = 246

FLOAT DESIGNATION = 10

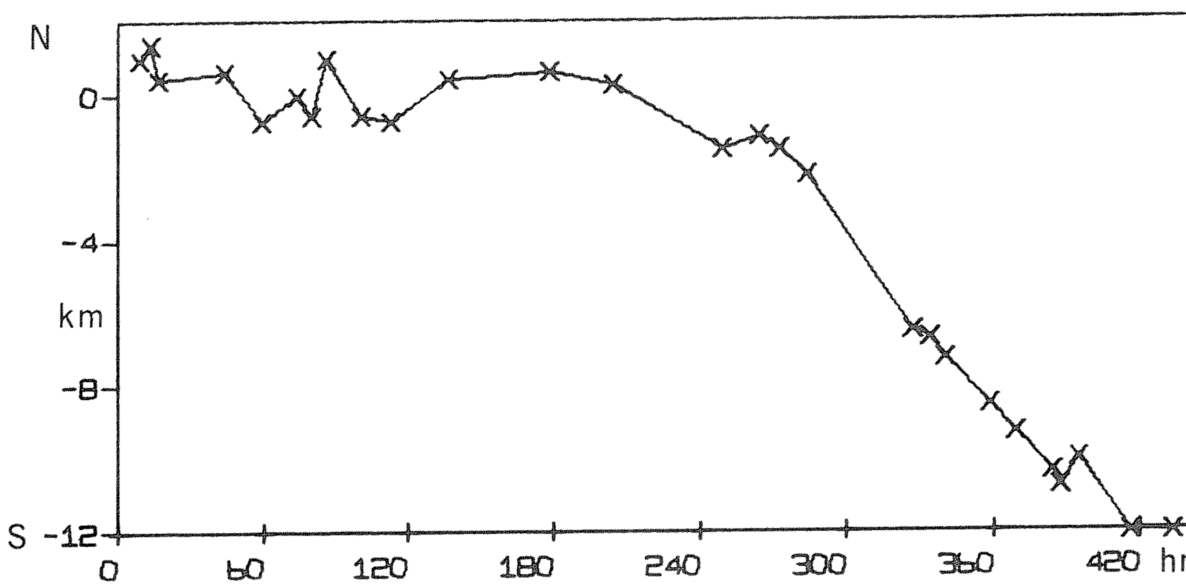
DATE AND TIME LAID = 14.2/7.4.73



SERIAL NO = 246

FLOAT DESIGNATION = 10

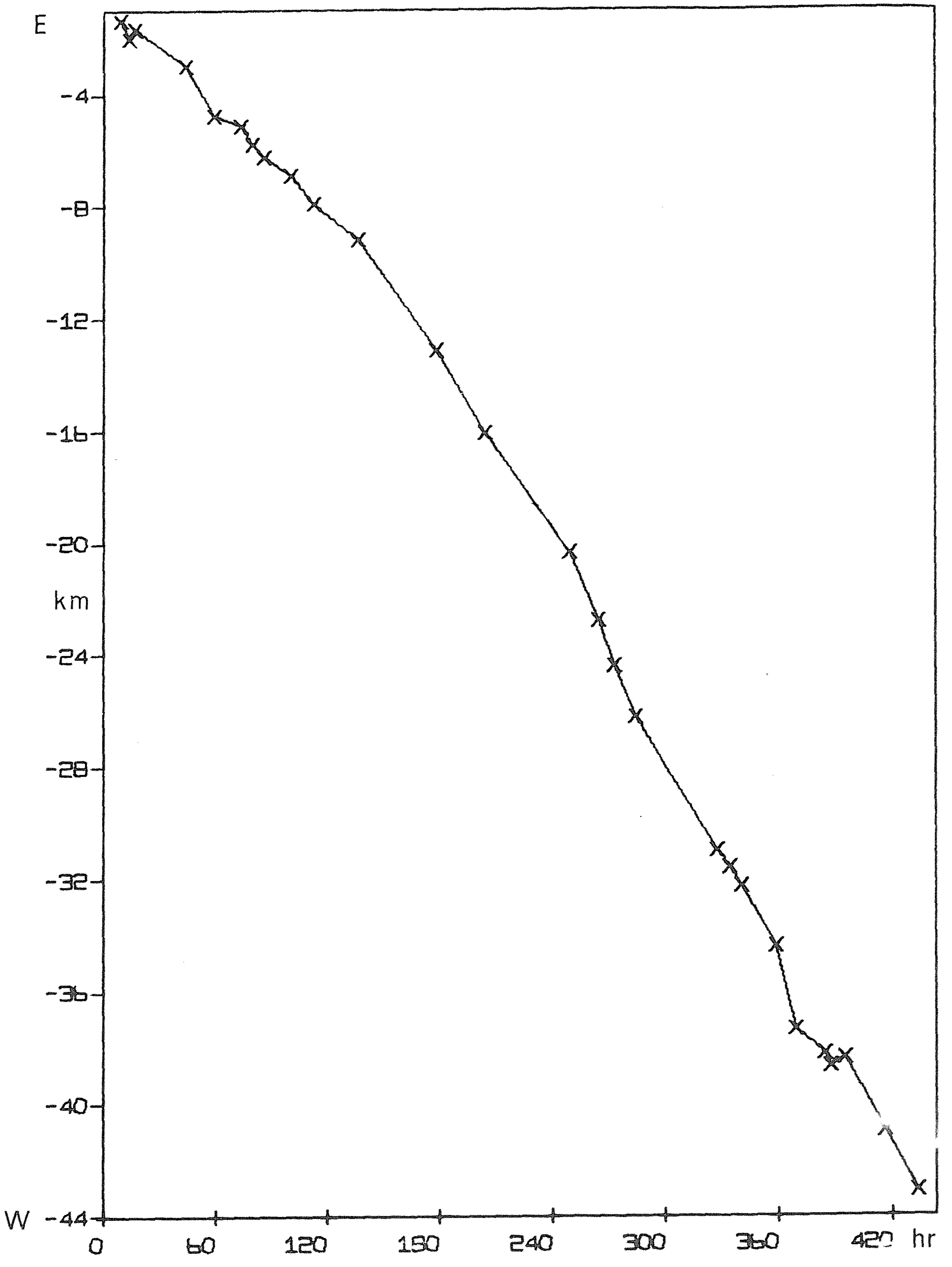
DATE AND TIME LAID = 14.2/7.4.73



SERIAL NO = 246

FLOAT DESIGNATION = 10

DATE AND TIME LAID = 14.2/7.4.73



SERIAL NO= 247

FLOAT DESIGNATION= 17 DATE AND TIME LAID= 14.3/ 7. 4.73

POSITION LAID= 28 3.2N 69 51.8W DISPLACEMENT ORIGIN= 28 3.0N
(-1.3KM E 0.3KM N) 69 51.0W

NAVIGATION BASED ON LORAN C + SAT

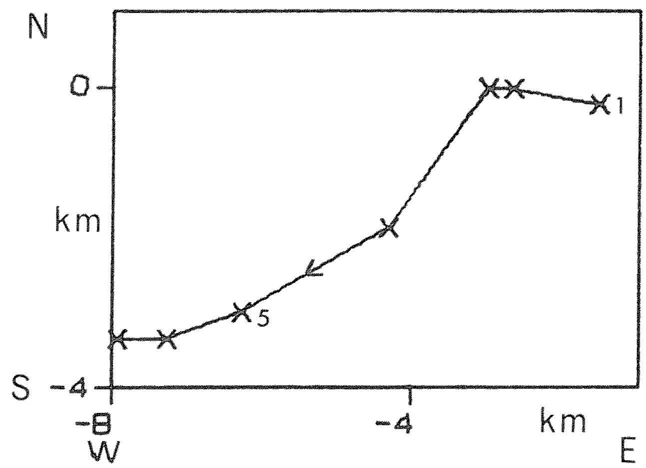
DEPTH(M)= NOMINAL OBSERVED S.D
3000 2870 30

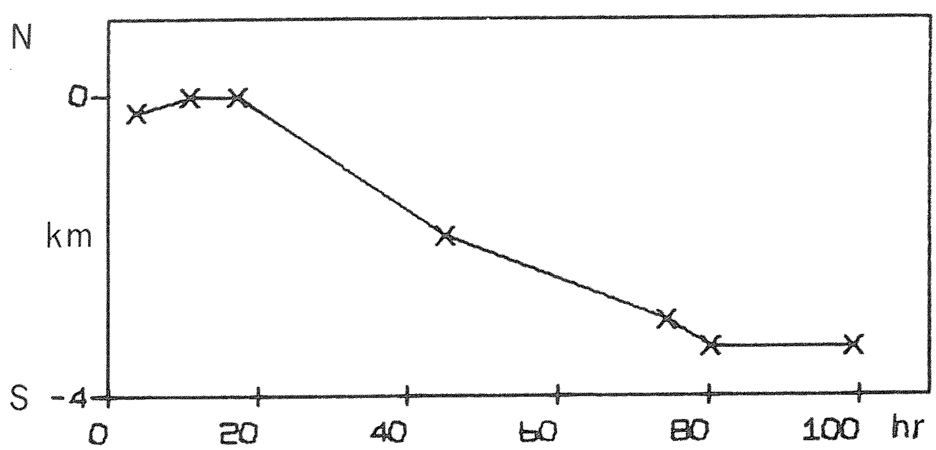
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
	1	7. 4	18.0	28	2.9	69	51.9	3.7	-1.5	-0.2		
	2	8. 4	1.1	28	3.0	69	52.6	10.8	-2.6	-0.0	4.5	279
*	3	8. 4	7.5	28	3.0	69	52.8	17.2	-2.9	-0.0	1.4	270
	4	9. 4	11.2	28	2.0	69	53.6	44.9	-4.3	-1.8	2.3	215
	5	10. 4	16.6	28	1.4	69	54.8	74.3	-6.2	-3.0	2.1	241
	6	10. 4	22.5	28	1.2	69	55.4	80.2	-7.2	-3.3	4.9	249
	7	11. 4	17.5	28	1.2	69	55.8	99.2	-7.9	-3.3	1.0	270

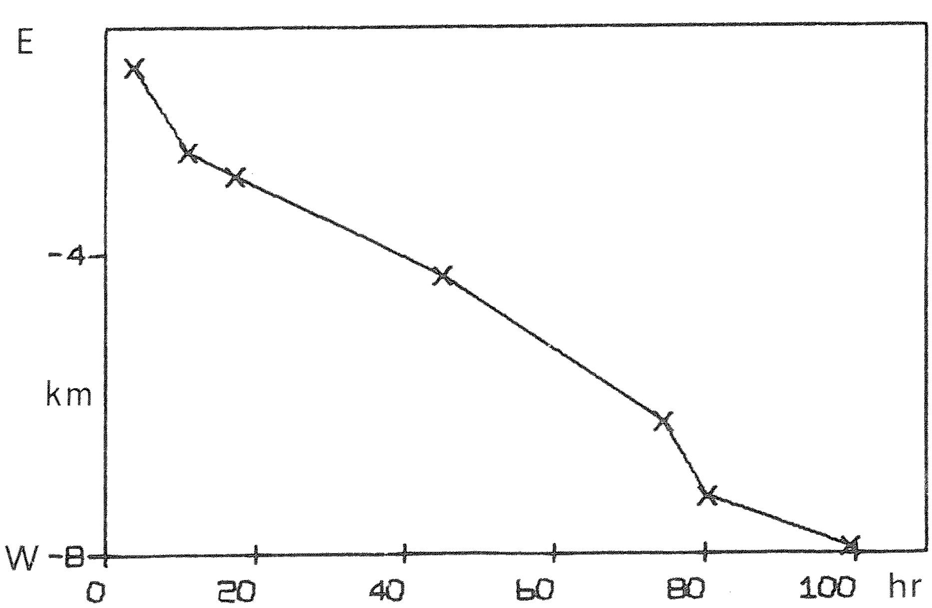
MEAN SPEED ALONG TRAJECTORY= 2.2 CM/SEC
MEAN VELOCITY. FIX 1 - FIX 7 = 2.1 CM/SEC 244 DEGREES TRUE

SERIAL NO = 247

FLOAT DESIGNATION = 17 DATE AND TIME LAID = 14.3/7.4.73







SERIAL NO= 248

FLOAT DESIGNATION= 8   DATE AND TIME LAID= 17.8/ 7. 4.73

POSITION LAID= 28 1.3N 70 4.2W DISPLACEMENT ORIGIN= 28 0.0N
(-1.9KM E 2.4KM N)   70 3.0W

NAVIGATION BASED ON LORAN C + SAT

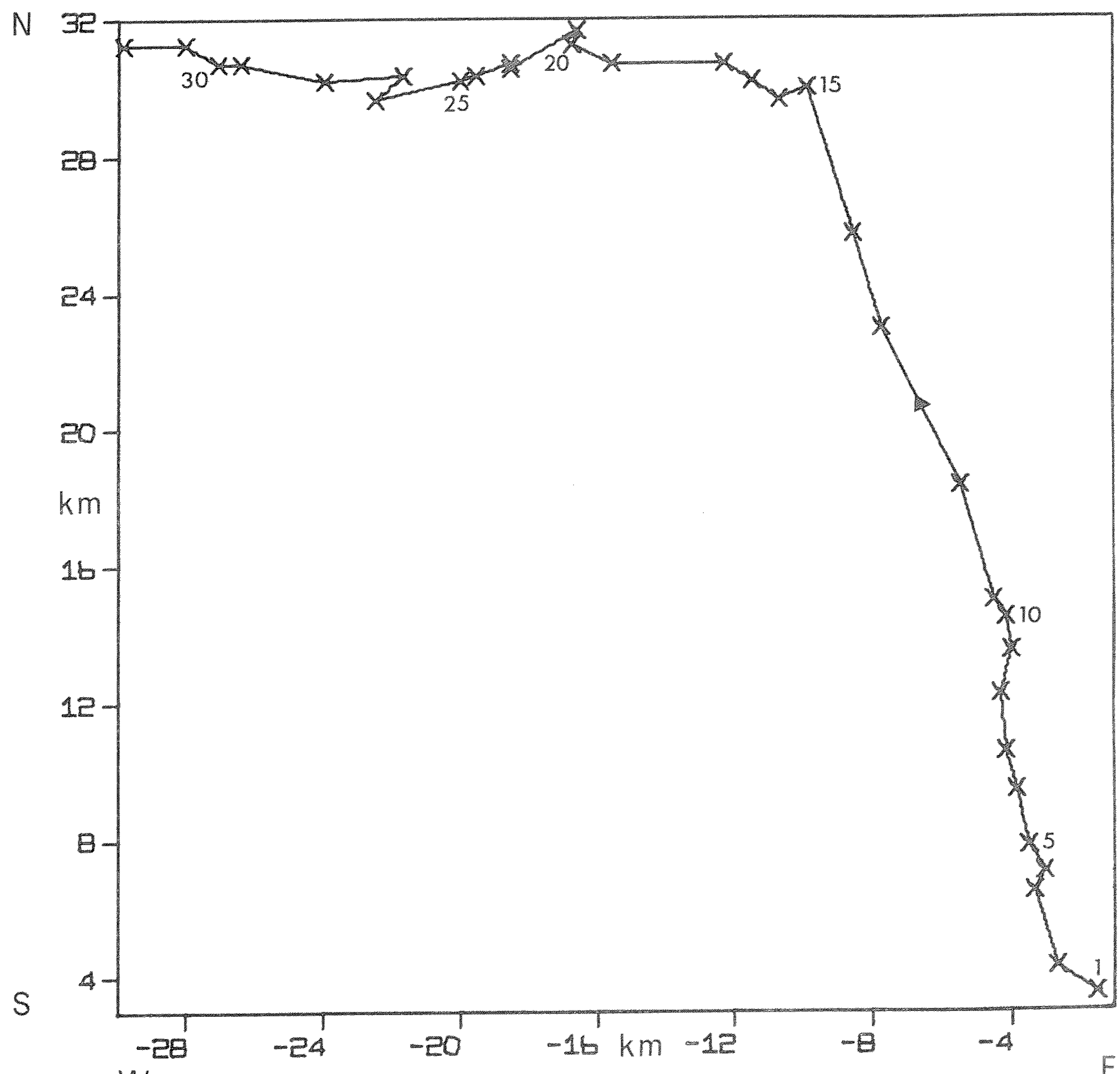
DEPTH(M)= NOMINAL OBSERVED S.D
4000 3700 40

FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	7. 4	23.4	28	1.9	70	3.9	5.6	-1.5	3.5		
2	8. 4	13.9	28	2.3	70	4.6	20.1	-2.6	4.2	2.6	303
3	9. 4	6.9	28	3.5	70	5.0	37.1	-3.3	6.5	3.8	344
4	9. 4	14.1	28	3.8	70	4.8	44.3	-3.0	7.0	2.5	31
5	10. 4	0.5	28	4.2	70	5.1	54.7	-3.4	7.8	2.4	324
6	10. 4	9.9	28	5.1	70	5.3	64.1	-3.8	9.4	5.0	349
7	10. 4	22.5	28	5.7	70	5.5	76.7	-4.1	10.5	2.5	344
8	11. 4	8.8	28	6.6	70	5.6	87.0	-4.3	12.2	4.5	354
9	11. 4	17.0	28	7.3	70	5.4	95.2	-3.9	13.5	4.5	14
10	11. 4	23.4	28	7.8	70	5.5	101.6	-4.1	14.4	4.1	350
11	12. 4	8.5	28	8.1	70	5.7	110.7	-4.4	15.0	2.0	329
12	13. 4	6.5	28	9.9	70	6.3	132.7	-5.4	18.3	4.4	344
13	14. 4	18.2	28	12.4	70	7.7	168.4	-7.7	22.9	4.0	334
14	16. 4	6.7	28	13.9	70	8.2	204.9	-8.5	25.7	2.2	344
15	17. 4	20.3	28	16.2	70	9.0	242.5	-9.8	29.9	3.3	343
16	18. 4	7.9	28	16.0	70	9.5	254.1	-10.6	29.6	2.2	246
17	18. 4	22.9	28	16.3	70	10.0	269.1	-11.5	30.1	1.8	304
* 18	19. 4	7.8	28	16.6	70	10.5	278.0	-12.3	30.7	3.1	304
19	21. 4	5.6	28	16.6	70	12.5	323.8	-15.5	30.7	2.0	270
20	21. 4	18.6	28	16.9	70	13.2	336.8	-16.7	31.2	2.7	296
21	22. 4	5.4	28	17.1	70	13.1	347.6	-16.5	31.6	1.0	24
22	22. 4	12.8	28	16.5	70	14.3	355.0	-18.5	30.5	8.5	241
23	22. 4	22.5	28	16.6	70	14.3	364.7	-18.5	30.7	0.5	0
24	23. 4	6.3	28	16.4	70	14.9	372.5	-19.5	30.3	3.7	249
25	23. 4	10.3	28	16.3	70	15.2	376.5	-20.0	30.1	3.6	249
26	24. 4	0.0	28	16.0	70	16.7	390.2	-22.4	29.6	5.1	257
27	24. 4	6.5	28	16.4	70	16.2	396.7	-21.6	30.3	4.7	48
28	25. 4	8.6	28	16.3	70	17.6	422.8	-23.9	30.1	2.4	265
29	26. 4	6.9	28	16.6	70	19.1	445.1	-26.3	30.7	3.1	283
30	26. 4	9.2	28	16.6	70	19.5	447.4	-27.0	30.7	7.9	270
* 31	26. 4	13.8	28	16.9	70	20.1	452.0	-28.0	31.2	6.8	299
32	27. 4	9.4	28	16.9	70	21.2	471.6	-29.8	31.2	2.6	270

MEAN SPEED ALONG TRAJECTORY= 3.1 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 32 = 2.4 CM/SEC 314 DEGREES TRUE
// END 27 FEB 74 15.302 HRS

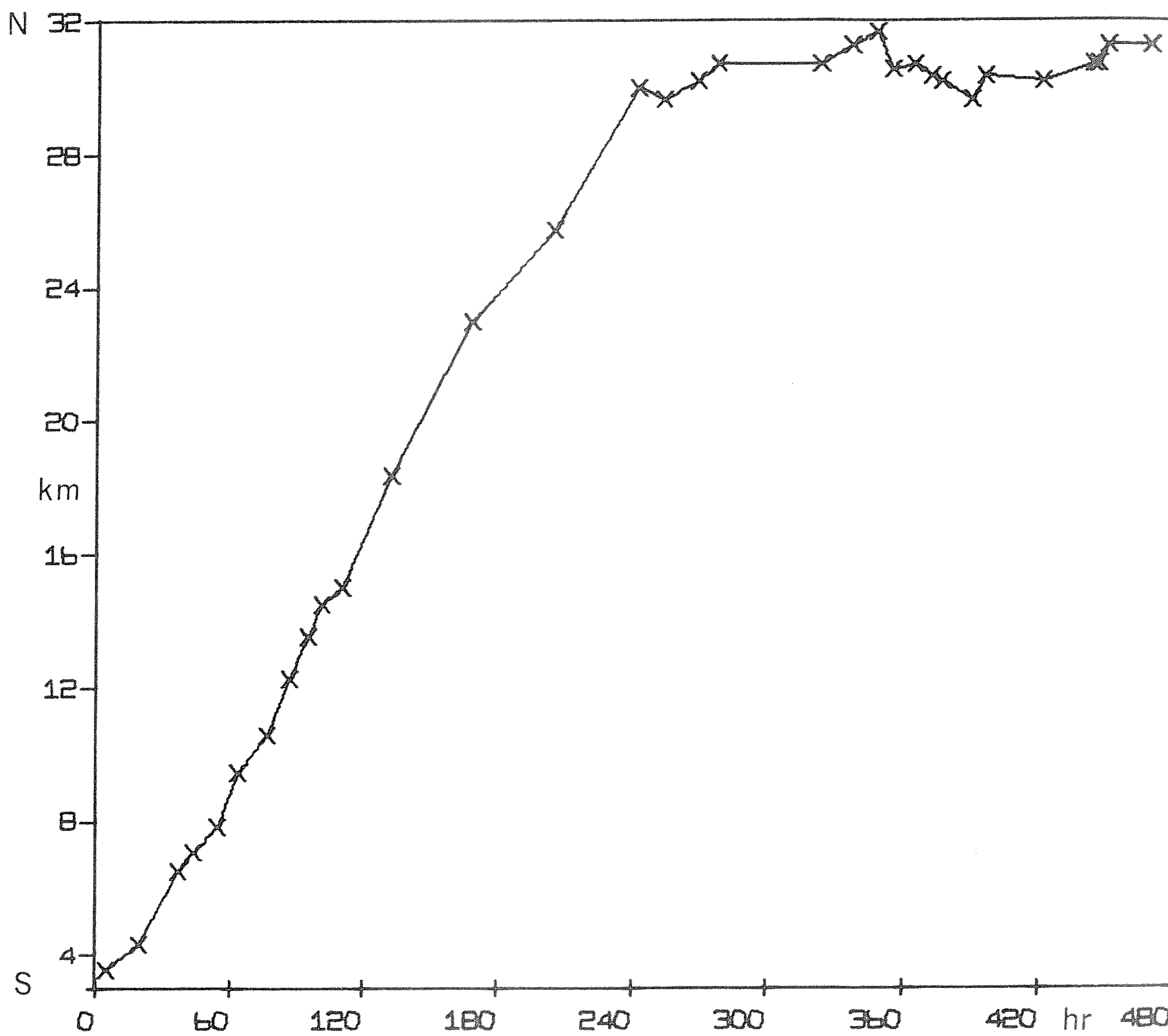
SERIAL NO: 248

FLOAT DESIGNATION: 8   DATE AND TIME LAID: 17.8/7.4.73.



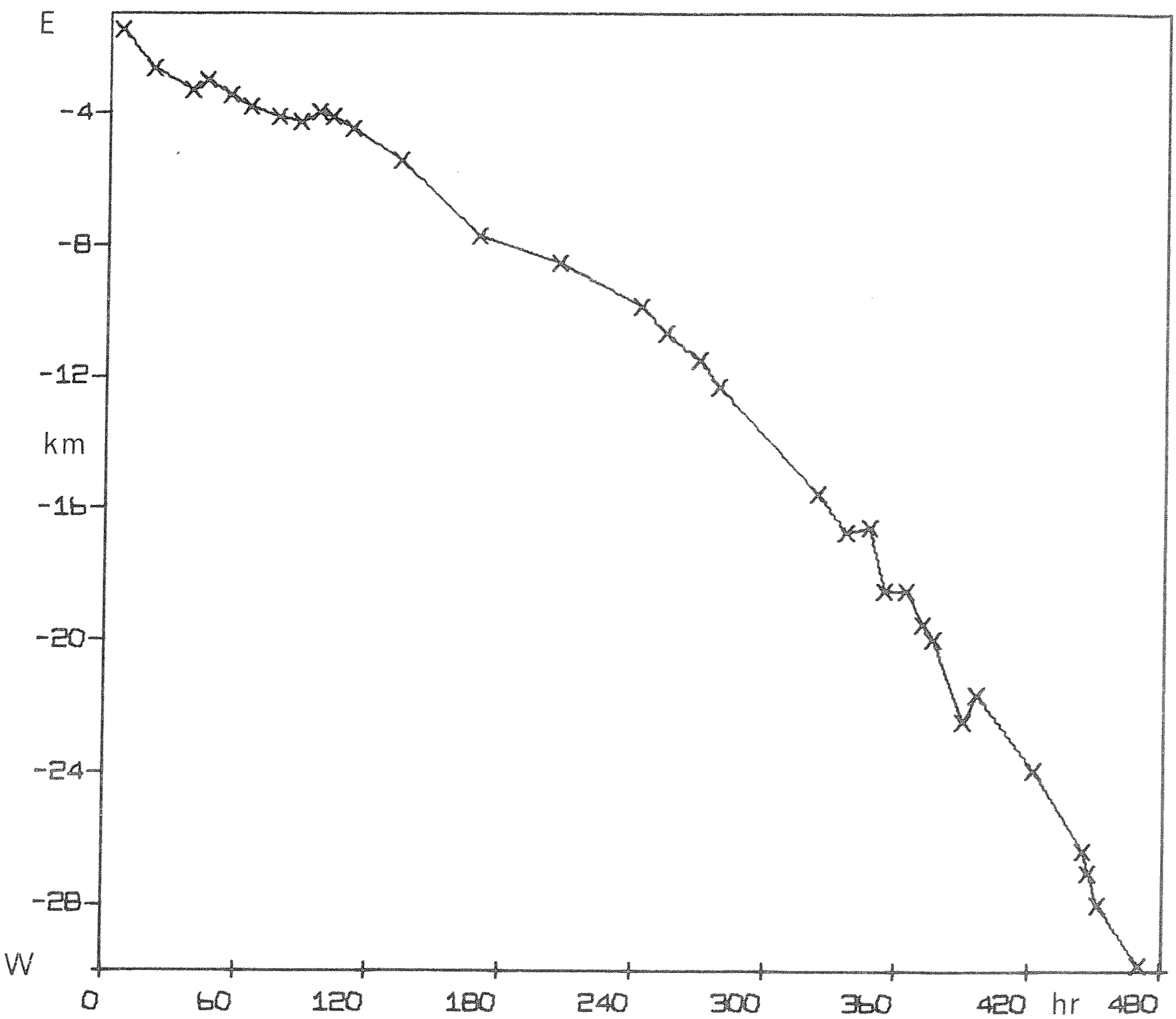
SERIAL NO: 248

FLOAT DESIGNATION: 8 DATE AND TIME LAID: 17.8/7.4.73.



SERIAL NO: 248

FLOAT DESIGNATION: 8   DATE AND TIME LAID: 17.8/7.4.73.



