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NOAA Data Report ERL AOML-4

DATA FOR EPOCS/FGGE DRIFTING BUOYS:
FEBRUARY 1979 THROUGH OCTOBER 1980

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UNITED STATES
DEPARTMENT OF COMMERCE

Malcolm Baldrige,
Secretary

NATIONAL OCEANIC AND
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Director



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INTRODUCTION

Since February 1979, AOML has intermittently deployed satellite-tracked drifting buoys in the eastern tropical Pacific as part of the EPOCS and FGGE experiments. This data report will cover the first 31 of these deployments with data through October 1980. Table 1 details the deployment times and locations of these buoys. Most of these deployments were in the South Equatorial Current (SEC) and a few were deployed in the North Equatorial Countercurrent (NECC). When all the buoy tracks are combined, the geographic coverage is quite extensive in the region from 15°N to 15°S, and 80°W to 140°W with limited additional coverage in surrounding areas.

BUOY HARDWARE

All of the buoys used in this project were of similar design although there were some variations in the type of environmental sensors carried. The buoys were designed and constructed by the Polar Research Laboratory, Inc., in cooperation with the NOAA Data Buoy Office. The basic buoy consists of a cylindrical spar buoy with a conical flotation collar and a ballasted 2 m by 10 m windowshade drogue attached to the surface float by a 30 m nylon tether (see Figure 1). Three of the buoys (2217, 2220, and 2225) used a 100 m nylon tether. A variety of environmental sensors have been used, including water temperature, atmospheric pressure, wind speed, drogue tension, and internal battery voltage (see Table 1).

The data collection and buoy location were performed by Service ARGOS. With the ARGOS system, a data message is transmitted by each buoy approximately every 51.4 seconds. Whenever a satellite (one of the TIROS-N or NOAA-6 series) is in receiving range, the data message and the Doppler signals from which the position coordinates of the buoy are calculated are recorded. This information is relayed through a ground station to Service ARGOS in Toulouse, France, where preliminary processing is done. The data are compiled and then made available to the system users in a computer compatible magnetic tape format. Further data reduction and analysis was performed at AOML.

DESCRIPTION OF SENSORS

- (1) Water Temperature. Water temperature was measured by a thermistor which was embedded in the buoy hull at a depth of about 1 m. The buoy electronics convert the resistance of the thermistor to an eight-bit digital word (0-255 decimal) giving a least count resolution of about 0.156°C. Calibrations provided by PRL give a stated minimum accuracy of 1°C (0.3°C rms).
- (2) Drogue Sensors. Two different types of drogue sensors have been used. The first type consists of a mechanical assembly which transmits the tension in the drogue tether to a strain gauge device which in turn

provides an electrical output proportional to the tether tension. This signal is then digitized by the buoy electronics. The second type of sensor is similar except that instead of providing a record of the actual tether tension, it provides an "on-off" signal depending on whether the tether tension exceeds some threshold. The drogue sensor data are summarized in Figure 2.

- (3) Wind Speed Sensors. The wind speed sensors vary from buoy to buoy but all involve a rotor mounted on the top of the buoy which activates a counter each revolution of the rotor. These counts are scaled and stored for subsequent transmission. The transmission to the satellite includes both the current instantaneous wind speed counts and the output of a buffer which contains a running, weighted average of the past 512 instantaneous wind speed counts. This results in a wind speed record that has essentially undergone a low-pass filter with a $1/e$ time constant of 7.3 hours. The wind speeds shown are the low-pass filtered winds.
- (4) Atmospheric Pressure Sensors. As on other buoys deployed as part of the FGGE experiment, a Paros atmospheric pressure sensor was installed. Calibrations were provided by the PRL and accuracies are given as plus or minus 1 mb (0.6 mb rms). These data were included as part of the FGGE data base and will not be presented here.

DATA PROCESSING AND DISPLAY

The raw data on the tapes supplied by Service ARGOS are translated and converted to engineering units (for those buoys for which Service ARGOS has not already applied the correct calibration equations) and sorted by buoy identification number, then stored as disk files ("B" files) on our computer system. The position data are then edited to remove spurious points which imply an average speed between two fixes of greater than 3 knots, and then further smoothing and interpolation to uniform six-hour intervals is performed. The smoothed position data are also used to compute north-component and east-component velocities for each six-hour interval. These velocities are then sorted by Marsden squares and archived for further analysis.

The sensor data can be plotted directly from the "B" files in one of three ways: (1) raw data; (2) data smoothed by a three-point triangular filter; or (3) data block-averaged over one-day intervals.

The basic data from the drifting buoys are displayed here in several forms: trajectory plots, time series plots, and monthly composites.

The trajectory plots are simply the sequence of smoothed six-hourly positions. In addition to the actual trajectory, we have indicated the actual deployment position, which sometimes occurred several days to a few weeks before regular position reports were received.

The time series plots include the north-component and east-component of buoy velocity, the near-surface water temperature, and wind speed. The buoy velocity components have been further smoothed by passing through a three-point triangular running average. The temperature data have been block-averaged over daily intervals and out of range points have been eliminated.

Only a few of the buoys contained wind speed sensors and these sensors had mostly lifetimes; only those wind speed data deemed "good" have been plotted.

The monthly composite plots consist of one vector for each buoy representing the displacement for that buoy during the indicated month. The associated speed scale applies only to those buoys which transmitted data for the entire month.

Buoys 2229, 2232, and 2236 have been cut off at day 609 for this report. The remainder of the data from these buoys will be presented in a future data report. Buoys 2232 and 2217 have been split into two parts because of gaps in the data. For the trajectory plots, buoys with lifetimes greater than about 400 days have been plotted in two sections for ease in display. In addition, several areas of complicated motion have been enlarged for greater clarity. Buoy 2206 failed almost immediately after launch and no data from it has been included in this report. The star symbol denotes the point of deployment and the numbered crosses denote location during subsequent Julian days. Closed triangles denote the day the drogue was off. Open triangles show the day that the drogue might have been off, but not certain.

ACKNOWLEDGMENTS

The authors would like to acknowledge Ms. Gail Derr for doing all the typing and producing all tables. Recognition is also due to Mr. Dale Martin, who made most of the drawings.

Table 1: Drift Buoy History.

Buoy #	Day	Deployment		Sea Surface Temperature	Atmospheric Pressure	Drogue Tension/On-Off	Wind Sensor	Battery Voltage
		°N	°W					
2201	32	-4.90	84.00	X	X	X	---	X
2202	25	-7.63	83.50	X	X	X	---	X
2204	35	-7.8	86.93	X	X	X	---	X
2205	145	-11.08	80.03	X	X	X	---	X
2207	33	-3.18	86.92	X	X	X	---	X
2208	157	0.0	105.0	X	X	---	X	X
2209	157	-2.0	105.0	X	X	---	X	X
2211	151	6.0	110.0	X	X	---	X	X
2212	158	4.0	105.0	X	X	---	X	X
2213	156	-4.0	105.0	X	X	---	X	X
2214	159	6.0	105.0	X	X	---	X	X
2215	154	-2.0	110.0	X	X	---	X	X
2217	157	0.0	105.0	X	X	---	X	X
2218	158	2.0	105.0	X	X	---	X	X
2220	158	4.0	105.0	X	X	---	X	X
2222	155	-4.0	110.0	X	X	---	X	X
2223	150	8.0	110.0	X	X	---	X	X
2225	156	-4.0	105.0	X	X	---	X	X
2226	302	0.02	105.0	---	---	X	---	X
2229	301	-2.0	105.0	---	---	X	---	X
2231	389	0.0	87.0	---	---	X	---	X
2232	390	0.0	85.0	---	---	X	---	X
2233	294	5.98	110.01	---	---	X	---	X
2235	305	11.0	105.0	---	---	X	---	X
2236	296	-0.03	110.0	---	---	X	---	X
2251	162	-5.45	86.97	X	X	---	X	X
2252	163	-10.23	86.95	X	X	---	X	X
2254	157	-7.67	83.65	X	X	---	X	X
2255	162	-3.12	86.97	X	X	---	X	X
2257	151	4.0	110.0	X	X	---	X	X

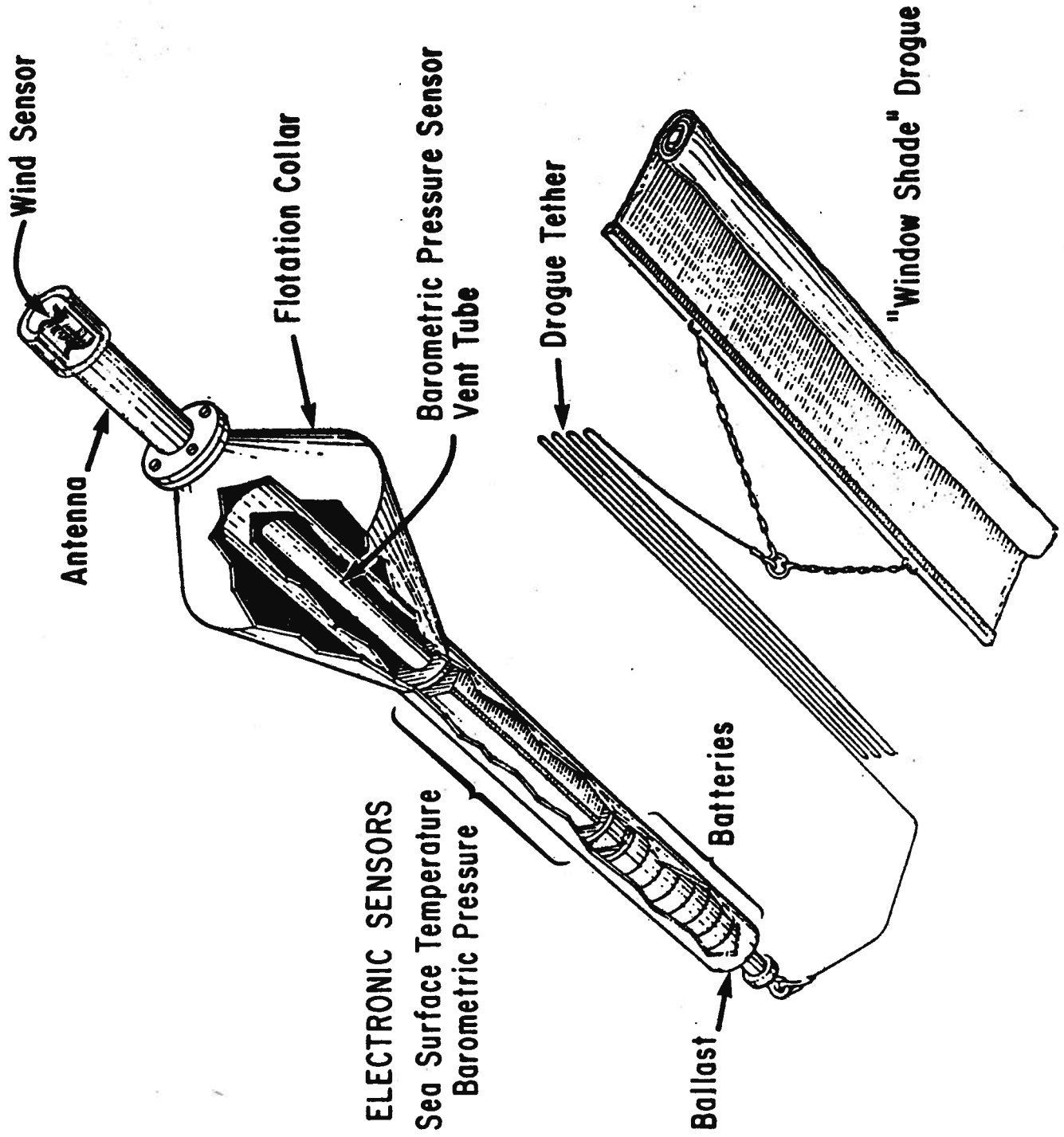


Figure 1. Schematic drawing of PRL drifting buoy used in this experiment.

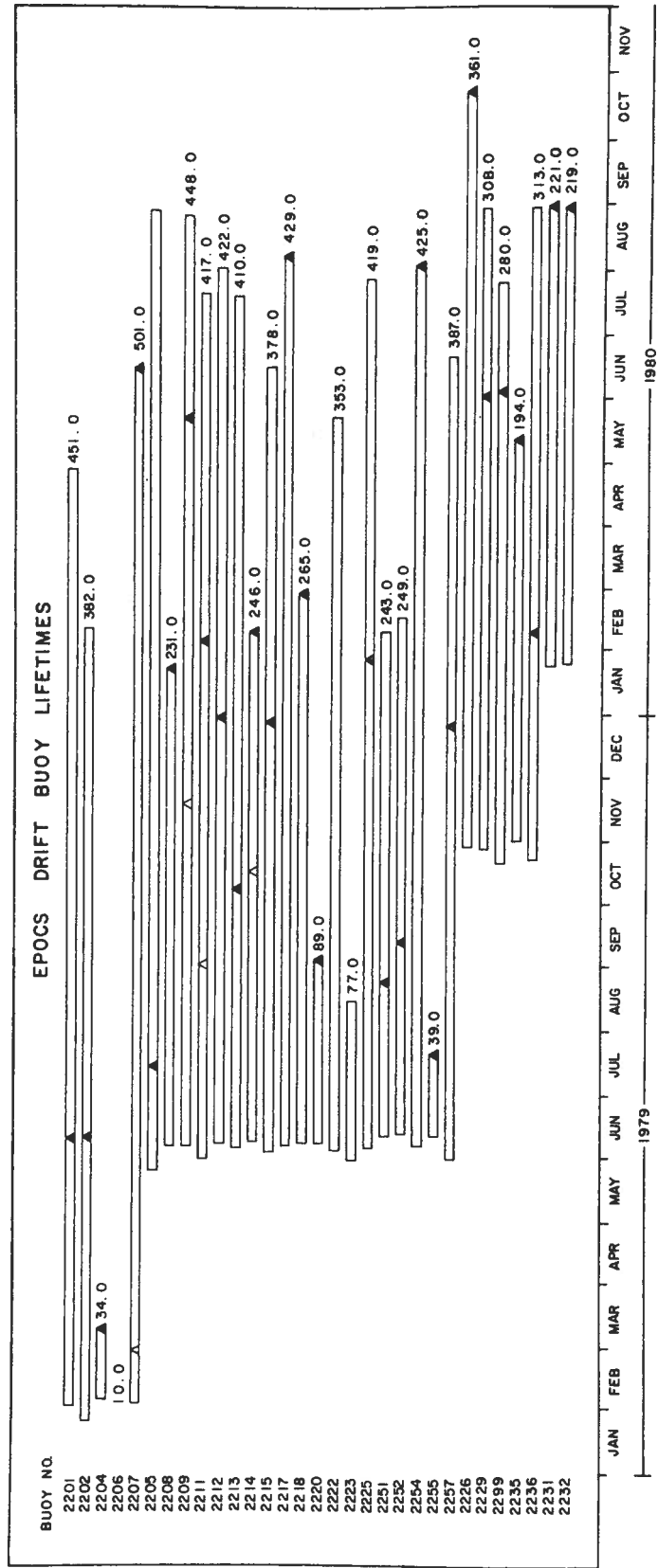


Figure 2. Time span of data from drifting buoys included in this report.

Table 2: Julian Day Conversion.

1	1 JAN 79	58	27 FEB 79	115	25 APR 79
2	2 JAN 79	59	28 FEB 79	116	26 APR 79
3	3 JAN 79	60	1 MAR 79	117	27 APR 79
4	4 JAN 79	61	2 MAR 79	118	28 APR 79
5	5 JAN 79	62	3 MAR 79	119	29 APR 79
6	6 JAN 79	63	4 MAR 79	120	30 APR 79
7	7 JAN 79	64	5 MAR 79	121	1 MAY 79
8	8 JAN 79	65	6 MAR 79	122	2 MAY 79
9	9 JAN 79	66	7 MAR 79	123	3 MAY 79
10	10 JAN 79	67	8 MAR 79	124	4 MAY 79
11	11 JAN 79	68	9 MAR 79	125	5 MAY 79
12	12 JAN 79	69	10 MAR 79	126	6 MAY 79
13	13 JAN 79	70	11 MAR 79	127	7 MAY 79
14	14 JAN 79	71	12 MAR 79	128	8 MAY 79
15	15 JAN 79	72	13 MAR 79	129	9 MAY 79
16	16 JAN 79	73	14 MAR 79	130	10 MAY 79
17	17 JAN 79	74	15 MAR 79	131	11 MAY 79
18	18 JAN 79	75	16 MAR 79	132	12 MAY 79
19	19 JAN 79	76	17 MAR 79	133	13 MAY 79
20	20 JAN 79	77	18 MAR 79	134	14 MAY 79
21	21 JAN 79	78	19 MAR 79	135	15 MAY 79
22	22 JAN 79	79	20 MAR 79	136	16 MAY 79
23	23 JAN 79	80	21 MAR 79	137	17 MAY 79
24	24 JAN 79	81	22 MAR 79	138	18 MAY 79
25	25 JAN 79	82	23 MAR 79	139	19 MAY 79
26	26 JAN 79	83	24 MAR 79	140	20 MAY 79
27	27 JAN 79	84	25 MAR 79	141	21 MAY 79
28	28 JAN 79	85	26 MAR 79	142	22 MAY 79
29	29 JAN 79	86	27 MAR 79	143	23 MAY 79
30	30 JAN 79	87	28 MAR 79	144	24 MAY 79
31	31 JAN 79	88	29 MAR 79	145	25 MAY 79
32	1 FEB 79	89	30 MAR 79	146	26 MAY 79
33	2 FEB 79	90	31 MAR 79	147	27 MAY 79
34	3 FEB 79	91	1 APR 79	148	28 MAY 79
35	4 FEB 79	92	2 APR 79	149	29 MAY 79
36	5 FEB 79	93	3 APR 79	150	30 MAY 79
37	6 FEB 79	94	4 APR 79	151	31 MAY 79
38	7 FEB 79	95	5 APR 79	152	1 JUN 79
39	8 FEB 79	96	6 APR 79	153	2 JUN 79
40	9 FEB 79	97	7 APR 79	154	3 JUN 79
41	10 FEB 79	98	8 APR 79	155	4 JUN 79
42	11 FEB 79	99	9 APR 79	156	5 JUN 79
43	12 FEB 79	100	10 APR 79	157	6 JUN 79
44	13 FEB 79	101	11 APR 79	158	7 JUN 79
45	14 FEB 79	102	12 APR 79	159	8 JUN 79
46	15 FEB 79	103	13 APR 79	160	9 JUN 79
47	16 FEB 79	104	14 APR 79	161	10 JUN 79
48	17 FEB 79	105	15 APR 79	162	11 JUN 79
49	18 FEB 79	106	16 APR 79	163	12 JUN 79
50	19 FEB 79	107	17 APR 79	164	13 JUN 79
51	20 FEB 79	108	18 APR 79	165	14 JUN 79
52	21 FEB 79	109	19 APR 79	166	15 JUN 79
53	22 FEB 79	110	20 APR 79	167	16 JUN 79
54	23 FEB 79	111	21 APR 79	168	17 JUN 79
55	24 FEB 79	112	22 APR 79	169	18 JUN 79
56	25 FEB 79	113	23 APR 79	170	19 JUN 79
57	26 FEB 79	114	24 APR 79	171	20 JUN 79

Table 2 (Continued)

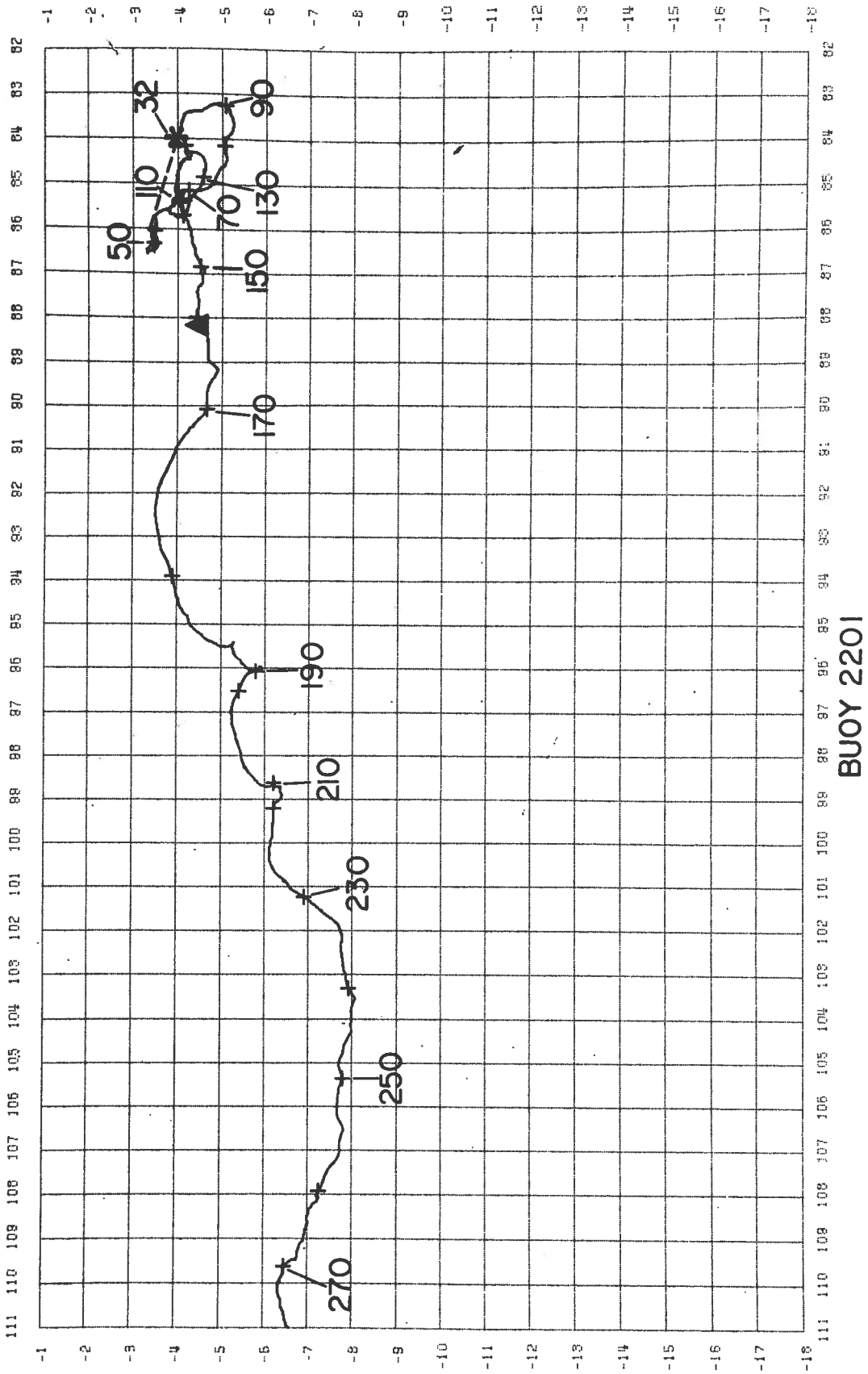
172	21 JUN 79	229	17 AUG 79	286	13 OCT 79
173	22 JUN 79	230	18 AUG 79	287	14 OCT 79
174	23 JUN 79	231	19 AUG 79	288	15 OCT 79
175	24 JUN 79	232	20 AUG 79	289	16 OCT 79
176	25 JUN 79	233	21 AUG 79	290	17 OCT 79
177	26 JUN 79	234	22 AUG 79	291	18 OCT 79
178	27 JUN 79	235	23 AUG 79	292	19 OCT 79
179	28 JUN 79	236	24 AUG 79	293	20 OCT 79
180	29 JUN 79	237	25 AUG 79	294	21 OCT 79
181	30 JUN 79	238	26 AUG 79	295	22 OCT 79
182	1 JUL 79	239	27 AUG 79	296	23 OCT 79
183	2 JUL 79	240	28 AUG 79	297	24 OCT 79
184	3 JUL 79	241	29 AUG 79	298	25 OCT 79
185	4 JUL 79	242	30 AUG 79	299	26 OCT 79
186	5 JUL 79	243	31 AUG 79	300	27 OCT 79
187	6 JUL 79	244	1 SEP 79	301	28 OCT 79
188	7 JUL 79	245	2 SEP 79	302	29 OCT 79
189	8 JUL 79	246	3 SEP 79	303	30 OCT 79
190	9 JUL 79	247	4 SEP 79	304	31 OCT 79
191	10 JUL 79	248	5 SEP 79	305	1 NOV 79
192	11 JUL 79	249	6 SEP 79	306	2 NOV 79
193	12 JUL 79	250	7 SEP 79	307	3 NOV 79
194	13 JUL 79	251	8 SEP 79	308	4 NOV 79
195	14 JUL 79	252	9 SEP 79	309	5 NOV 79
196	15 JUL 79	253	10 SEP 79	310	6 NOV 79
197	16 JUL 79	254	11 SEP 79	311	7 NOV 79
198	17 JUL 79	255	12 SEP 79	312	8 NOV 79
199	18 JUL 79	256	13 SEP 79	313	9 NOV 79
200	19 JUL 79	257	14 SEP 79	314	10 NOV 79
201	20 JUL 79	258	15 SEP 79	315	11 NOV 79
202	21 JUL 79	259	16 SEP 79	316	12 NOV 79
203	22 JUL 79	260	17 SEP 79	317	13 NOV 79
204	23 JUL 79	261	18 SEP 79	318	14 NOV 79
205	24 JUL 79	262	19 SEP 79	319	15 NOV 79
206	25 JUL 79	263	20 SEP 79	320	16 NOV 79
207	26 JUL 79	264	21 SEP 79	321	17 NOV 79
208	27 JUL 79	265	22 SEP 79	322	18 NOV 79
209	28 JUL 79	266	23 SEP 79	323	19 NOV 79
210	29 JUL 79	267	24 SEP 79	324	20 NOV 79
211	30 JUL 79	268	25 SEP 79	325	21 NOV 79
212	31 JUL 79	269	26 SEP 79	326	22 NOV 79
213	1 AUG 79	270	27 SEP 79	327	23 NOV 79
214	2 AUG 79	271	28 SEP 79	328	24 NOV 79
215	3 AUG 79	272	29 SEP 79	329	25 NOV 79
216	4 AUG 79	273	30 SEP 79	330	26 NOV 79
217	5 AUG 79	274	1 OCT 79	331	27 NOV 79
218	6 AUG 79	275	2 OCT 79	332	28 NOV 79
219	7 AUG 79	276	3 OCT 79	333	29 NOV 79
220	8 AUG 79	277	4 OCT 79	334	30 NOV 79
221	9 AUG 79	278	5 OCT 79	335	1 DEC 79
222	10 AUG 79	279	6 OCT 79	336	2 DEC 79
223	11 AUG 79	280	7 OCT 79	337	3 DEC 79
224	12 AUG 79	281	8 OCT 79	338	4 DEC 79
225	13 AUG 79	282	9 OCT 79	339	5 DEC 79
226	14 AUG 79	283	10 OCT 79	340	6 DEC 79
227	15 AUG 79	284	11 OCT 79	341	7 DEC 79
228	16 AUG 79	285	12 OCT 79	342	8 DEC 79