SERIAL NO= 249

FLOAT DESIGNATION= 11 DATE AND TIME LAID= 12.1/ 8. 4.73

POSITION LAID= 28 1.7N 70 4.2W DISPLACEMENT ORIGIN= 28 0.0N
(-1.9KM E 3.1KM N) 70 3.0W

NAVIGATION BASED ON LORAN C + SAT

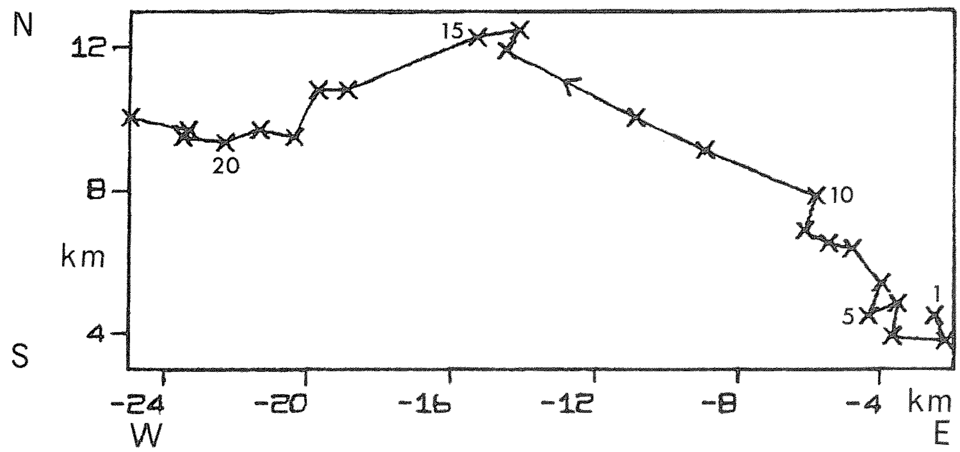
DEPTH(M)=	NOMINAL	OBSERVED	S.D
	1500	1620	50

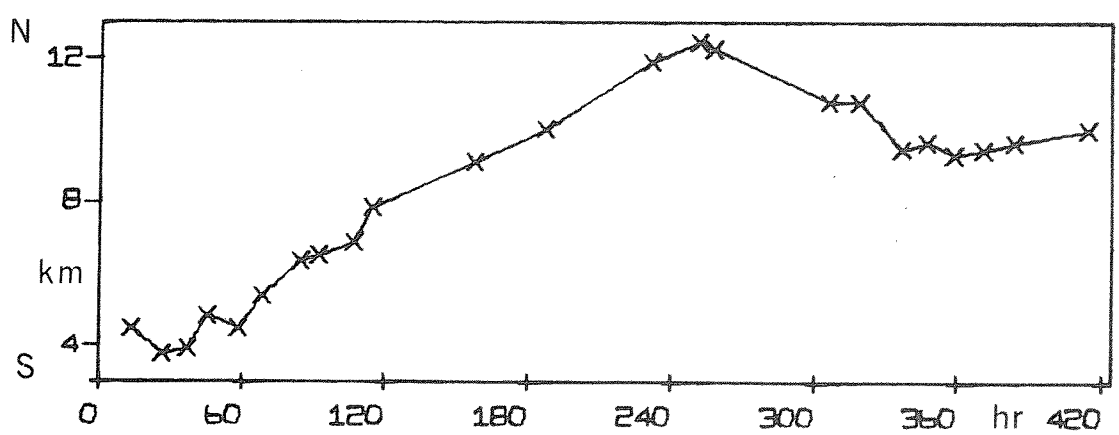
FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	9. 4	1.4	28	2.4	70	4.5	13.3	-2.5	4.4		
2	9. 4	15.1	28	2.0	70	4.3	27.0	-2.1	3.7	1.6	156
3	10. 4	1.8	28	2.1	70	5.2	37.7	-3.6	3.9	3.9	277
4	10. 4	9.9	28	2.6	70	5.1	45.8	-3.4	4.8	3.2	10
5	10. 4	22.5	28	2.4	70	5.6	58.4	-4.3	4.4	2.0	246
6	11. 4	8.8	28	2.9	70	5.4	68.7	-3.9	5.4	2.6	20
7	12. 4	0.4	28	3.4	70	5.9	84.3	-4.8	6.3	2.2	318
8	12. 4	8.0	28	3.5	70	6.3	91.9	-5.4	6.5	2.5	286
9	12. 4	23.2	28	3.7	70	6.7	107.1	-6.1	6.8	1.4	299
10	13. 4	6.5	28	4.2	70	6.5	114.4	-5.7	7.8	3.7	20
11	15. 4	1.1	28	4.9	70	8.4	157.0	-8.8	9.1	2.2	293
12	16. 4	6.7	28	5.4	70	9.6	186.6	-10.8	10.0	2.0	295
13	18. 4	3.3	28	6.4	70	11.8	231.2	-14.4	11.8	2.5	297
14	18. 4	22.9	28	6.7	70	11.6	250.8	-14.1	12.4	0.9	31
15	19. 4	5.1	28	6.6	70	12.3	257.0	-15.2	12.2	5.2	261
16	21. 4	5.6	28	5.8	70	14.5	305.5	-18.8	10.7	2.2	248
17	21. 4	18.6	28	5.8	70	15.0	318.5	-19.7	10.7	1.8	270
18	22. 4	12.8	28	5.1	70	15.4	336.7	-20.3	9.4	2.2	207
* 19	22. 4	23.3	28	5.2	70	16.0	347.2	-21.3	9.6	2.6	281
20	23. 4	10.3	28	5.0	70	16.6	358.2	-22.3	9.2	2.7	249
21	23. 4	22.9	28	5.1	70	17.3	370.8	-23.4	9.4	2.6	279
22	24. 4	12.0	28	5.2	70	17.2	383.9	-23.3	9.6	0.5	42
* 23	25. 4	18.4	28	5.4	70	18.2	414.3	-24.9	10.0	1.5	283

MEAN SPEED ALONG TRAJECTORY= 2.2 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 23 = 1.6 CM/SEC 284 DEGREES TRUE

SERIAL NO = 249

FLOAT DESIGNATION = 11 DATE AND TIME LAID = 12.1/8.4.73

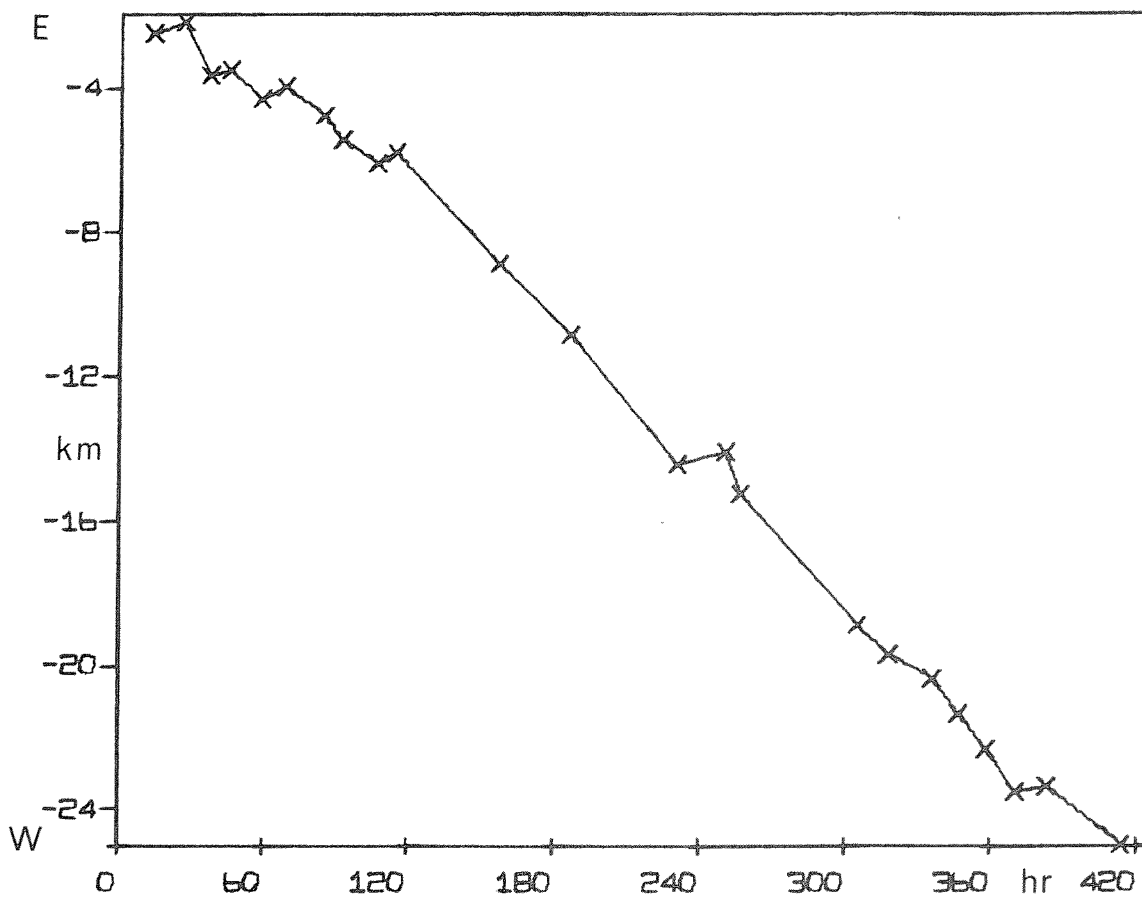




SERIAL NO = 249

FLOAT DESIGNATION = 11

DATE AND TIME LAID = 12.1/8.4.73



SERIAL NO= 250

FLOAT DESIGNATION= 9 DATE AND TIME LAID= 16.0/ 8. 4.73

POSITION LAID= 27 59.4N 70 9.6W DISPLACEMENT ORIGIN= 28 0.0N
(0.6KM E -1.1KM N) 70 10.0W

NAVIGATION BASED ON LORAN C + SAT

DEPTH(M)= NOMINAL OBSERVED S.D
4000 3750 60

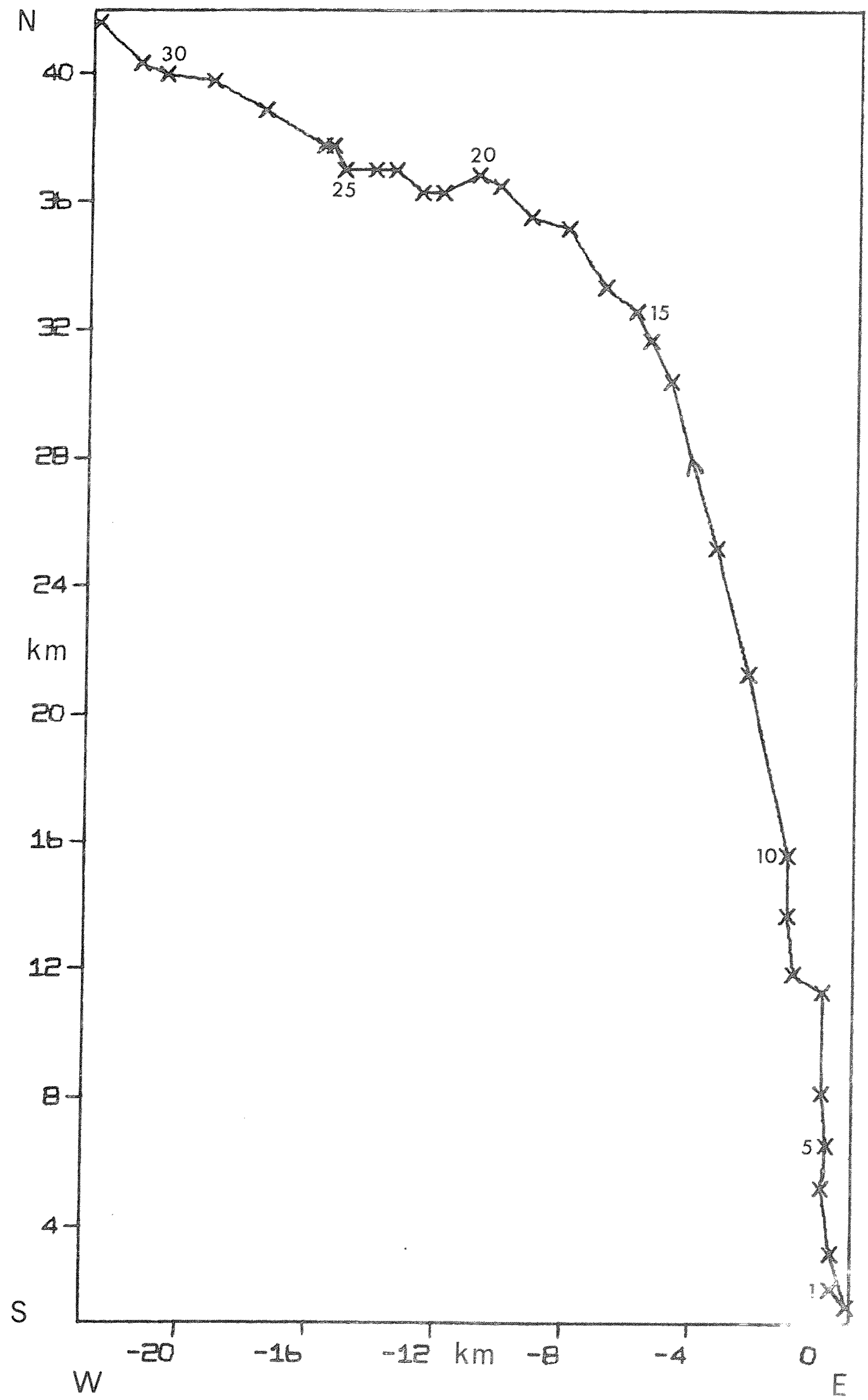
FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	9. 4	3.5	28	1.1	70	9.8	11.5	0.3	2.0		
2	9. 4	14.1	28	0.8	70	9.5	22.1	0.8	1.5	1.9	138
3	10. 4	0.5	28	1.7	70	9.8	32.5	0.3	3.1	4.6	344
4	10. 4	9.9	28	2.8	70	10.0	41.9	0.0	5.2	6.1	351
5	10. 4	23.4	28	3.5	70	9.9	55.4	0.2	6.5	2.7	7
6	11. 4	8.0	28	4.4	70	10.0	64.0	0.0	8.1	5.4	354
7	11. 4	23.4	28	6.1	70	10.0	79.4	0.0	11.3	5.7	0
8	12. 4	8.5	28	6.4	70	10.5	88.5	-0.8	11.8	3.0	304
9	12. 4	20.9	28	7.4	70	10.6	100.9	-1.0	13.7	4.2	355
10	13. 4	6.5	28	8.4	70	10.6	110.5	-1.0	15.5	5.3	0
11	14. 4	17.3	28	11.5	70	11.4	145.3	-2.3	21.2	4.7	347
12	16. 4	2.4	28	13.6	70	12.0	178.4	-3.3	25.1	3.4	346
13	17. 4	22.7	28	16.4	70	12.9	222.7	-4.7	30.3	3.4	344
14	18. 4	7.9	28	17.1	70	13.3	231.9	-5.4	31.6	4.4	333
15	18. 4	18.7	28	17.6	70	13.6	242.7	-5.9	32.5	2.7	332
* 16	19. 4	7.3	28	18.0	70	14.2	255.3	-6.9	33.2	2.7	307
17	20. 4	2.0	28	19.0	70	14.9	274.0	-8.0	35.1	3.2	329
18	21. 4	5.6	28	19.2	70	15.6	301.6	-9.2	35.5	1.2	299
19	21. 4	18.6	28	19.7	70	16.2	314.6	-10.1	36.4	2.9	313
20	22. 4	5.4	28	19.9	70	16.6	325.4	-10.8	36.8	1.9	290
21	22. 4	12.8	28	19.6	70	17.3	332.8	-11.9	36.2	4.8	244
22	22. 4	22.5	28	19.6	70	17.7	342.5	-12.6	36.2	1.9	270
23	23. 4	7.9	28	20.0	70	18.2	351.9	-13.4	36.9	3.3	312
24	23. 4	11.5	28	20.0	70	18.6	355.5	-14.1	36.9	5.0	270
25	24. 4	1.3	28	20.0	70	19.2	369.3	-15.0	36.9	2.0	270
26	24. 4	6.5	28	20.4	70	19.4	374.5	-15.4	37.7	4.3	326
27	24. 4	10.3	28	20.4	70	19.6	378.3	-15.7	37.7	2.4	270
28	25. 4	8.6	28	21.0	70	20.7	400.6	-17.5	38.8	2.6	302
29	25. 4	22.4	28	21.5	70	21.7	414.4	-19.1	39.7	3.8	290
30	26. 4	8.0	28	21.6	70	22.6	424.0	-20.6	39.9	4.3	277
* 31	26. 4	20.2	28	21.8	70	23.1	436.2	-21.4	40.3	2.0	294
32	27. 4	9.4	28	22.5	70	23.9	449.4	-22.7	41.6	3.9	315

MEAN SPEED ALONG TRAJECTORY= 3.4 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 32 = 2.9 CM/SEC 330 DEGREES TRUE

SERIAL NO = 250

FLOAT DESIGNATION = 9

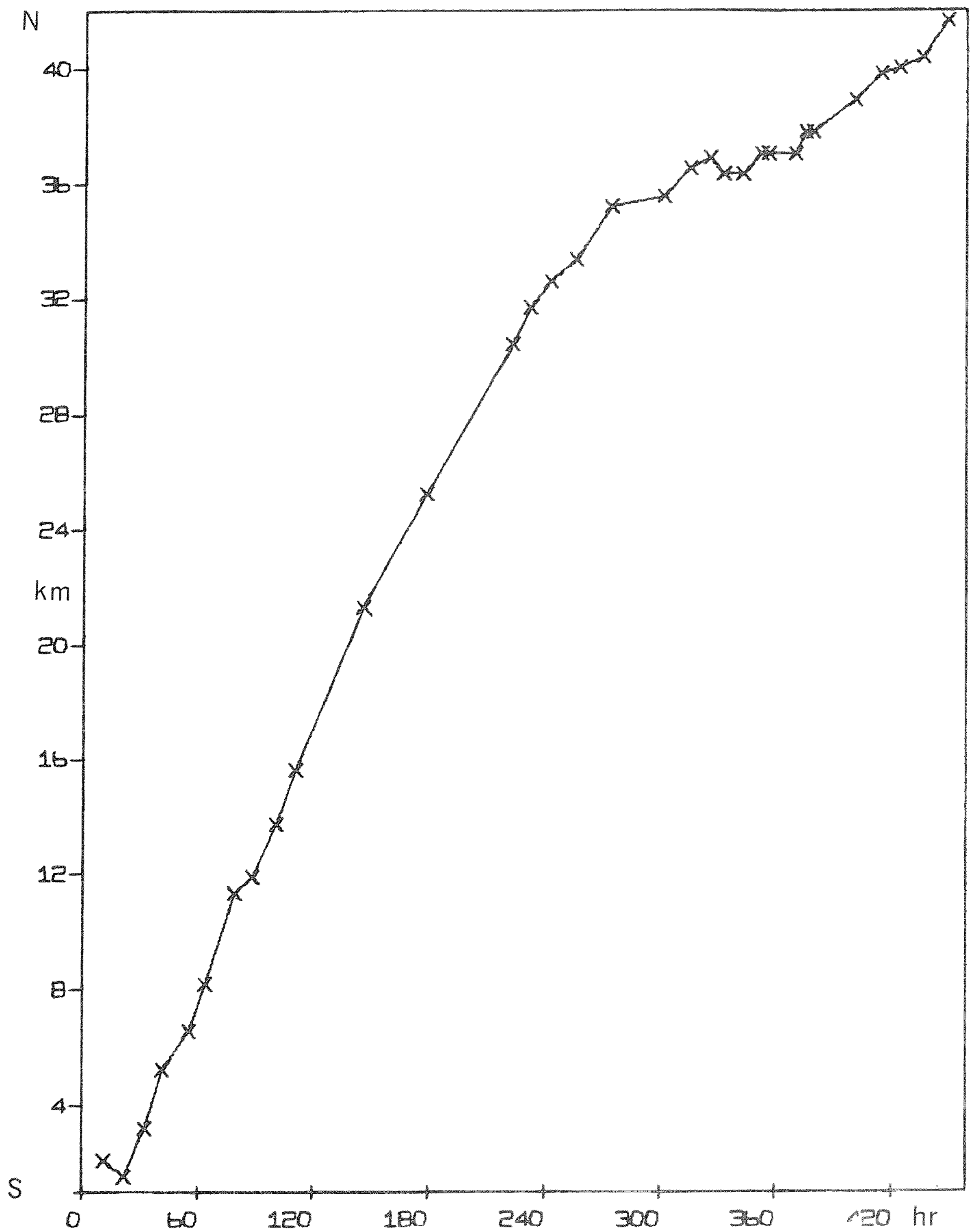
DATE AND TIME LAID = 16.0/8.4.73



SERIAL NO = 250

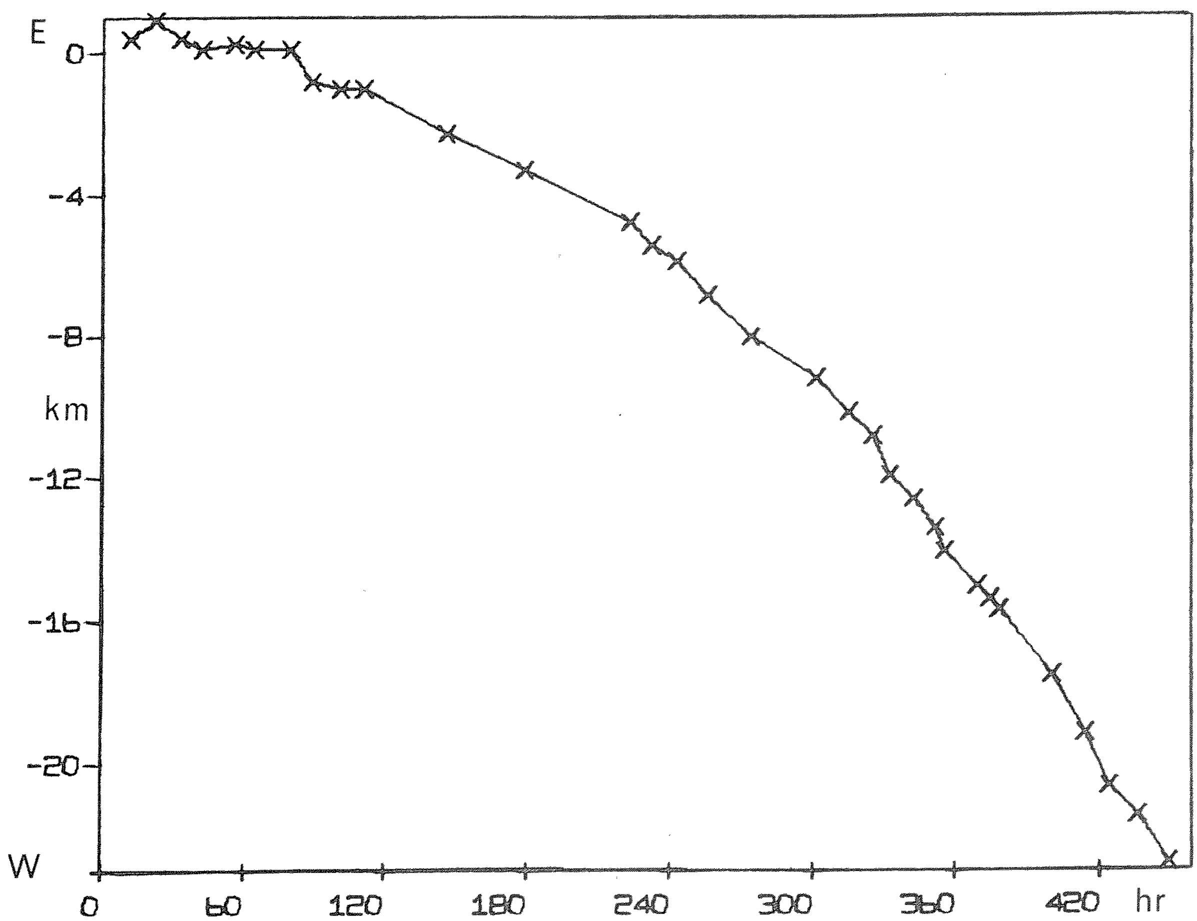
FLOAT DESIGNATION = 9

DATE AND TIME LAID = 16.0/8.4.73



SERIAL NO = 250

FLOAT DESIGNATION = 9 DATE AND TIME LAID = 16.0/8.4.73



SERIAL NO= 251

FLOAT DESIGNATION= 13 DATE AND TIME LAID= 16.0/ 8. 4.73

POSITION LAID= 27 58.9N 70 9.6W DISPLACEMENT ORIGIN= 28 0.0N
(0.6KM E -2.0KM N) 70 10.0W

NAVIGATION BASED ON LORAN C + SAT

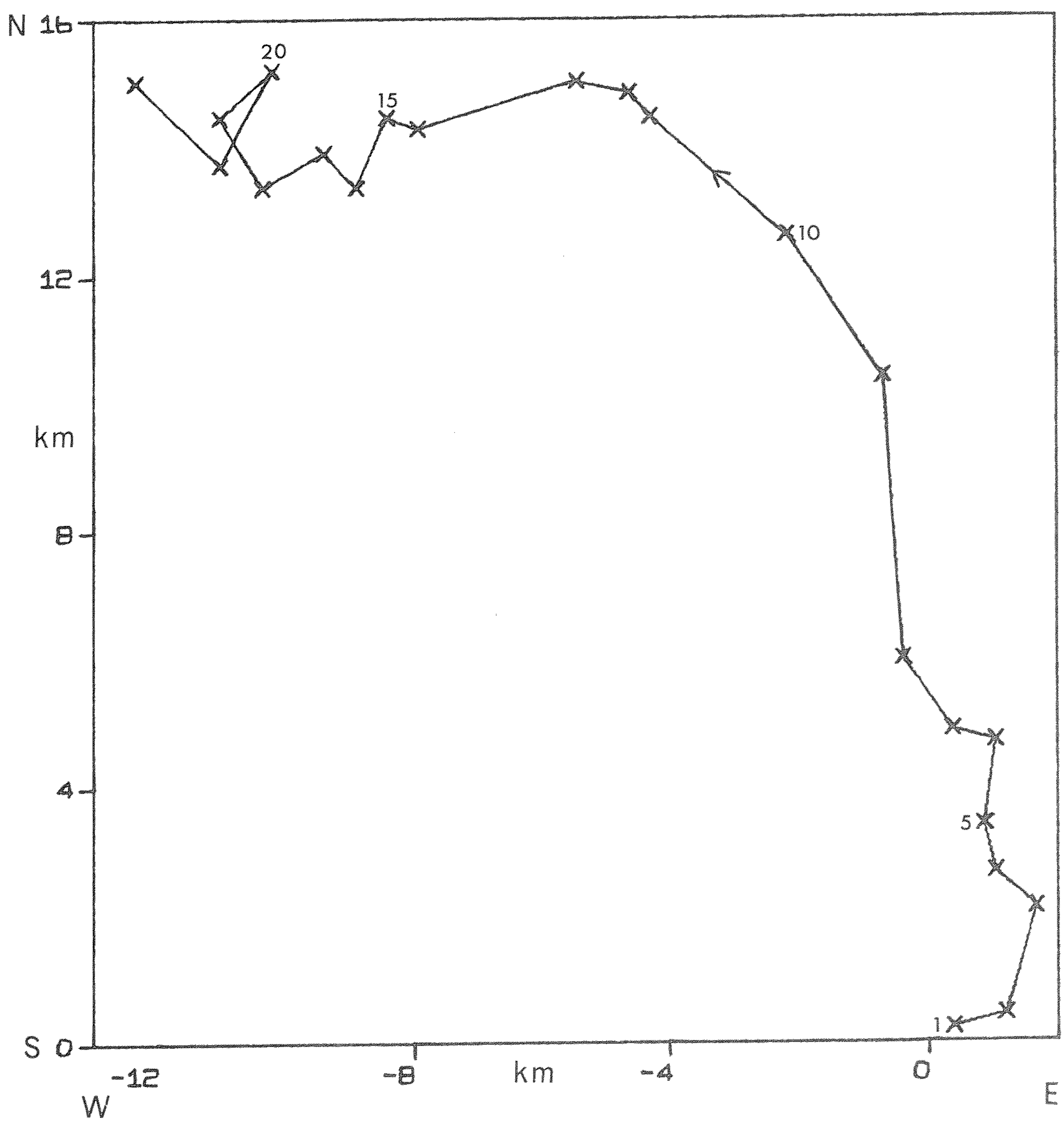
DEPTH(M)= NOMINAL OBSERVED S.D
1500 1620 30

FIX NO	DATE	TIME GMT	FIX POSITION LAT.N	FIX POSITION LONG.W	HOURS SINCE LAID	DISPLACEMENT (KM) +E-W X	DISPLACEMENT (KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	9. 4	3.5	28 0.1	70 9.8	11.5	0.3	0.2		
2	9. 4	14.1	28 0.2	70 9.3	22.1	1.1	0.4	2.2	77
3	10. 4	9.9	28 1.1	70 9.0	41.9	1.6	2.0	2.4	16
4	10. 4	23.4	28 1.4	70 9.4	55.4	1.0	2.6	1.9	310
5	11. 4	8.0	28 1.8	70 9.5	64.0	0.8	3.3	2.4	347
6	11. 4	18.3	28 2.5	70 9.4	74.3	1.0	4.6	3.5	7
7	12. 4	8.5	28 2.6	70 9.8	88.5	0.3	4.8	1.3	286
8	12. 4	20.9	28 3.2	70 10.2	100.9	-0.3	5.9	2.9	329
9	14. 4	17.8	28 5.6	70 10.4	145.8	-0.7	10.3	2.8	356
10	16. 4	5.6	28 6.8	70 11.3	181.6	-2.1	12.6	2.1	326
11	18. 4	4.7	28 7.8	70 12.6	228.7	-4.3	14.4	1.7	311
12	18. 4	18.7	28 8.0	70 12.8	242.7	-4.6	14.8	1.0	318
13	19. 4	9.4	28 8.1	70 13.3	257.4	-5.4	15.0	1.6	283
14	21. 4	5.6	28 7.7	70 14.8	301.6	-7.9	14.2	1.6	253
15	21. 4	18.6	28 7.8	70 15.1	314.6	-8.4	14.4	1.1	291
16	22. 4	12.8	28 7.2	70 15.4	332.8	-8.8	13.3	1.9	204
17	23. 4	1.3	28 7.5	70 15.7	345.3	-9.3	13.9	1.6	318
18	23. 4	10.3	28 7.2	70 16.3	354.3	-10.3	13.3	3.5	241
19	23. 4	15.7	28 7.8	70 16.7	359.7	-11.0	14.4	6.6	329
20	24. 4	0.0	28 8.2	70 16.2	368.0	-10.2	15.1	3.7	49
21	24. 4	12.0	28 7.4	70 16.7	380.0	-11.0	13.7	3.9	209
* 22	25. 4	19.1	28 8.1	70 17.5	411.1	-12.3	15.0	1.6	315

MEAN SPEED ALONG TRAJECTORY= 2.1 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 22 = 1.4 CM/SEC 320 DEGREES TRUE

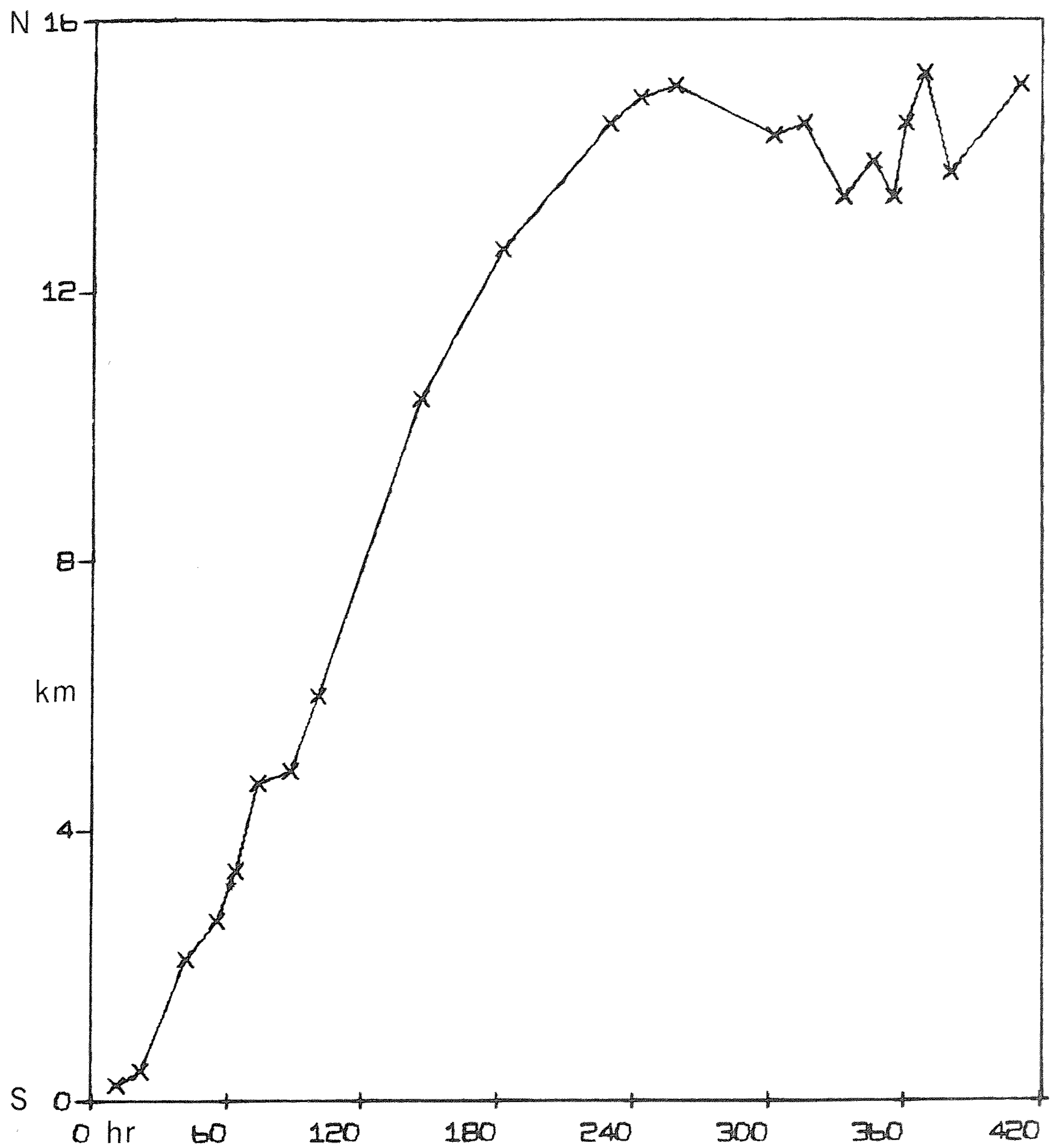
SERIAL NO = 251

FLOAT DESIGNATION = 13 DATE AND TIME LAID = 16.0/8.4.73



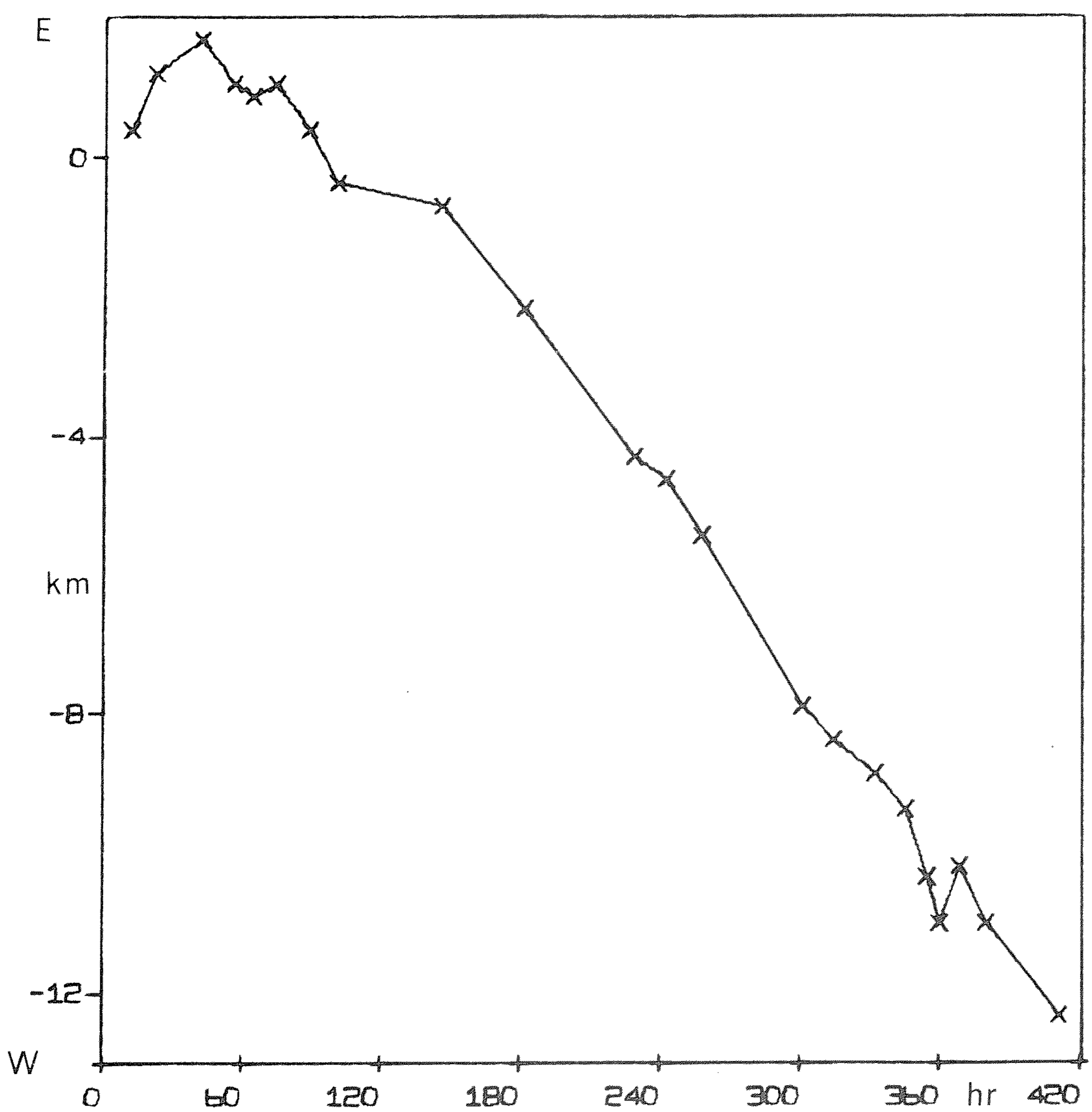
SERIAL NO = 251

FLOAT DESIGNATION = 13 DATE AND TIME LAID = 16.0/8.4.73



SERIAL NO = 251

FLOAT DESIGNATION = 13 DATE AND TIME LAID = 16.0/8.4.73



SERIAL NO= 252

FLOAT DESIGNATION= 16 DATE AND TIME LAID= 16.1/ 8. 4.73

POSITION LAID= 27 59.4N 70 9.6W DISPLACEMENT ORIGIN= 28 0.0N
(0.6KM E -1.1KM N) 70 10.0W

NAVIGATION BASED ON LORAN C + SAT

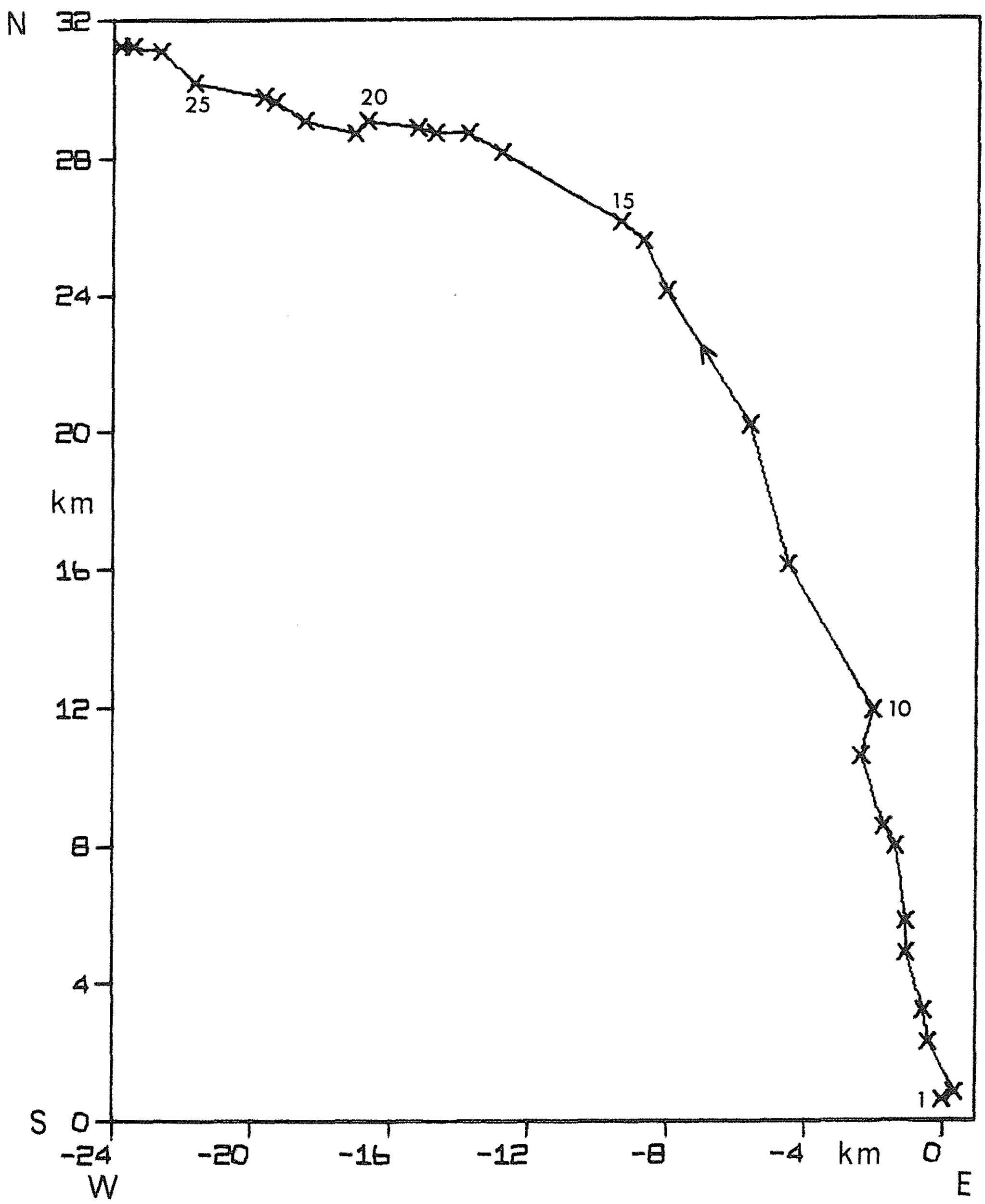
DEPTH(M)= NOMINAL OBSERVED S.D
3000 2920 30

FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	9. 4	3.5	28	0.3	70	10.0	11.4	0.0	0.6		
2	9. 4	14.1	28	0.4	70	9.8	22.0	0.3	0.7	1.0	61
3	10. 4	0.5	28	1.2	70	10.2	32.4	-0.3	2.2	4.3	336
4	10. 4	9.9	28	1.7	70	10.3	41.8	-0.5	3.1	2.8	350
5	10. 4	23.4	28	2.6	70	10.6	55.3	-1.0	4.8	3.6	344
6	11. 4	8.0	28	3.1	70	10.6	63.9	-1.0	5.7	3.0	0
7	12. 4	0.4	28	4.3	70	10.8	80.3	-1.3	7.9	3.8	352
8	12. 4	9.4	28	4.6	70	11.0	89.3	-1.6	8.5	2.0	329
9	12. 4	20.9	28	5.7	70	11.4	100.8	-2.3	10.5	5.2	342
10	13. 4	6.5	28	6.4	70	11.2	110.4	-2.0	11.8	3.9	14
11	14. 4	17.8	28	8.7	70	12.7	145.7	-4.4	16.1	3.9	330
12	16. 4	6.7	28	10.9	70	13.4	182.6	-5.6	20.1	3.2	344
13	17. 4	22.7	28	13.0	70	14.9	222.6	-8.0	24.0	3.2	328
14	18. 4	15.2	28	13.8	70	15.3	239.1	-8.7	25.5	2.7	336
15	19. 4	4.0	28	14.1	70	15.7	251.9	-9.3	26.0	1.9	310
16	21. 4	5.6	28	15.2	70	17.8	301.5	-12.8	28.1	2.2	301
17	21. 4	18.6	28	15.5	70	18.4	314.5	-13.7	28.6	2.4	299
18	22. 4	5.4	28	15.5	70	19.0	325.3	-14.7	28.6	2.5	270
19	22. 4	12.8	28	15.6	70	19.3	332.7	-15.2	28.8	2.0	291
20	23. 4	6.3	28	15.7	70	20.2	350.2	-16.7	29.0	2.4	277
21	23. 4	9.2	28	15.5	70	20.4	353.1	-17.0	28.6	4.7	222
22	24. 4	1.3	28	15.7	70	21.3	369.2	-18.5	29.0	2.6	284
23	24. 4	5.2	28	16.0	70	21.8	373.1	-19.3	29.6	7.0	304
24	24. 4	10.3	28	16.1	70	22.0	378.2	-19.6	29.7	2.0	299
25	25. 4	8.6	28	16.3	70	23.2	400.5	-21.6	30.1	2.5	281
26	25. 4	22.4	28	16.8	70	23.8	414.3	-22.6	31.0	2.7	313
27	26. 4	8.0	28	16.9	70	24.5	423.9	-23.7	31.2	3.4	279
* 28	26. 4	13.4	28	16.9	70	24.3	429.3	-23.4	31.2	1.7	90

MEAN SPEED ALONG TRAJECTORY= 3.0 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 28 = 2.6 CM/SEC 323 DEGREES TRUE

SERIAL NO = 252

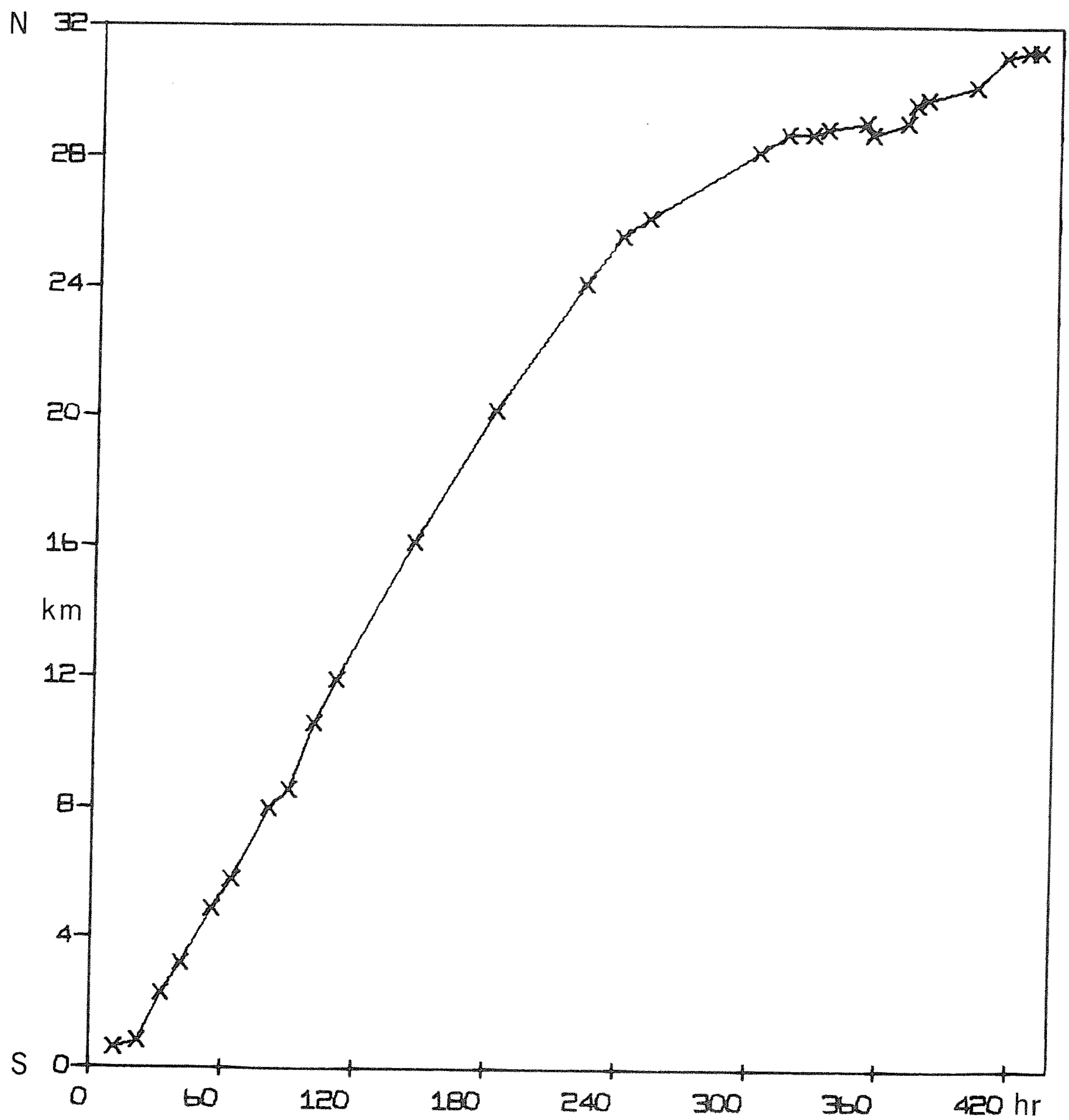
FLOAT DESIGNATION = 16 DATE AND TIME LAID = 16.1/8.4.73



SERIAL NO = 252

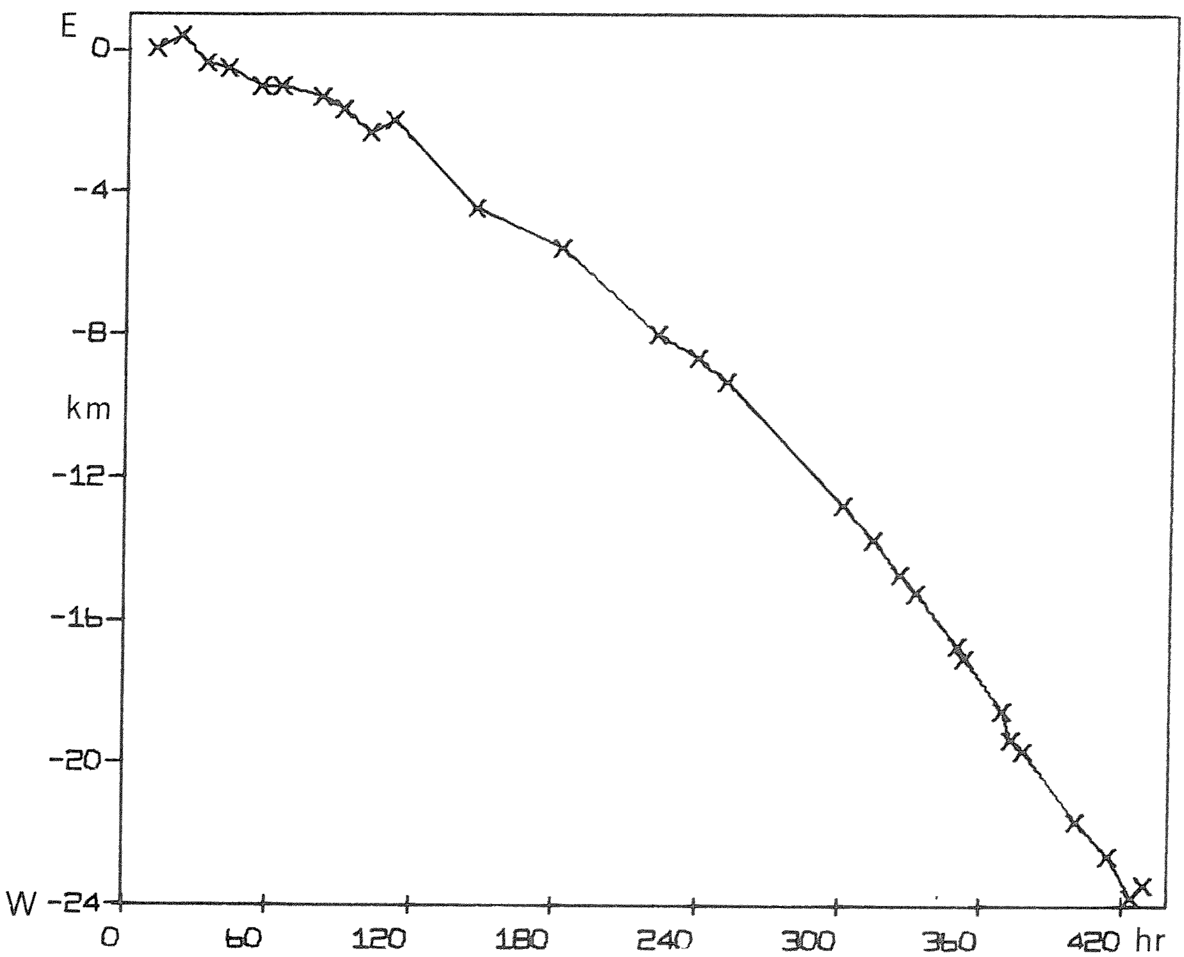
FLOAT DESIGNATION = 16

DATE AND TIME LAID = 16.1/8.4.73



SERIAL NO = 252

FLOAT DESIGNATION = 16 DATE AND TIME LAID = 16.1/8.4.73



SERIAL NO= 253

FLOAT DESIGNATION= 12 DATE AND TIME LAID= 4.4/ 9. 4.73

POSITION LAID= 27 58.8N 70 12.3W DISPLACEMENT ORIGIN= 27 58.0N
(1.1KM E 1.4KM N) 70 13.0W

NAVIGATION BASED ON LORAN C + SAT

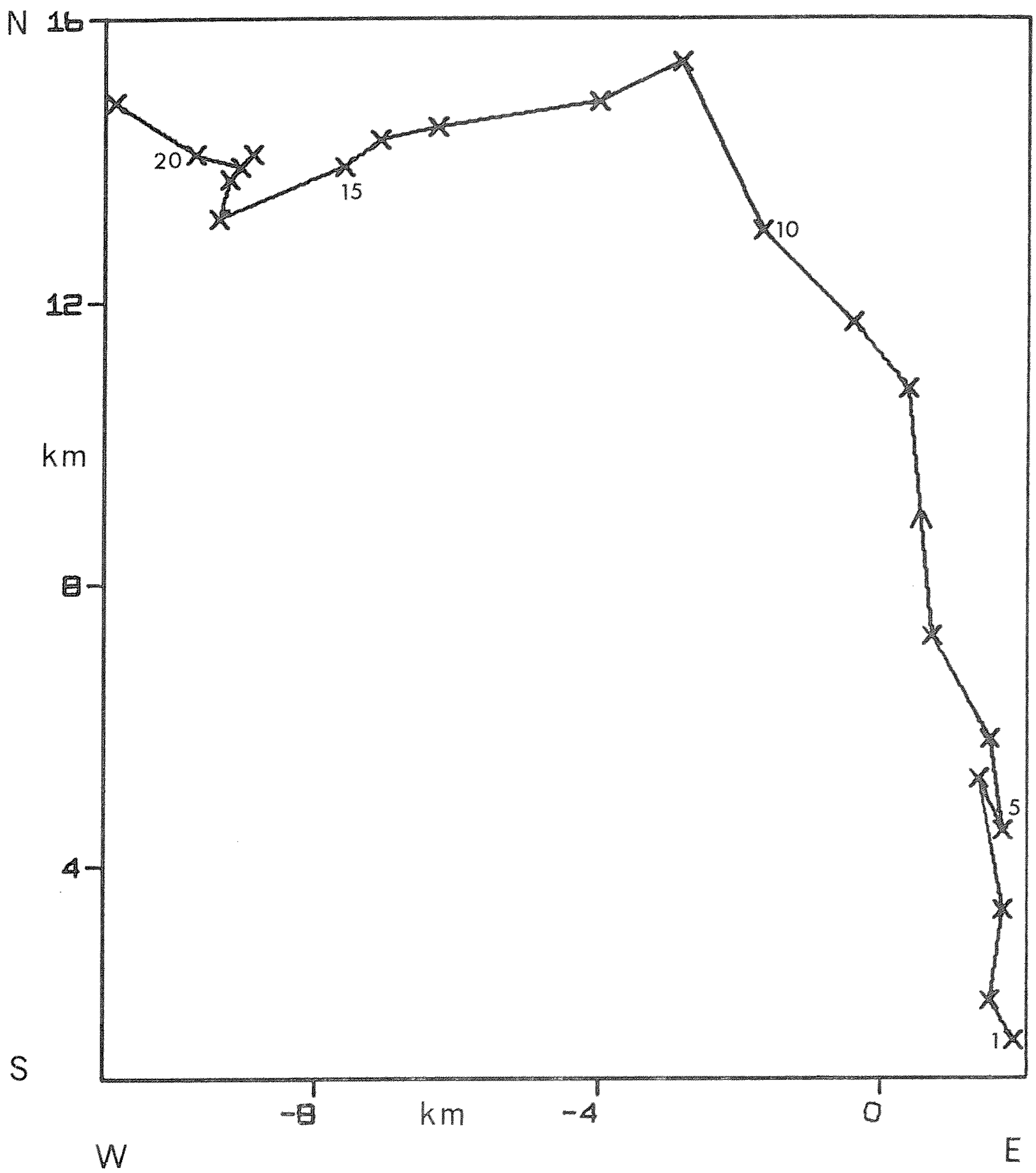
DEPTH(M)= NOMINAL OBSERVED S.D
1500 1595 30