Table 2 (Continued)

343	9 DEC 79	400	4 FEB 80	457	1 APR 80
344	10 DEC 79	401	5 FEB 80	458	2 APR 80
345	11 DEC 79	402	6 FEB 80	459	3 APR 80
346	12 DEC 79	403	7 FEB 80	460	4 APR 80
347	13 DEC 79	404	8 FEB 80	461	5 APR 80
348	14 DEC 79	405	9 FEB 80	462	6 APR 80
349	15 DEC 79	406	10 FEB 80	463	7 APR 80
350	16 DEC 79	407	11 FEB 80	464	8 APR 80
351	17 DEC 79	408	12 FEB 80	465	9 APR 80
352	18 DEC 79	409	13 FEB 80	466	10 APR 80
353	19 DEC 79	410	14 FEB 80	467	11 APR 80
354	20 DEC 79	411	15 FEB 80	468	12 APR 80
355	21 DEC 79	412	16 FEB 80	469	13 APR 80
356	22 DEC 79	413	17 FEB 80	470	14 APR 80
357	23 DEC 79	414	18 FEB 80	471	15 APR 80
358	24 DEC 79	415	19 FEB 80	472	16 APR 80
359	25 DEC 79	416	20 FEB 80	473	17 APR 80
360	26 DEC 79	417	21 FEB 80	474	18 APR 80
361	27 DEC 79	418	22 FEB 80	475	19 APR 80
362	28 DEC 79	419	23 FEB 80	476	20 APR 80
363	29 DEC 79	420	24 FEB 80	477	21 APR 80
364	30 DEC 79	421	25 FEB 80	478	22 APR 80
365	31 DEC 79	422	26 FEB 80	479	23 APR 80
366	1 JAN 80	423	27 FEB 80	480	24 APR 80
367	2 JAN 80	424	28 FEB 80	481	25 APR 80
368	3 JAN 80	425	29 FEB 80	482	26 APR 80
369	4 JAN 80	426	1 MAR 80	483	27 APR 80
370	5 JAN 80	427	2 MAR 80	484	28 APR 80
371	6 JAN 80	428	3 MAR 80	485	29 APR 80
372	7 JAN 80	429	4 MAR 80	486	30 APR 80
373	8 JAN 80	430	5 MAR 80	487	1 MAY 80
374	9 JAN 80	431	6 MAR 80	488	2 MAY 80
375	10 JAN 80	432	7 MAR 80	489	3 MAY 80
376	11 JAN 80	433	8 MAR 80	490	4 MAY 80
377	12 JAN 80	434	9 MAR 80	491	5 MAY 80
378	13 JAN 80	435	10 MAR 80	492	6 MAY 80
379	14 JAN 80	436	11 MAR 80	493	7 MAY 80
380	15 JAN 80	437	12 MAR 80	494	8 MAY 80
381	16 JAN 80	438	13 MAR 80	495	9 MAY 80
382	17 JAN 80	439	14 MAR 80	496	10 MAY 80
383	18 JAN 80	440	15 MAR 80	497	11 MAY 80
384	19 JAN 80	441	16 MAR 80	498	12 MAY 80
385	20 JAN 80	442	17 MAR 80	499	13 MAY 80
386	21 JAN 80	443	18 MAR 80	500	14 MAY 80
387	22 JAN 80	444	19 MAR 80	501	15 MAY 80
388	23 JAN 80	445	20 MAR 80	502	16 MAY 80
389	24 JAN 80	446	21 MAR 80	503	17 MAY 80
390	25 JAN 80	447	22 MAR 80	504	18 MAY 80
391	26 JAN 80	448	23 MAR 80	505	19 MAY 80
392	27 JAN 80	449	24 MAR 80	506	20 MAY 80
393	28 JAN 80	450	25 MAR 80	507	21 MAY 80
394	29 JAN 80	451	26 MAR 80	508	22 MAY 80
395	30 JAN 80	452	27 MAR 80	509	23 MAY 80
396	31 JAN 80	453	28 MAR 80	510	24 MAY 80
397	1 FEB 80	454	29 MAR 80	511	25 MAY 80
398	2 FEB 80	455	30 MAR 80	512	26 MAY 80
399	3 FEB 80	456	31 MAR 80	513	27 MAY 80

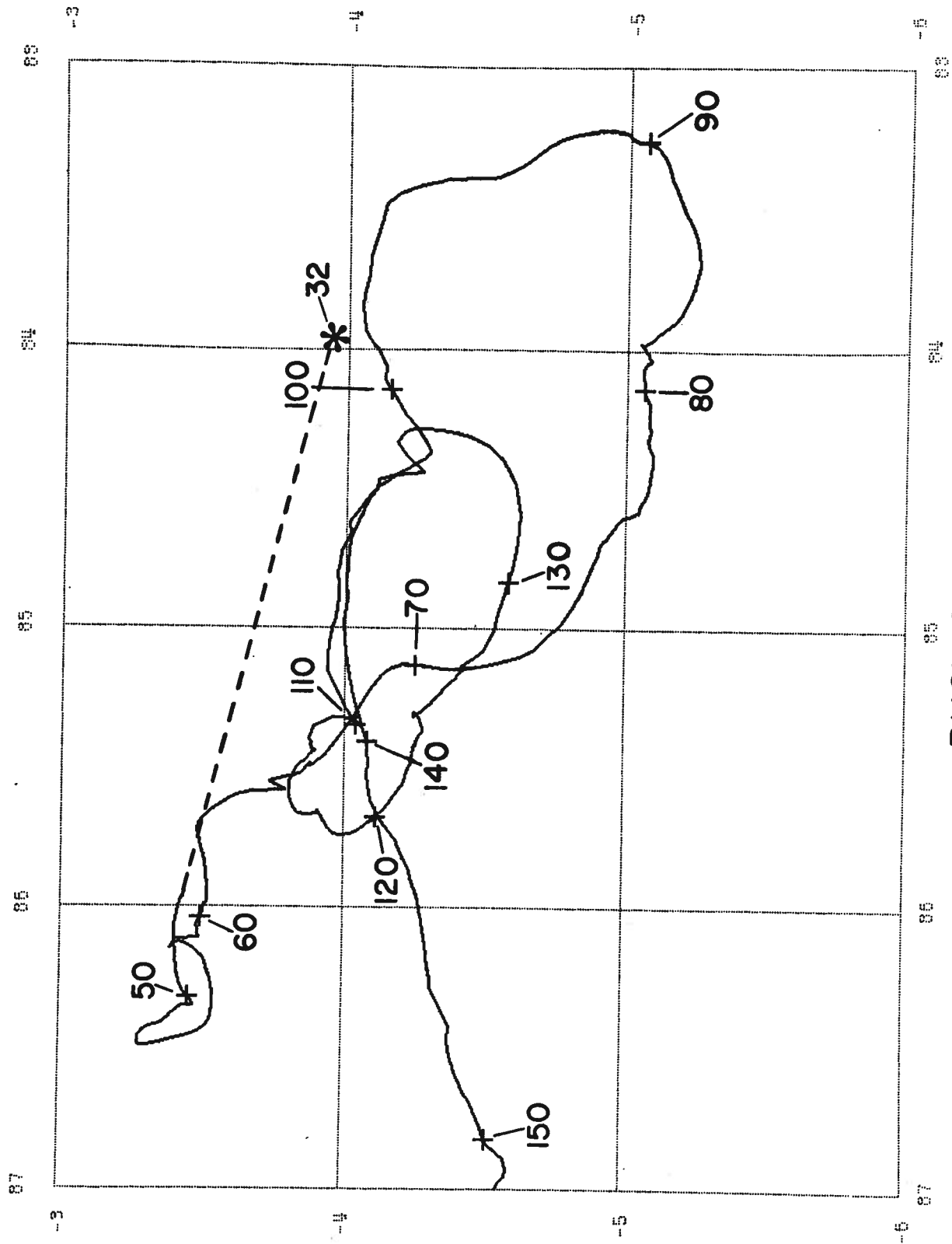
Table 2 (Continued)

514	28	MAY	80	571	24	JUL	80	628	19	SEP	80
515	29	MAY	80	572	25	JUL	80	629	20	SEP	80
516	30	MAY	80	573	26	JUL	80	630	21	SEP	80
517	31	MAY	80	574	27	JUL	80	631	22	SEP	80
518	1	JUN	80	575	28	JUL	80	632	23	SEP	80
519	2	JUN	80	576	29	JUL	80	633	24	SEP	80
520	3	JUN	80	577	30	JUL	80	634	25	SEP	80
521	4	JUN	80	578	31	JUL	80	635	26	SEP	80
522	5	JUN	80	579	1	AUG	80	636	27	SEP	80
523	6	JUN	80	580	2	AUG	80	637	28	SEP	80
524	7	JUN	80	581	3	AUG	80	638	29	SEP	80
525	8	JUN	80	582	4	AUG	80	639	30	SEP	80
526	9	JUN	80	583	5	AUG	80	640	1	OCT	80
527	10	JUN	80	584	6	AUG	80	641	2	OCT	80
528	11	JUN	80	585	7	AUG	80	642	3	OCT	80
529	12	JUN	80	586	8	AUG	80	643	4	OCT	80
530	13	JUN	80	587	9	AUG	80	644	5	OCT	80
531	14	JUN	80	588	10	AUG	80	645	6	OCT	80
532	15	JUN	80	589	11	AUG	80	646	7	OCT	80
533	16	JUN	80	590	12	AUG	80	647	8	OCT	80
534	17	JUN	80	591	13	AUG	80	648	9	OCT	80
535	18	JUN	80	592	14	AUG	80	649	10	OCT	80
536	19	JUN	80	593	15	AUG	80	650	11	OCT	80
537	20	JUN	80	594	16	AUG	80	651	12	OCT	80
538	21	JUN	80	595	17	AUG	80	652	13	OCT	80
539	22	JUN	80	596	18	AUG	80	653	14	OCT	80
540	23	JUN	80	597	19	AUG	80	654	15	OCT	80
541	24	JUN	80	598	20	AUG	80	655	16	OCT	80
542	25	JUN	80	599	21	AUG	80	656	17	OCT	80
543	26	JUN	80	600	22	AUG	80	657	18	OCT	80
544	27	JUN	80	601	23	AUG	80	658	19	OCT	80
545	28	JUN	80	602	24	AUG	80	659	20	OCT	80
546	29	JUN	80	603	25	AUG	80	660	21	OCT	80
547	30	JUN	80	604	26	AUG	80	661	22	OCT	80
548	1	JUL	80	605	27	AUG	80	662	23	OCT	80
549	2	JUL	80	606	28	AUG	80	663	24	OCT	80
550	3	JUL	80	607	29	AUG	80	664	25	OCT	80
551	4	JUL	80	608	30	AUG	80	665	26	OCT	80
552	5	JUL	80	609	31	AUG	80	666	27	OCT	80
553	6	JUL	80	610	1	SEP	80	667	28	OCT	80
554	7	JUL	80	611	2	SEP	80	668	29	OCT	80
555	8	JUL	80	612	3	SEP	80	669	30	OCT	80
556	9	JUL	80	613	4	SEP	80	670	31	OCT	80
557	10	JUL	80	614	5	SEP	80				
558	11	JUL	80	615	6	SEP	80				
559	12	JUL	80	616	7	SEP	80				
560	13	JUL	80	617	8	SEP	80				
561	14	JUL	80	618	9	SEP	80				
562	15	JUL	80	619	10	SEP	80				
563	16	JUL	80	620	11	SEP	80				
564	17	JUL	80	621	12	SEP	80				
565	18	JUL	80	622	13	SEP	80				
566	19	JUL	80	623	14	SEP	80				
567	20	JUL	80	624	15	SEP	80				
568	21	JUL	80	625	16	SEP	80				
569	22	JUL	80	626	17	SEP	80				
570	23	JUL	80	627	18	SEP	80				



BUOY 2201

Figure 3. Trajectory of drifting buoy 2201.



BUOY 2201

Figure 4. Trajectory detail for drifting buoy 2201.

BUOY 2201

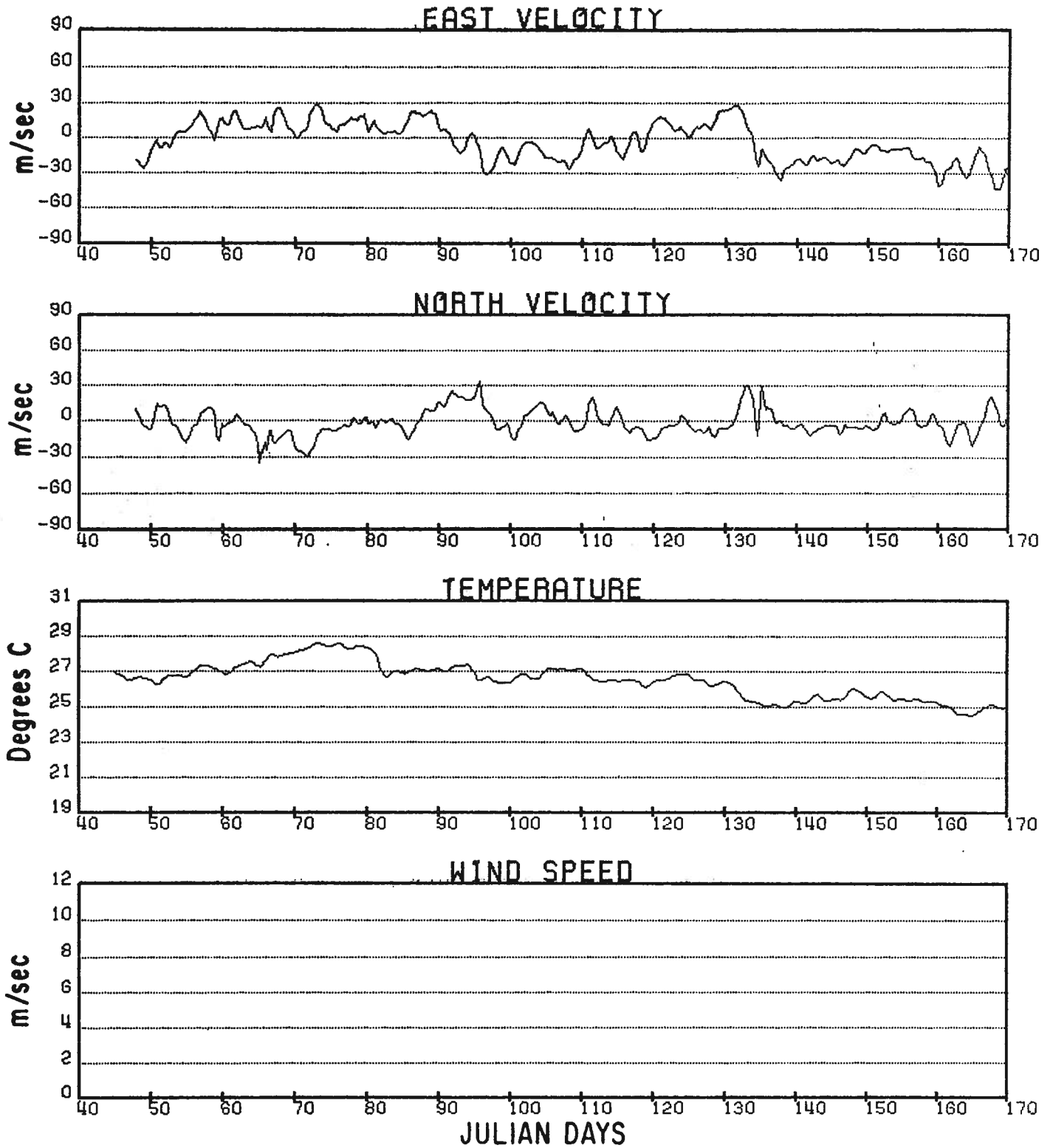


Figure 5. Time series of velocity and sensor data for drifting buoy 2201.

BUOY 2201

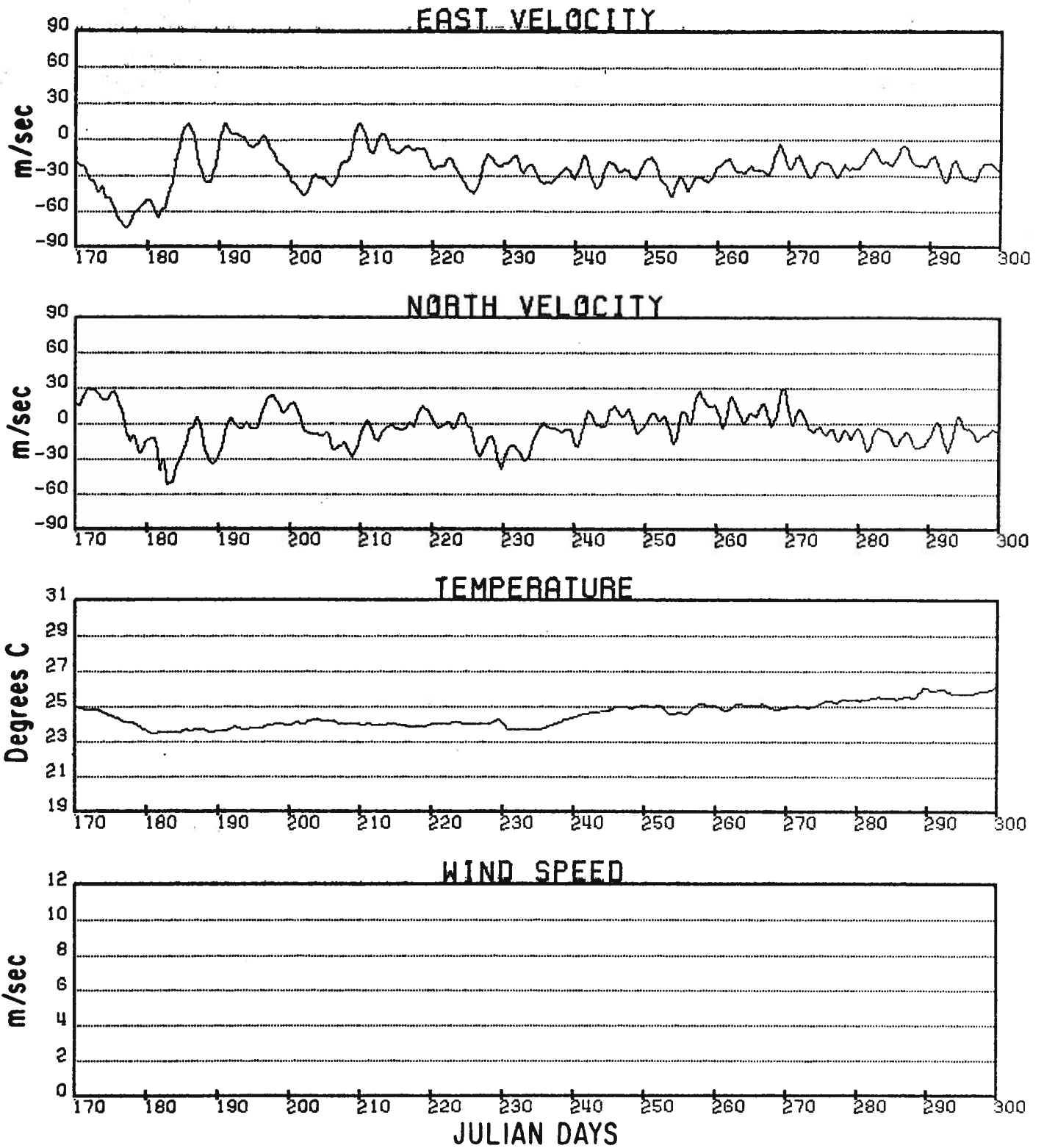


Figure 5. (Continued).

BUOY 2201

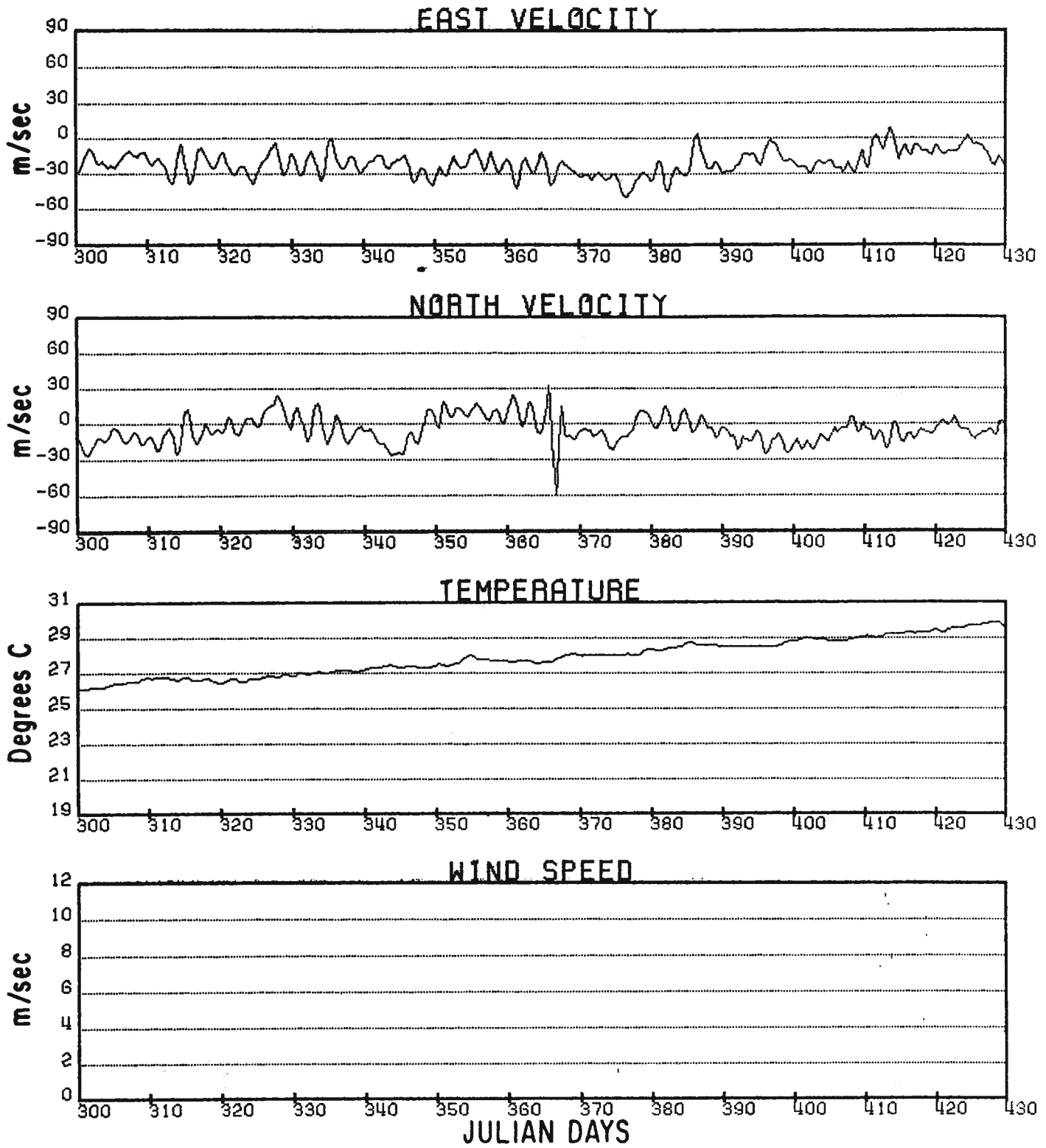


Figure 5. (Continued).