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	9. 4	14.1	27 58.8	70 11.9	9.7	1.8	1.5		
2	10. 4	1.8	27 59.1	70 12.1	21.4	1.5	2.0	1.5	329
3	10. 4	11.1	27 59.8	70 12.0	30.7	1.6	3.3	3.9	7
4	10. 4	23.4	28 0.8	70 12.2	43.0	1.3	5.2	4.2	350
5	11. 4	8.0	28 0.4	70 12.0	51.6	1.6	4.4	2.6	156
6	12. 4	9.4	28 1.1	70 12.1	77.0	1.5	5.7	1.4	353
7	13. 4	6.5	28 1.9	70 12.6	98.1	0.7	7.2	2.2	331
8	14. 4	17.8	28 3.8	70 12.8	133.4	0.3	10.7	2.8	355
9	16. 4	7.8	28 4.3	70 13.2	171.4	-0.3	11.6	0.8	325
10	17. 4	22.7	28 5.0	70 14.0	210.3	-1.6	12.9	1.3	315
11	18. 4	18.7	28 6.3	70 14.7	230.3	-2.8	15.3	3.7	334
12	19. 4	9.4	28 6.0	70 15.4	245.0	-3.9	14.8	2.4	244
13	21. 4	5.6	28 5.8	70 16.8	289.2	-6.2	14.4	1.5	261
14	21. 4	18.6	28 5.7	70 17.3	302.2	-7.0	14.2	1.8	257
15	22. 4	12.8	28 5.5	70 17.6	320.4	-7.5	13.9	0.9	233
16	22. 4	23.7	28 5.1	70 18.7	331.3	-9.3	13.1	5.0	248
17	23. 4	11.2	28 5.4	70 18.6	342.8	-9.2	13.7	1.4	16
18	23. 4	19.1	28 5.6	70 18.4	350.7	-8.8	14.0	1.7	42
19	24. 4	0.0	28 5.5	70 18.5	355.6	-9.0	13.9	1.4	222
20	24. 4	21.3	28 5.6	70 18.9	376.9	-9.7	14.0	0.9	286
* 21	25. 4	18.5	28 6.0	70 19.6	398.1	-10.8	14.8	1.8	303

MEAN SPEED ALONG TRAJECTORY= 1.9 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 21 = 1.3 CM/SEC 317 DEGREES TRUE

SERIAL NO = 253

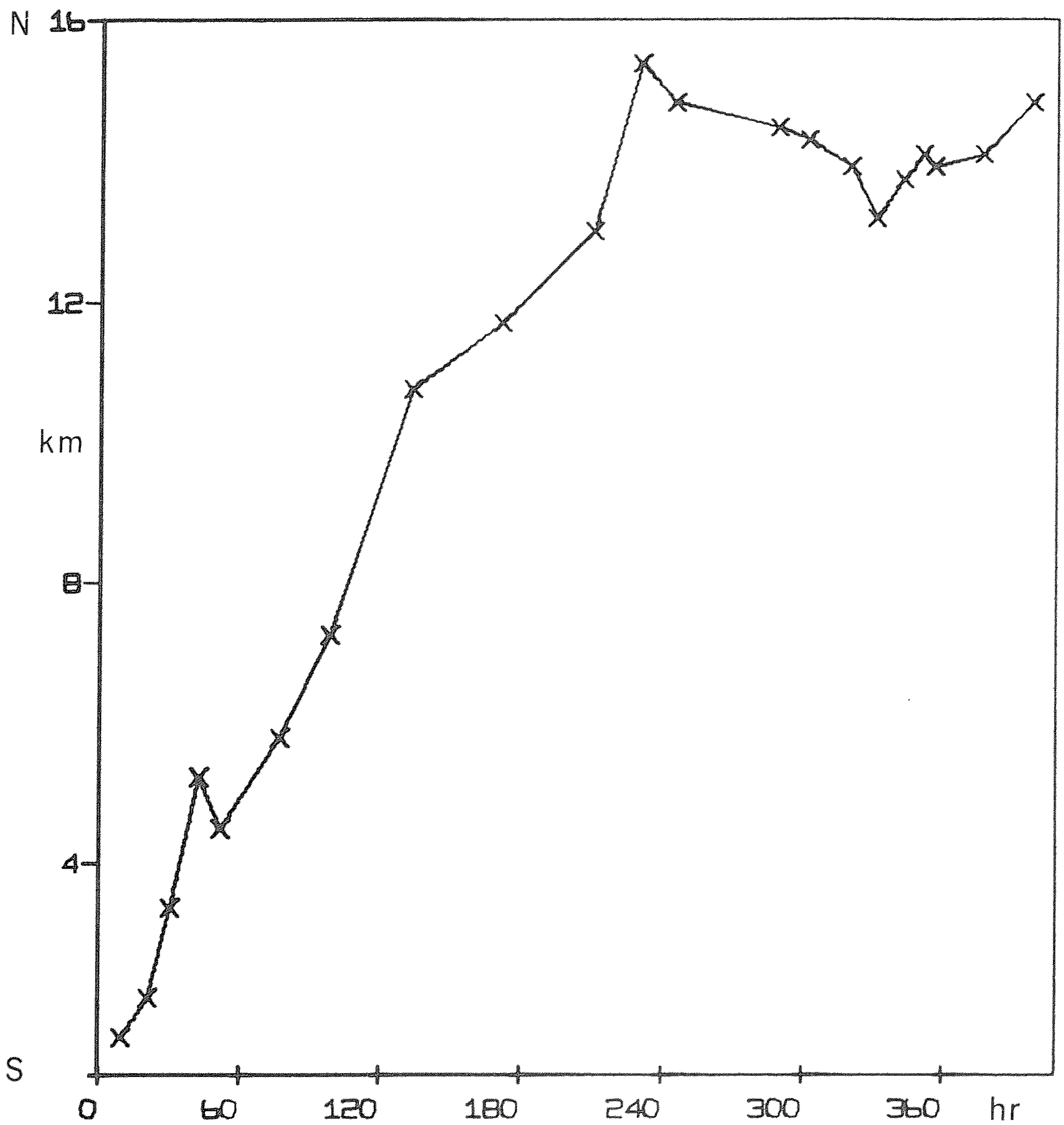
FLOAT DESIGNATION = 12 DATE AND TIME LAID = 4.4/9.4.73



SERIAL NO = 253

FLOAT DESIGNATION = 12

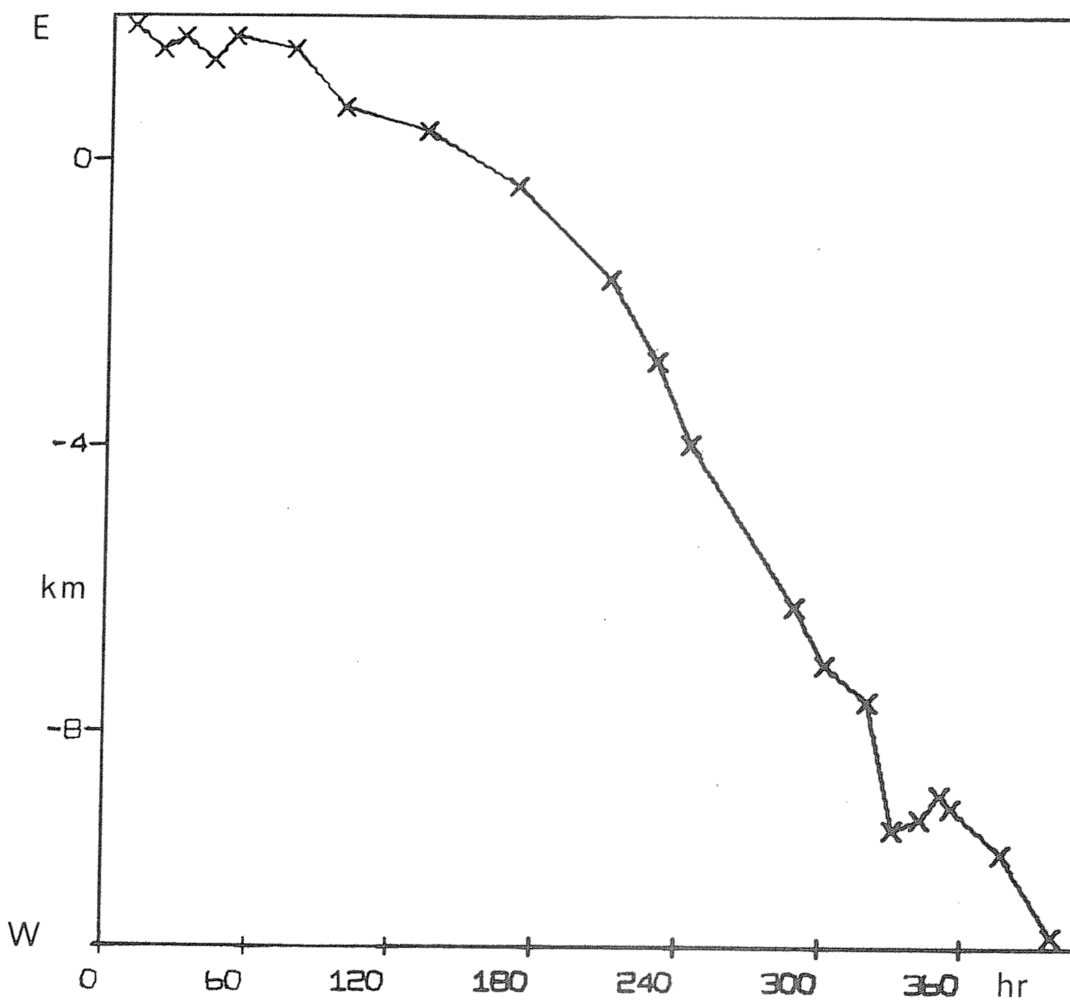
DATE AND TIME LAID = 4.4/9.4.73



SERIAL NO = 253

FLOAT DESIGNATION = 12

DATE AND TIME LAID = 4.4/9.4.73



SERIAL NO= 254

FLOAT DESIGNATION= 14 DATE AND TIME LAID= 4.4/ 9. 4.73

POSITION LAID= 27 58.8N 70 12.3W DISPLACEMENT ORIGIN= 27 58.0N
(1.1KM E 1.4KM N) 70 13.0W

NAVIGATION BASED ON LORAN C + SAT

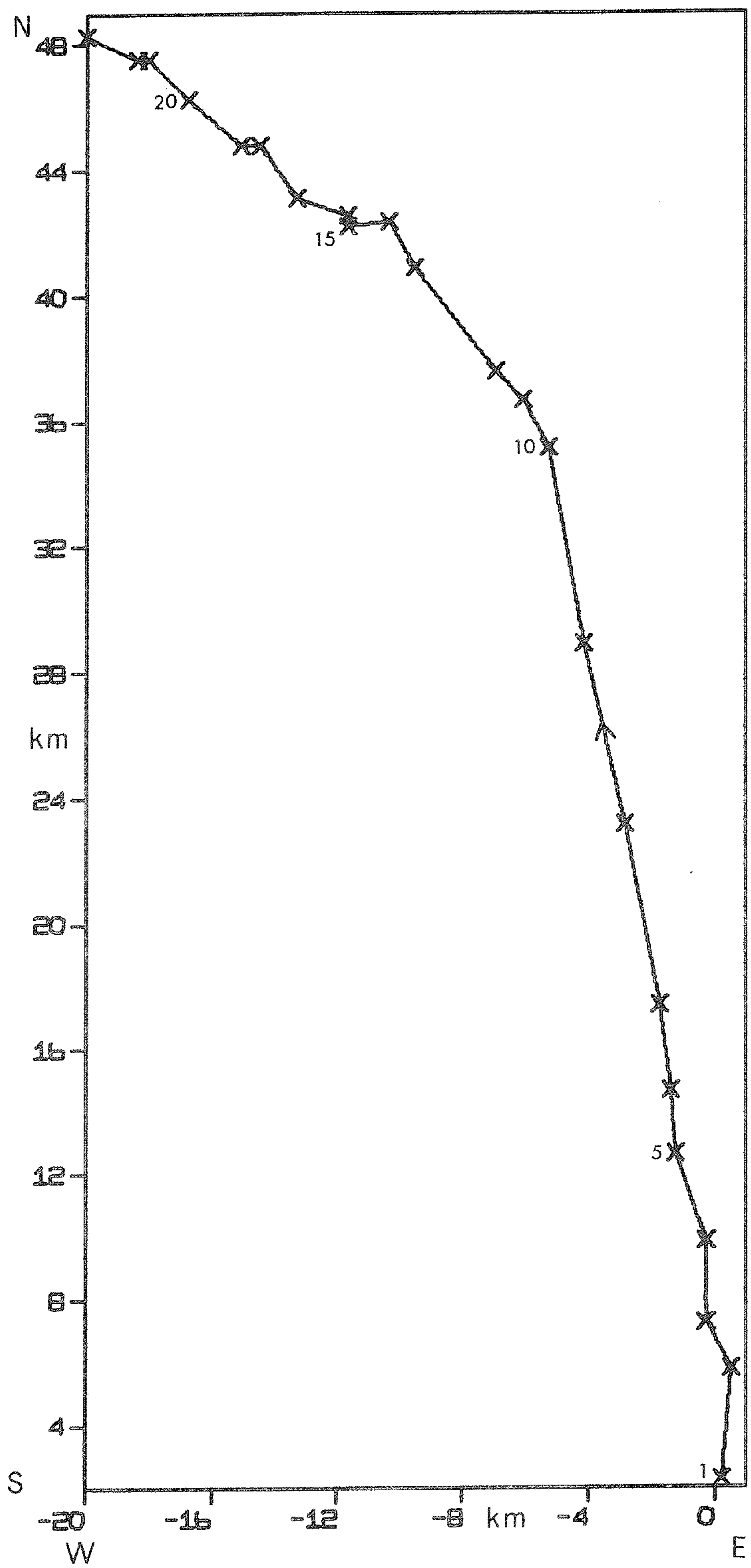
DEPTH(M)= NOMINAL OBSERVED S.D
4000 3810 50

FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	9. 4	14.1	27	59.2	70	12.9	9.7	0.2	2.2		
2	10. 4	7.9	28	1.1	70	12.7	27.5	0.5	5.7	5.5	5
3	10. 4	23.4	28	1.9	70	13.1	43.0	-0.2	7.2	2.9	336
4	11. 4	8.0	28	3.3	70	13.1	51.6	-0.2	9.8	8.4	0
5	12. 4	8.5	28	4.8	70	13.7	76.1	-1.1	12.6	3.3	340
6	12. 4	18.8	28	5.9	70	13.8	86.4	-1.3	14.6	5.5	355
7	13. 4	7.1	28	7.4	70	14.0	98.7	-1.6	17.4	6.3	353
8	14. 4	15.9	28	10.5	70	14.7	131.5	-2.8	23.1	4.9	349
9	16. 4	7.8	28	13.6	70	15.5	171.4	-4.1	28.8	4.1	347
10	18. 4	4.7	28	17.0	70	16.2	216.3	-5.2	35.1	4.0	350
11	19. 4	18.7	28	17.8	70	16.7	230.3	-6.1	36.6	3.4	331
* 12	19. 4	7.0	28	18.3	70	17.2	242.6	-6.9	37.5	2.8	318
13	21. 4	5.6	28	20.1	70	18.8	289.2	-9.5	40.8	2.5	322
14	21. 4	18.6	28	20.9	70	19.3	302.2	-10.3	42.3	3.6	331
15	22. 4	5.4	28	20.8	70	20.1	313.0	-11.6	42.1	3.4	262
16	22. 4	12.8	28	21.0	70	20.1	320.4	-11.6	42.5	1.4	0
17	23. 4	9.2	28	21.3	70	21.1	340.8	-13.2	43.0	2.4	289
18	24. 4	1.3	28	22.2	70	21.8	356.9	-14.4	44.7	3.5	325
19	24. 4	10.3	28	22.2	70	22.2	365.9	-15.0	44.7	2.0	270
20	25. 4	8.6	28	23.0	70	23.2	388.2	-16.7	46.2	2.7	312
21	25. 4	22.4	28	23.7	70	24.0	402.0	-18.0	47.5	3.7	315
22	26. 4	6.9	28	23.7	70	24.2	410.5	-18.3	47.5	1.1	270
* 23	26. 4	20.4	28	24.1	70	25.2	424.0	-19.9	48.2	3.7	294

MEAN SPEED ALONG TRAJECTORY= 3.7 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 23 = 3.4 CM/SEC 336 DEGREES TRUE

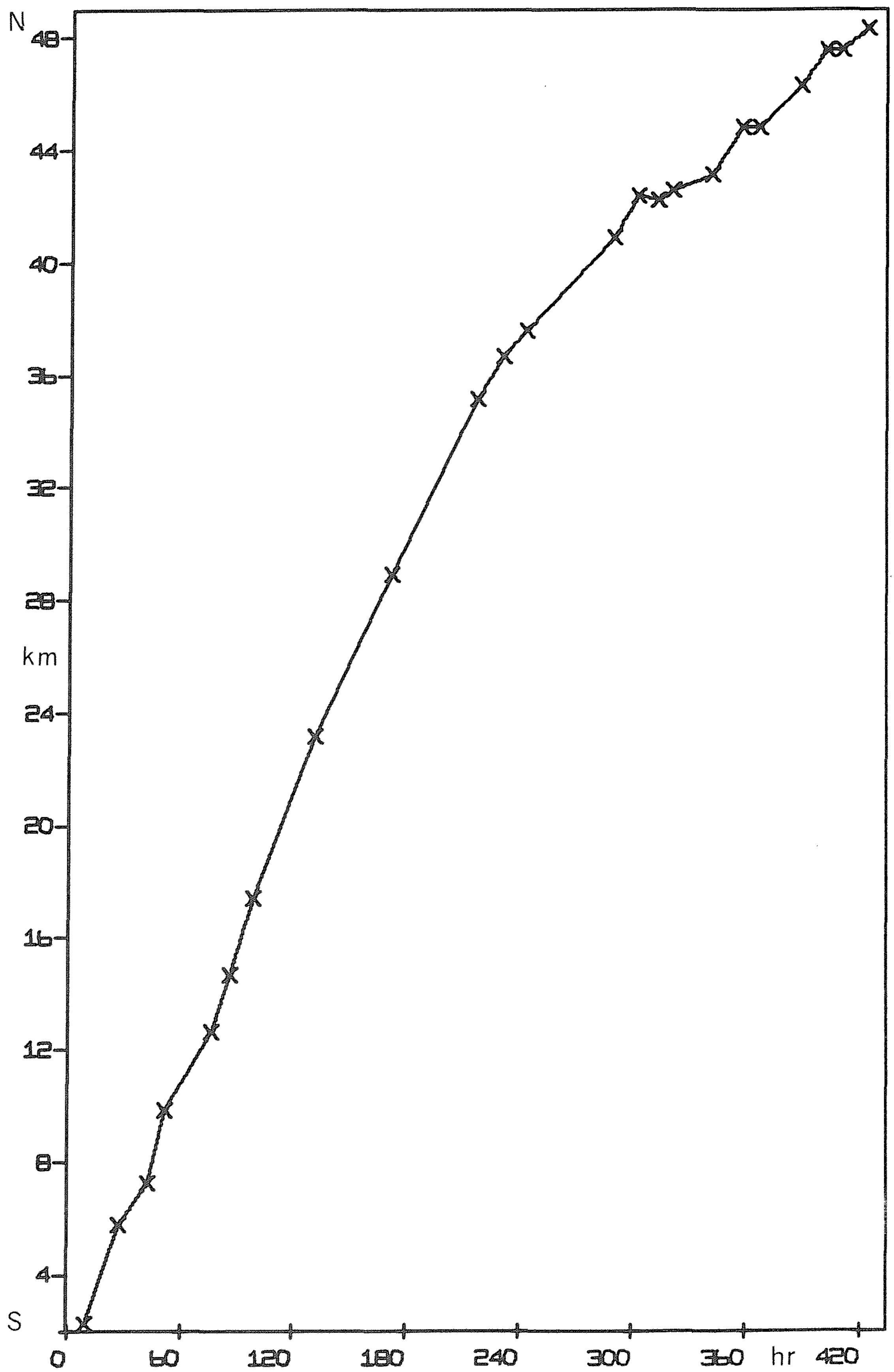
SERIAL NO = 254

FLOAT DESIGNATION = 14 DATE AND TIME LAID = 4.4/9.4.73



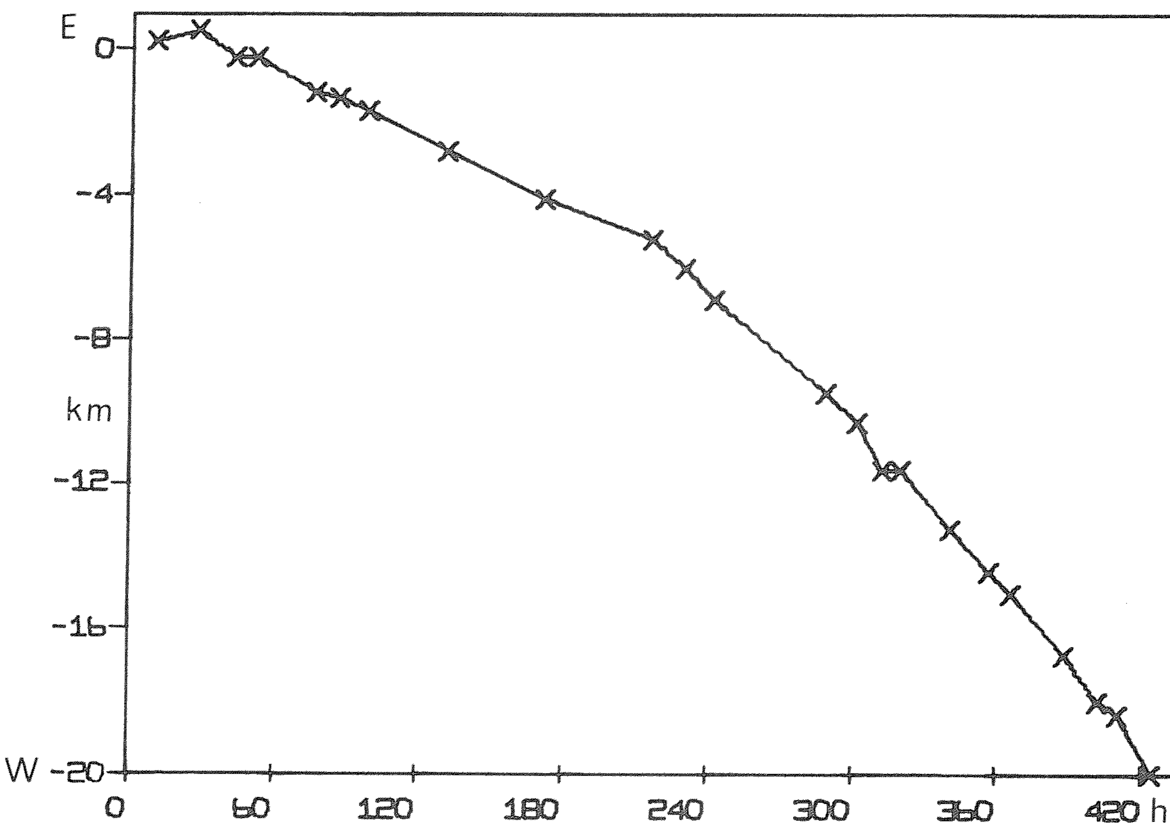
SERIAL NO = 254

FLOAT DESIGNATION = 14   DATE AND TIME LAID = 4.4/9.4.73



SERIAL NO = 254

FLOAT DESIGNATION = 14 DATE AND TIME LAID = 4.4/9.4.73



SERIAL NO= 255

FLOAT DESIGNATION= 18 DATE AND TIME LAID= 4.4/ 9. 4.73

POSITION LAID= 27 59.8N 70 12.3W DISPLACEMENT ORIGIN= 27 58.0N
(1.1KM E 1.4KM N) 70 13.0W

NAVIGATION BASED ON LORAN C + SAT

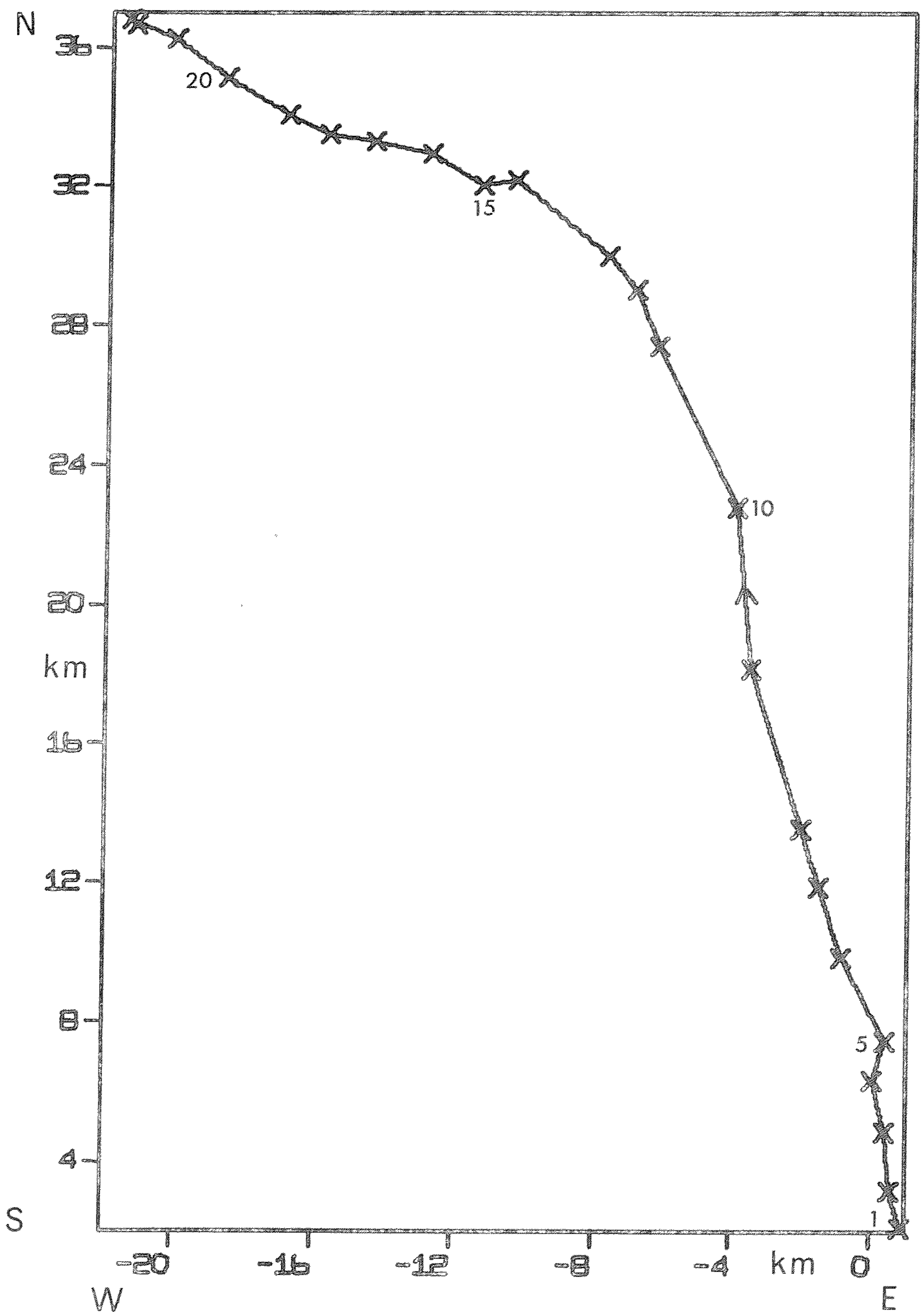
DEPTH(M)= NOMINAL OBSERVED S.D
3000 2330 40

FIX NO	DATE	TIME GMT	FIX POSITION LAT.N	FIX POSITION LONG.W	HOURS SINCE LAID	DISPLACEMENT (KM) +E-W X	DISPLACEMENT (KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	9. 4	11.2	27 59.1	70 12.5	6.8	0.8	2.0		
2	10. 4	0.5	27 59.7	70 12.7	20.1	0.5	3.1	2.4	344
3	10. 4	9.9	28 0.6	70 12.8	29.5	0.3	4.8	4.9	354
4	10. 4	23.4	28 1.4	70 13.0	43.0	0.0	6.3	3.1	347
5	11. 4	8.0	28 2.0	70 12.8	51.6	0.3	7.4	3.7	16
6	12. 4	8.5	28 3.3	70 13.5	76.1	-0.8	9.8	3.0	334
7	12. 4	18.8	28 4.4	70 13.9	86.4	-1.5	11.8	5.8	342
8	13. 4	6.5	28 5.3	70 14.2	98.1	-2.0	13.5	4.1	344
9	14. 4	17.8	28 7.8	70 15.1	133.4	-3.4	18.1	3.8	342
10	16. 4	7.8	28 10.3	70 15.4	171.4	-3.9	22.7	3.4	354
11	18. 4	4.7	28 12.8	70 16.8	216.3	-6.2	27.3	3.2	334
12	18. 4	18.7	28 13.7	70 17.2	230.3	-6.9	29.0	3.5	339
13	19. 4	5.1	28 14.2	70 17.7	240.7	-7.7	29.9	3.3	318
14	21. 4	5.6	28 15.4	70 19.3	289.2	-10.3	32.1	2.0	310
15	21. 4	18.6	28 15.3	70 19.9	302.2	-11.3	32.0	2.1	250
16	22. 4	12.9	28 15.8	70 20.8	320.4	-12.2	32.9	2.7	202
17	23. 4	9.2	28 16.0	70 21.8	340.8	-14.4	33.2	2.3	293
18	24. 4	1.3	28 16.1	70 22.6	356.9	-15.7	33.4	2.3	279
19	24. 4	10.3	28 16.4	70 23.3	365.9	-16.9	34.0	3.9	296
20	25. 4	8.6	28 17.0	70 24.4	388.2	-18.7	35.1	2.6	302
21	25. 4	22.4	28 17.6	70 25.3	402.0	-20.1	36.2	3.7	307
22	26. 4	8.0	28 17.9	70 26.1	411.6	-21.4	36.8	4.1	293
* 23	26. 4	13.1	28 17.8	70 26.0	416.7	-21.3	36.6	1.3	138

MEAN SPEED ALONG TRAJECTORY= 3.1 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 23 = 2.8 CM/SEC 327 DEGREES TRUE

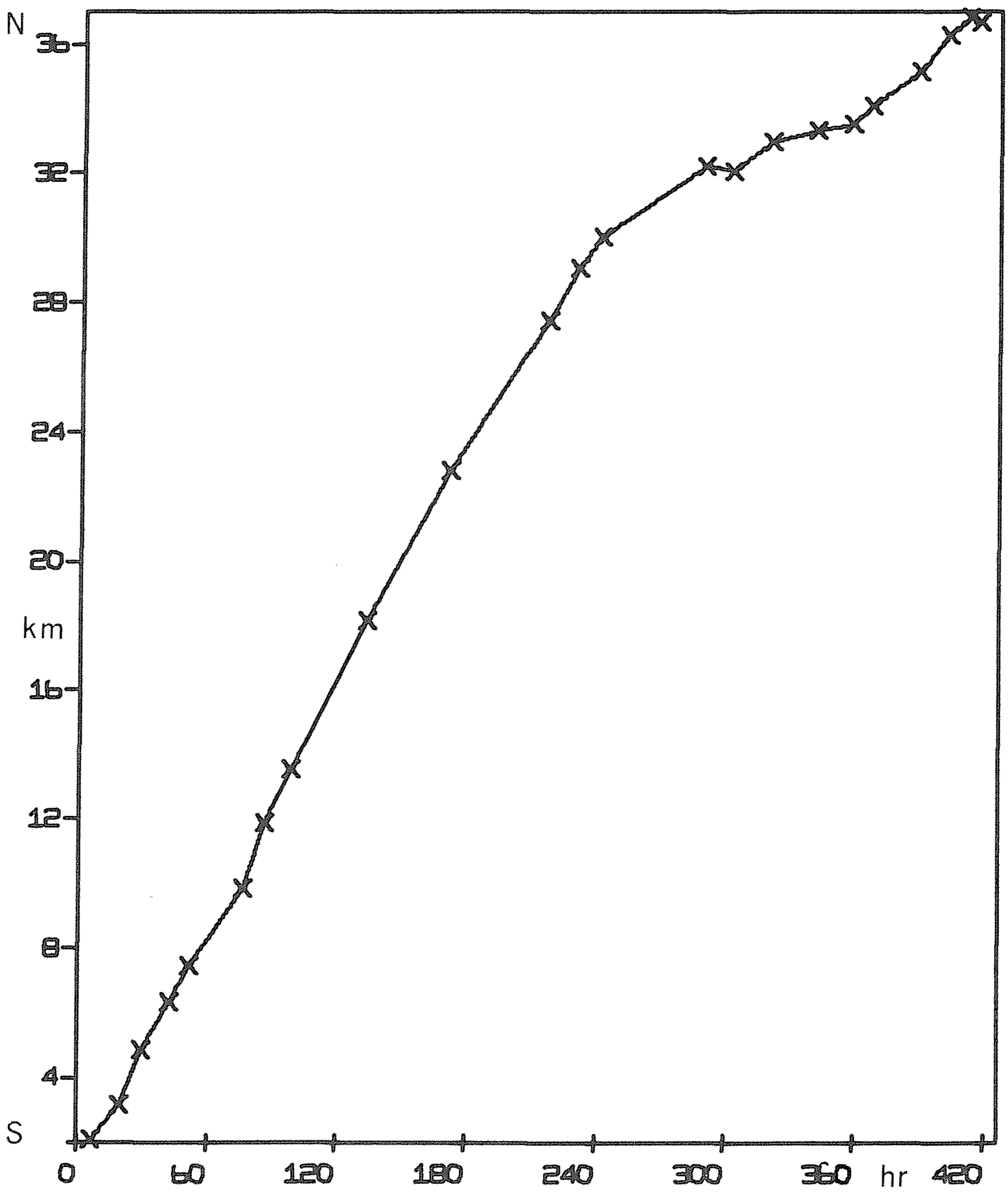
SERIAL NO = 255

FLOAT DESIGNATION = 18 DATE AND TIME LAID = 4.4/9.4.73



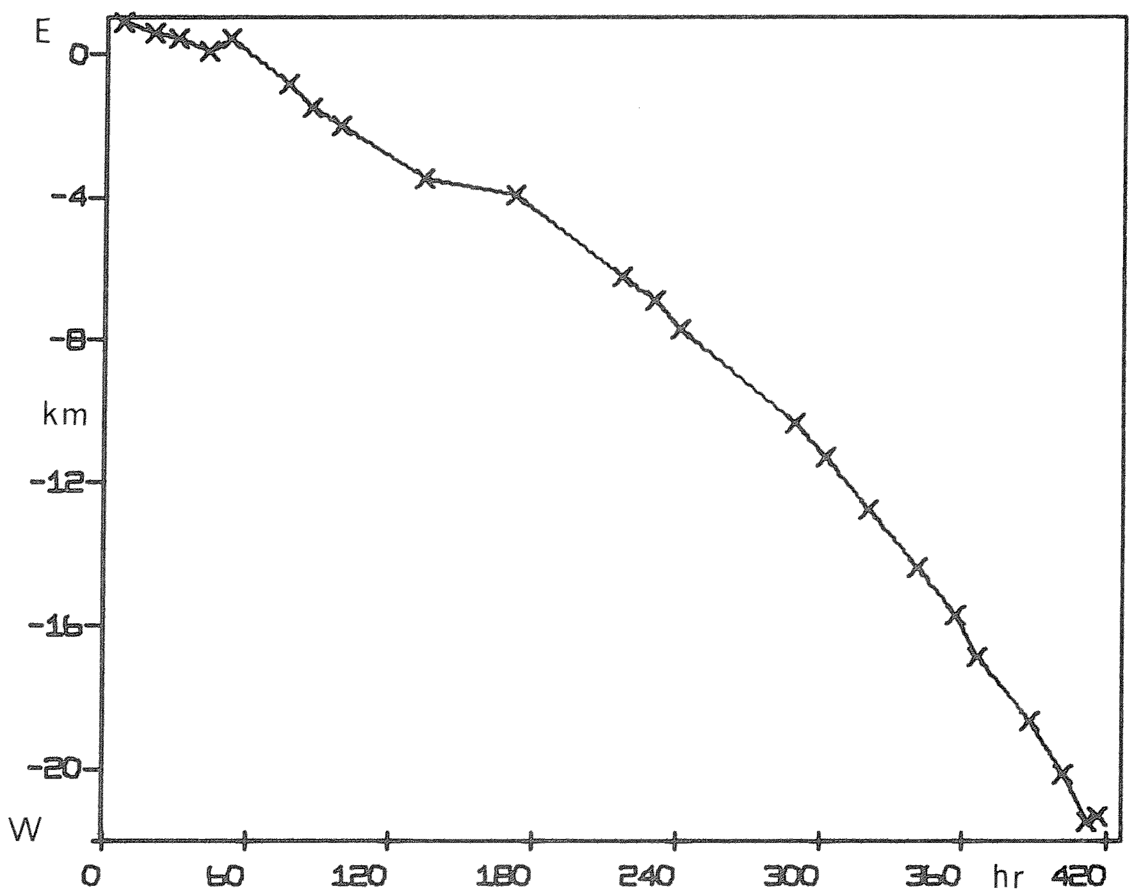
SERIAL NO = 255

FLOAT DESIGNATION = 18 DATE AND TIME LAID = 4.4/9.4.73



SERIAL NO = 255

FLOAT DESIGNATION = 18 DATE AND TIME LAID = 4.4/9.4.73



SERIAL NO= 256

FLOAT DESIGNATION= 3 DATE AND TIME LAID= 21.8/ 9. 4.73

POSITION LAID= 27 55.7N 70 29.8W DISPLACEMENT ORIGIN= 27 50.0N
(-7.8KM E 10.5KM N) 70 25.0W

NAVIGATION BASED ON LORAN C + SAT

DEPTH(M)=	NOMINAL	OBSERVED	S.D
	500	575	30

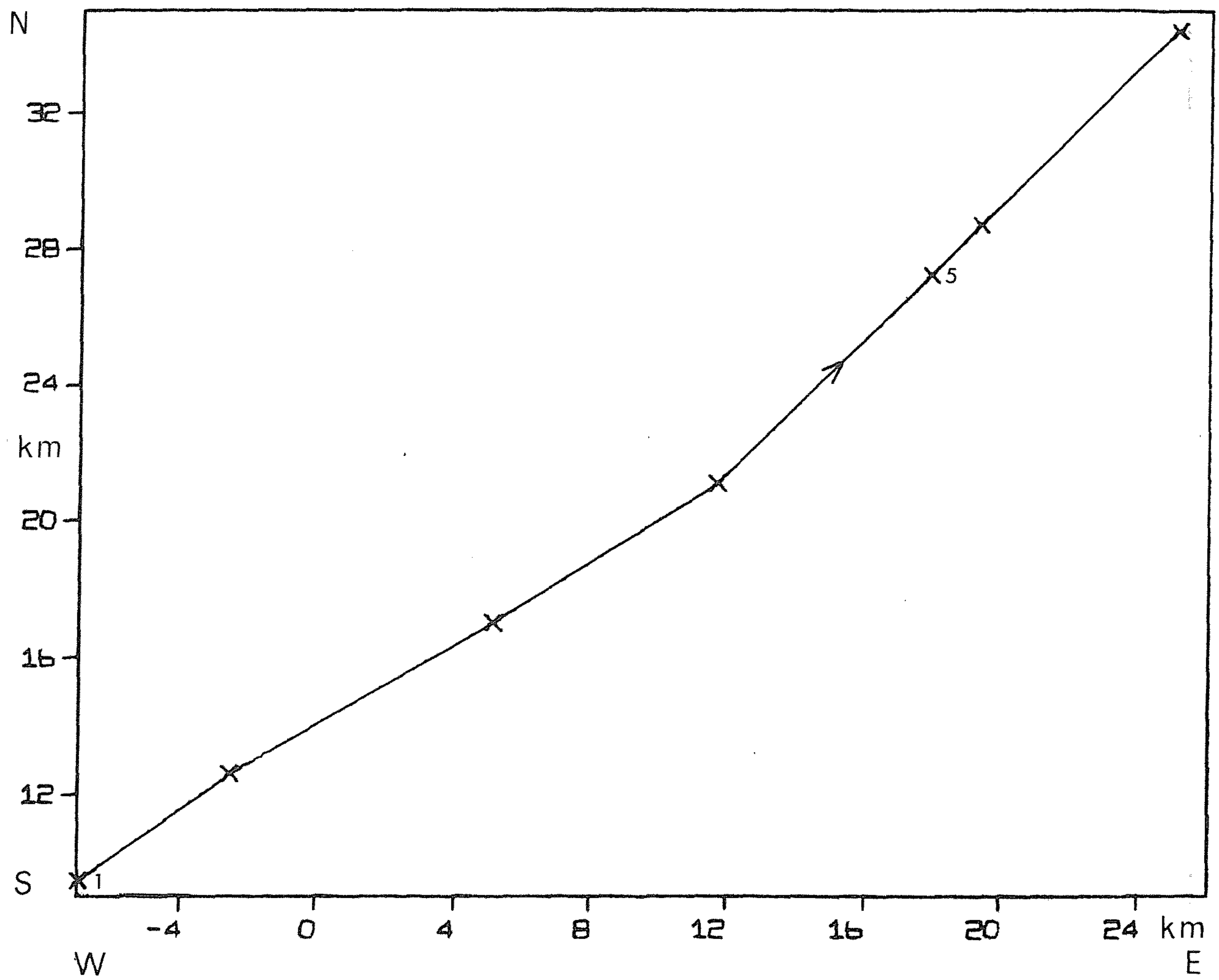
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N	LONG.W	HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
*	1	10. 4	6.5	27 55.1	70 29.2	8.7	-6.9	9.4		
*	2	11. 4	3.3	27 56.8	70 26.5	29.5	-2.5	12.6	7.3	55
*	3	12. 4	11.7	27 59.2	70 21.9	61.9	5.1	17.0	7.5	60
	4	13. 4	7.1	28 1.4	70 17.9	81.3	11.6	21.1	11.1	58
	5	14. 4	16.8	28 4.7	70 14.1	115.0	17.9	27.2	7.2	46
*	6	14. 4	23.7	28 5.5	70 13.2	121.9	19.3	28.6	8.4	45
*	7	15. 4	21.5	28 8.6	70 9.7	143.7	25.1	34.4	10.3	45

MEAN SPEED ALONG TRAJECTORY= 8.4 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 7 = 8.3 CM/SEC 52 DEGREES TRUE

SERIAL NO = 256

FLOAT DESIGNATION = 3

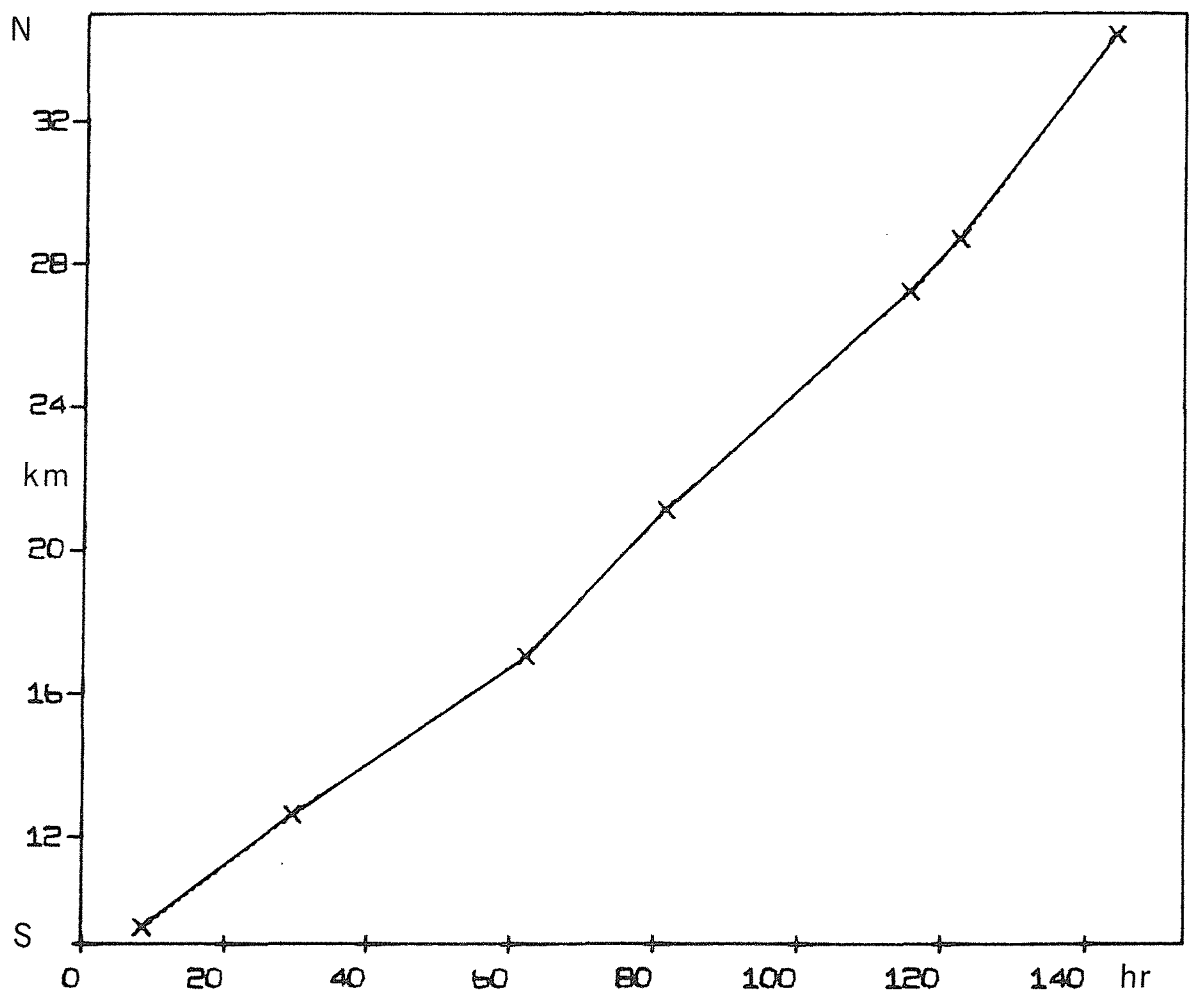
DATE AND TIME LAID = 21.8/9.4.73



SERIAL NO = 256

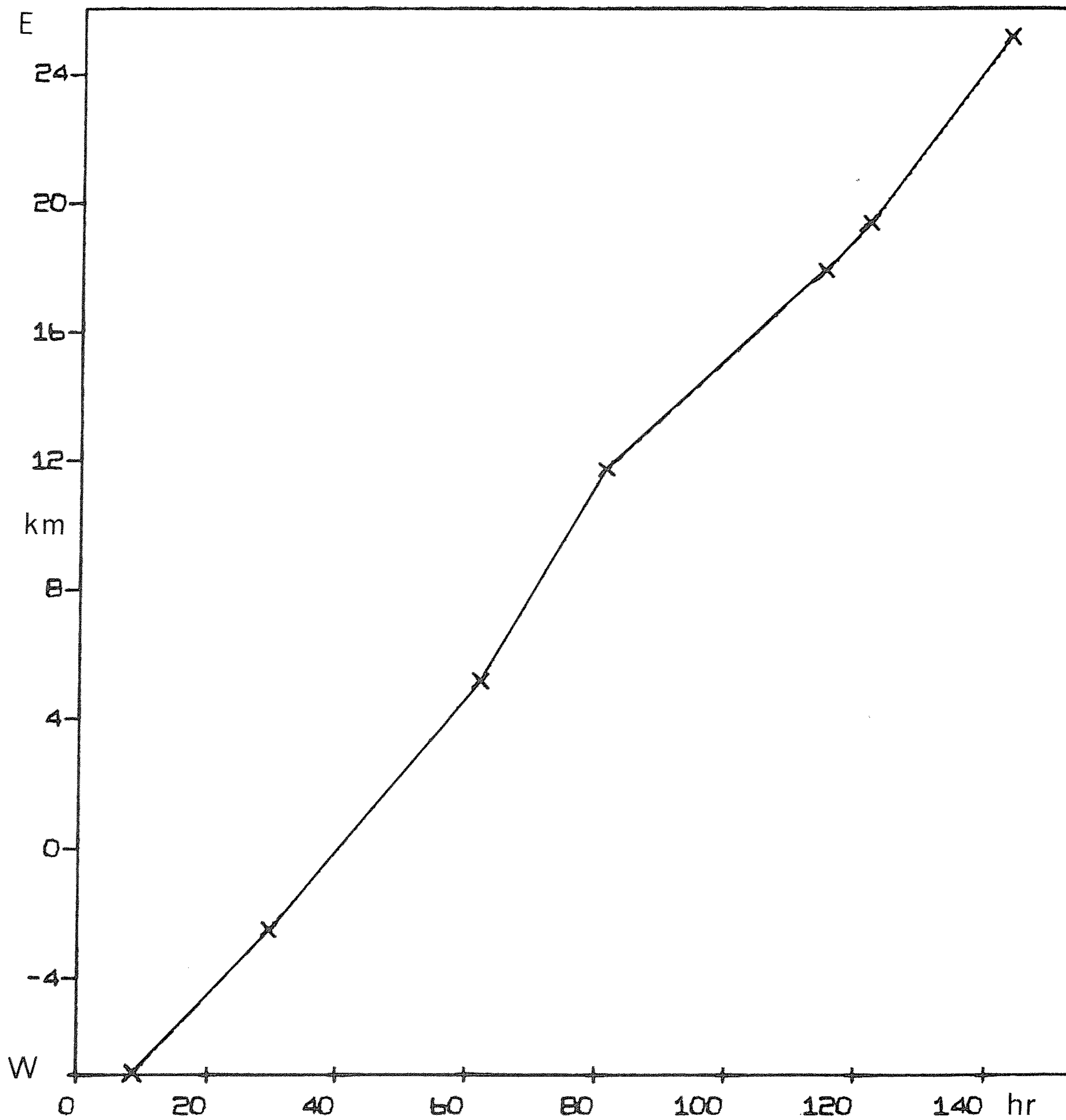
FLOAT DESIGNATION = 3

DATE AND TIME LAID = 21.8/9.4.73



SERIAL NO = 256

FLOAT DESIGNATION = 3 DATE AND TIME LAID = 21.8/9.4.73



SERIAL NO= 257

FLOAT DESIGNATION= 4 DATE AND TIME LAID= 22.2/ 9. 4.72

POSITION LAID= 27 54.1N 70 27.0W DISPLACEMENT ORIGIN= 27 50.0N
(-3.2KM E 7.5KM N) 70 25.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
500 5750 25

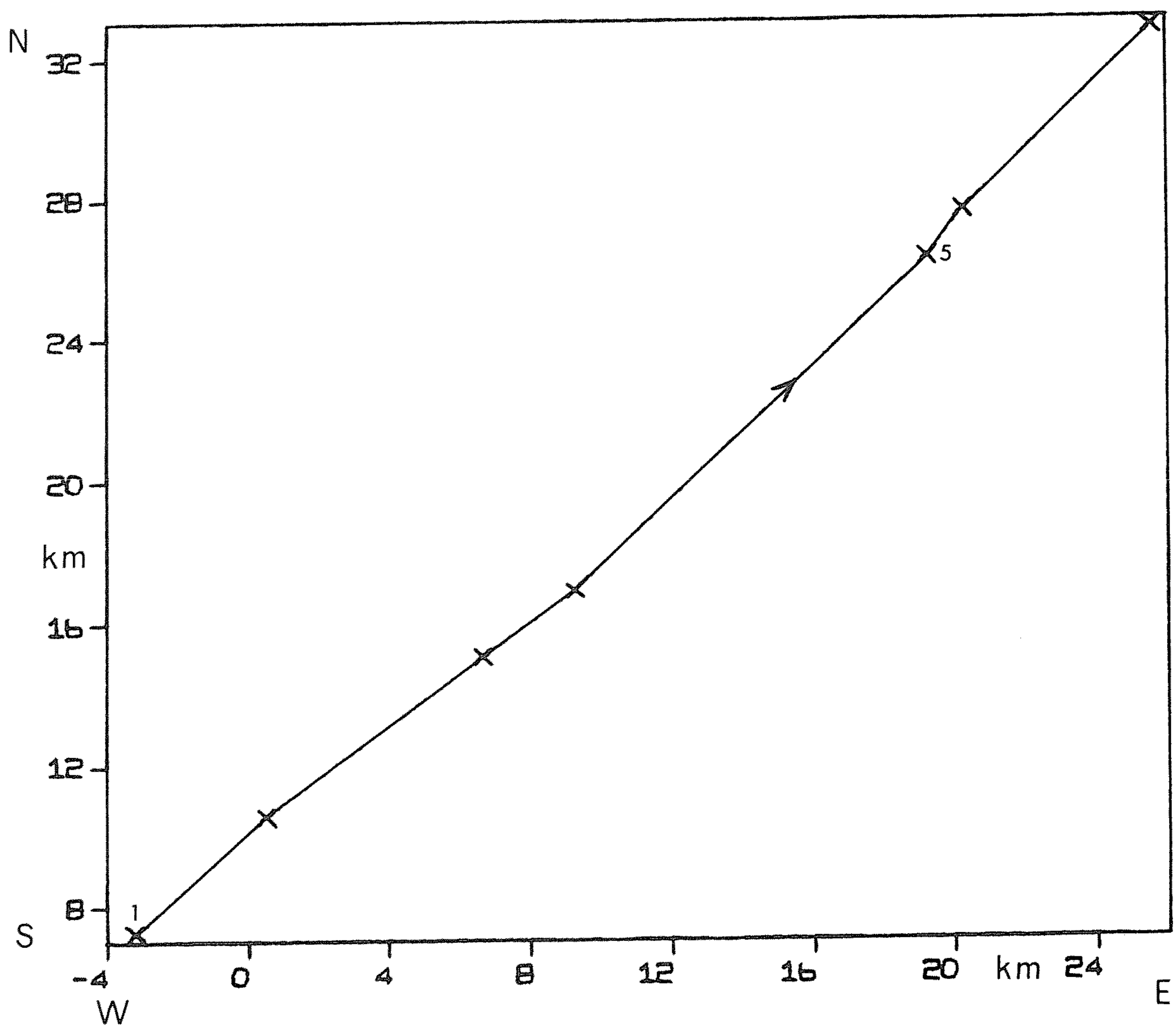
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N	FIX POSITION LONG.W	HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
*	1	10. 4	6.0	27 53.9	70 26.9	7.8	-3.1	7.2		
*	2	11. 4	2.9	27 55.7	70 24.7	28.7	0.5	10.5	6.5	47
*	3	12. 4	10.8	27 58.1	70 21.0	60.6	6.6	15.0	6.5	54
	4	12. 4	20.9	27 59.1	70 19.4	70.7	9.2	16.8	8.8	55
	5	14. 4	18.7	28 4.2	70 13.3	116.5	19.2	26.2	8.3	47
*	6	14. 4	23.7	28 4.9	70 12.7	121.5	20.2	27.5	9.0	37
*	7	15. 4	21.5	28 7.7	70 9.4	143.3	25.6	32.7	9.5	46