BUOY 2201

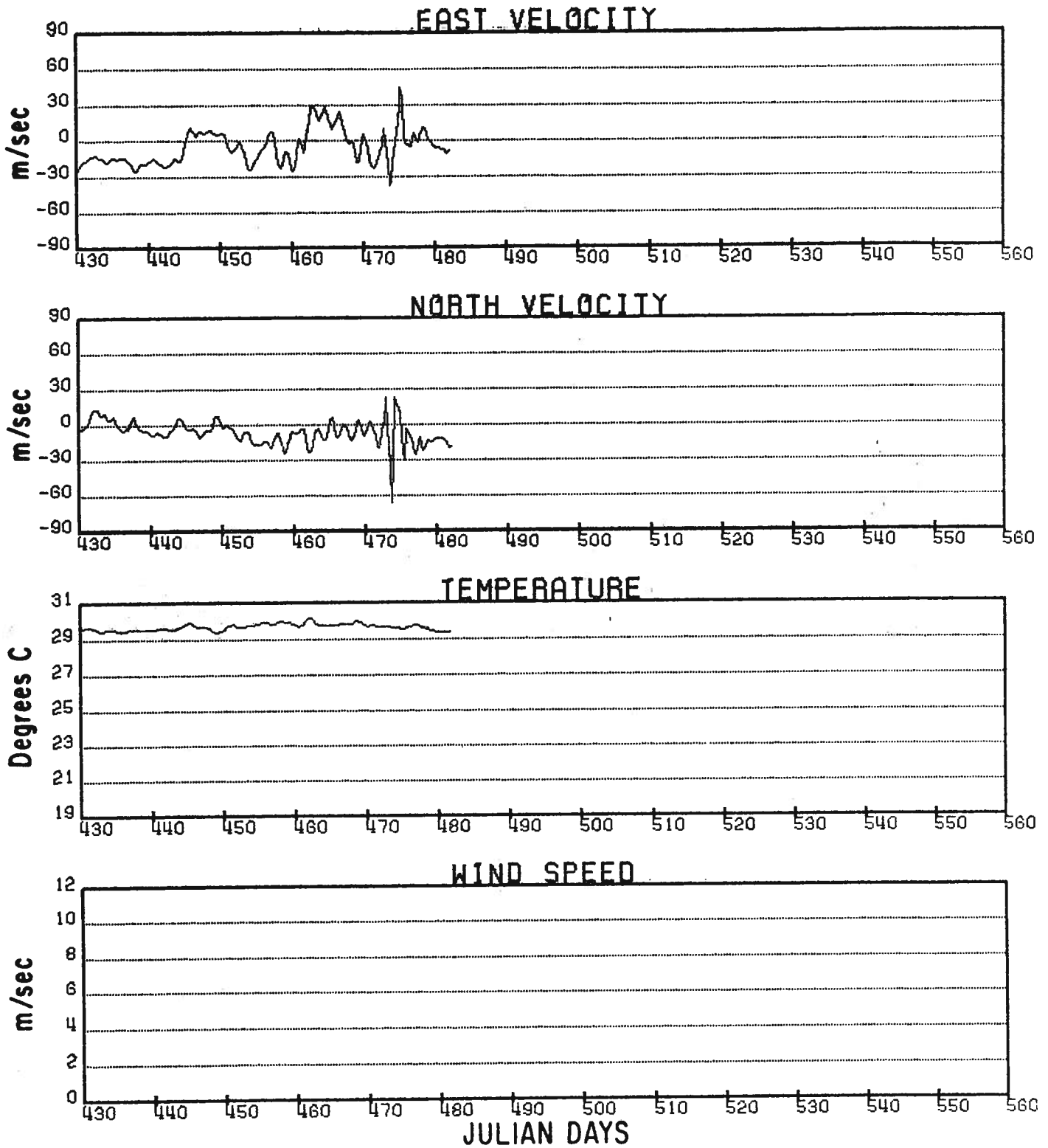


Figure 5. (Continued).

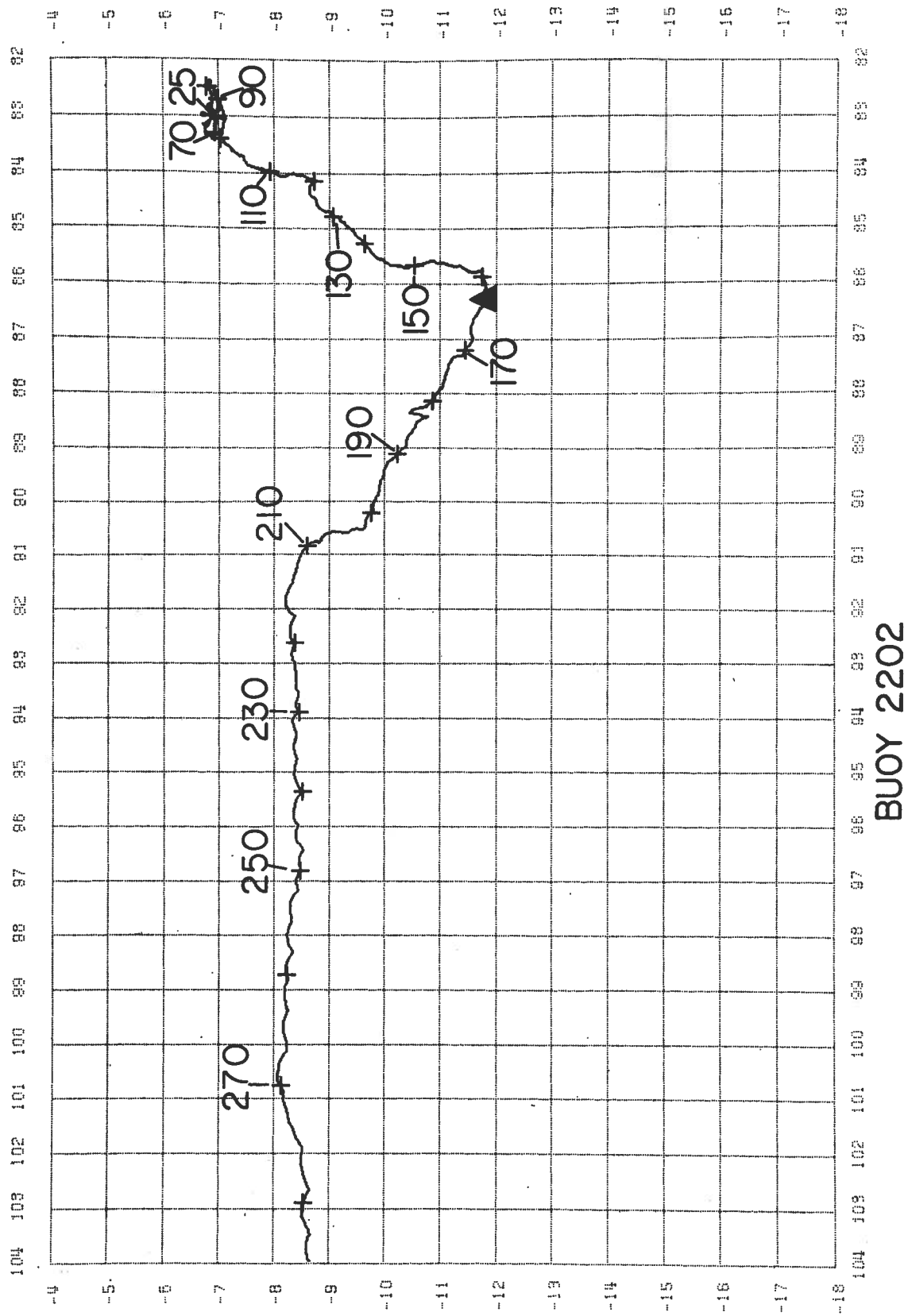
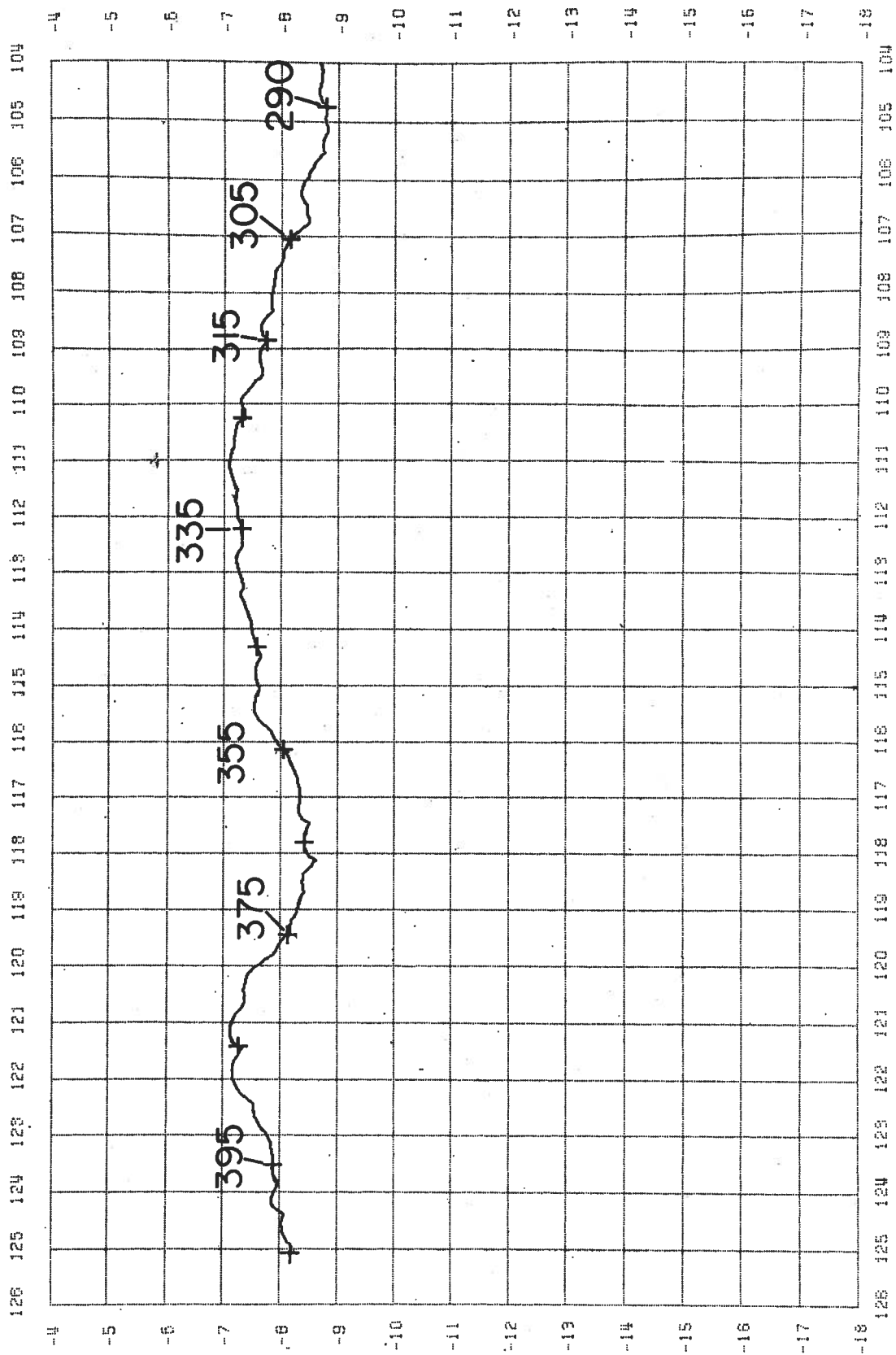


Figure 6. Trajectory of drifting buoy 2202.



BUOY 2202 Continued

Figure 6. (Continued).

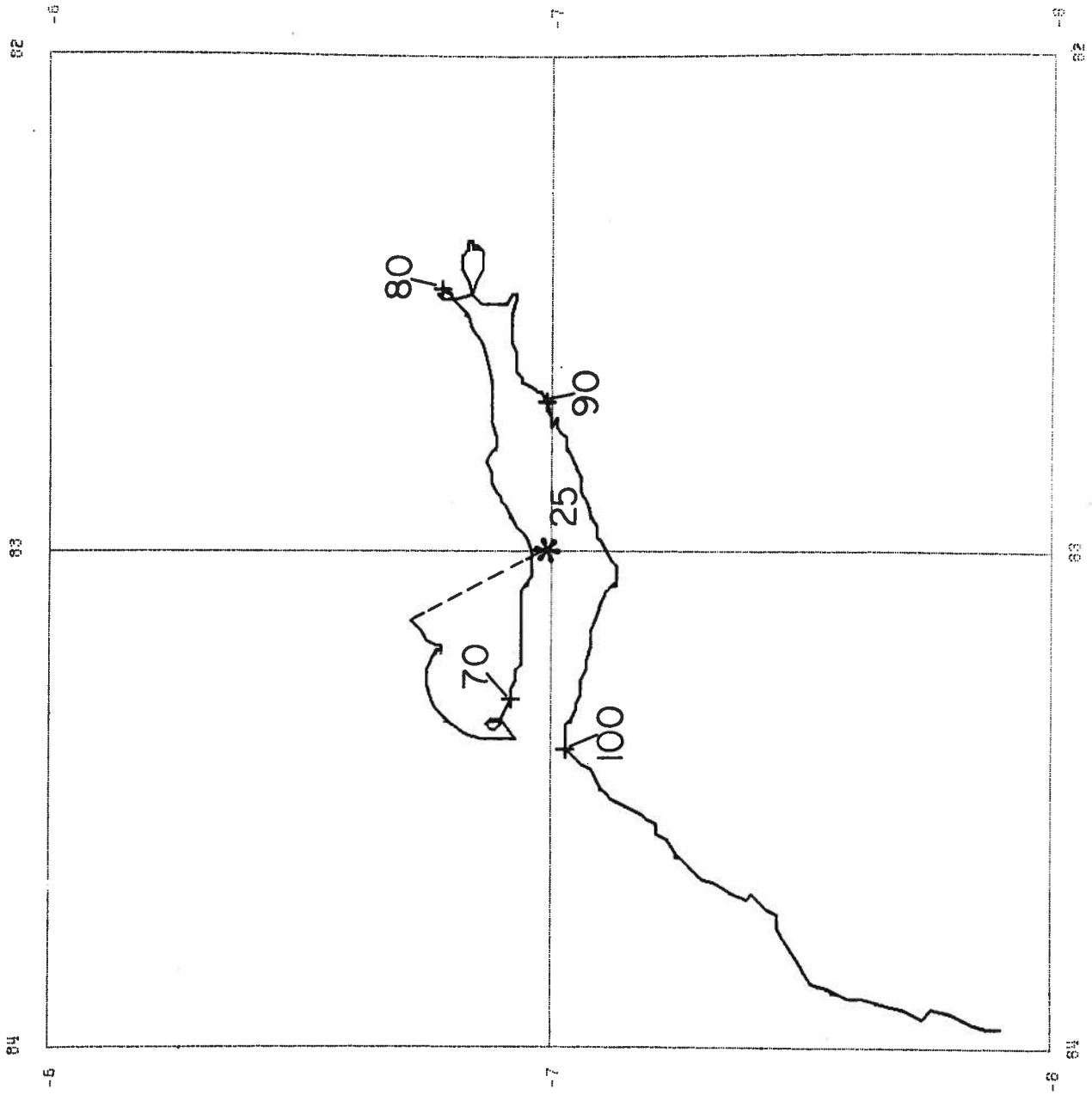


Figure 7. Trajectory detail for drifting buoy 2202.

BUOY 2202

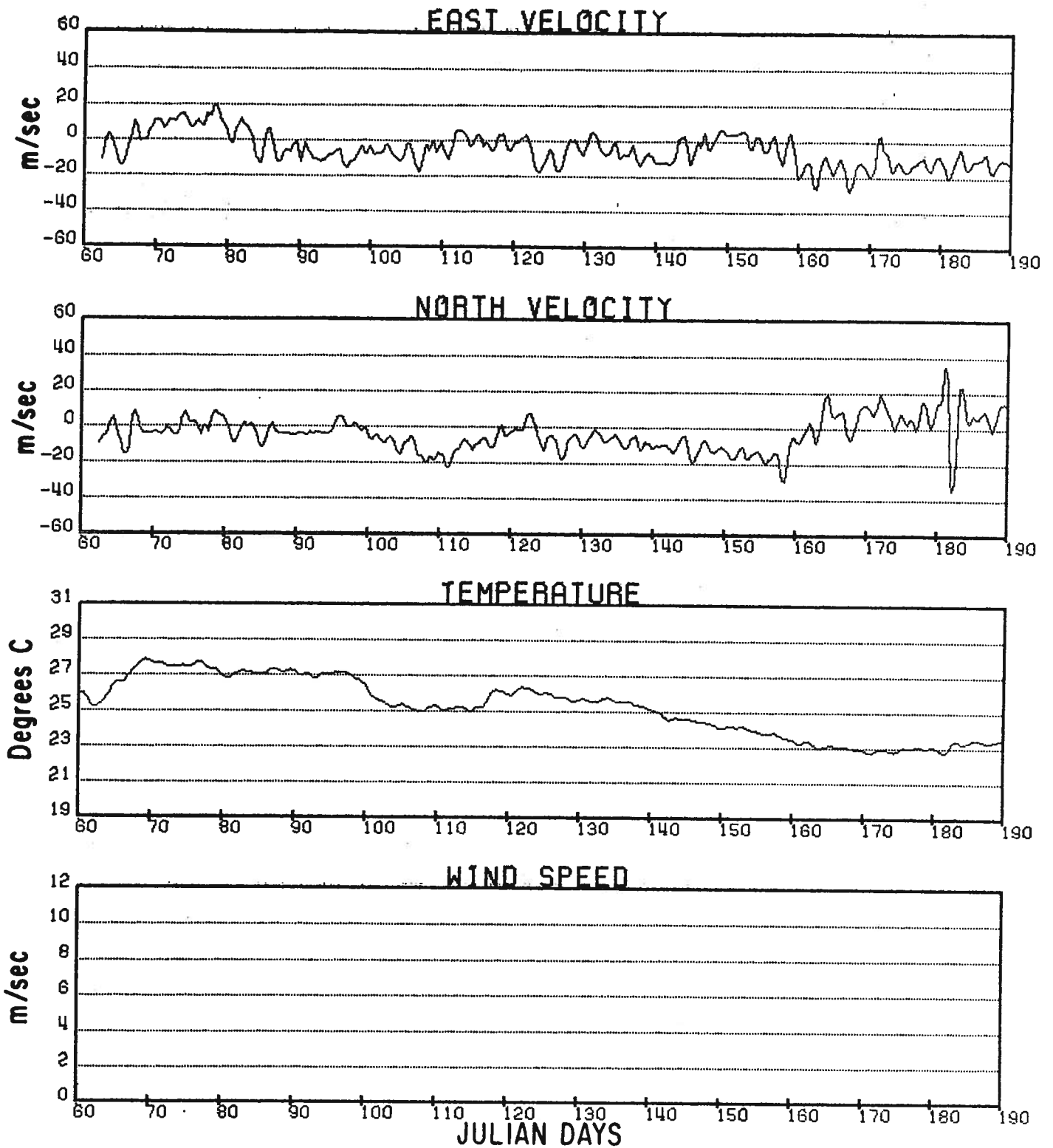
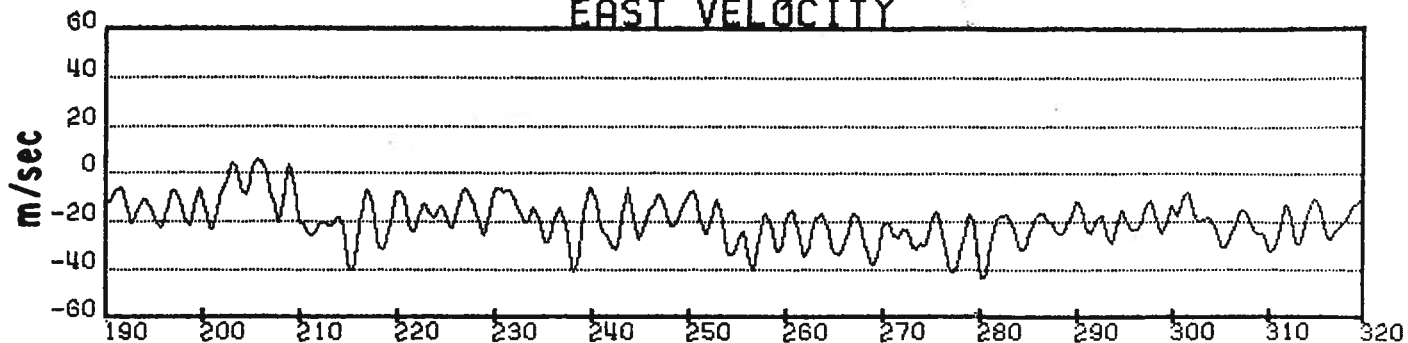


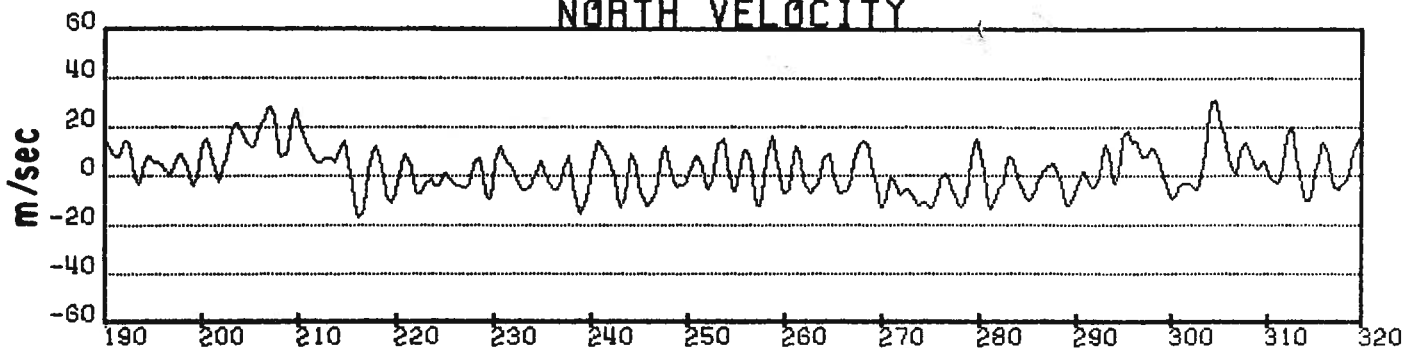
Figure 8. Time series of velocity and sensor data for drifting buoy 2202.

BUOY 2202

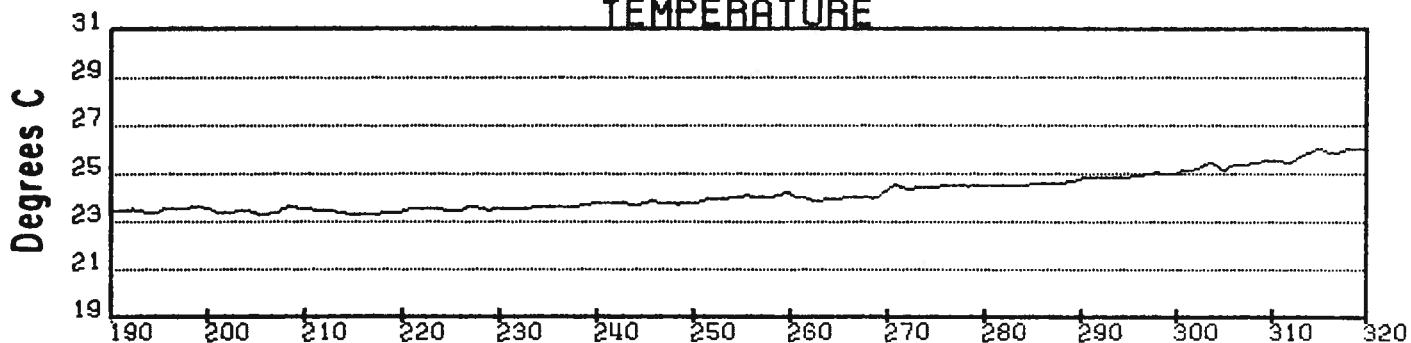
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

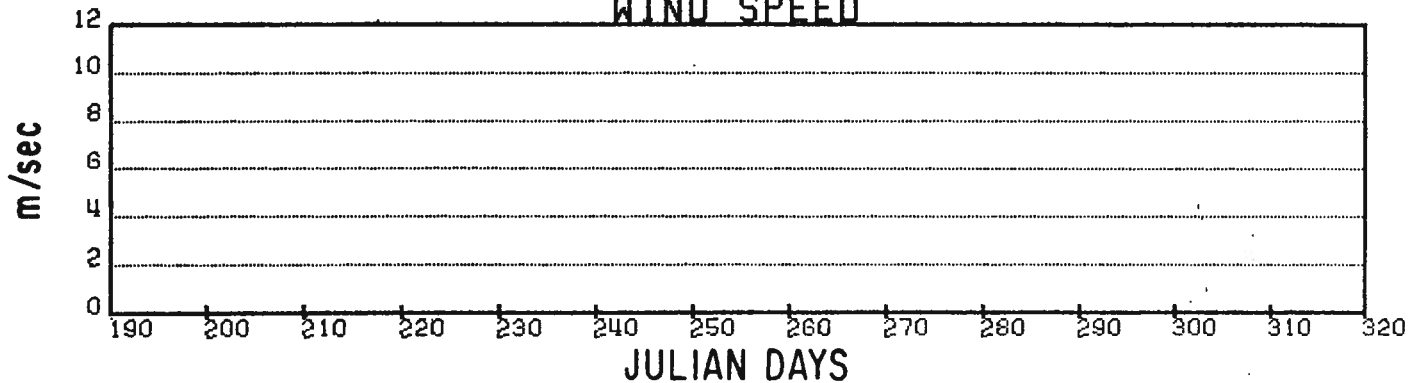


Figure 8. (Continued).