MEAN SPEED ALONG TRAJECTORY= 7.9 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 7 = 7.9 CM/SEC 48 DEGREES TRUE

SERIAL NO = 257

FLOAT DESIGNATION = 4

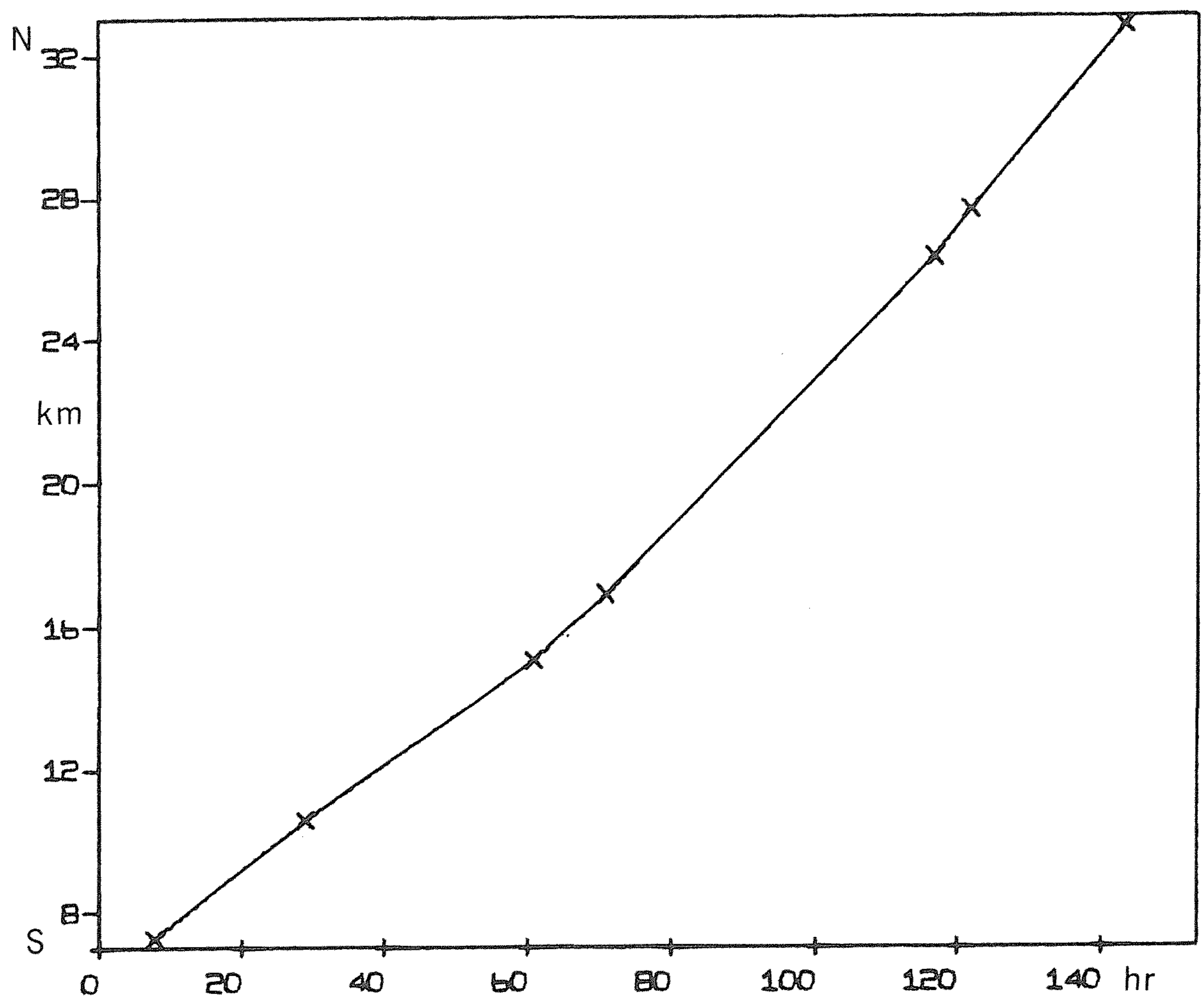
DATE AND TIME LAID = 22.2/9.4.73



SERIAL NO = 257

FLOAT DESIGNATION = 4

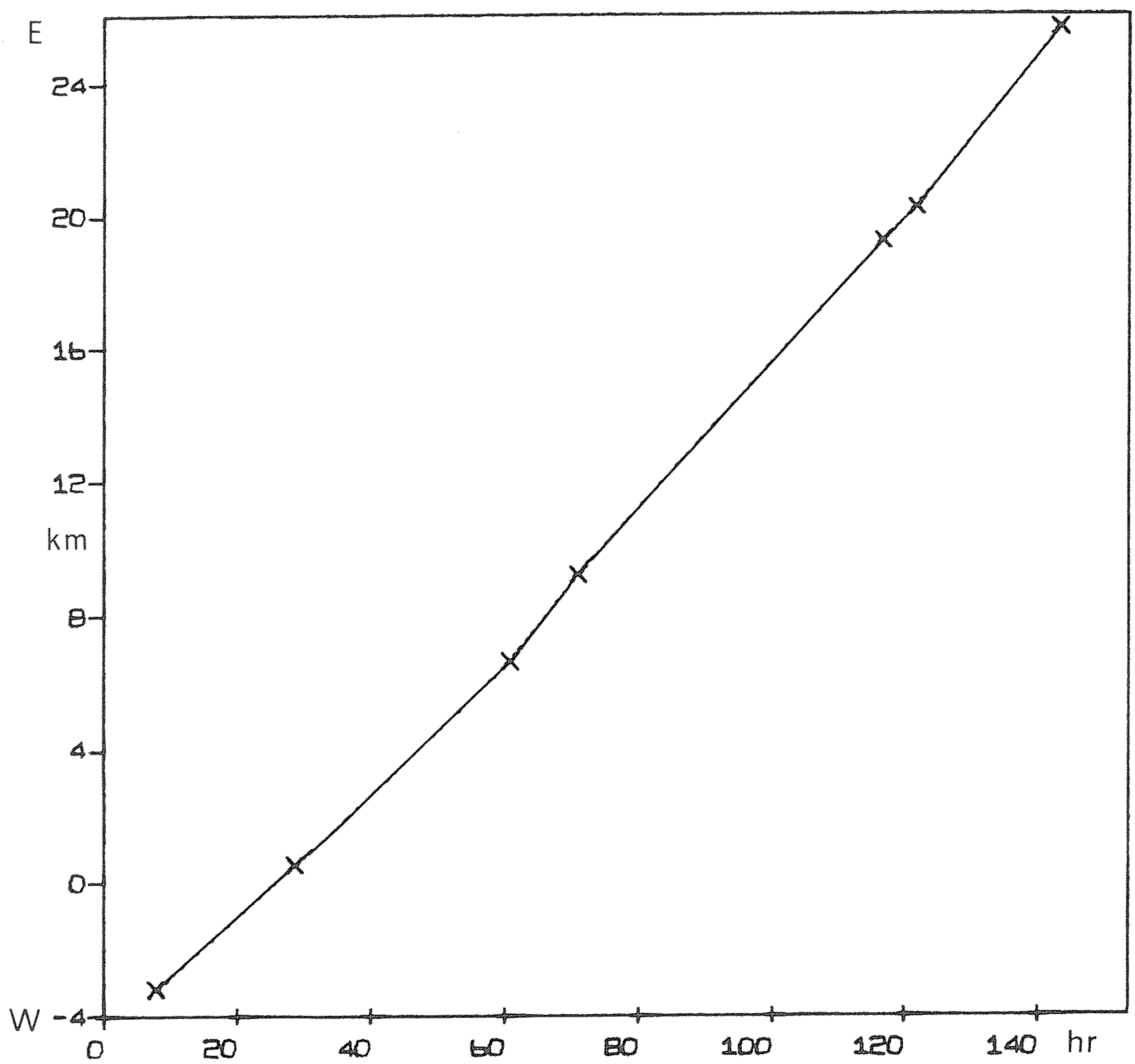
DATE AND TIME LAID = 22.2/9.4.73



SERIAL NO = 257

FLOAT DESIGNATION = 4

DATE AND TIME LAID = 22.2/9.4.73



SERIAL NO= 258

FLOAT DESIGNATION= 5 DATE AND TIME LAID= 23.0/ 9. 4.73

POSITION LAID= 27 51.2N 70 21.5W DISPLACEMENT ORIGIN= 27 50.0N
(5.7KM E 2.2KM N) 70 25.0W

NAVIGATION BASED ON LORAN C

DEPTH(M)= NOMINAL OBSERVED S.D
500 590 30

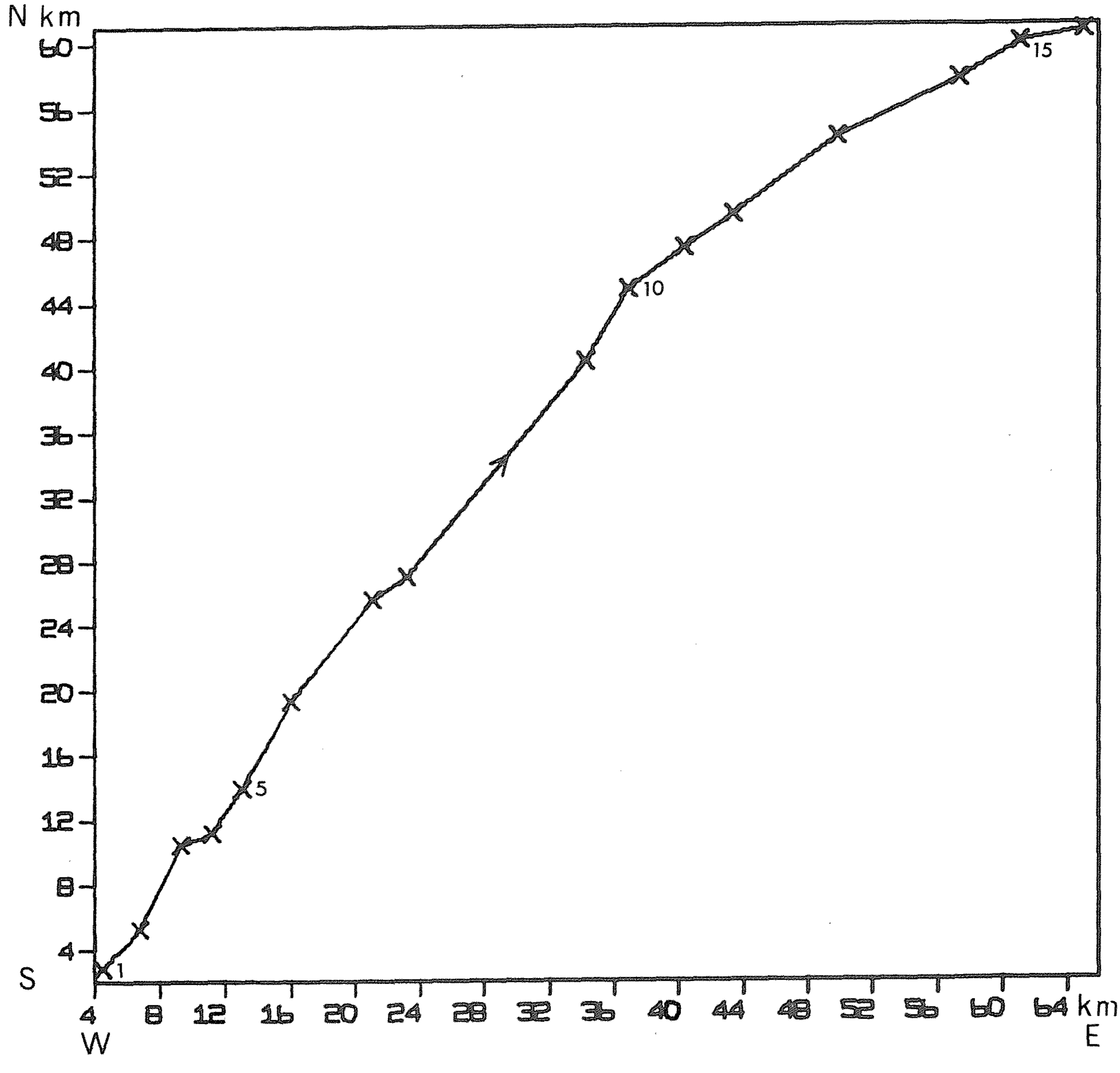
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
*	1	10. 4	5.4	27	51.5	70	22.3	6.4	4.4	2.8		
*	2	11. 4	2.2	27	52.8	70	20.9	27.2	6.7	5.2	4.4	44
*	3	12. 4	10.5	27	55.6	70	19.4	59.5	9.2	10.3	4.9	25
	4	12. 4	20.9	27	56.0	70	18.2	69.9	11.2	11.1	5.6	60
	5	13. 4	7.1	27	57.5	70	17.1	80.1	13.0	13.9	9.0	33
	6	14. 4	19.7	28	0.4	70	15.3	116.7	15.9	19.2	4.6	29
*	7	16. 4	0.1	28	3.8	70	12.2	145.1	21.0	25.5	7.9	39
	8	16. 4	6.7	28	4.6	70	10.9	151.7	23.1	27.0	10.9	55
	9	18. 4	4.7	28	11.8	70	4.1	197.7	34.3	40.3	10.5	40
	10	18. 4	18.7	28	14.2	70	2.5	211.7	36.9	44.7	10.2	31
	11	19. 4	5.1	28	15.6	70	0.4	222.1	40.3	47.3	11.5	53
*	12	19. 4	12.8	28	16.7	69	58.5	229.8	43.4	49.3	13.4	57
	13	20. 4	10.5	28	19.3	69	54.6	251.5	49.8	54.1	10.2	53
*	14	21. 4	2.2	28	21.2	69	50.0	267.2	57.3	57.6	14.7	65
	15	21. 4	12.5	28	22.4	69	47.7	277.5	61.1	59.8	11.8	59
*	16	21. 4	20.8	28	22.8	69	45.3	285.8	65.0	60.6	13.4	79

MEAN SPEED ALONG TRAJECTORY= 8.6 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 16 = 8.3 CM/SEC 46 DEGREES TRUE

SERIAL NO = 258

FLOAT DESIGNATION = 5

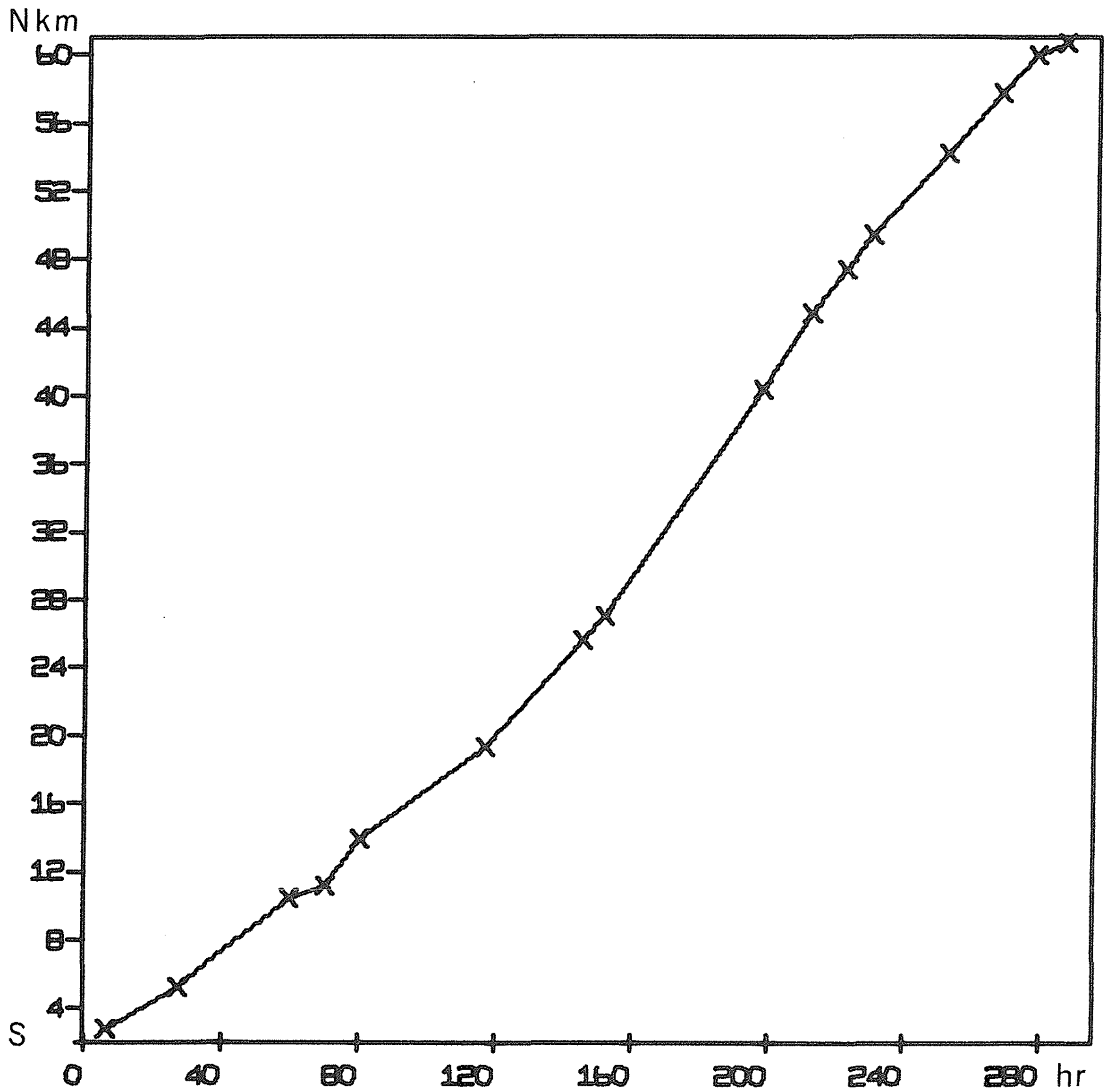
DATE AND TIME LAID = 23.0/9.4.73



SERIAL NO = 258

FLOAT DESIGNATION = 5

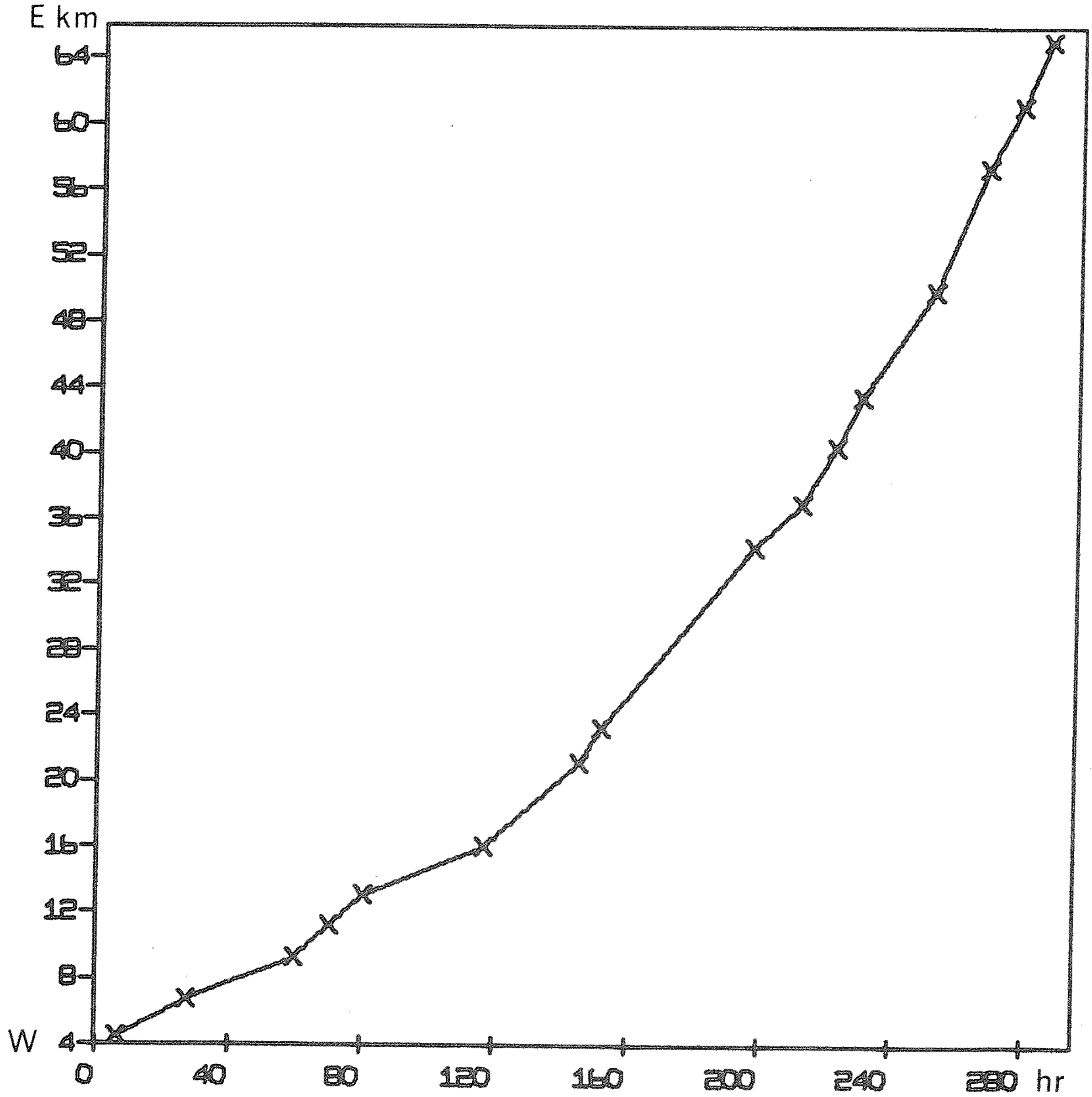
DATE AND TIME LAID = 23.0/9.4.73



SERIAL NO = 258

FLOAT DESIGNATION = 5

DATE AND TIME LAID = 23.0/9.4.73



SERIAL NO= 259

FLOAT DESIGNATION= 6 DATE AND TIME LAID= 0.7/10. 4.73

POSITION LAID= 27 45.7N 70 11.0W DISPLACEMENT ORIGIN= 27 50.0N
(22.9KM E -7.9KM N) 70 25.0W

NAVIGATION BASED ON LORAN C + SAT

DEPTH(M)= NOMINAL OBSERVED S.D
500 625 15

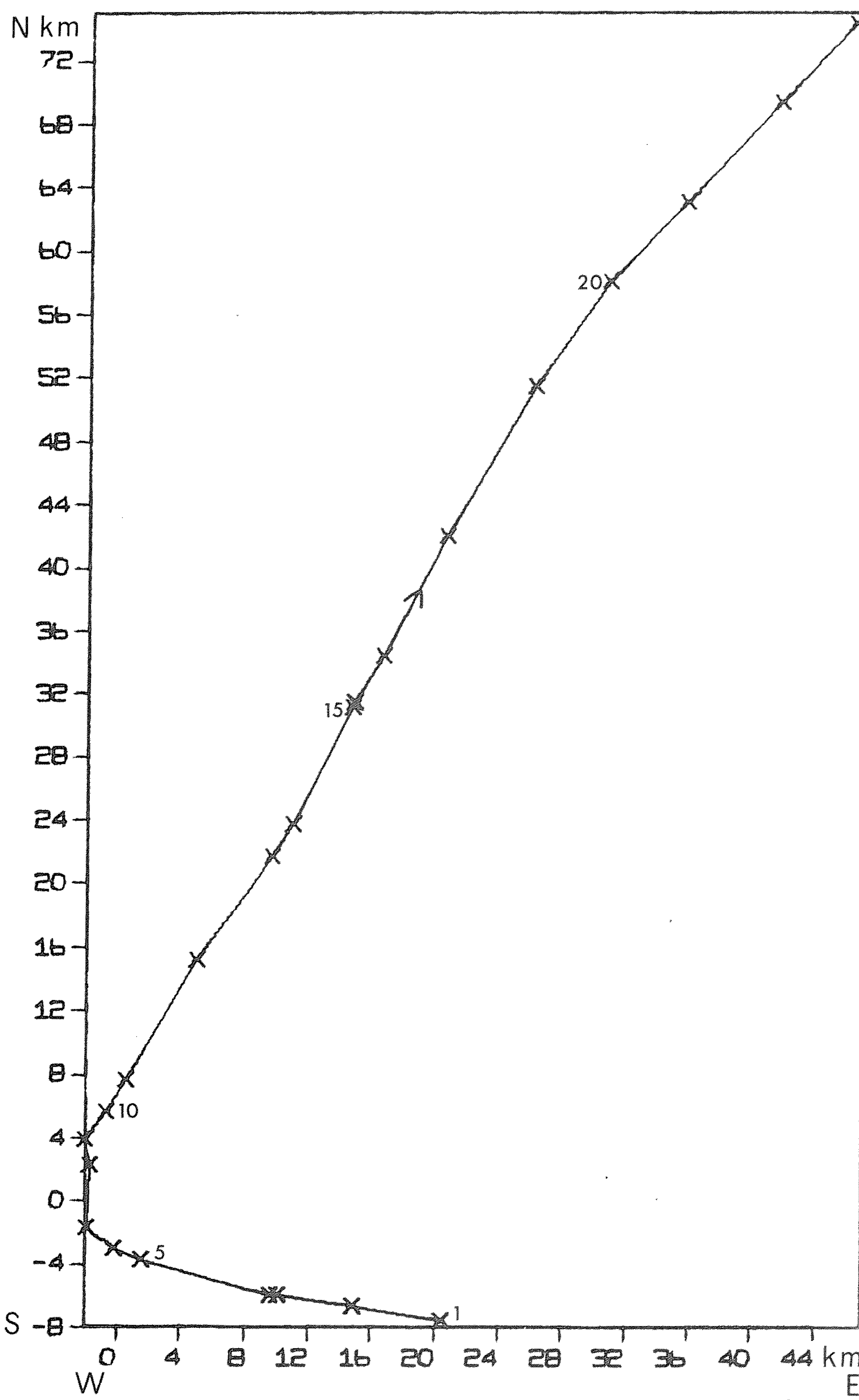
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N	LONG.W	HOURS SINCE LAID	DISPLACEMENT (KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
*	1	10. 4	4.4	27 45.9	70 12.6	3.7	20.4	-7.6		
*	2	11. 4	0.8	27 46.4	70 16.0	24.1	14.8	-6.6	7.7	279
*	3	12. 4	12.9	27 46.8	70 18.9	60.2	10.0	-5.9	3.7	279
*	4	12. 4	17.2	27 46.8	70 19.2	64.5	9.5	-5.9	3.2	270
*	5	14. 4	20.7	27 48.0	70 24.1	116.0	1.5	-3.7	4.5	285
	6	15. 4	15.0	27 48.4	70 25.1	134.3	-0.2	-3.0	2.7	294
*	7	16. 4	9.8	27 49.1	70 26.1	153.1	-1.8	-1.7	3.1	308
	8	17. 4	23.8	27 51.2	70 26.0	191.1	-1.6	2.2	2.8	2
*	9	18. 4	10.9	27 52.1	70 26.2	202.2	-2.0	3.9	4.2	340
	10	18. 4	22.9	27 53.0	70 25.4	214.2	-0.7	5.5	4.9	32
*	11	19. 4	17.7	27 54.1	70 24.7	233.0	0.5	7.6	3.5	29
*	12	21. 4	11.2	27 58.2	70 22.0	274.5	4.9	15.1	5.9	30
	13	22. 4	9.9	28 1.7	70 19.2	297.2	9.5	21.6	9.7	25
	14	22. 4	22.5	28 2.8	70 18.4	309.8	10.8	23.6	5.3	22
	15	23. 4	11.5	28 6.8	70 16.1	322.8	14.6	31.0	17.7	27
*	16	23. 4	13.4	28 7.0	70 16.0	324.7	14.7	31.4	5.9	24
	17	23. 4	22.9	28 8.6	70 14.9	334.2	16.6	34.4	10.1	31
	18	24. 4	12.0	28 12.7	70 12.5	347.3	20.5	41.9	18.1	27
*	19	25. 4	7.5	28 17.8	70 9.1	366.8	26.0	51.3	15.6	31
	20	25. 4	22.4	28 21.4	70 6.3	381.7	30.6	58.0	15.1	35
	21	26. 4	9.2	28 24.1	70 3.3	392.5	35.5	63.0	18.0	44
*	22	27. 4	1.8	28 27.5	69 59.7	409.1	41.4	69.3	14.4	43
*	23	27. 4	12.5	28 30.2	69 56.8	419.8	46.1	74.3	17.9	44