BUOY 2202

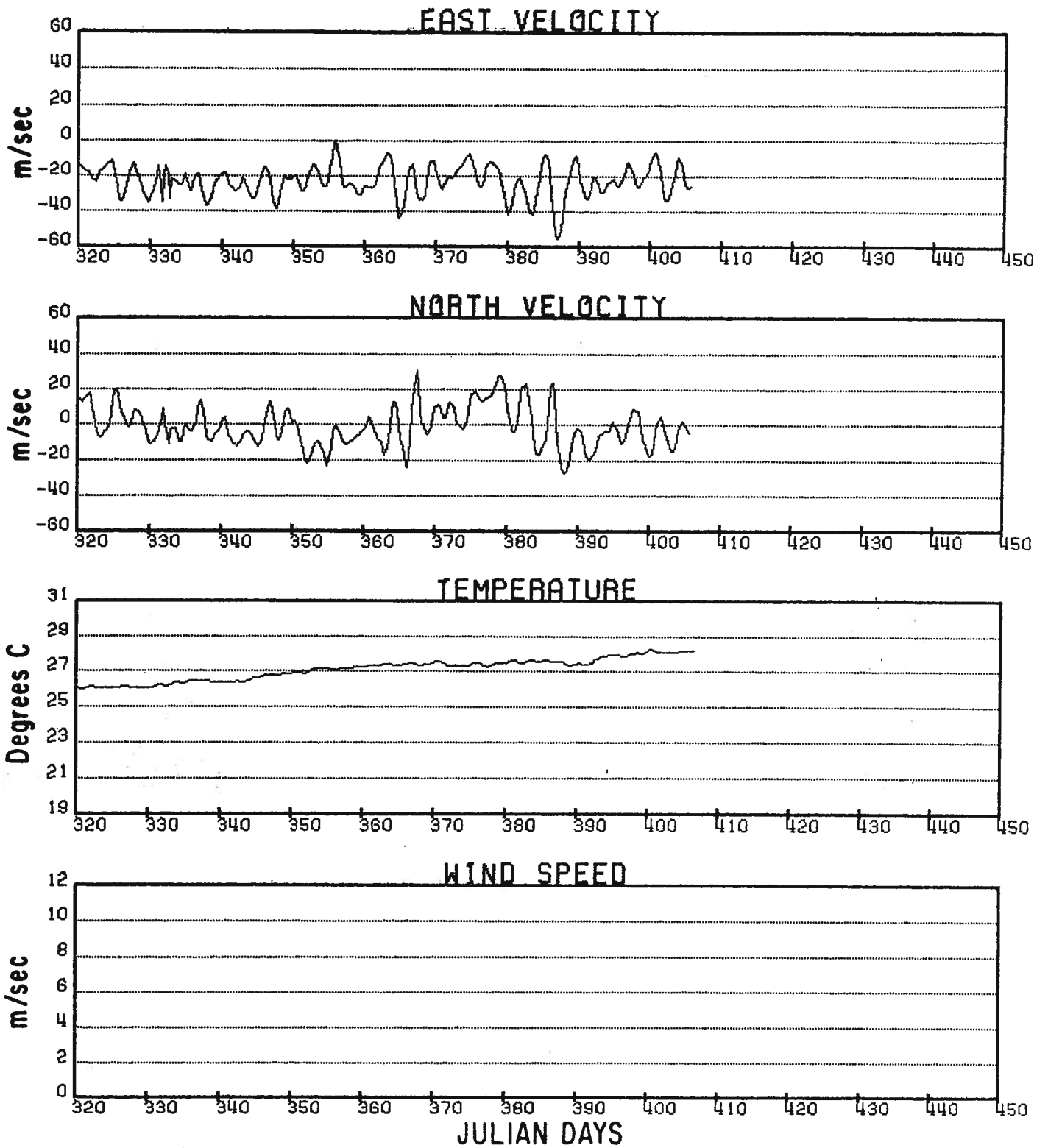
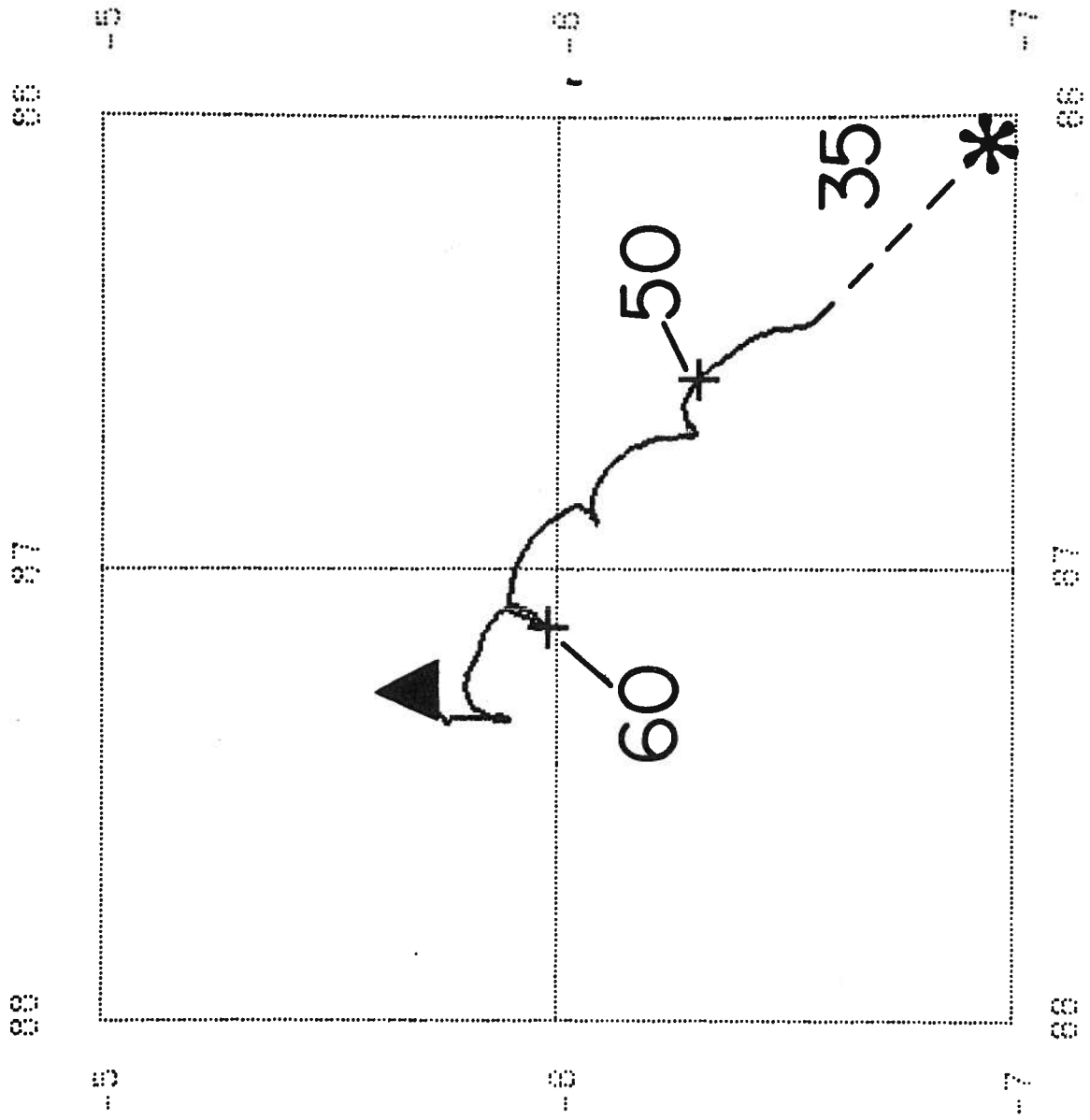


Figure 8. (Continued).

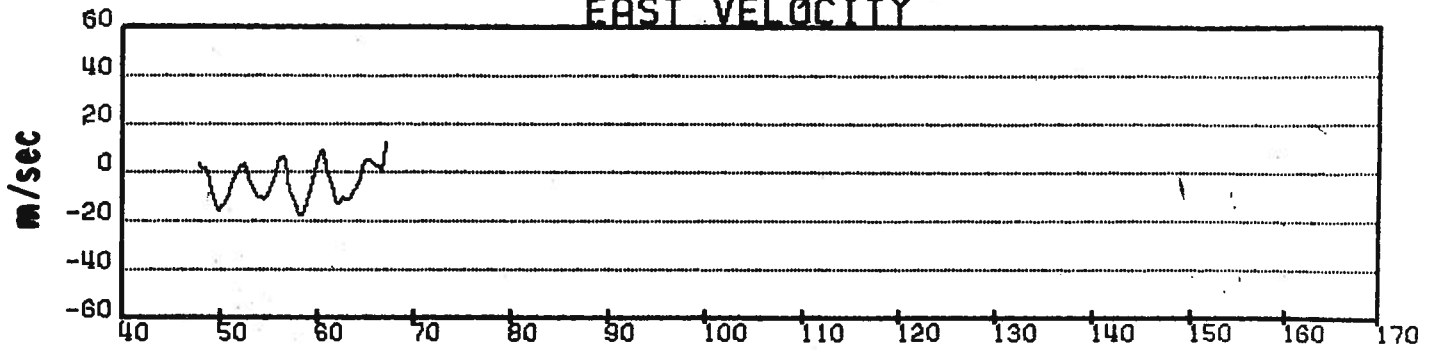


BUOY 2204

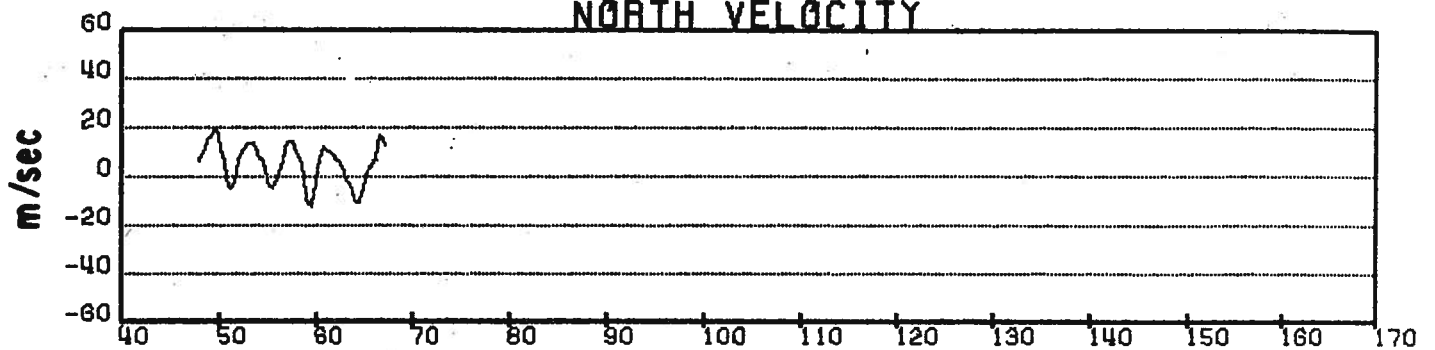
Figure 9. Trajectory for drifting buoy 2204.

BUOY 2204

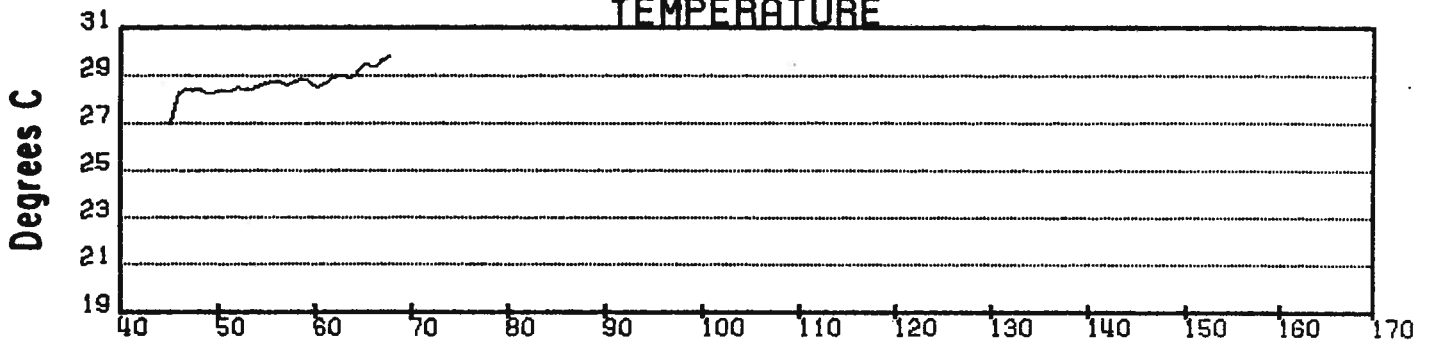
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

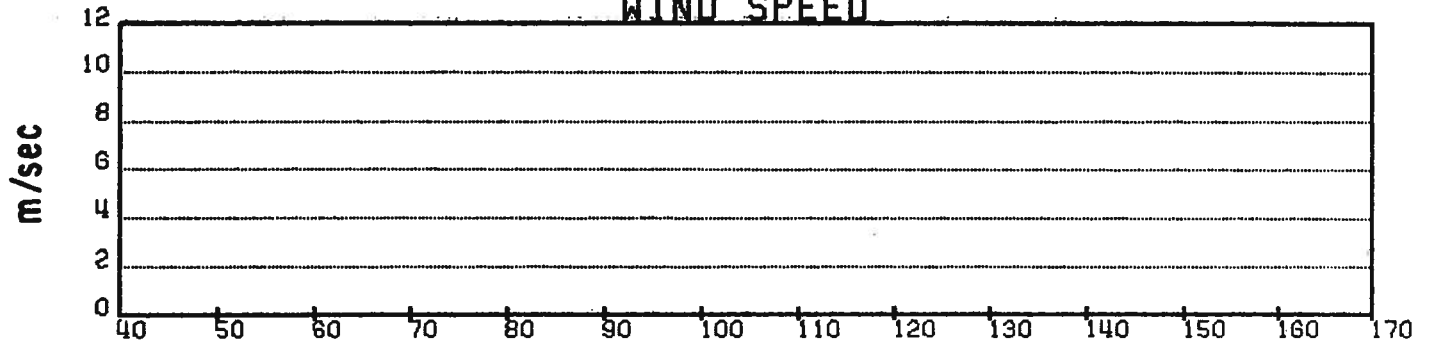


Figure 10. Time series of velocity and sensor data for drifting buoy 2204.

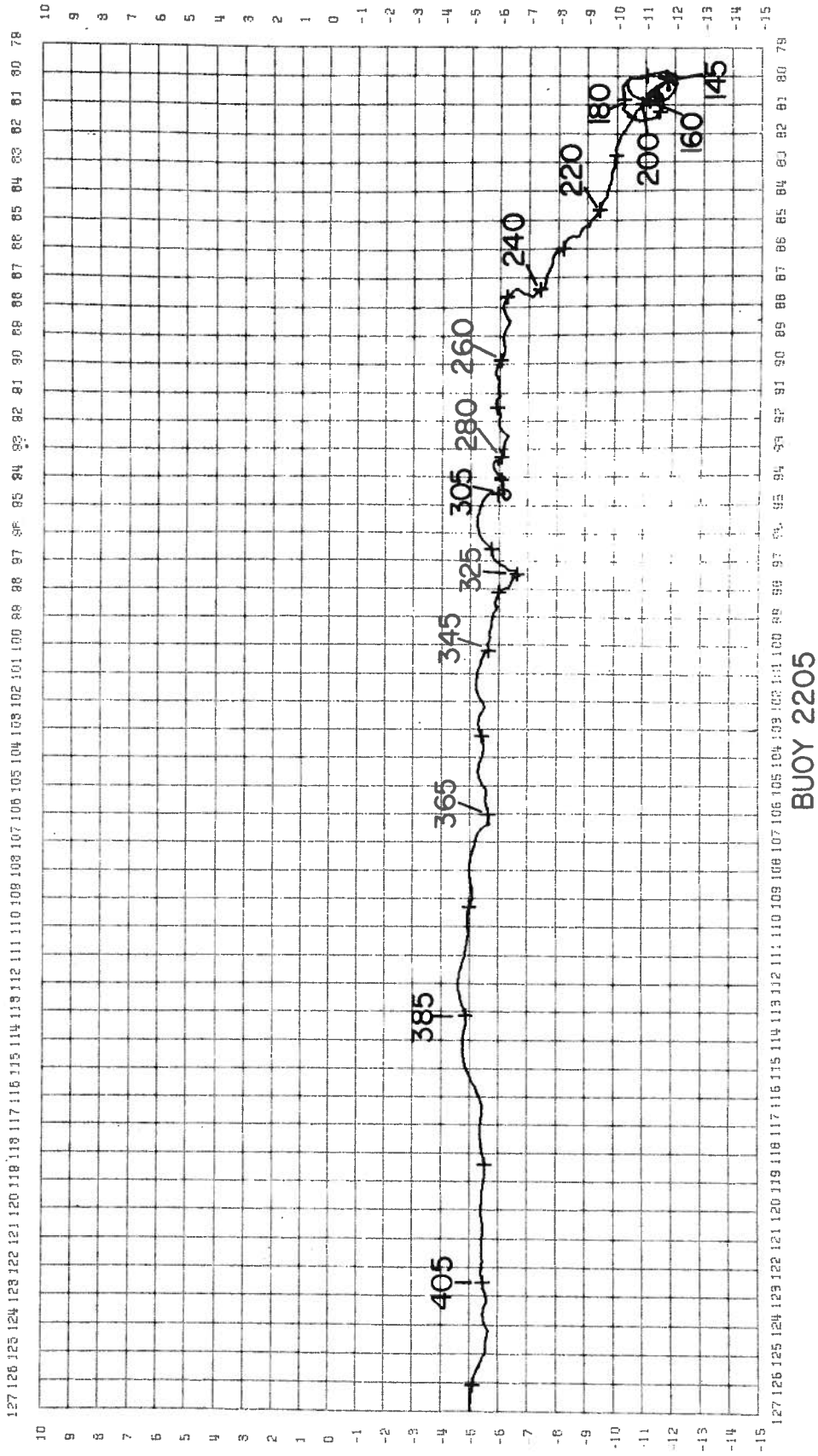


Figure 11. Trajectory of drifting buoy 2205.

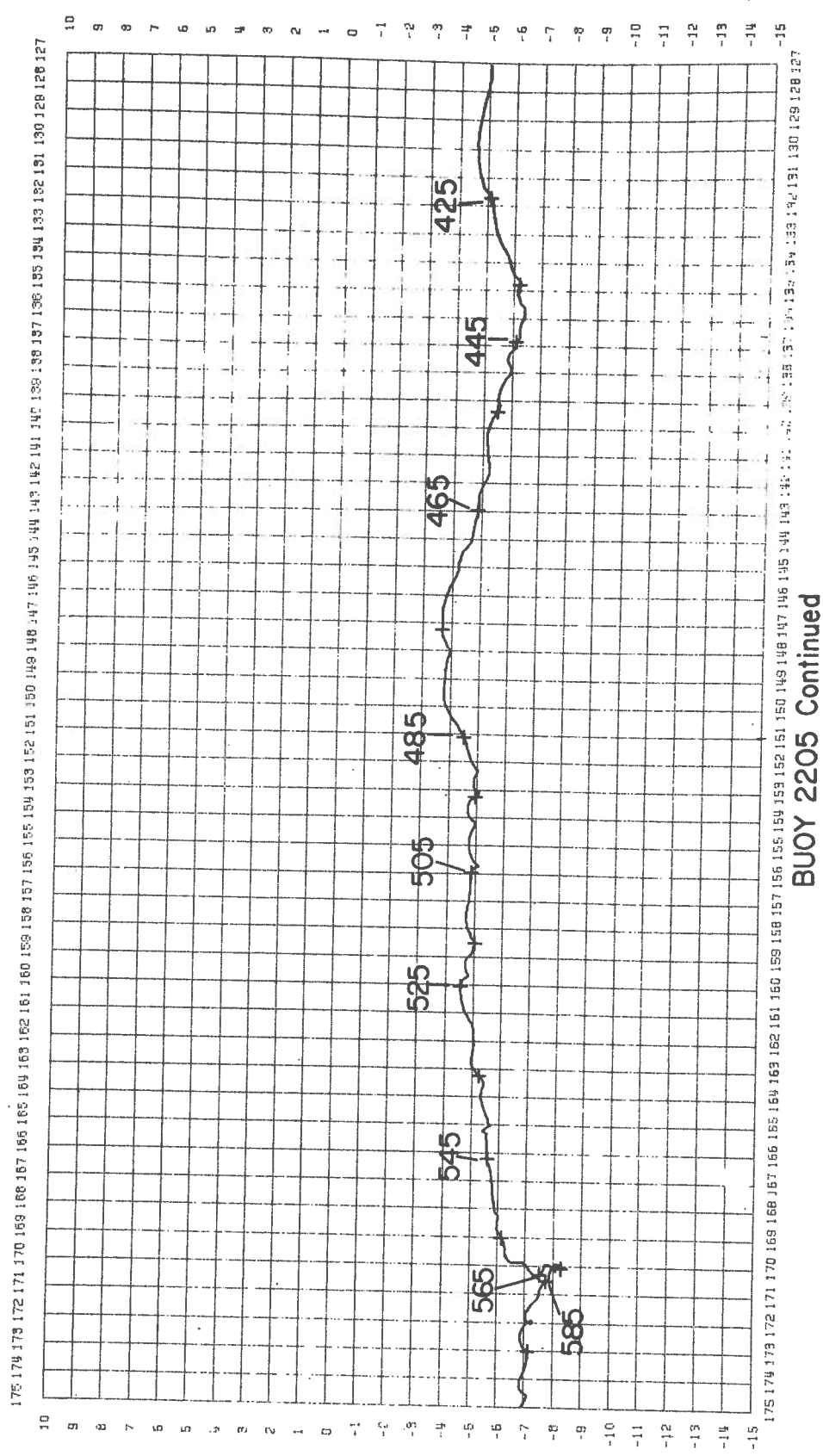
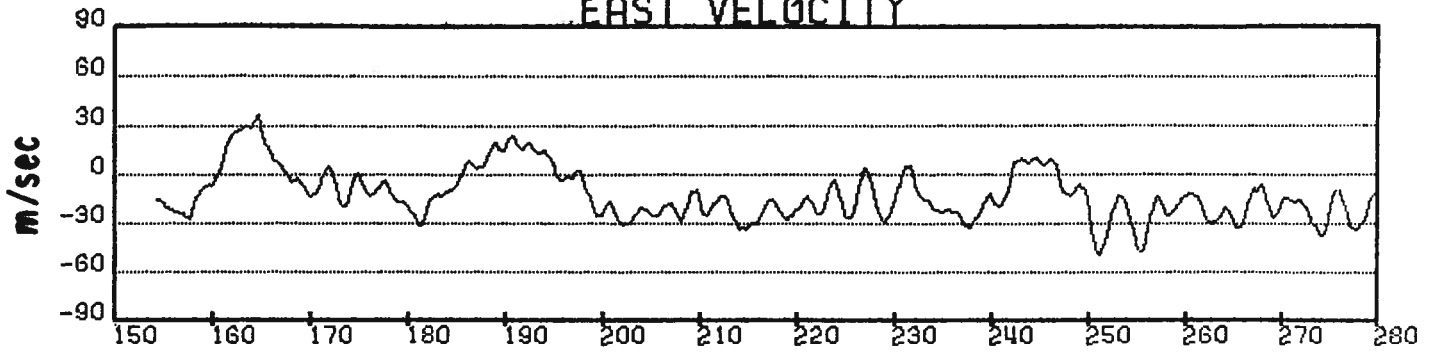


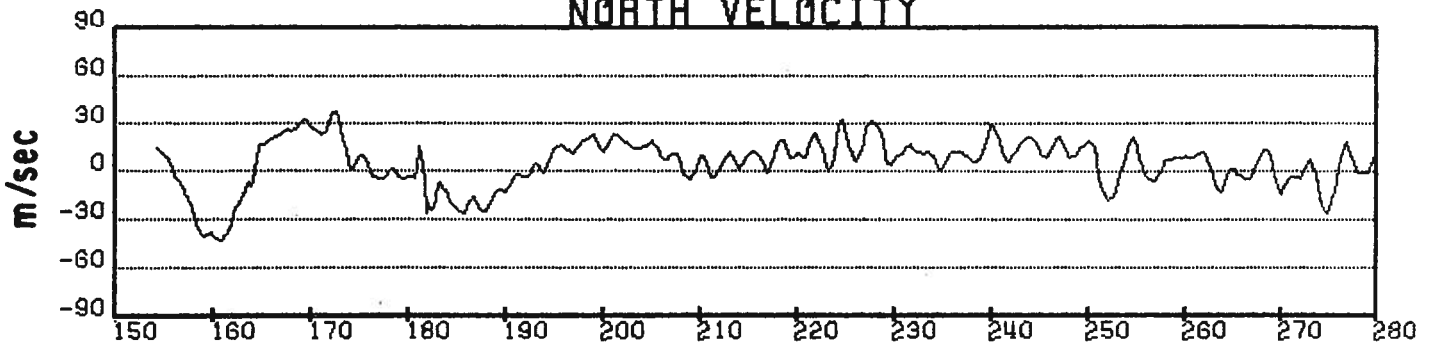
Figure 11. (Continued).