MEAN SPEED ALONG TRAJECTORY= 7.7 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 23 = 5.7 CM/SEC 18 DEGREES TRUE

SERIAL NO = 259

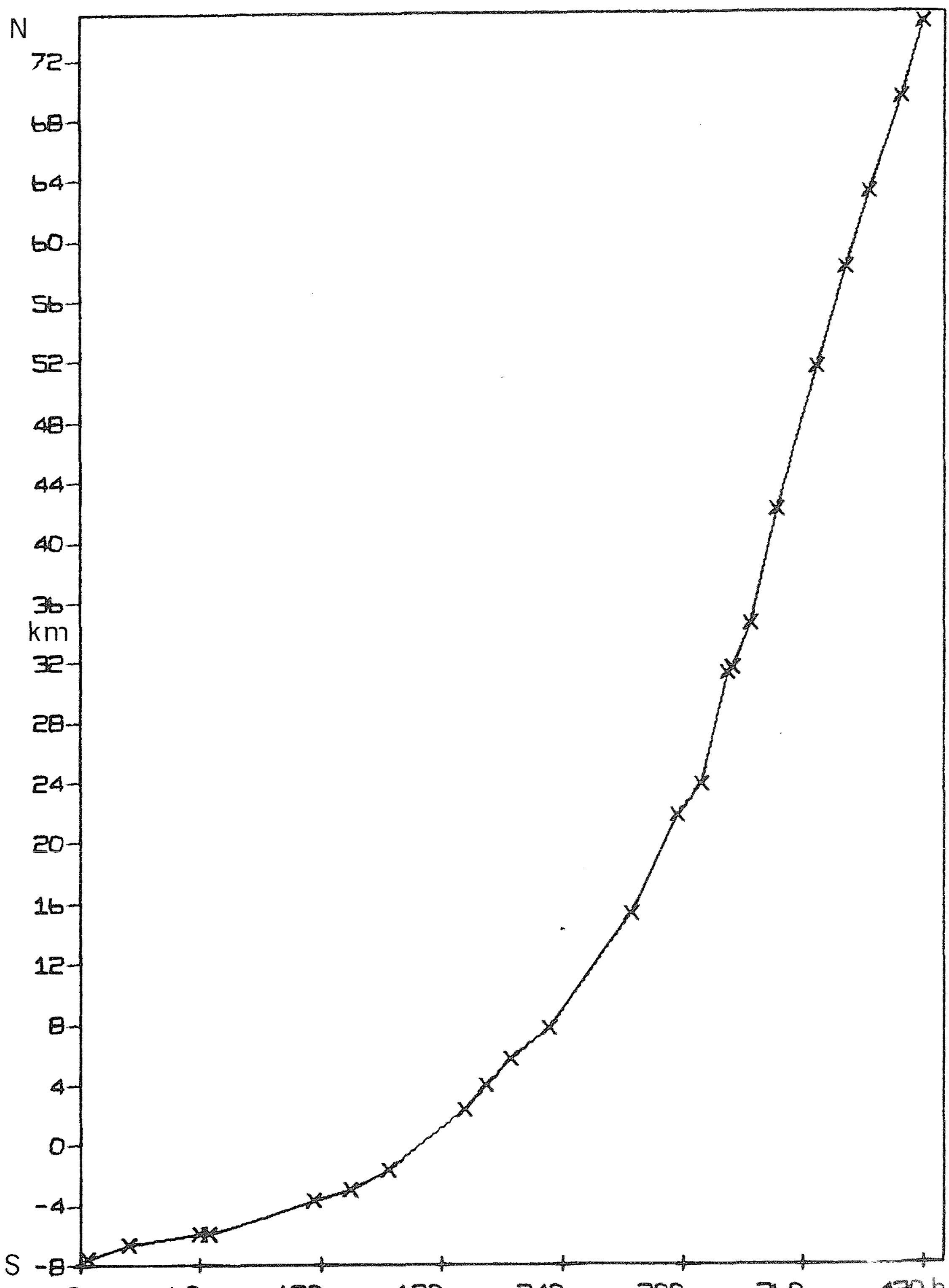
FLOAT DESIGNATION = 6

DATE AND TIME LAID = 0.7/10.4.73



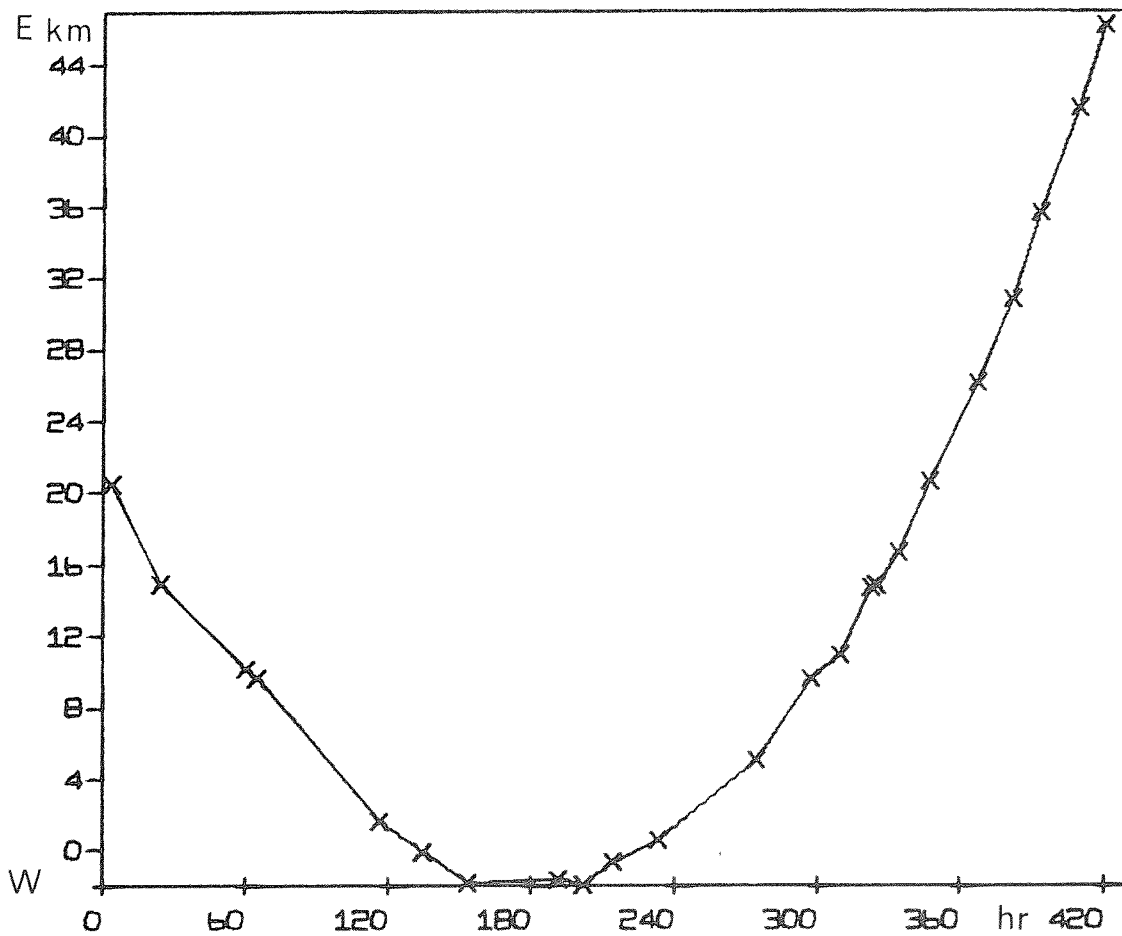
SERIAL NO = 259

FLOAT DESIGNATION = 6 DATE AND TIME LAID = 0.7/10.4.73



SERIAL NO = 259

FLOAT DESIGNATION = 6 DATE AND TIME LAID = 0.7/10.4.73



SERIAL NO= 260

FLOAT DESIGNATION= 19 DATE AND TIME LAID= 18.1/11. 4.73

POSITION LAID= 28 1.2N 69 56.7W DISPLACEMENT ORIGIN= 28 3.0N
(-9.3KM E -3.3KM N) 69 51.0W

NAVIGATION BASED ON LORAN C + SAT

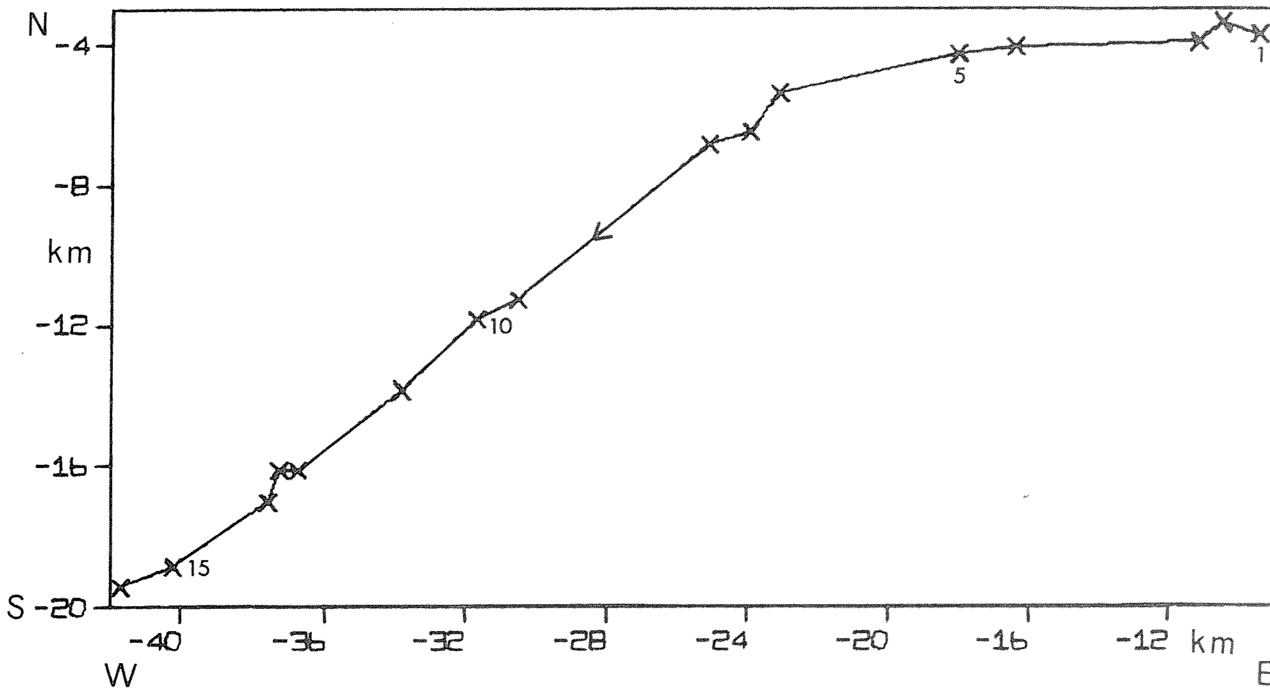
DEPTH(M)= NOMINAL OBSERVED S.D
3000 2810 50

FIX NO	DATE	TIME GMT	FIX POSITION LAT.N	FIX POSITION LONG.W	HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
1	11. 4	23.4	28 1.0	69 56.8	5.3	-9.5	-3.7		
2	12. 4	8.5	28 1.2	69 57.4	14.4	-10.5	-3.3	3.2	291
3	12. 4	20.9	28 0.9	69 57.8	26.8	-11.1	-3.9	1.9	230
4	15. 4	3.3	28 0.8	70 1.0	81.2	-16.4	-4.1	2.7	268
5	16. 4	2.4	28 0.7	70 2.0	104.3	-18.0	-4.2	2.0	264
6	18. 4	3.3	28 0.1	70 5.1	153.2	-23.1	-5.4	3.0	258
7	18. 4	18.7	27 59.5	70 5.6	168.6	-23.9	-6.5	2.5	216
8	18. 4	22.9	27 59.3	70 6.3	172.8	-25.1	-6.8	8.0	252
9	21. 4	5.6	27 56.9	70 9.6	227.5	-30.5	-11.3	3.6	231
10	21. 4	16.1	27 56.6	70 10.3	238.0	-31.6	-11.8	3.4	244
11	22. 4	12.8	27 55.5	70 11.6	258.7	-33.8	-13.9	4.0	226
12	23. 4	14.8	27 54.3	70 13.4	284.7	-36.7	-16.1	3.9	233
13	23. 4	21.8	27 54.3	70 13.7	291.7	-37.2	-16.1	2.0	270
14	24. 4	7.7	27 53.8	70 13.9	301.6	-37.5	-17.0	2.8	200
15	24. 4	21.3	27 52.8	70 15.5	315.2	-40.2	-18.8	6.6	235
* 16	25. 4	15.0	27 52.5	70 16.4	332.9	-41.6	-19.4	2.5	249

MEAN SPEED ALONG TRAJECTORY= 3.2 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 16 = 3.0 CM/SEC 244 DEGREES TRUE

SERIAL NO = 260

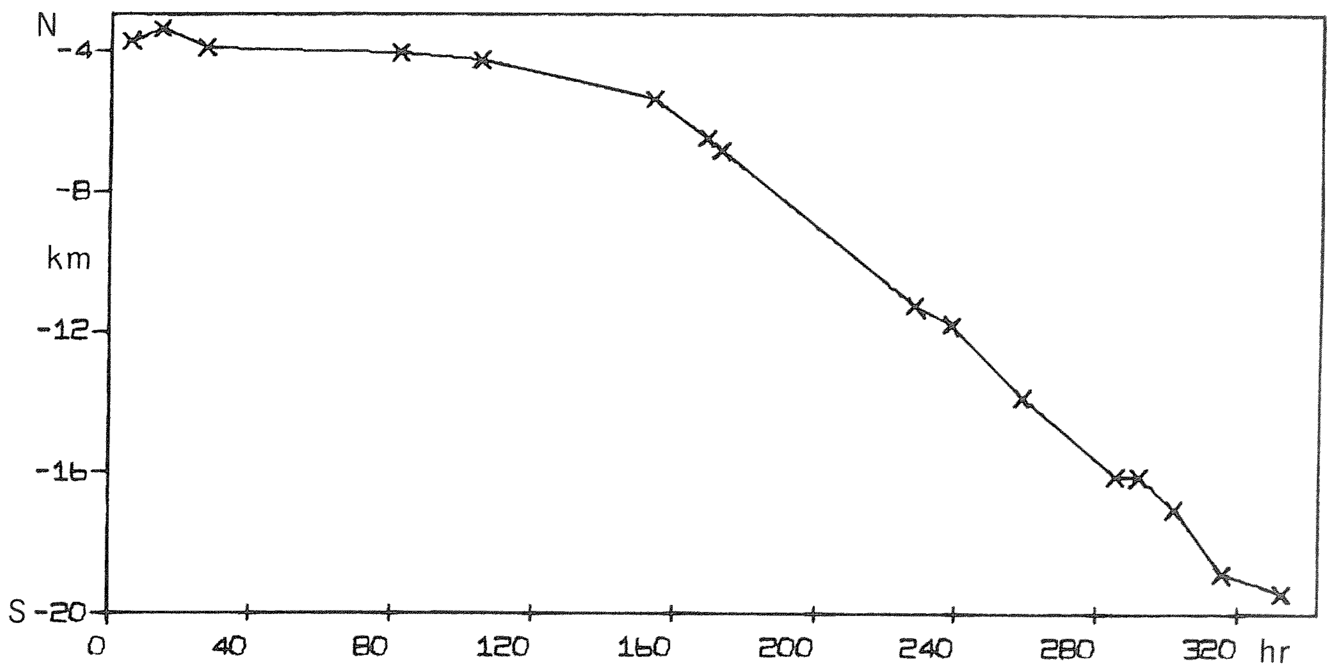
FLOAT DESIGNATION = 19 DATE AND TIME LAID = 18.1/11.4.73



SERIAL NO = 260

FLOAT DESIGNATION = 19

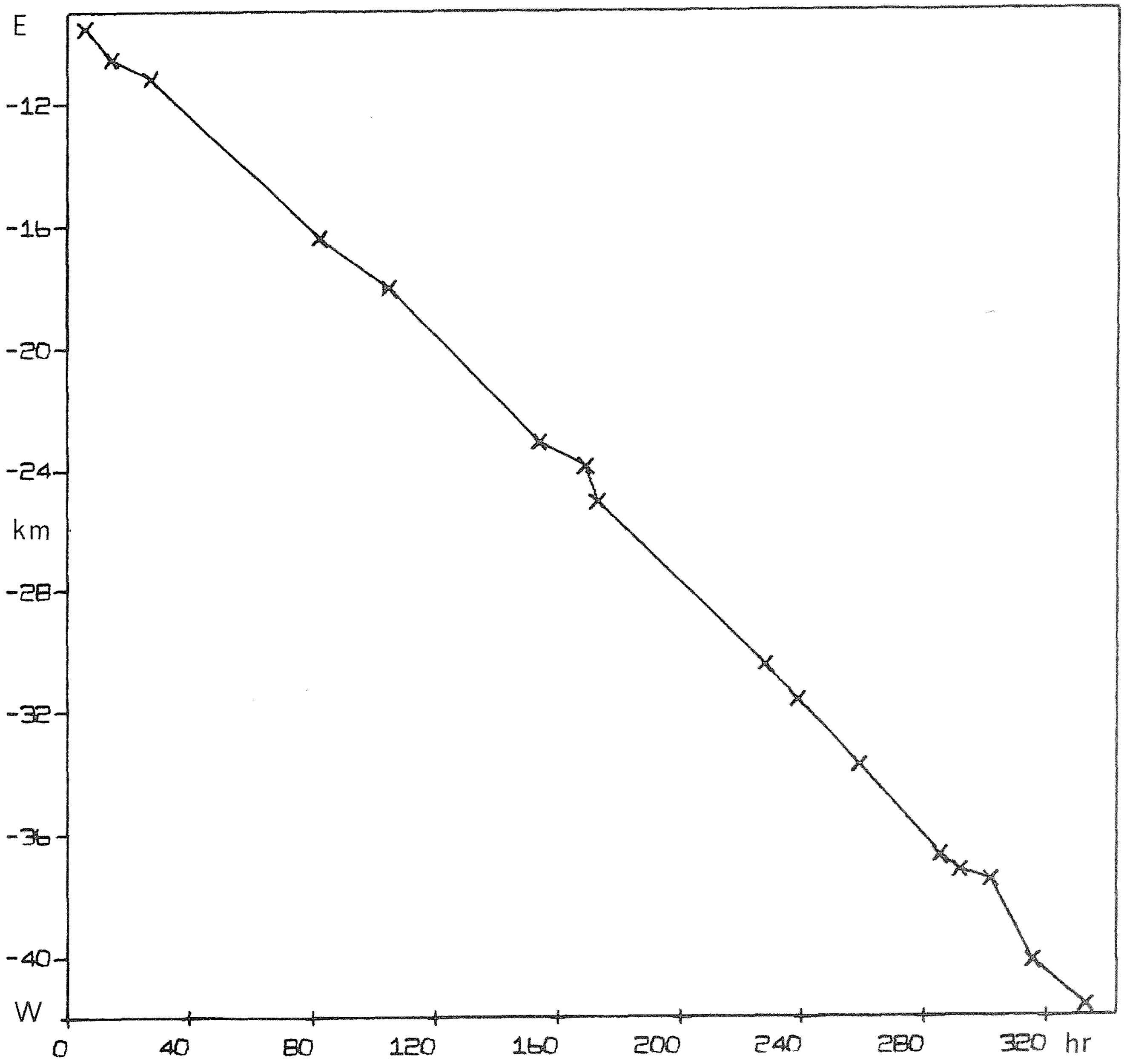
DATE AND TIME LAID = 18.1/11.4.73



SERIAL NO = 260

FLOAT DESIGNATION = 19

DATE AND TIME LAID = 18.1/11.4.73



SERIAL NO= 261

FLOAT DESIGNATION= 17 DATE AND TIME LAID= 15.9/15. 4.73

POSITION LAID= 27 54.0N 70 27.2W DISPLACEMENT ORIGIN= 27 50.0N
(-3.6KM E 7.3KM N) 70 25.0W

NAVIGATION BASED ON LORAN C + SAT

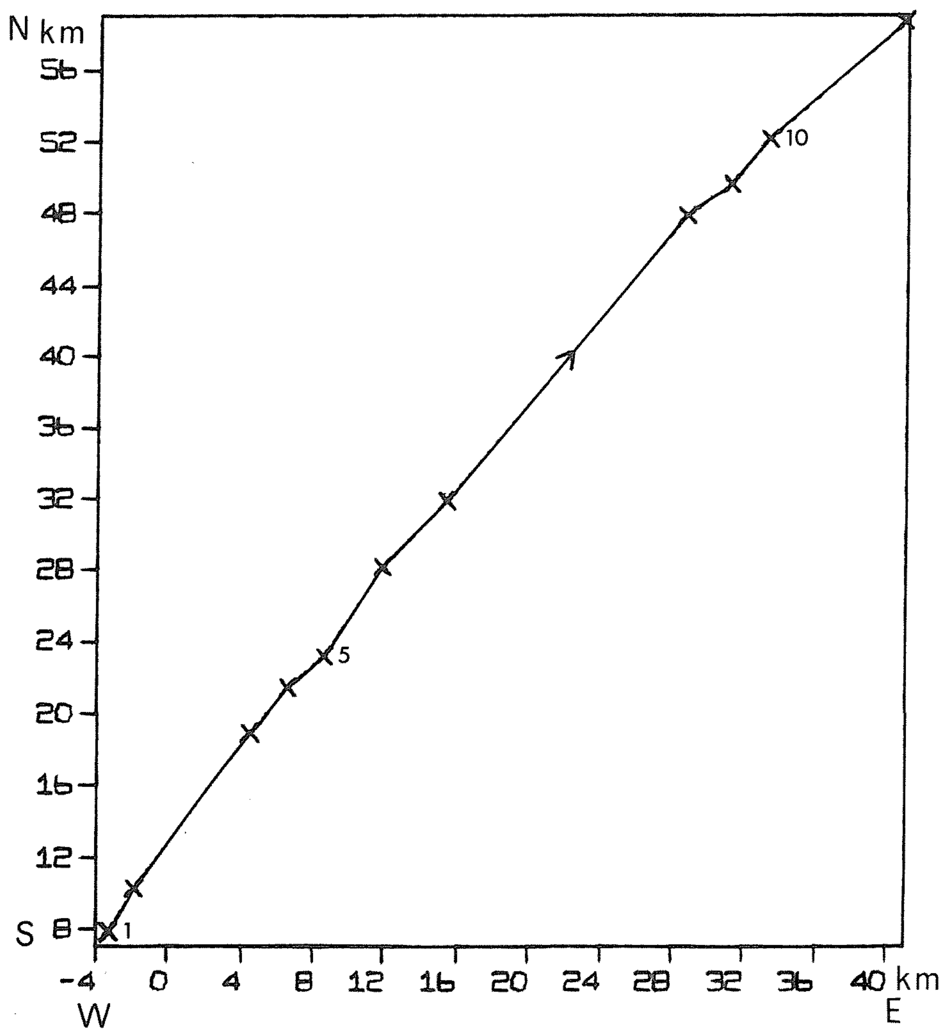
DEPTH(M)= NOMINAL OBSERVED S.D
500 530 10

	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	15. 4	19.3	27 54.2	70 27.0	3.4	-3.3	7.8		
*	2	16. 4	9.5	27 55.5	70 26.1	17.6	-1.8	10.2	5.5	32
	3	17. 4	23.8	28 0.2	70 22.3	55.9	4.4	18.8	7.8	36
*	4	18. 4	9.8	28 1.6	70 21.0	65.9	6.6	21.4	9.3	39
	5	18. 4	15.2	28 2.5	70 19.8	71.3	8.5	23.1	13.3	50
	6	19. 4	5.1	28 5.2	70 17.8	85.2	11.8	28.1	11.9	33
*	7	19. 4	21.4	28 7.2	70 15.6	101.5	15.4	31.8	8.8	44
	8	21. 4	12.5	28 15.9	70 7.5	140.6	28.7	47.8	14.8	40
*	9	21. 4	17.7	28 16.8	70 6.0	145.8	31.1	49.5	15.8	56
	10	22. 4	0.0	28 18.2	70 4.7	152.1	33.2	52.1	14.8	39
*	11	22. 4	15.5	28 21.7	70 0.1	167.6	40.8	58.6	17.8	49

MEAN SPEED ALONG TRAJECTORY=11.4 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 11 =11.4 CM/SEC 41 DEGREES TRUE

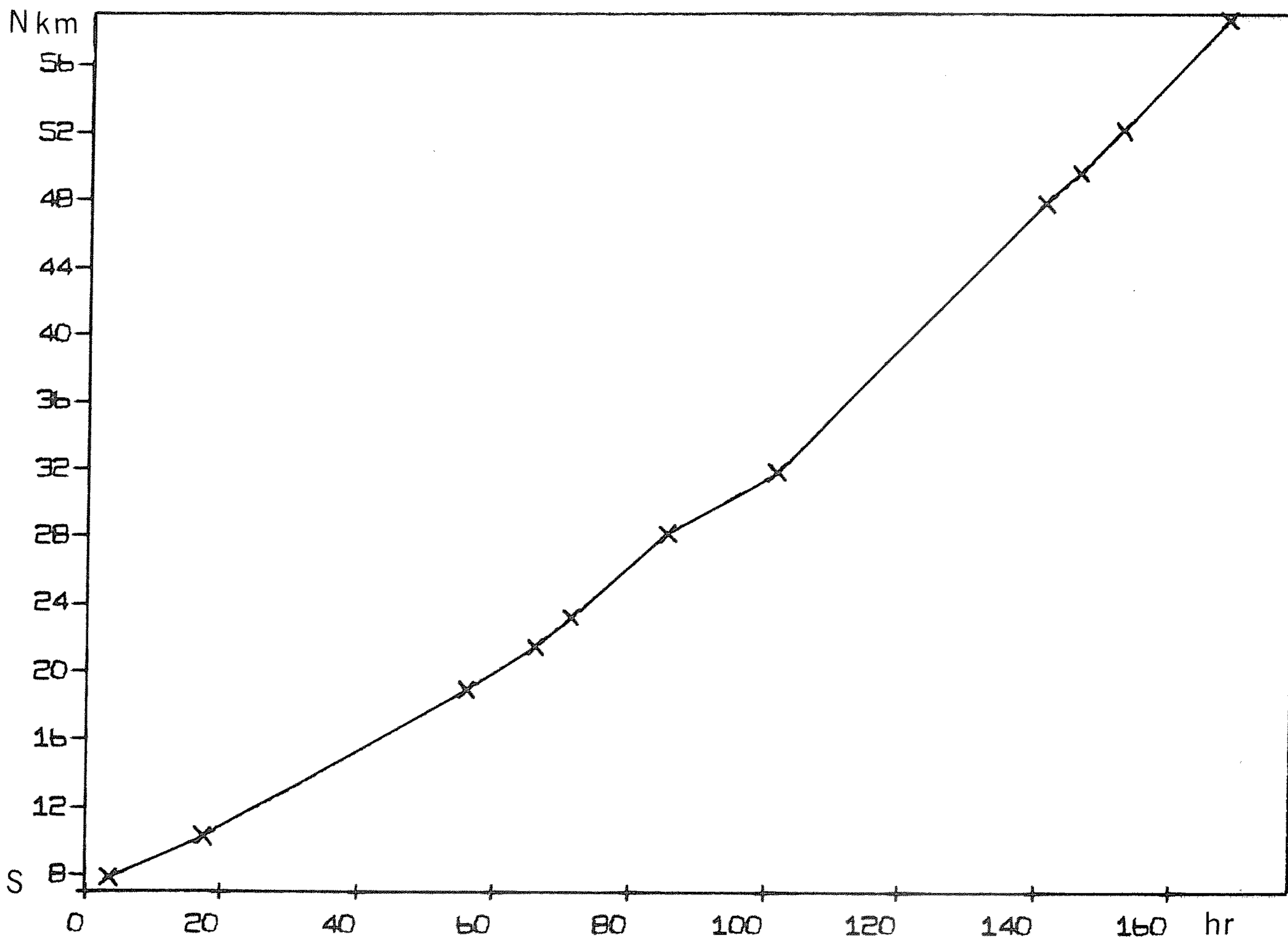
SERIAL NO = 261

FLOAT DESIGNATION = 17   DATE AND TIME LAID = 15.9/15.4.73



SERIAL NO = 261

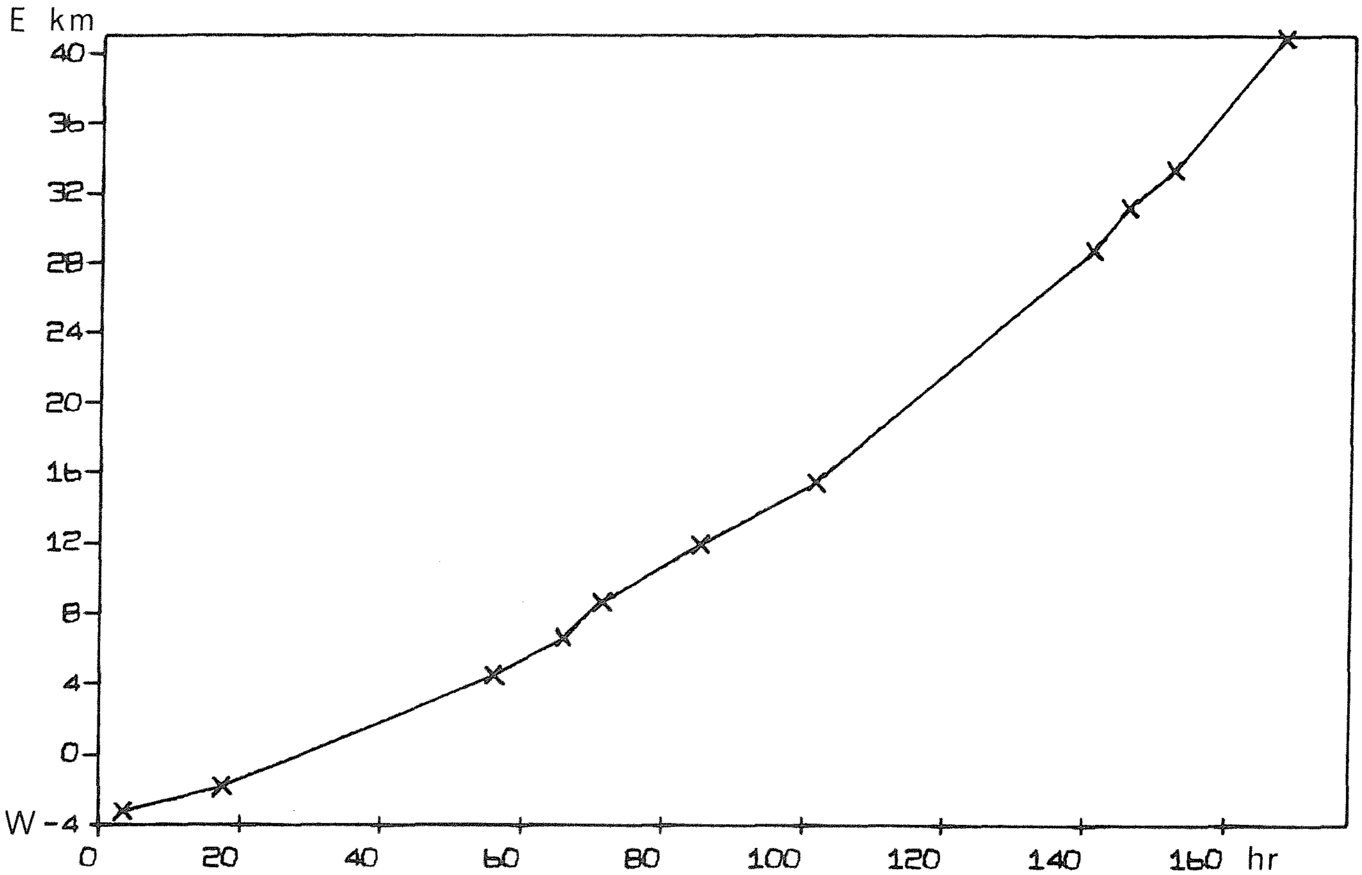
FLOAT DESIGNATION = 17 DATE AND TIME LAID = 15.9/15.4.73