BUOY 2205

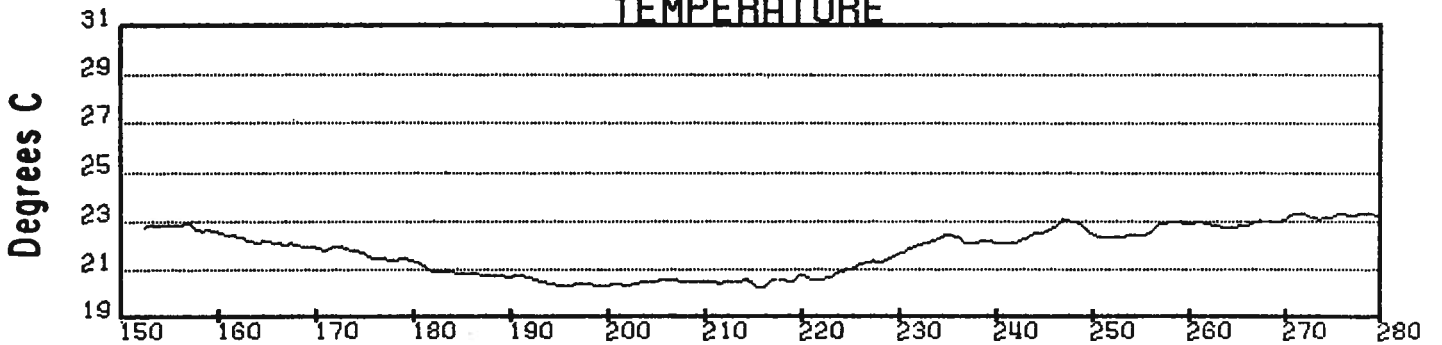
EAST VELOCITY



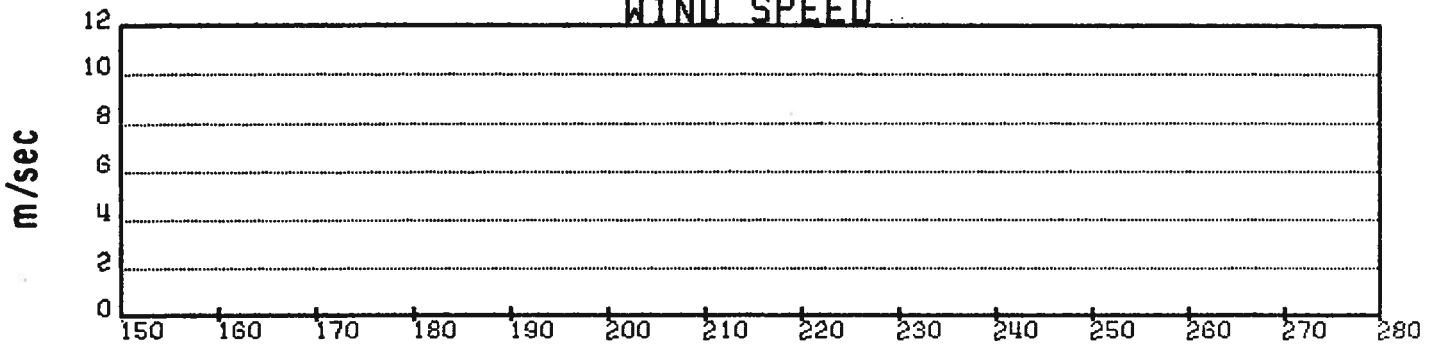
NORTH VELOCITY



TEMPERATURE



WIND SPEED

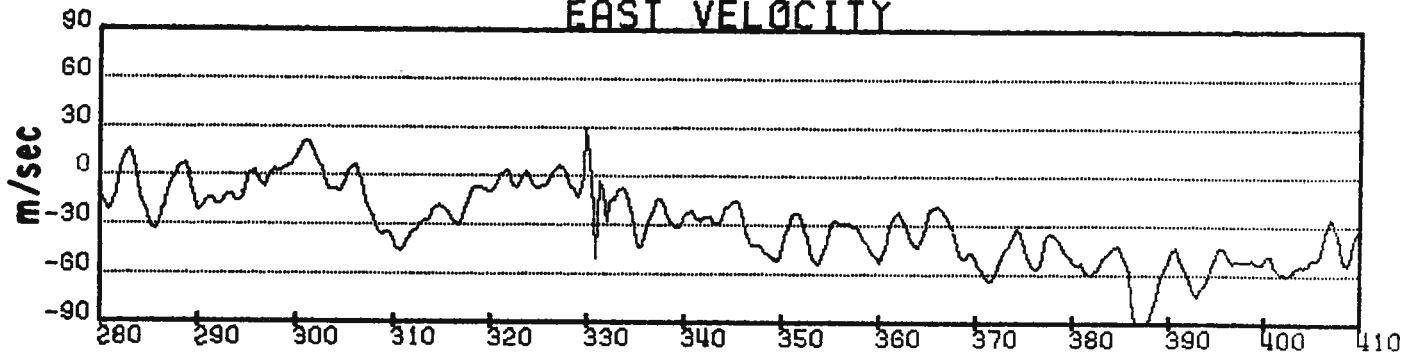


JULIAN DAYS

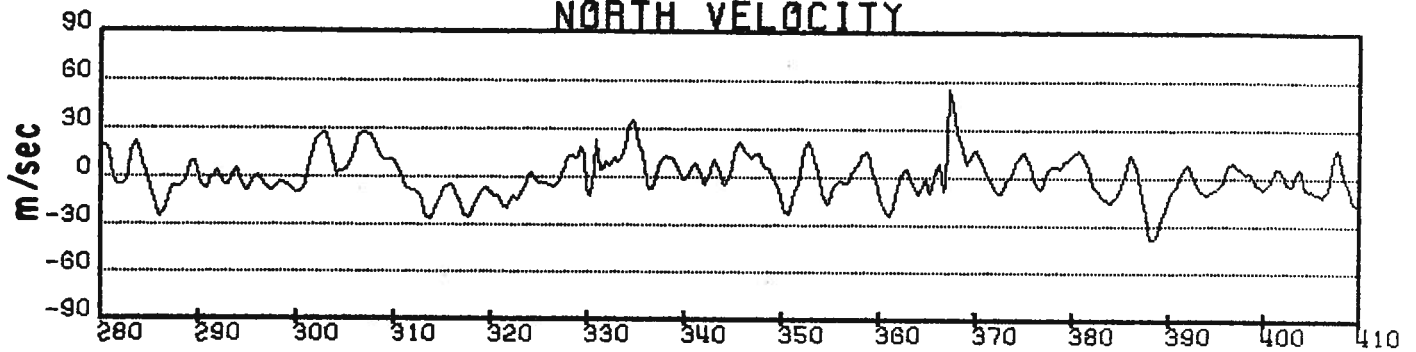
Figure 12. Time series of velocity and sensor data for drifting buoy 2205.

BUOY 2205

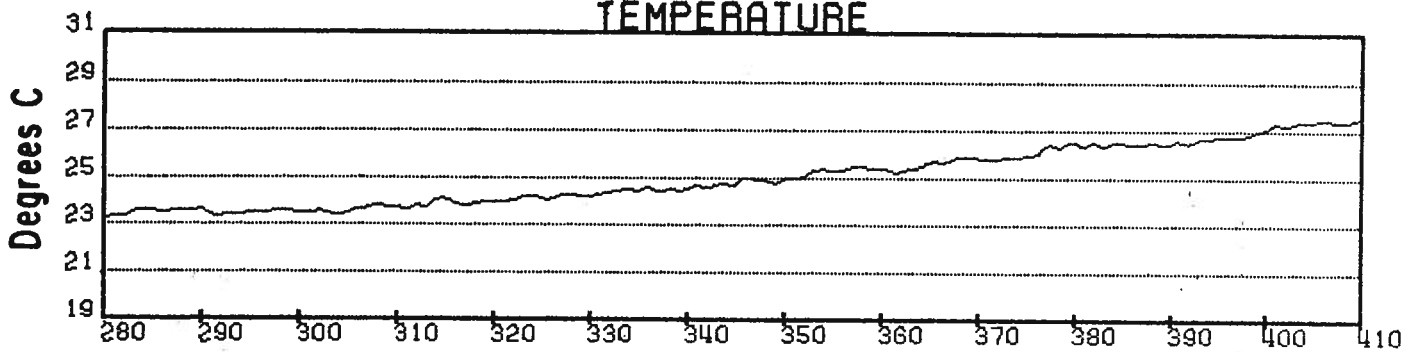
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

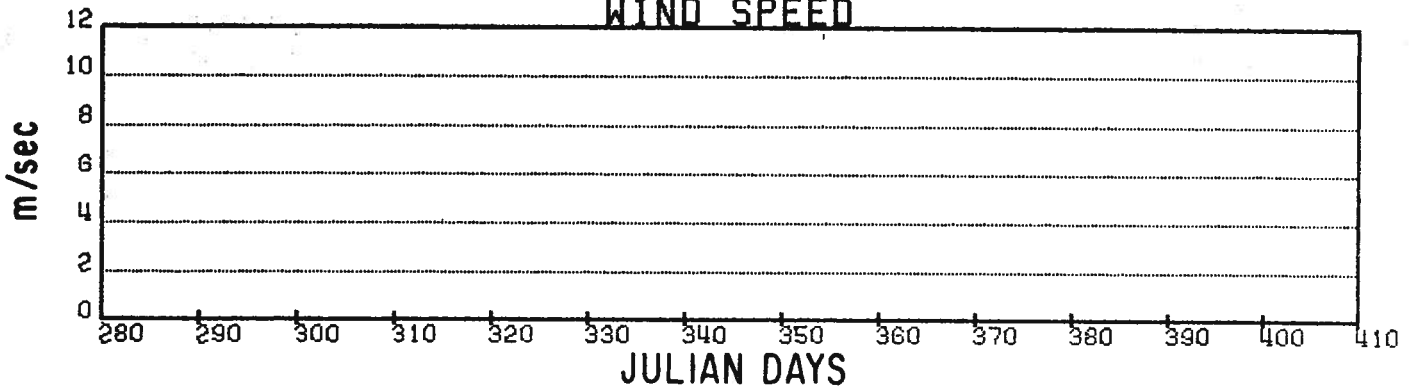
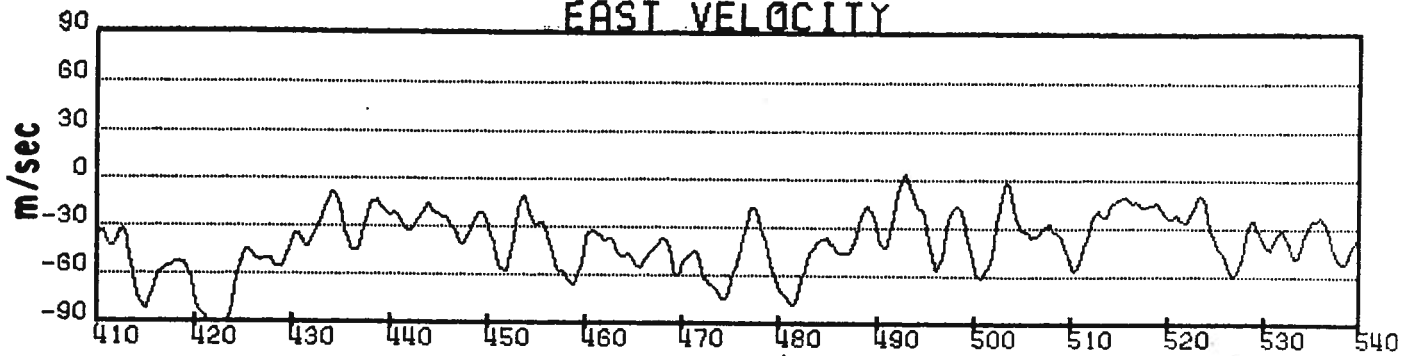


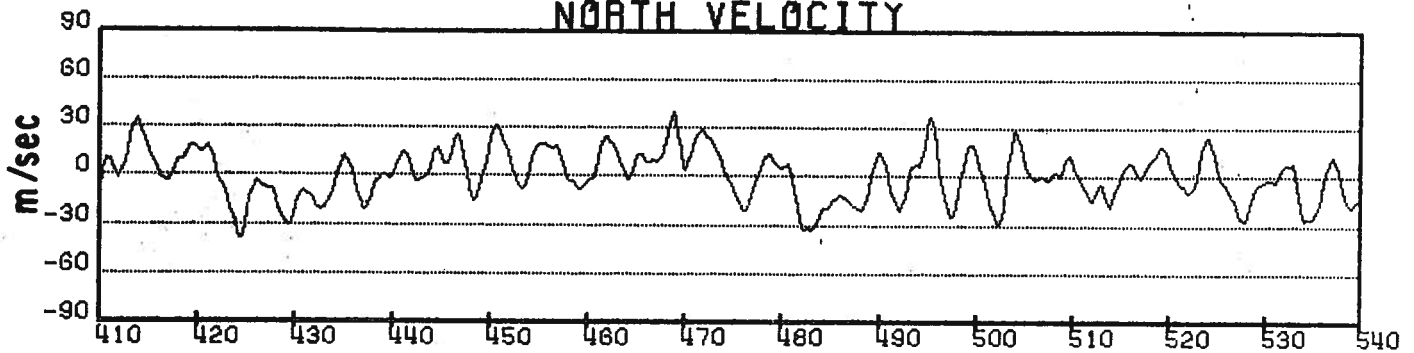
Figure 12. (Continued).

BUOY 2205

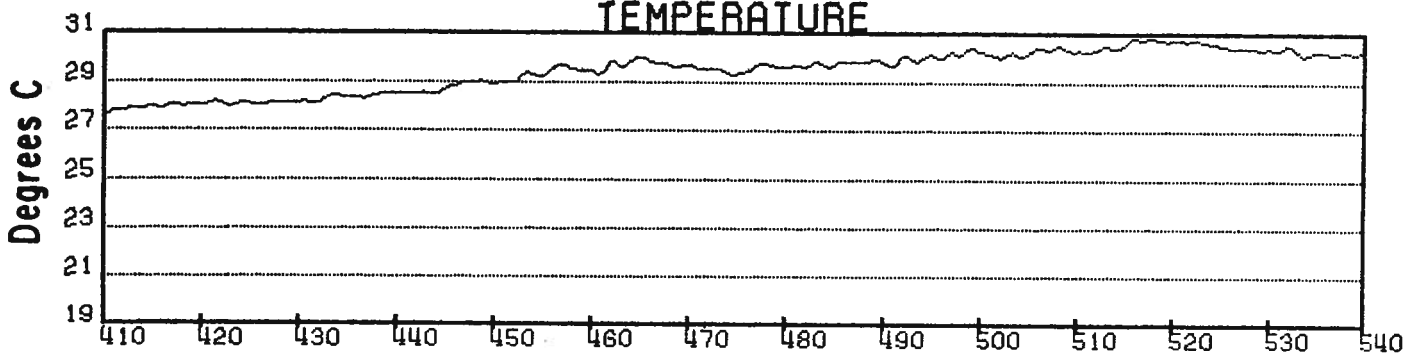
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

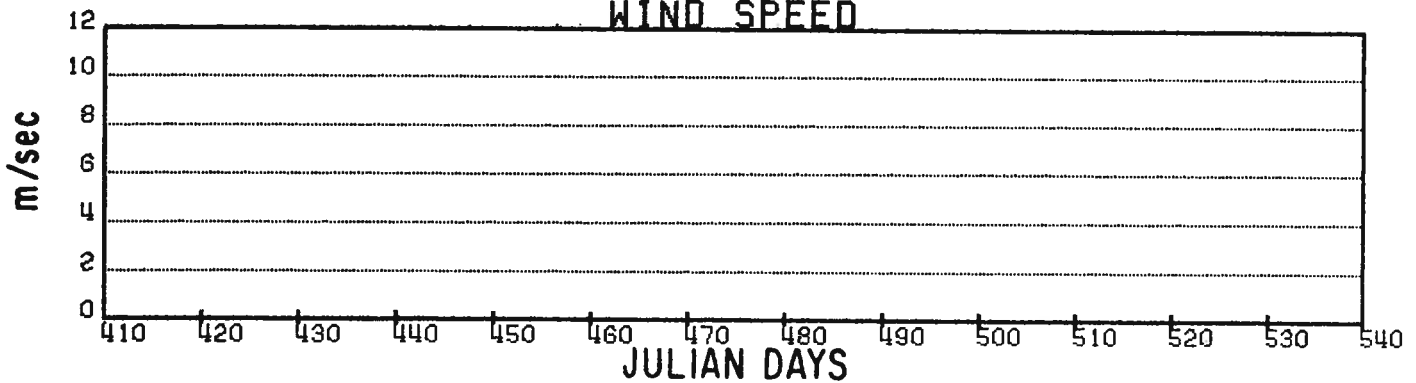
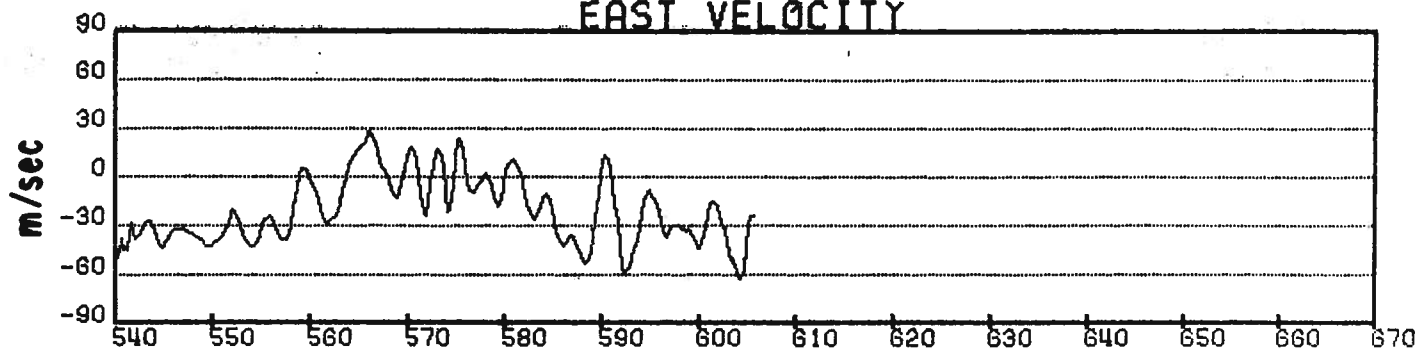


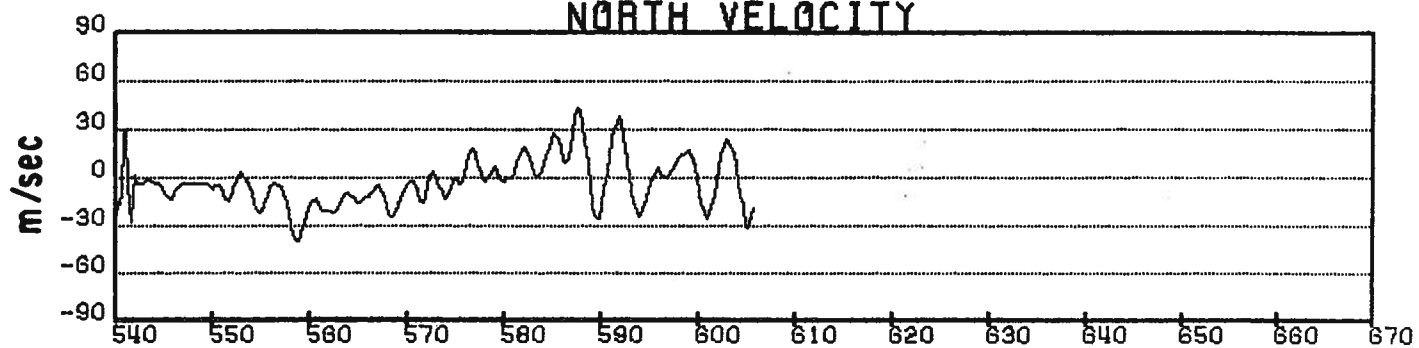
Figure 12. (Continued).

BUOY 2205

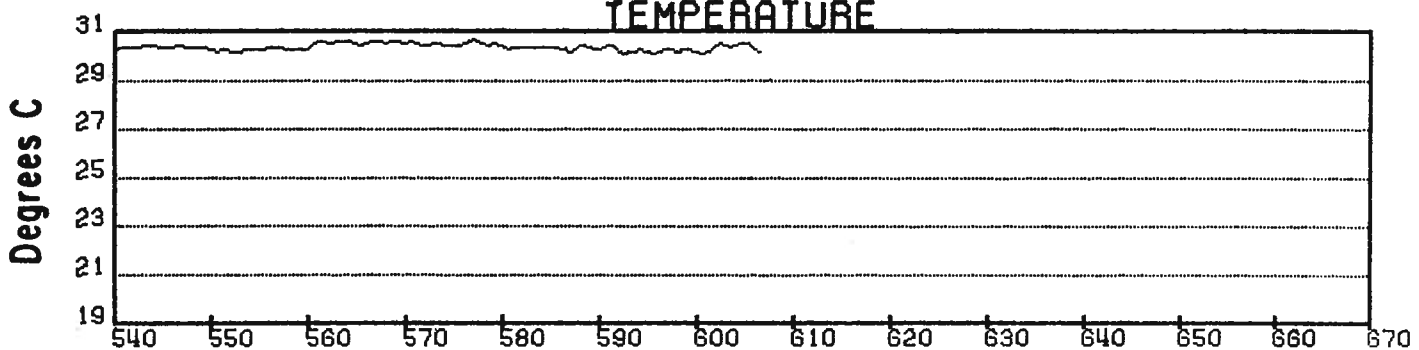
EAST VELOCITY



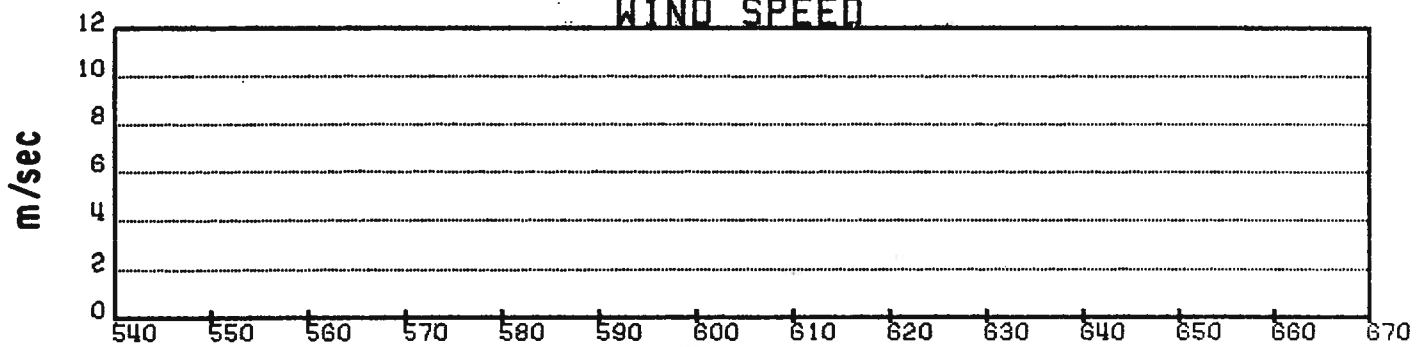
NORTH VELOCITY



TEMPERATURE

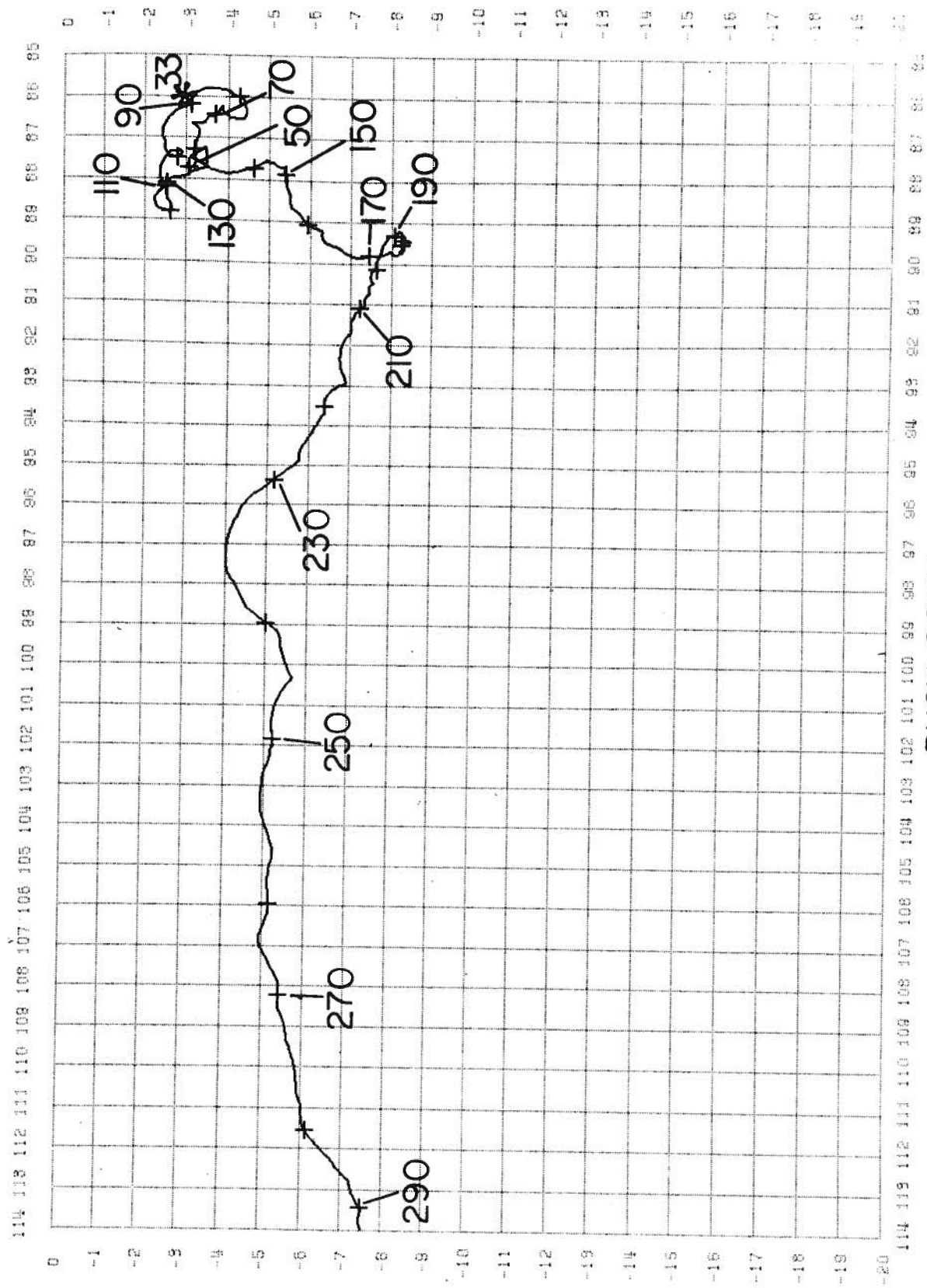


WIND SPEED



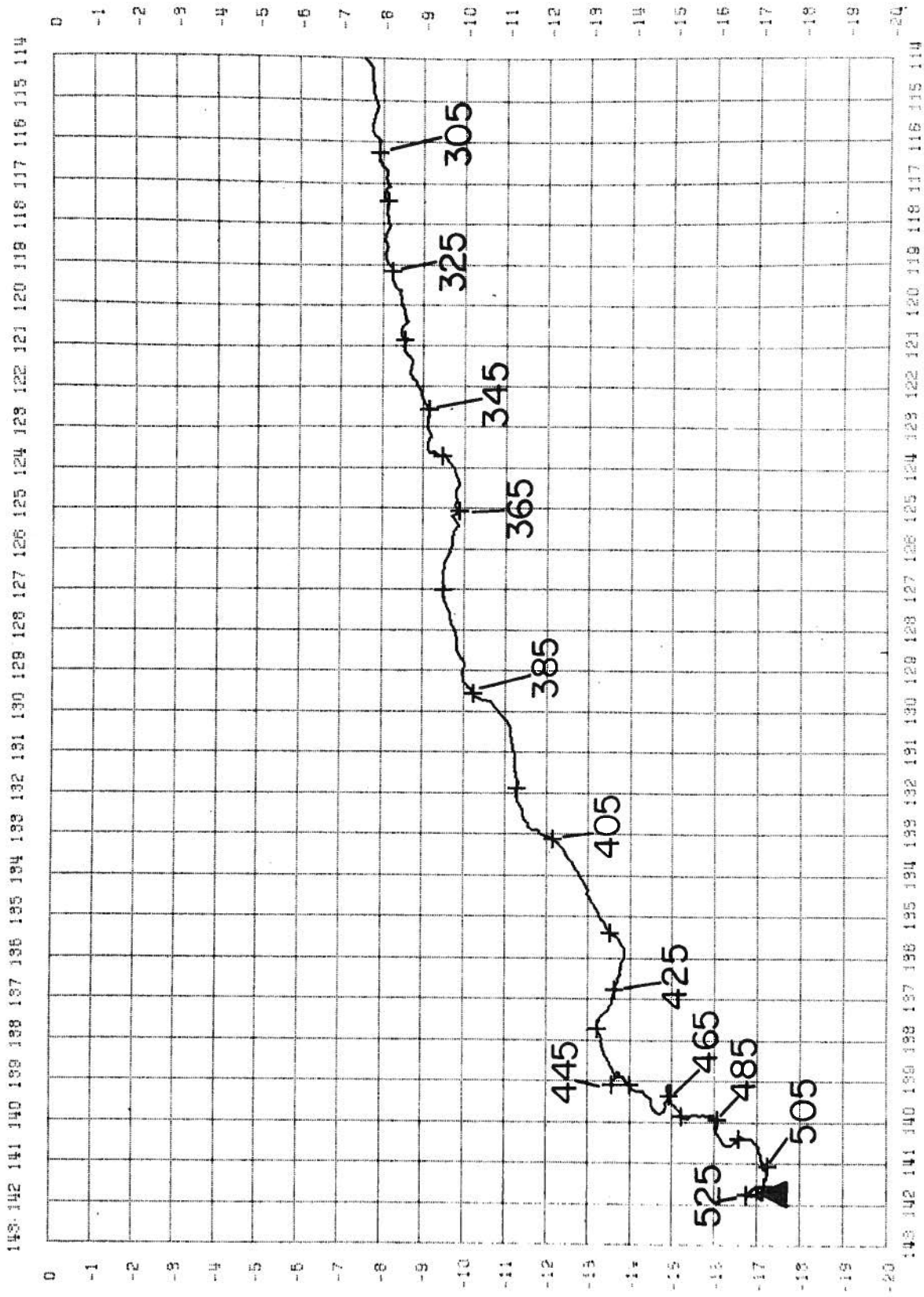
JULIAN DAYS

Figure 12. (Continued).



BUOY 2207

Figure 13. Trajectory of drifting buoy 2207.

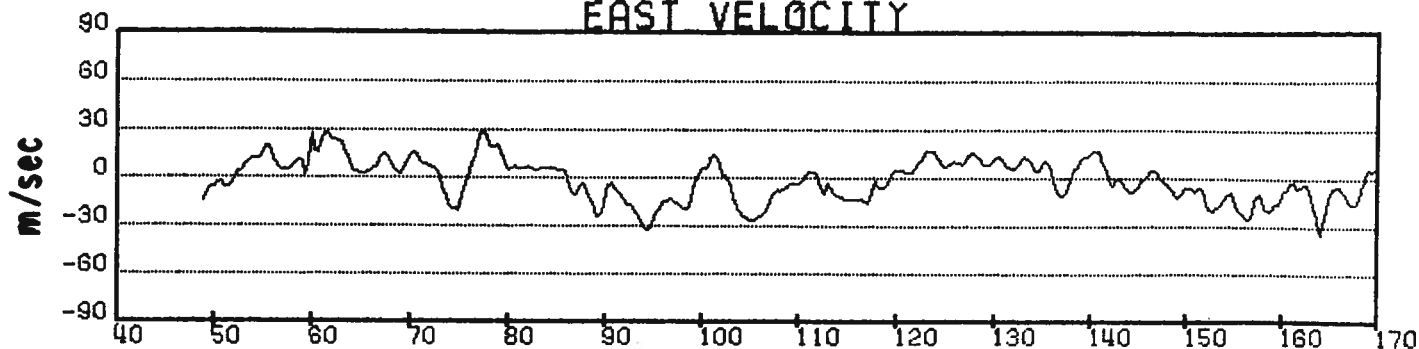


BUOY 2207 Continued

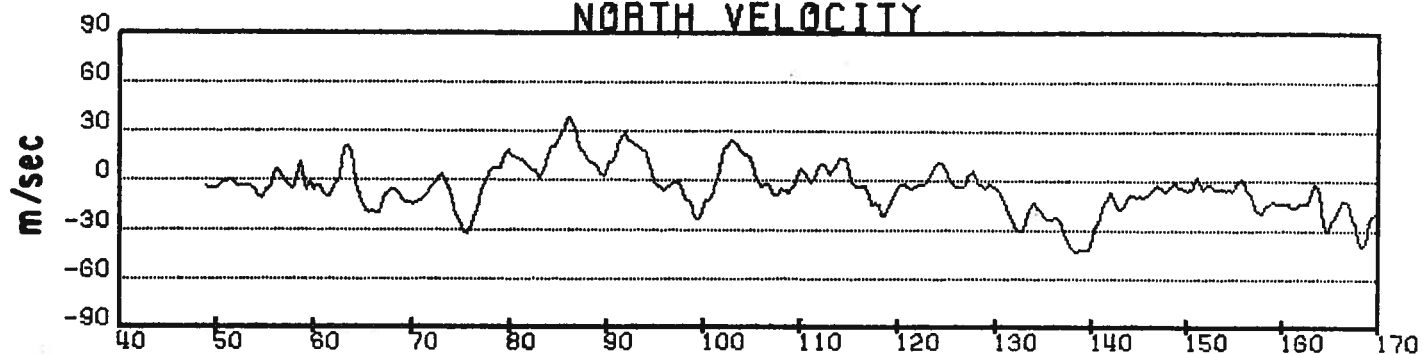
Figure 13. (Continued).

BUOY 2207

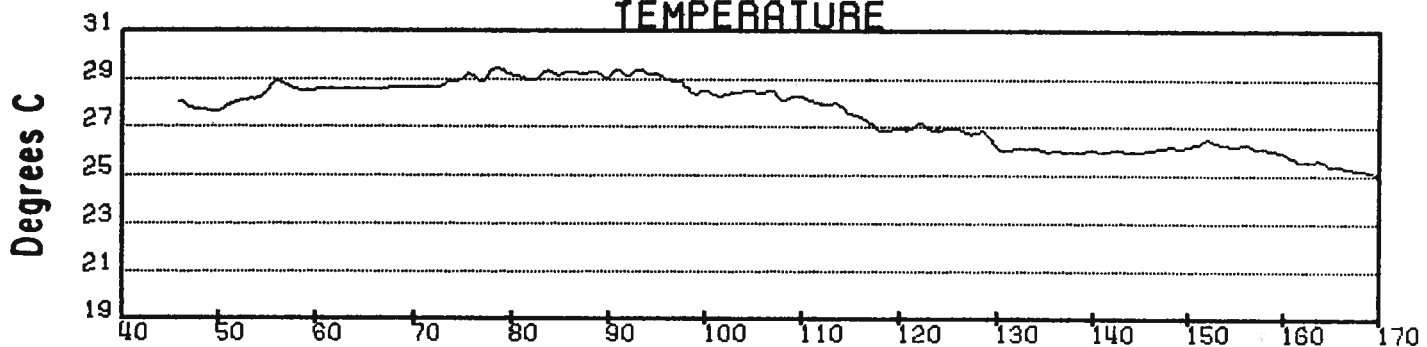
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

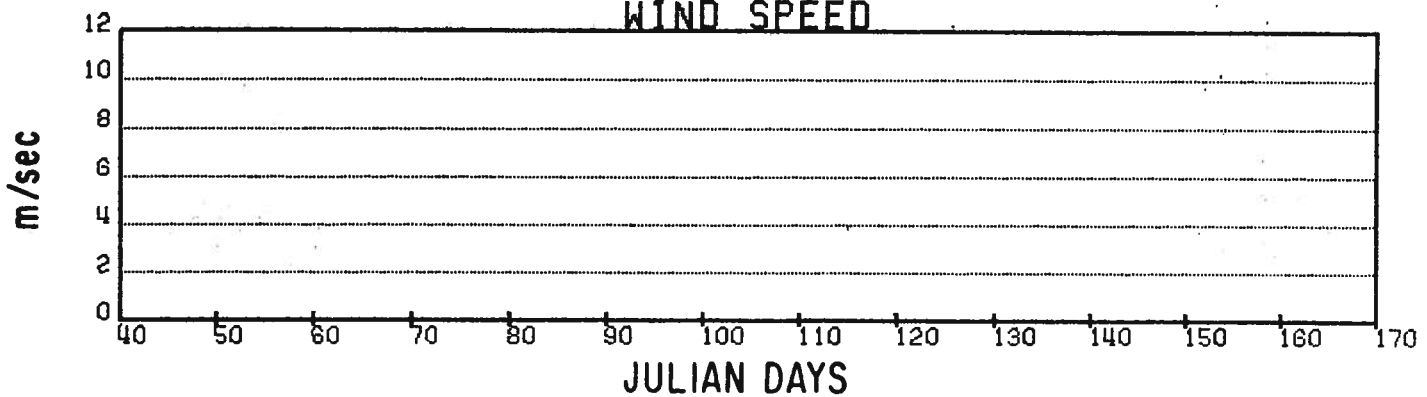


Figure 14. Time series of velocity and sensor data for drifting buoy 2207.

BUOY 2207

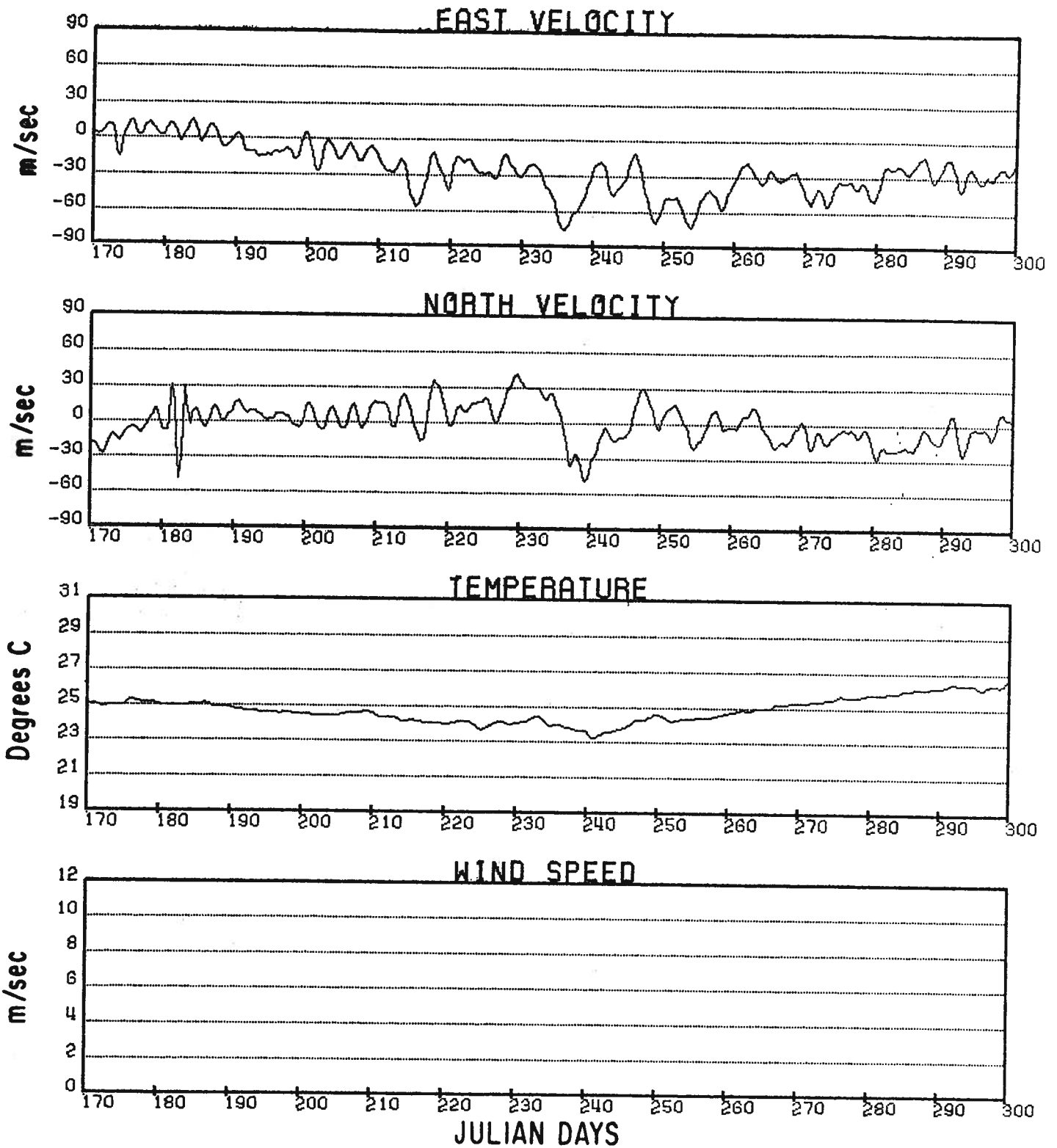
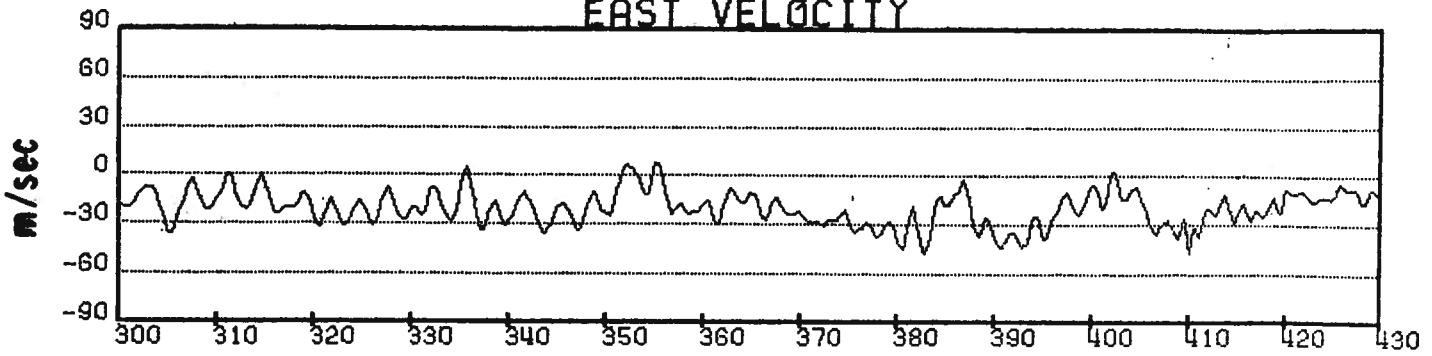


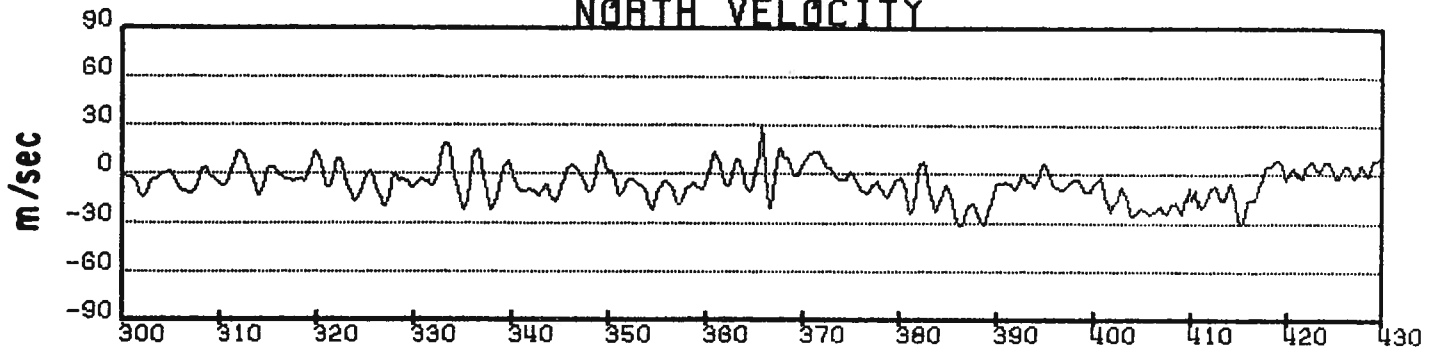
Figure 14. (Continued).

BUOY 2207

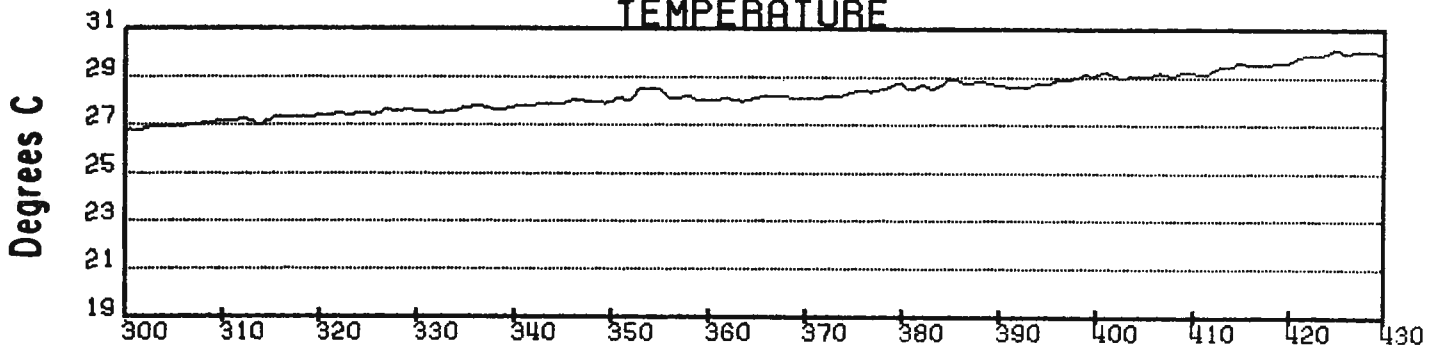
EAST VELOCITY



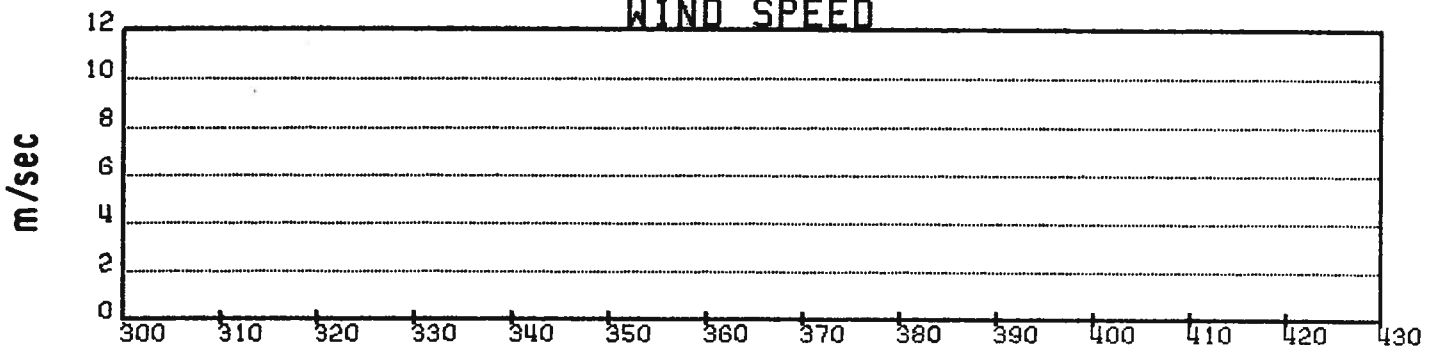
NORTH VELOCITY



TEMPERATURE



WIND SPEED

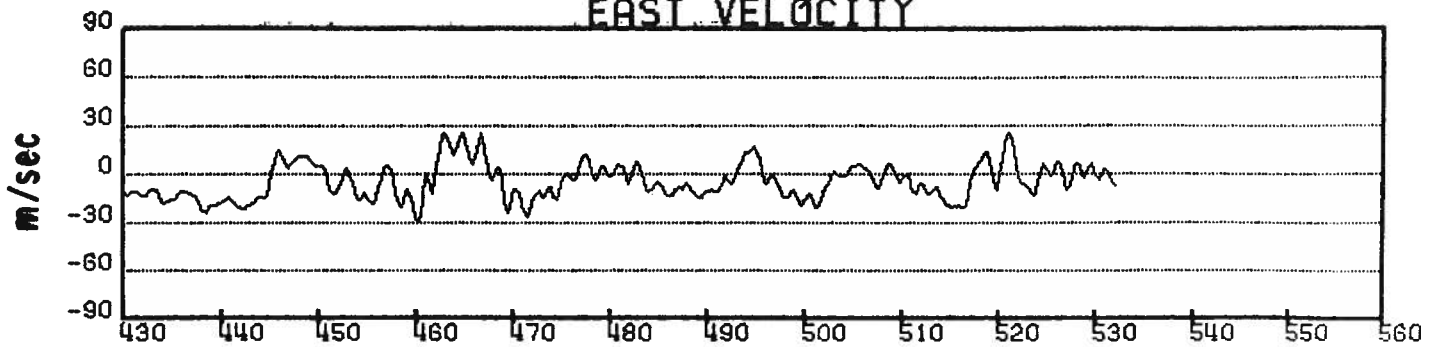


JULIAN DAYS

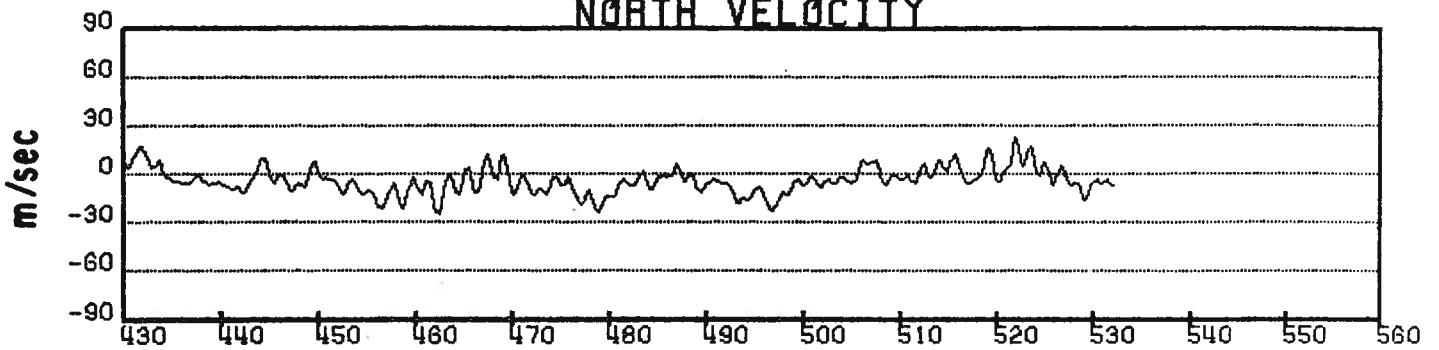
Figure 14. (Continued).