SERIAL NO = 261

FLOAT DESIGNATION = 17

DATE AND TIME LAID = 15.9/15.4.73



SERIAL NO= 262

FLOAT DESIGNATION= 4 DATE AND TIME LAID= 1.9/16. 4.73

POSITION LAID= 28 2.0N 69 55.7W DISPLACEMENT ORIGIN= 28 3.0N
(-7.7KM E -0.1KM N) 69 51.0W

NAVIGATION BASED ON LORAN C + SAT

DEPTH(M)= NOMINAL OBSERVED S.D
500 550 70

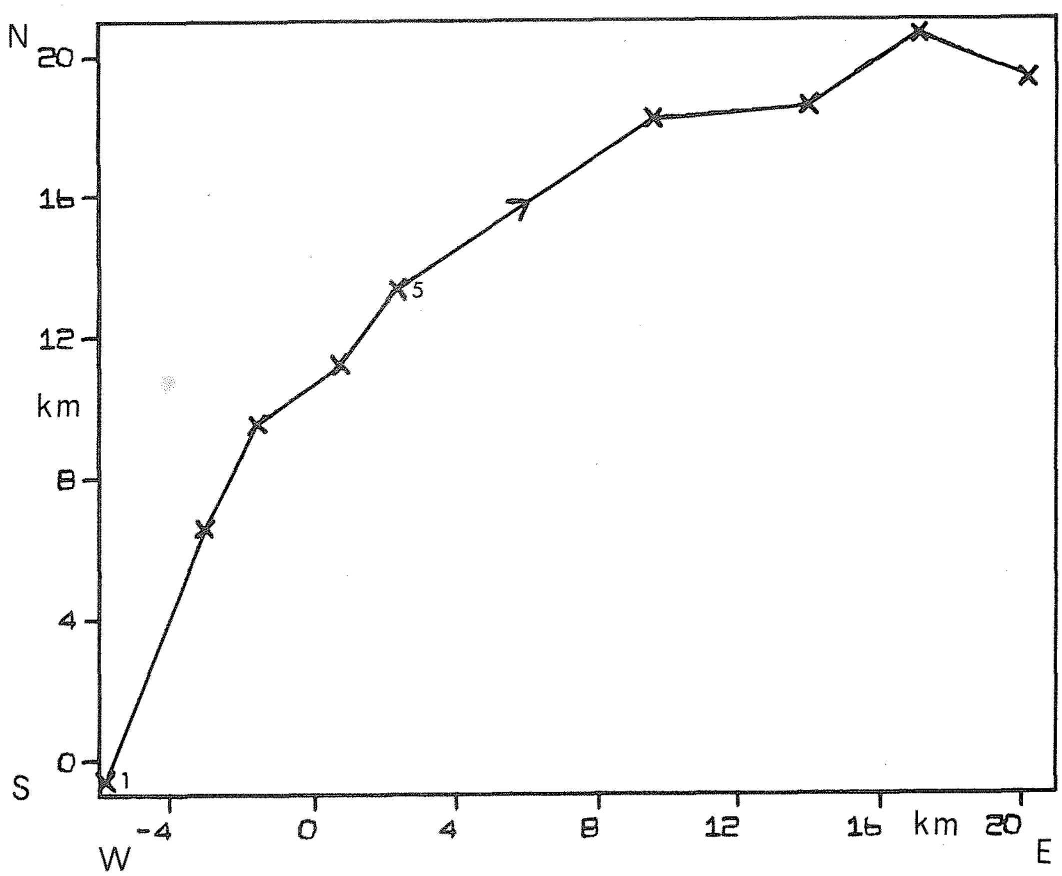
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N		FIX POSITION LONG.W		HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	DISPLACEMENT(KM) +N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
	1	16. 4	5.6	28	2.7	69	54.5	3.7	-5.7	-0.6		
	2	17. 4	23.8	28	6.5	69	52.8	45.9	-3.0	6.5	5.0	22
	3	18. 4	14.1	28	8.1	69	51.9	60.2	-1.5	9.4	6.4	27
	4	19. 4	5.1	28	9.0	69	50.6	75.2	0.7	11.1	5.0	52
*	5	19. 4	13.9	28	10.2	69	49.6	84.0	2.3	13.3	8.7	36
*	6	21. 4	3.2	28	12.8	69	45.2	121.3	9.5	18.1	6.5	56
	7	21. 4	18.6	28	13.0	69	42.5	136.7	13.9	18.5	8.0	95
	8	22. 4	5.4	28	14.1	69	40.6	147.5	17.0	20.5	9.6	57
*	9	22. 4	18.9	28	13.4	69	38.7	161.0	20.1	19.2	6.9	113

MEAN SPEED ALONG TRAJECTORY= 6.4 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 9 = 5.8 CM/SEC 53 DEGREES TRUE

SERIAL NO = 262

FLOAT DESIGNATION = 4

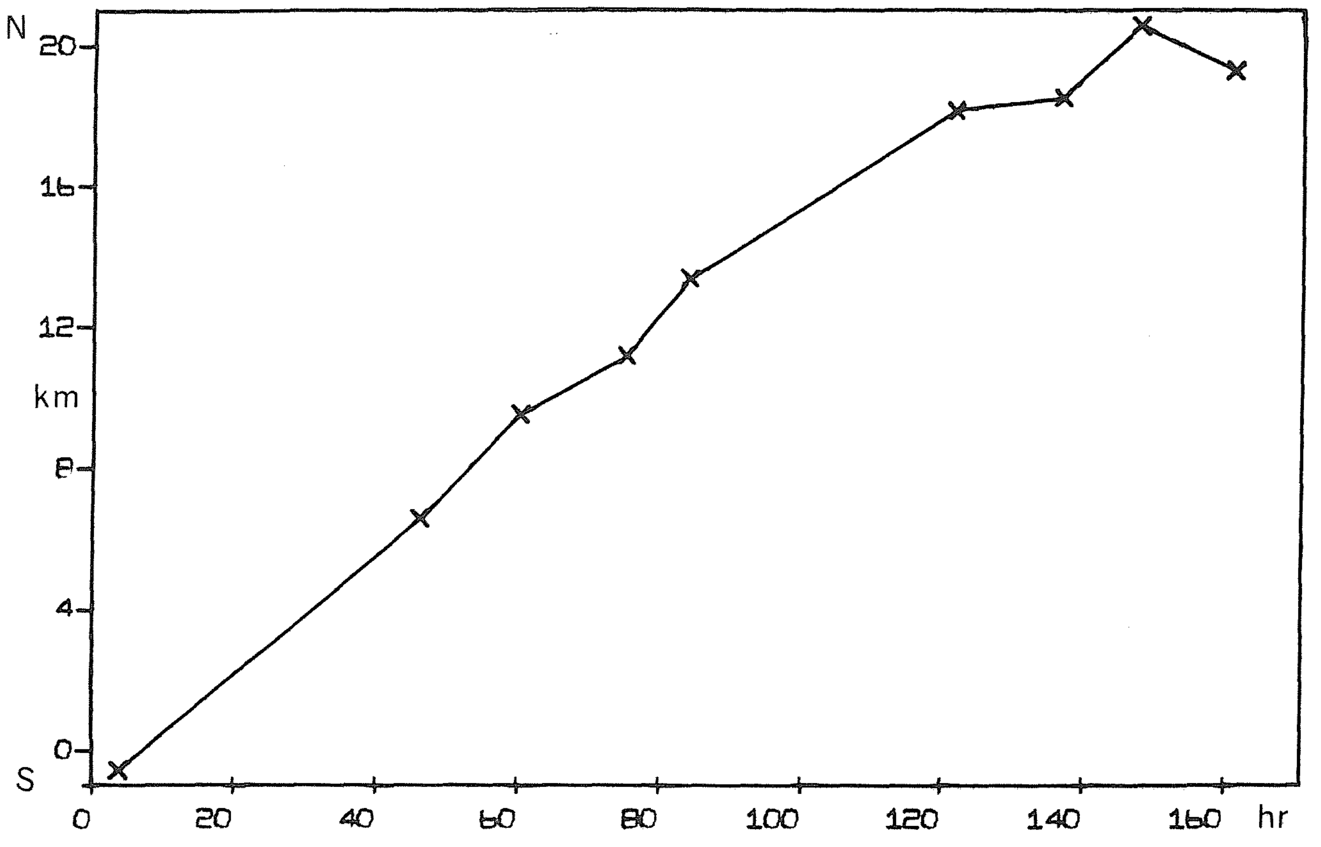
DATE AND TIME LAID = 1.9/16.4.73



SERIAL NO = 262

FLOAT DESIGNATION = 4

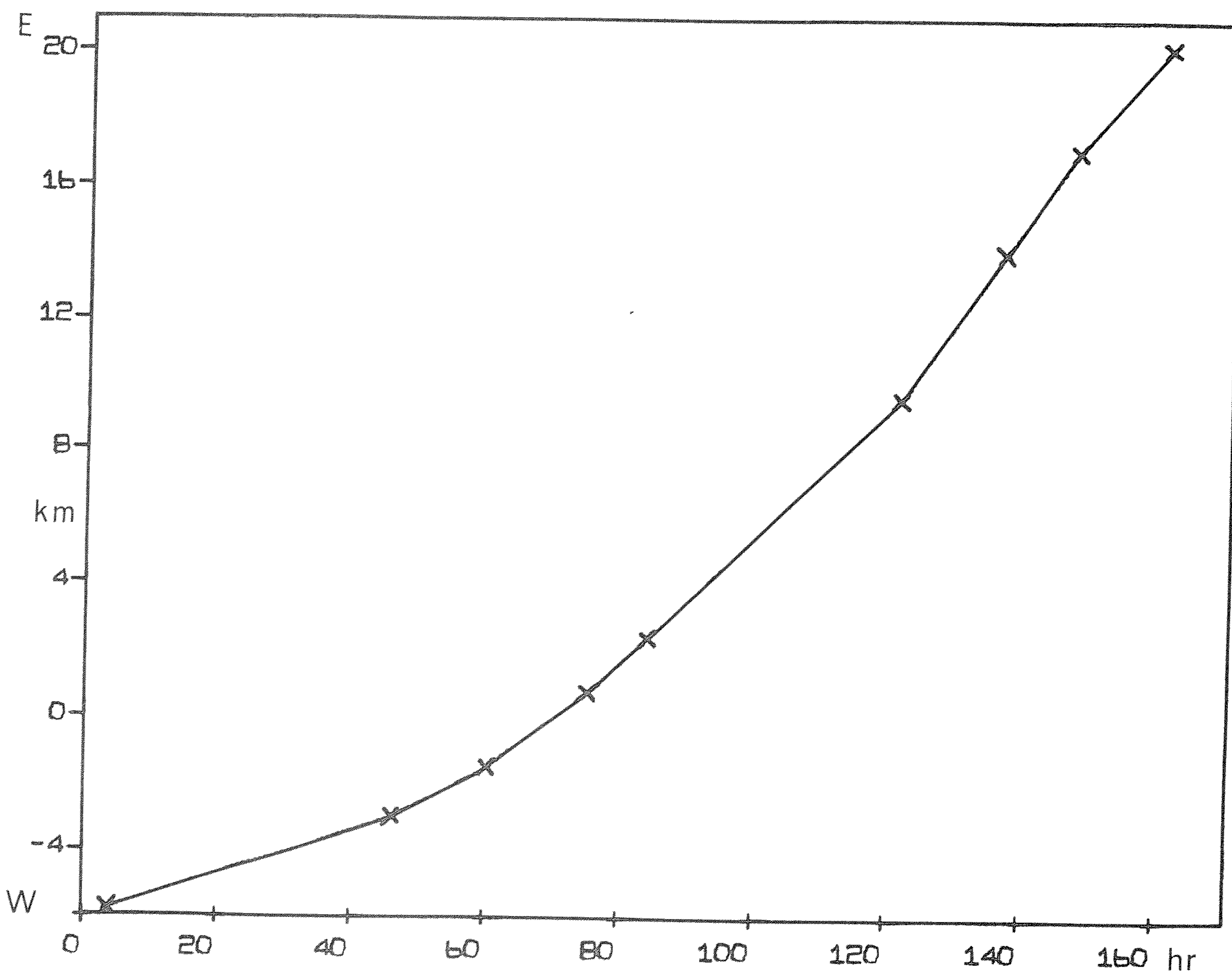
DATE AND TIME LAID = 1.9/16.4.73



SERIAL NO = 262

FLOAT DESIGNATION = 4

DATE AND TIME LAID = 1.9/16.4.73



SERIAL NO= 263

FLOAT DESIGNATION= 3 DATE AND TIME LAID= 12.9/18. 4.73

POSITION LAID= 27 47.0N 70 10.7W DISPLACEMENT ORIGIN= 27 50.0N
(23.4KM E -5.5KM N) 70 25.0W

NAVIGATION BASED ON LORAN C + SAT

DEPTH(M)= NOMINAL OBSERVED S.D
500 580 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	18. 4	17.3	27 47.2	70 10.5	4.4	23.8	-5.2		
	2	19. 4	7.2	27 48.3	70 12.3	18.3	20.9	-3.1	7.2	304
*	3	19. 4	19.2	27 49.0	70 13.2	30.3	19.4	-1.8	4.5	311
*	4	21. 4	10.2	27 52.5	70 16.2	69.3	14.5	4.6	5.8	323
	5	22. 4	12.8	27 54.5	70 15.4	95.9	15.8	8.3	4.1	20
	6	23. 4	6.3	27 56.1	70 15.8	113.4	15.1	11.3	4.8	347
*	7	23. 4	14.0	27 57.9	70 15.1	121.1	16.3	14.6	12.7	19

MEAN SPEED ALONG TRAJECTORY= 5.8 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 7 = 5.0 CM/SEC 339 DEGREES TRUE

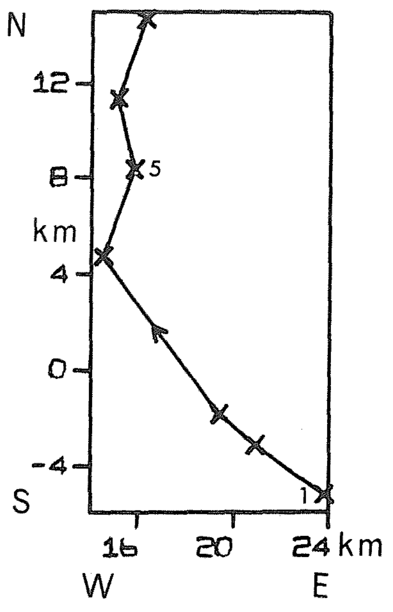
DEPTH(M)= NOMINAL OBSERVED (See Introduction)
500 2

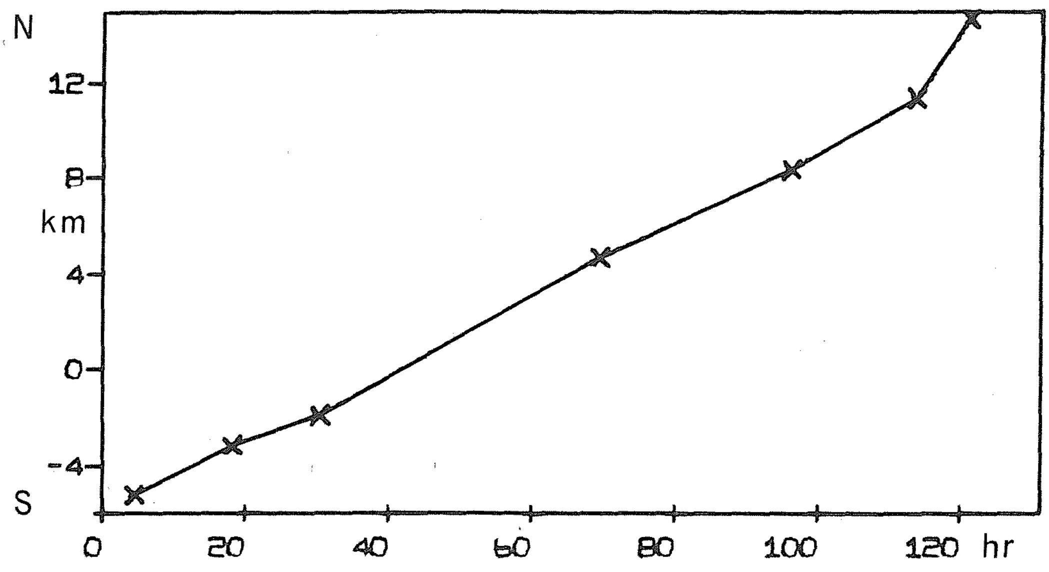
	FIX NO	DATE	TIME GMT	FIX POSITION LAT.N	LONG.W	HOURS SINCE LAID	DISPLACEMENT(KM) +E-W X	+N-S Y	VELOCITIES BETWEEN FIXES CM/SEC	T
	1	23. 4	22.9	27 59.8	70 14.2	8.9	17.7	18.1		
	2	24. 4	10.3	28 7.3	70 12.5	20.3	20.5	32.0	34.5	11
*	3	25. 4	5.5	28 21.3	70 3.7	39.5	34.9	57.8	42.9	29
*	4	25. 4	11.2	28 24.5	70 0.6	45.2	40.0	63.7	38.0	41

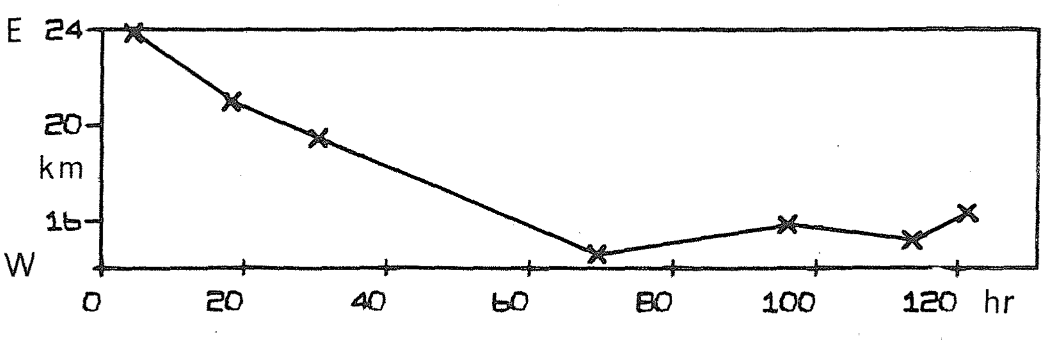
MEAN SPEED ALONG TRAJECTORY=39.4 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 4 =38.9 CM/SEC 26 DEGREES TRUE

SERIAL NO = 263

FLOAT DESIGNATION = 3 DATE AND TIME LAID = 12.9/18.4.73







SERIAL NO= 264

FLOAT DESIGNATION= 28 DATE AND TIME LAID= 16.3/19. 4.73

POSITION LAID= 28 5.9N 70 13.4W DISPLACEMENT ORIGIN= 27 50.0N
(19.0KM E 29.3KM N) 70 25.0W

NAVIGATION BASED ON LORAN C + SAT

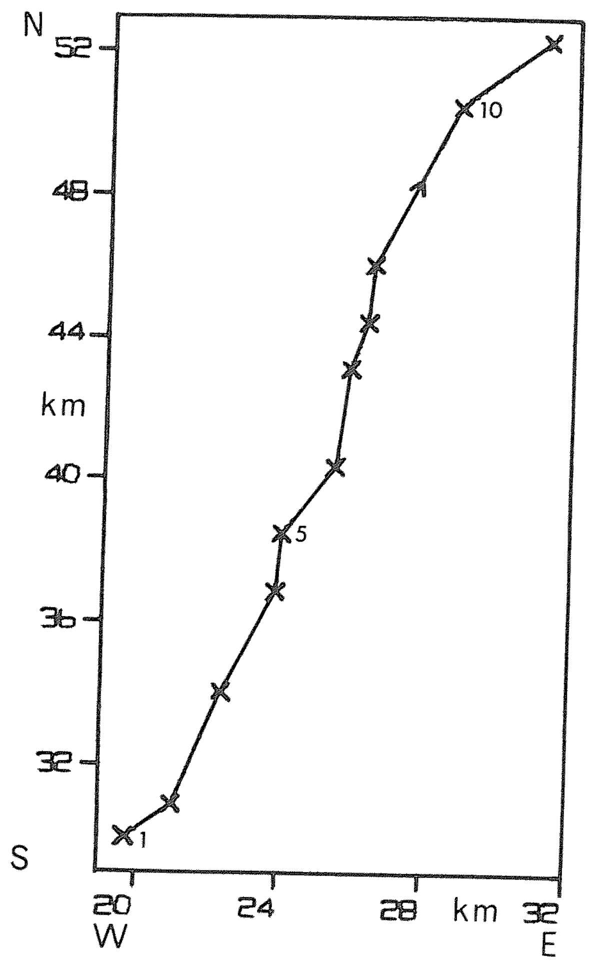
DEPTH(M)= NOMINAL OBSERVED S.D
800 895 25

	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. 4	21.0	28	6.2	70	13.0	4.7	19.7	29.9		
	2	21. 4	12.5	28	6.7	70	12.2	44.2	21.0	30.8	1.1	55
	3	22. 4	12.8	28	8.4	70	11.4	68.5	22.3	34.0	3.9	23
*	4	23. 4	12.6	28	9.9	70	10.5	92.3	23.8	36.8	3.7	28
	5	24. 4	0.0	28	10.8	70	10.4	103.7	23.9	38.4	4.1	6
	6	24. 4	12.0	28	11.8	70	9.5	115.7	25.4	40.3	5.5	39
*	7	25. 4	4.0	28	13.3	70	9.3	131.7	25.7	43.0	4.8	7
*	8	25. 4	21.5	28	14.0	70	9.0	149.2	26.2	44.3	2.2	21
	9	26. 4	3.5	28	14.9	70	8.9	155.2	26.4	46.0	7.7	6
*	10	27. 4	3.2	28	17.3	70	7.5	178.9	28.7	50.4	5.9	27
*	11	27. 4	10.5	28	18.3	70	6.0	186.2	31.1	52.3	11.7	53

MEAN SPEED ALONG TRAJECTORY= 4.0 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 11 = 3.8 CM/SEC 27 DEGREES TRUE

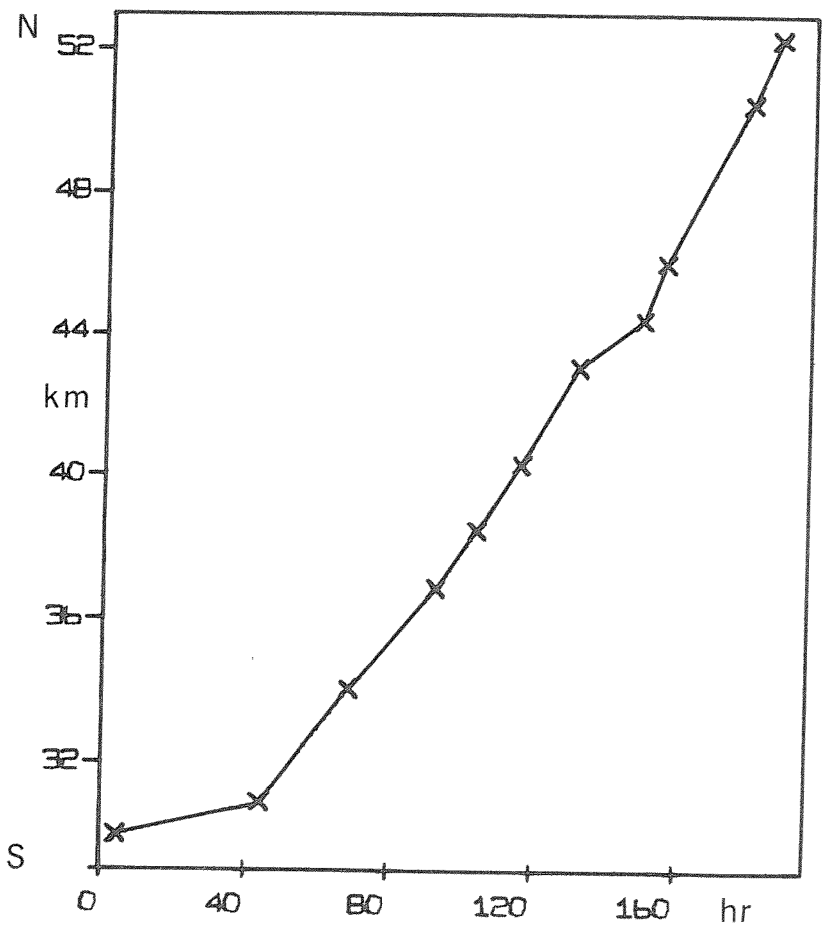
SERIAL NO = 264

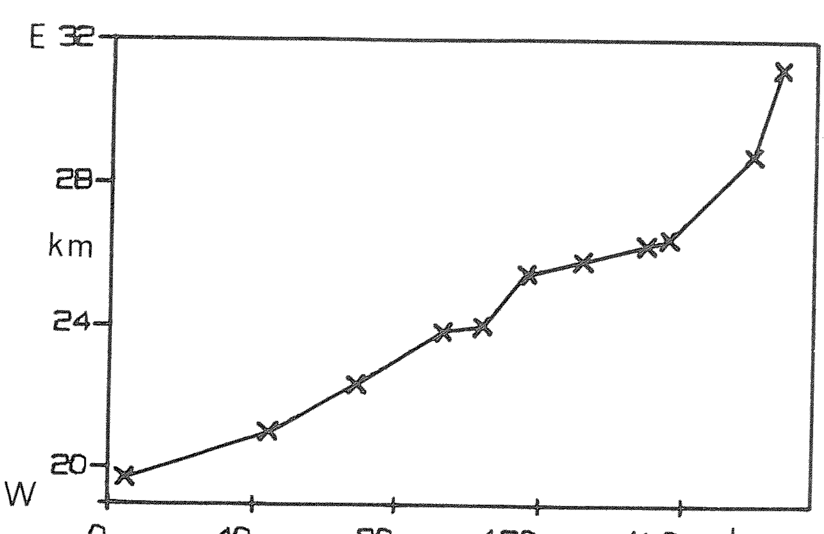
FLOAT DESIGNATION = 28　　　DATE AND TIME LAID = 16.3/19.4.73



SERIAL NO = 264

FLOAT DESIGNATION = 28 DATE AND TIME LAID = 16.3/19.4.73





SERIAL NO= 265

FLOAT DESIGNATION= 17 DATE AND TIME LAID= 3.3/23. 4.73

POSITION LAID= 28 20.2N 70 24.8W DISPLACEMENT ORIGIN= 27 58.0N
(-19.3KM E 41.0KM N) 70 13.0W

NAVIGATION BASED ON LORAN C + SAT

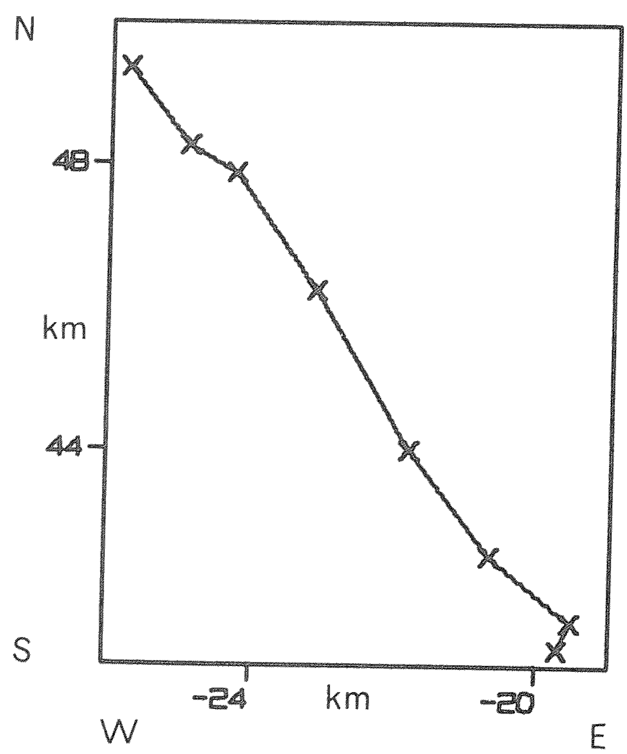
DEPTH(M)= NOMINAL OBSERVED S.D
4000 3690 50

	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	23. 4	7.0	28 20.3	70 25.0	3.7	-19.6	41.2		
	2	23. 4	10.3	28 20.5	70 24.9	7.0	-19.5	41.6	3.4	24
	3	24. 4	1.3	28 21.0	70 25.6	22.0	-20.6	42.5	2.7	309
	4	24. 4	12.0	28 21.8	70 26.3	32.7	-21.8	44.0	4.9	322
	5	25. 4	8.6	28 23.0	70 27.1	53.3	-23.1	46.2	3.5	329
	6	25. 4	22.4	28 23.9	70 27.8	67.1	-24.2	47.8	4.1	325
	7	26. 4	8.0	28 24.1	70 28.2	76.7	-24.9	48.2	2.2	299
*	8	26. 4	20.8	28 24.7	70 28.7	89.5	-25.7	49.3	3.0	324

MEAN SPEED ALONG TRAJECTORY= 3.4 CM/SEC
MEAN VELOCITY, FIX 1 - FIX 8 = 3.3 CM/SEC 323 DEGREES TRUE

SERIAL NO = 265

FLOAT DESIGNATION = 17 DATE AND TIME LAID = 3.3/23.4.73



SERIAL NO = 265

FLOAT DESIGNATION = 17 DATE AND TIME LAID = 3.3/23.4.73