BUOY 2207

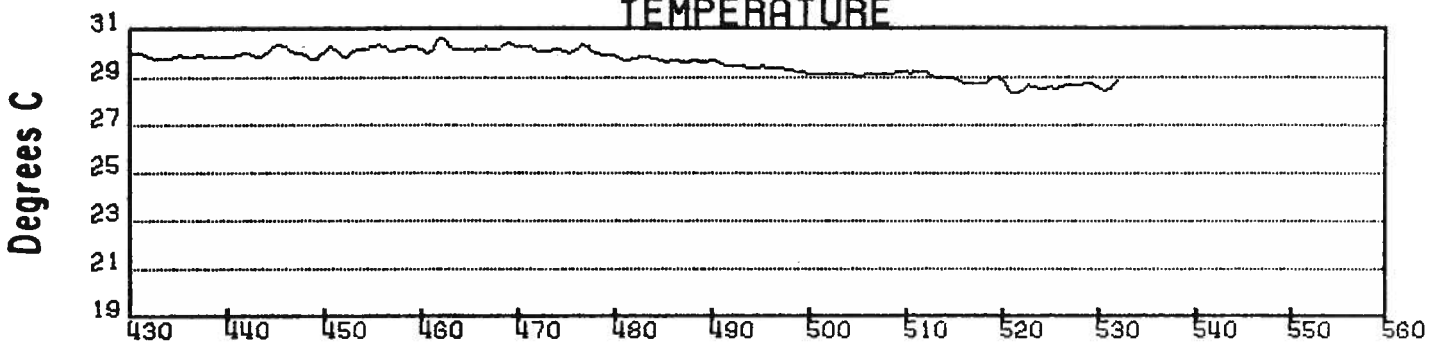
EAST VELOCITY



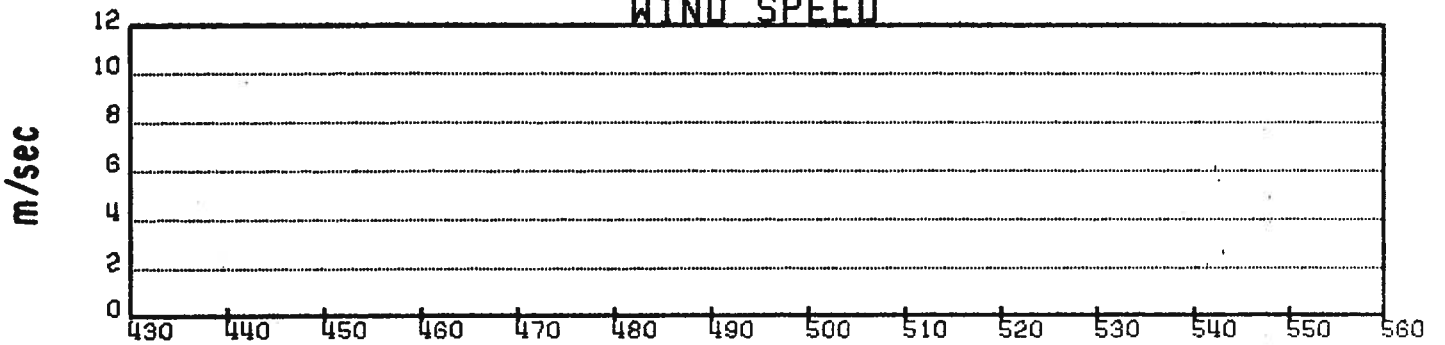
NORTH VELOCITY



TEMPERATURE



WIND SPEED



JULIAN DAYS

Figure 14. (Continued).

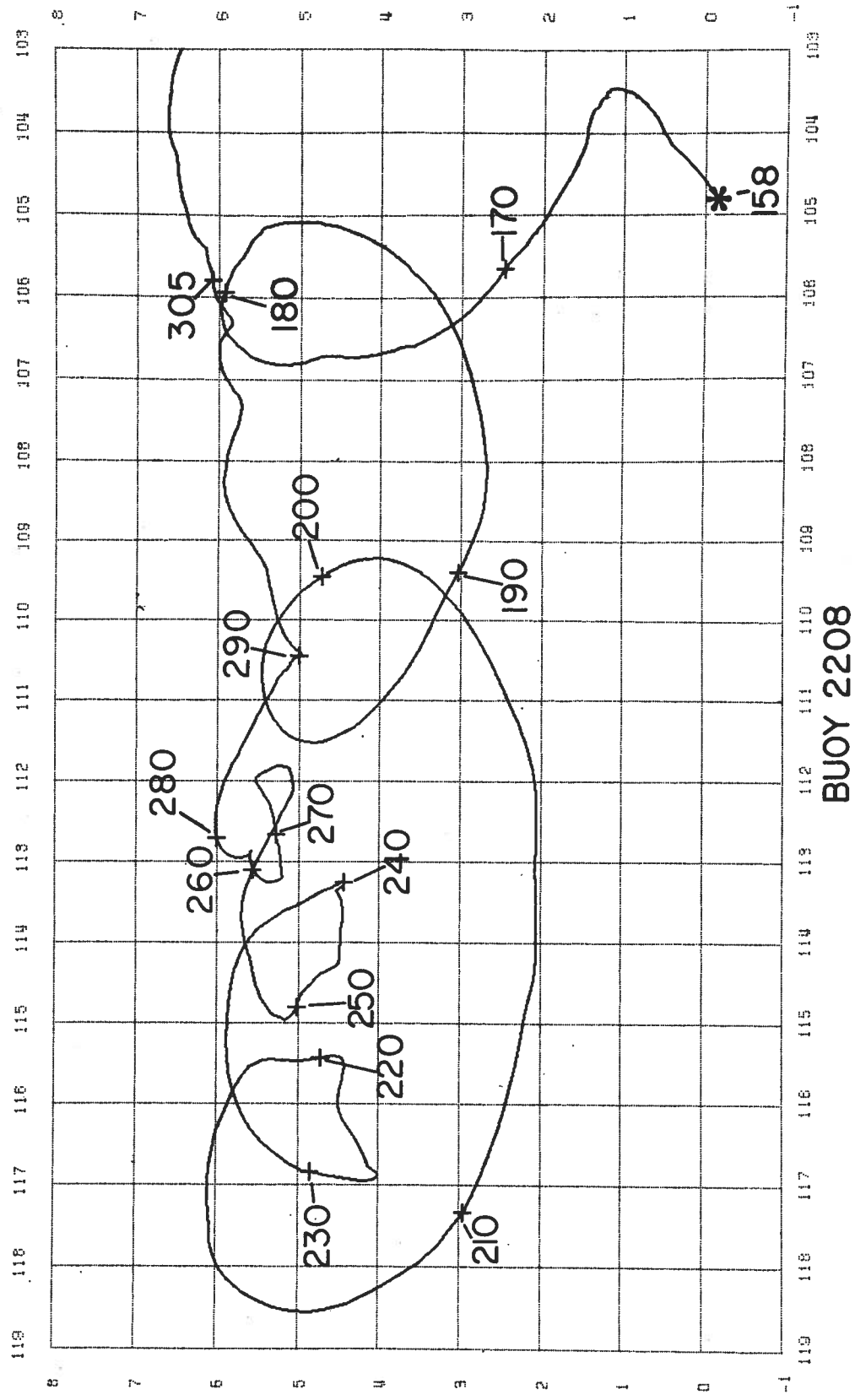
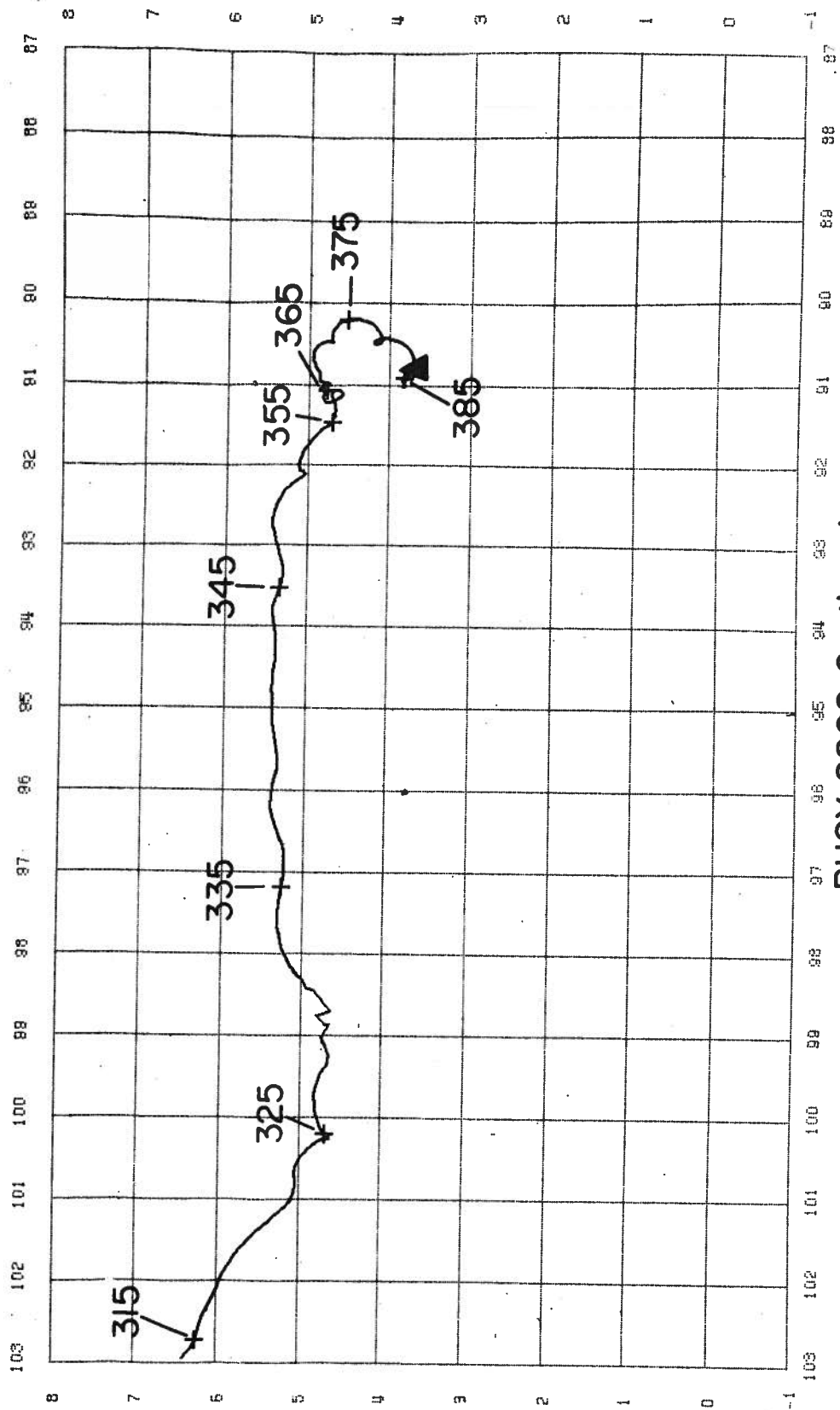


Figure 15. Trajectory of drifting buoy 2208.



BUOY 2208 Continued

Figure 15. (Continued).

BUOY 2208

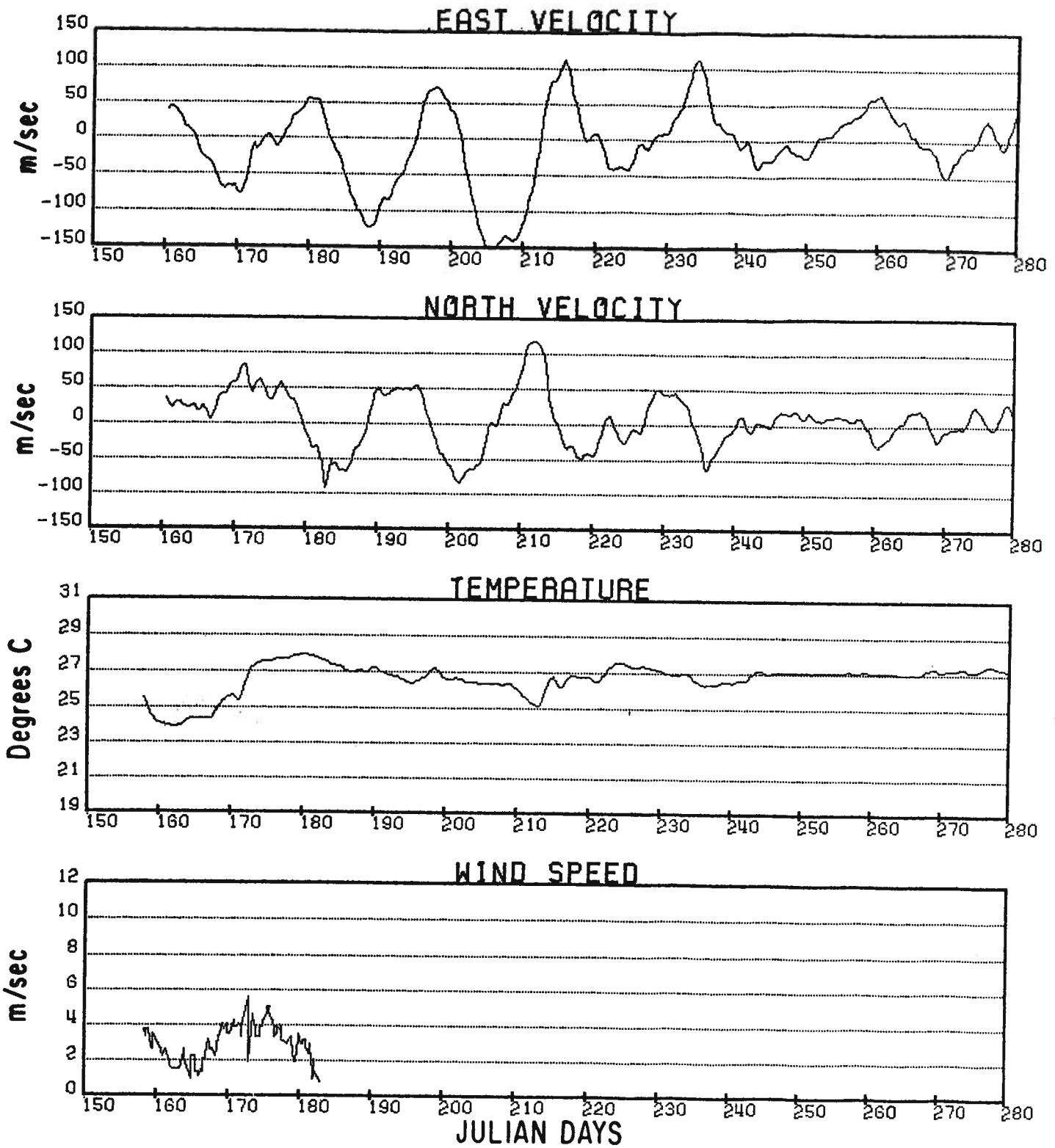


Figure 16. Time series of velocity and sensor data for drifting buoy 2208.

BUOY 2208

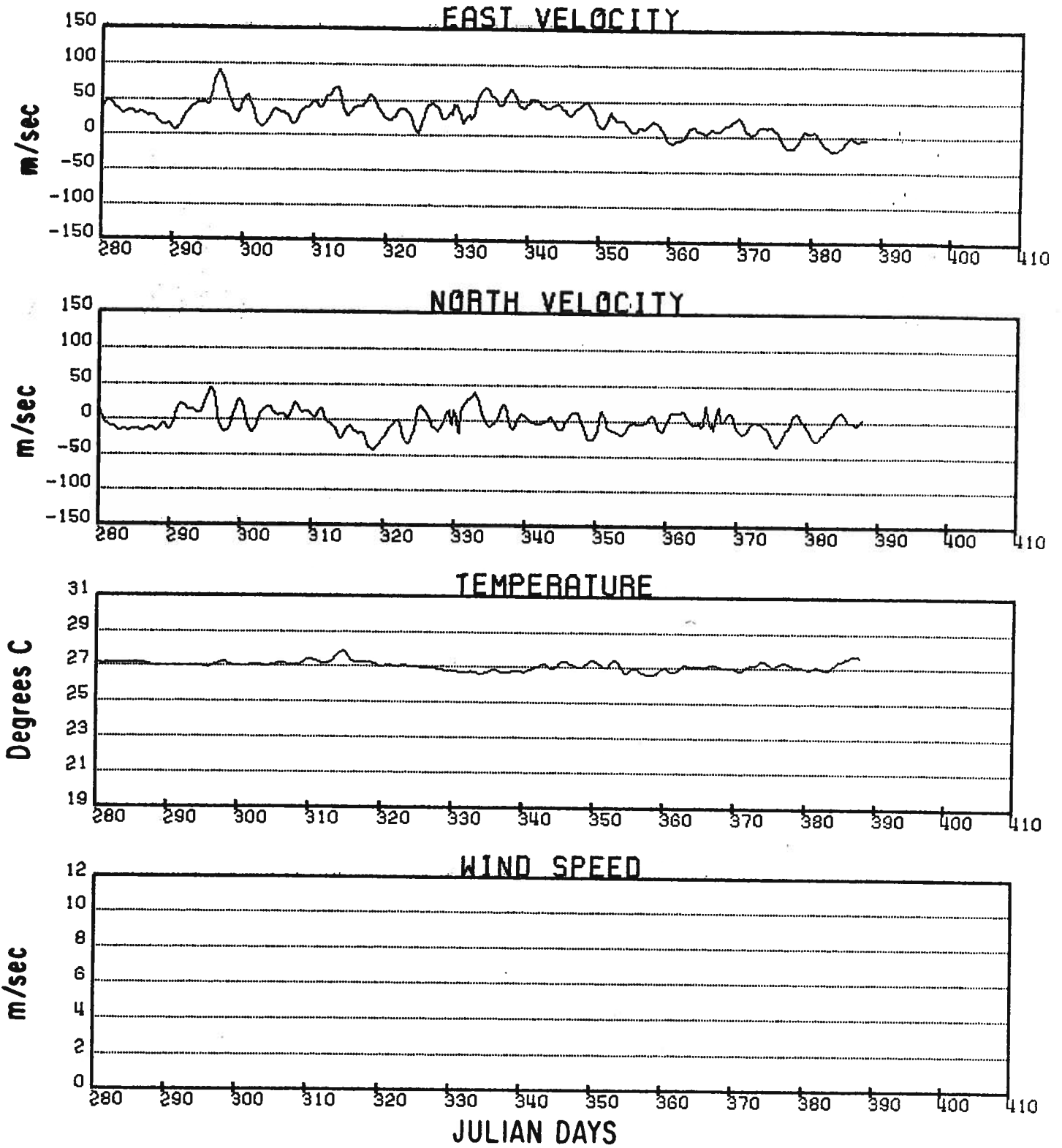
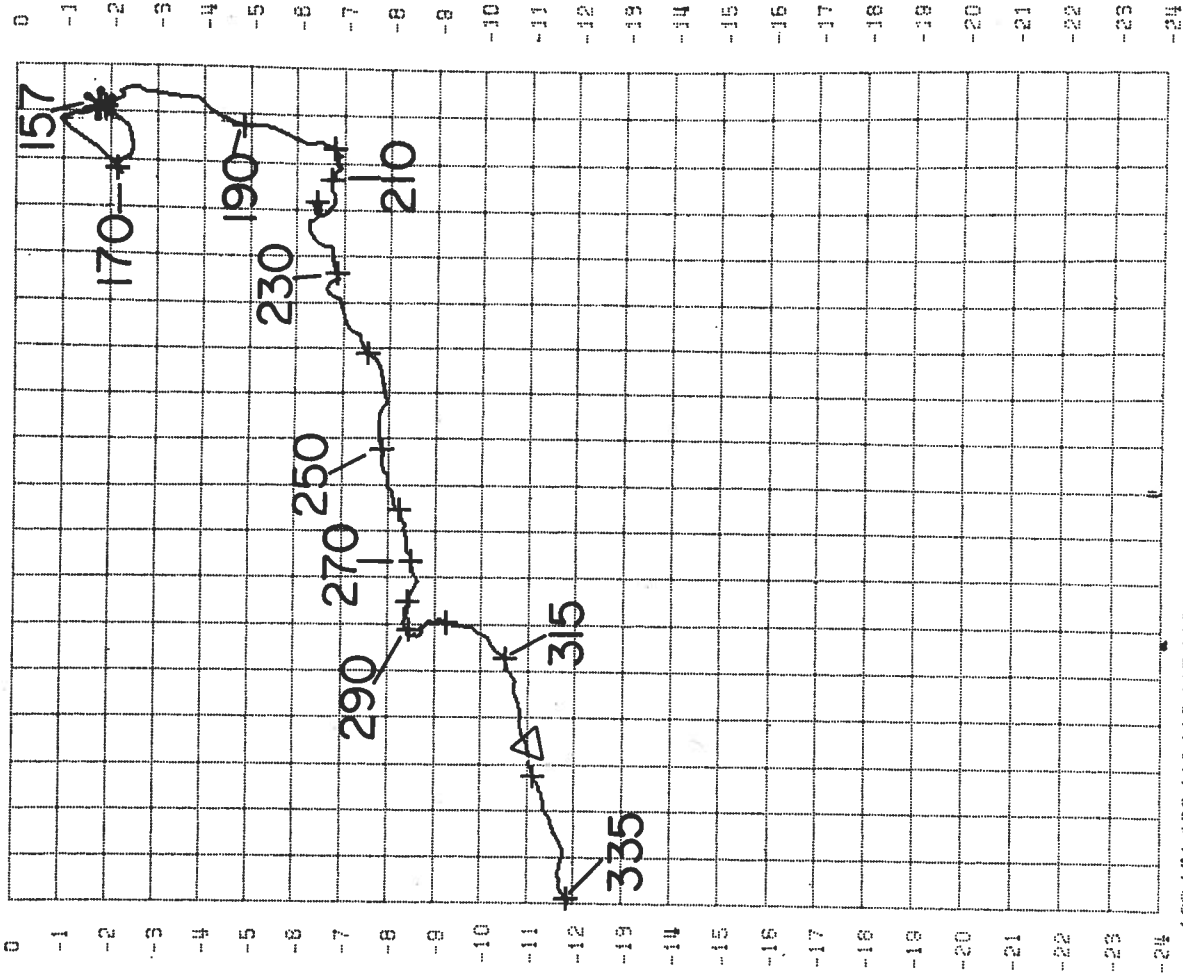


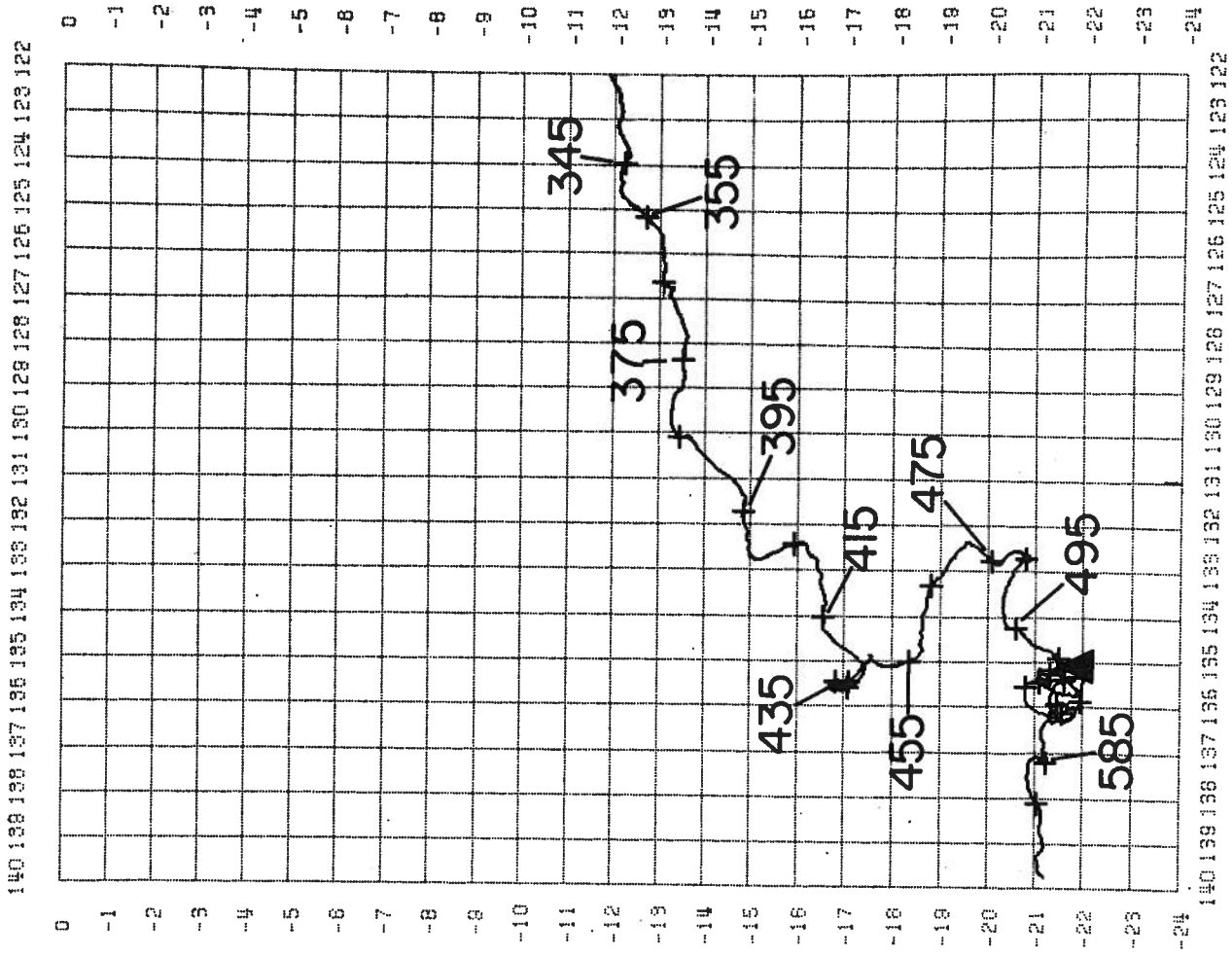
Figure 16. (Continued).

122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104



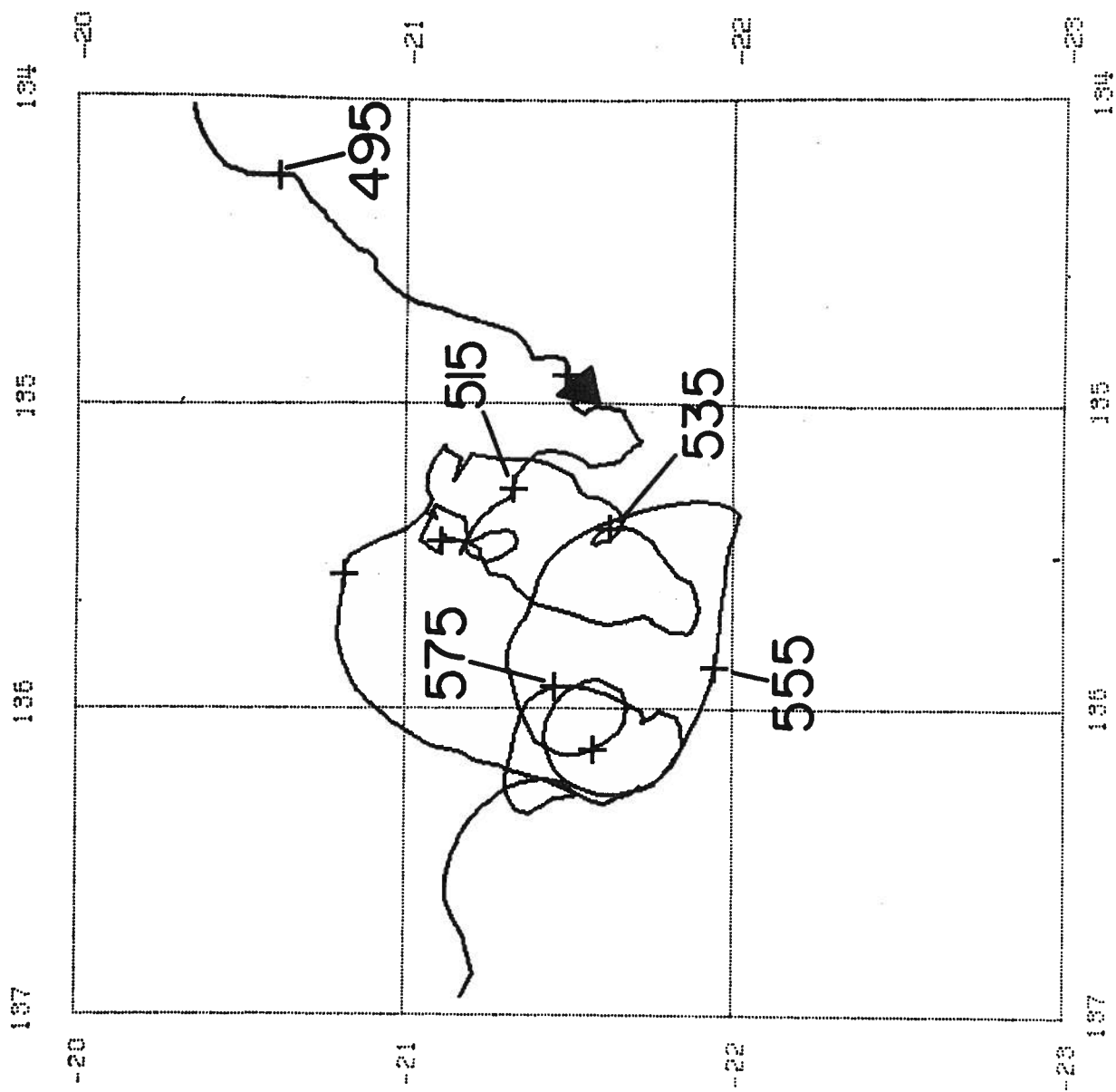
BUOY 2209

Figure 17. Trajectory of drifting buoy 2209.



BUOY 2209 Continued

Figure 17. (Continued).

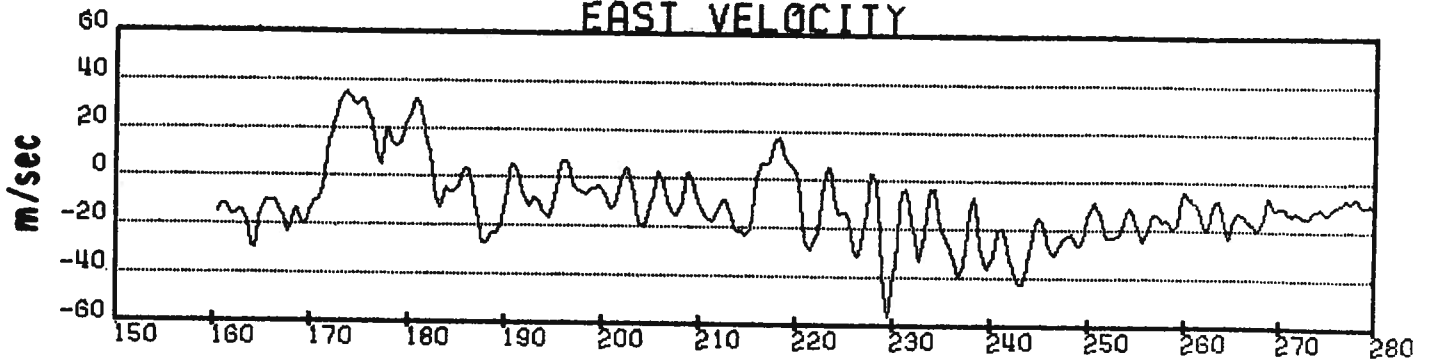


BUOY 2209

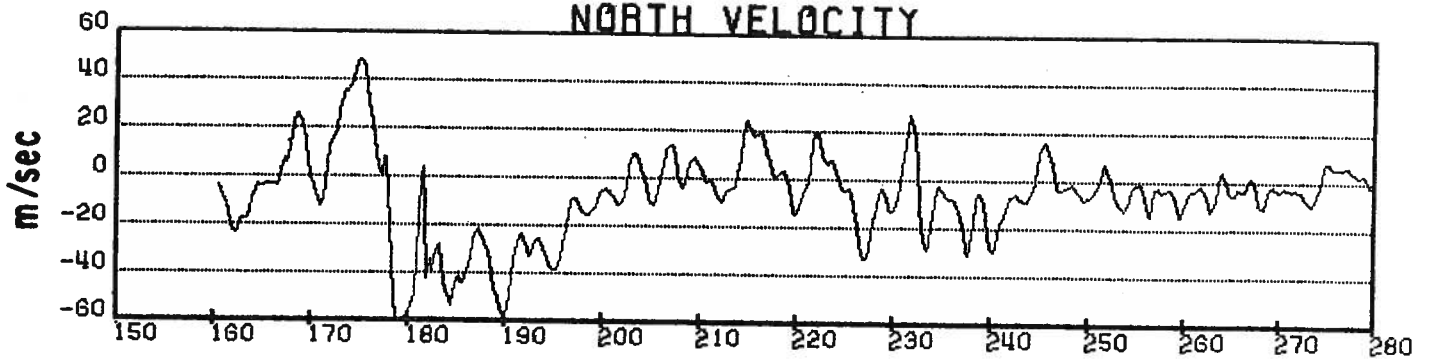
Figure 18. Trajectory detail for drifting buoy 2209.

BUOY 2209

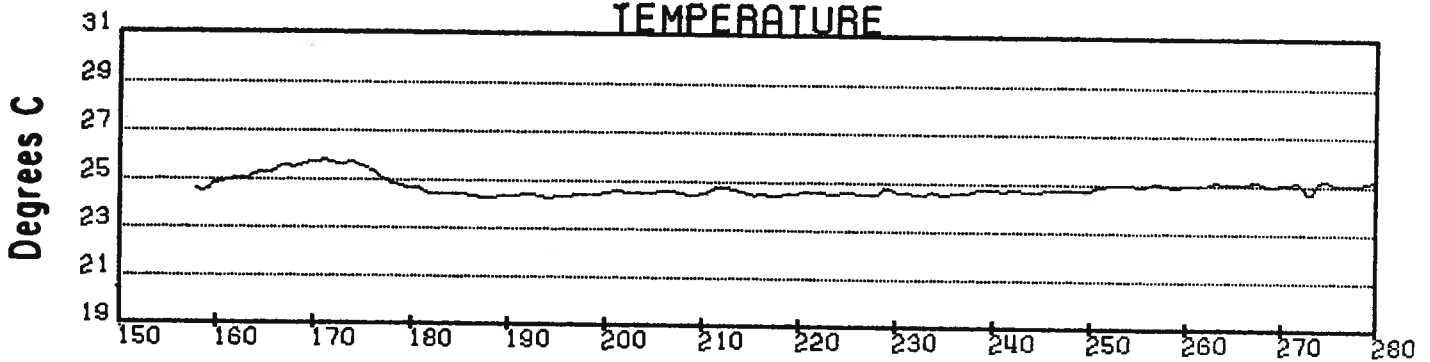
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

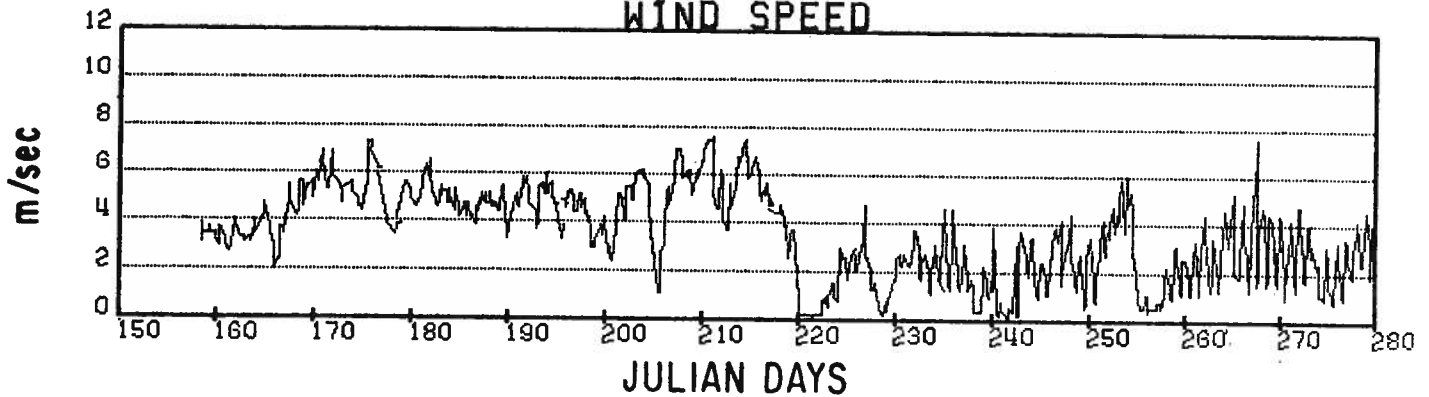
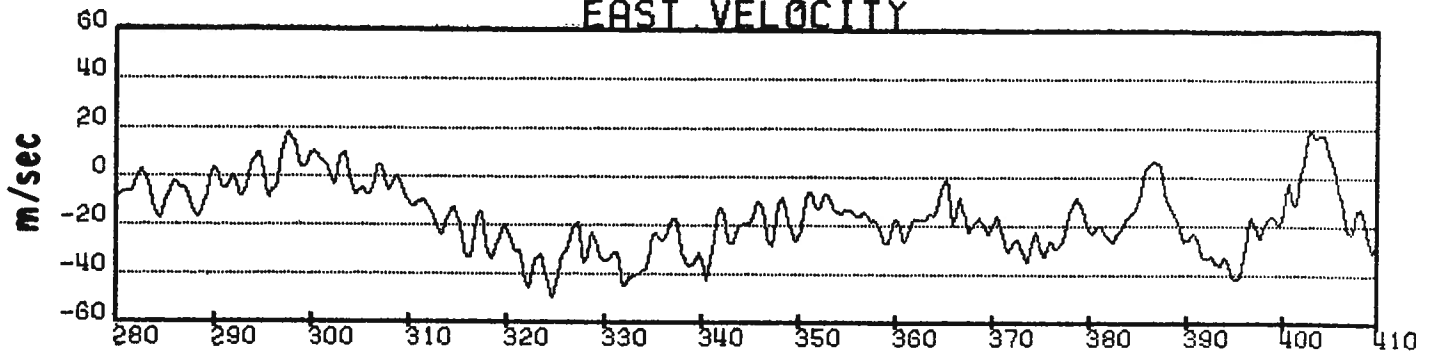


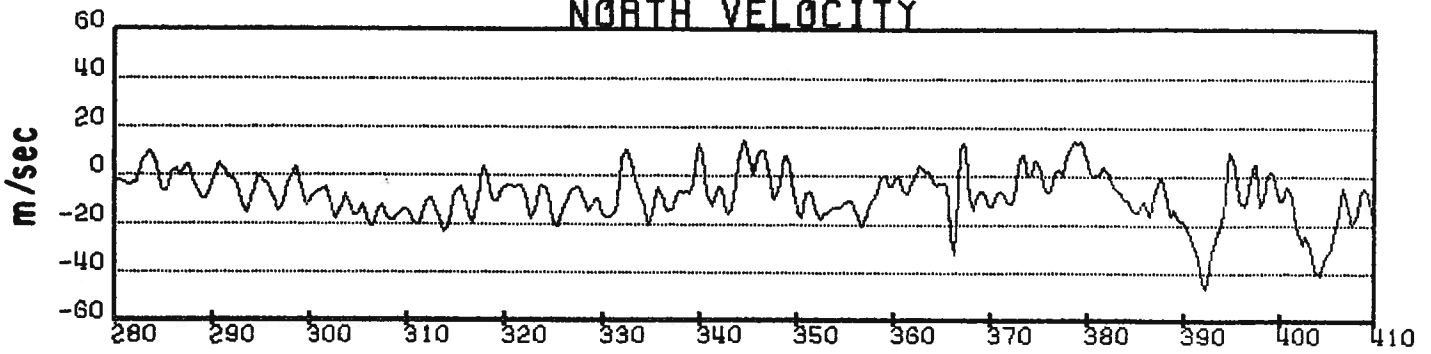
Figure 19. Time series of velocity and sensor data for drifting buoy 2209.

BUOY 2209

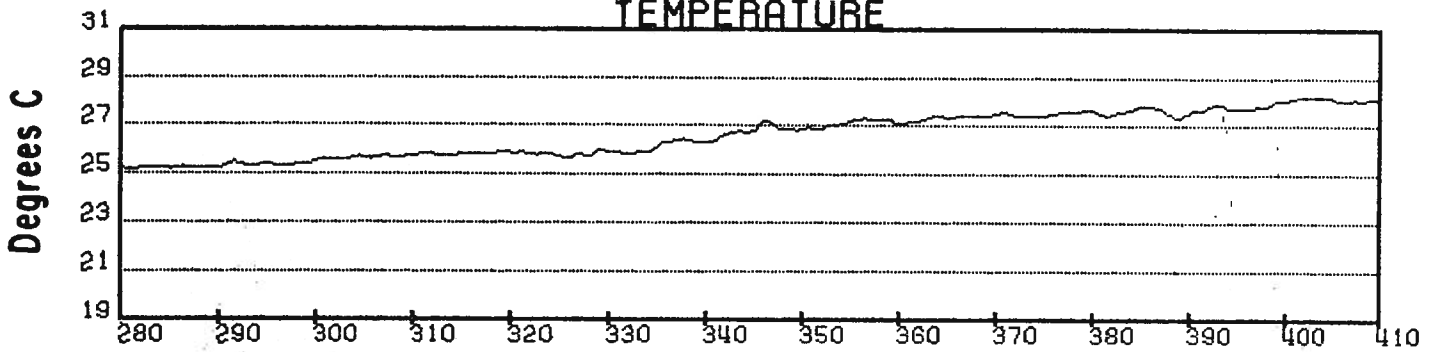
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

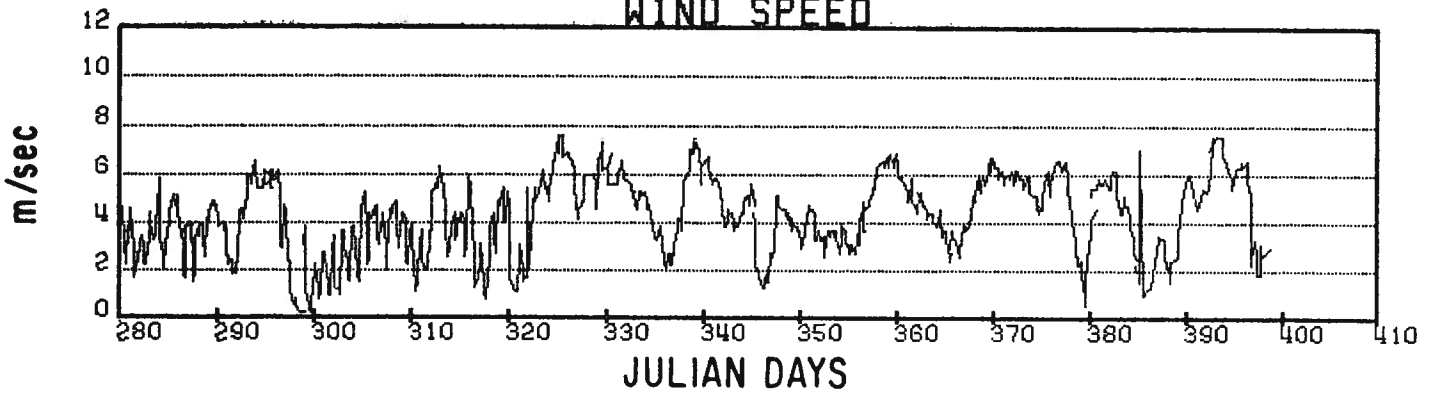
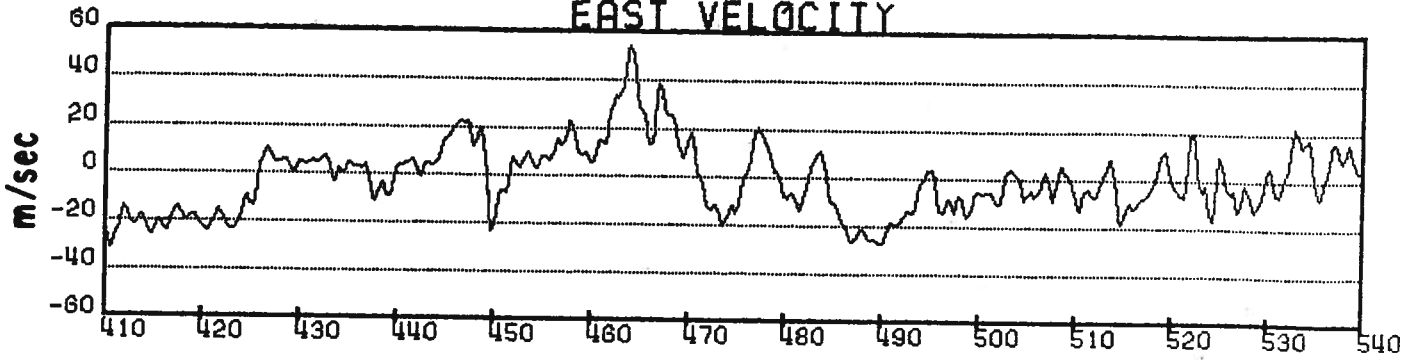


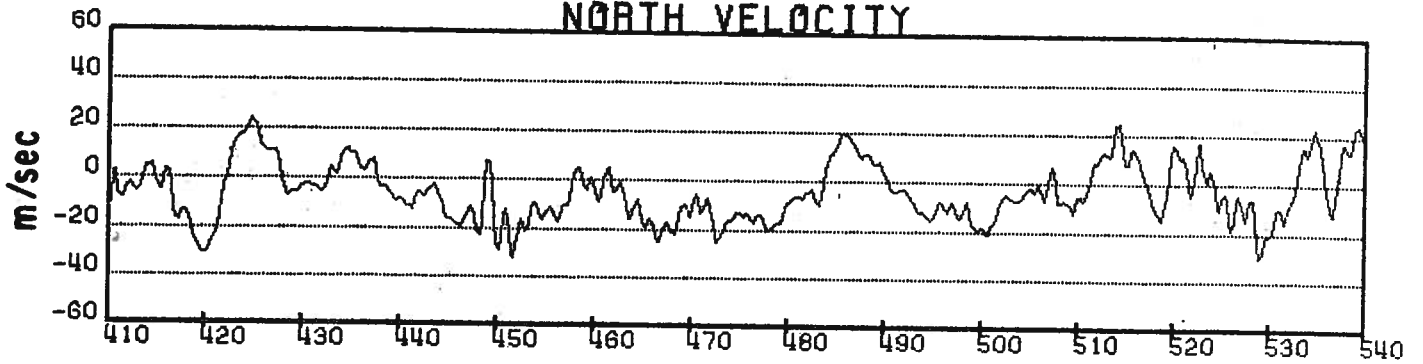
Figure 19. (Continued).

BUOY 2209

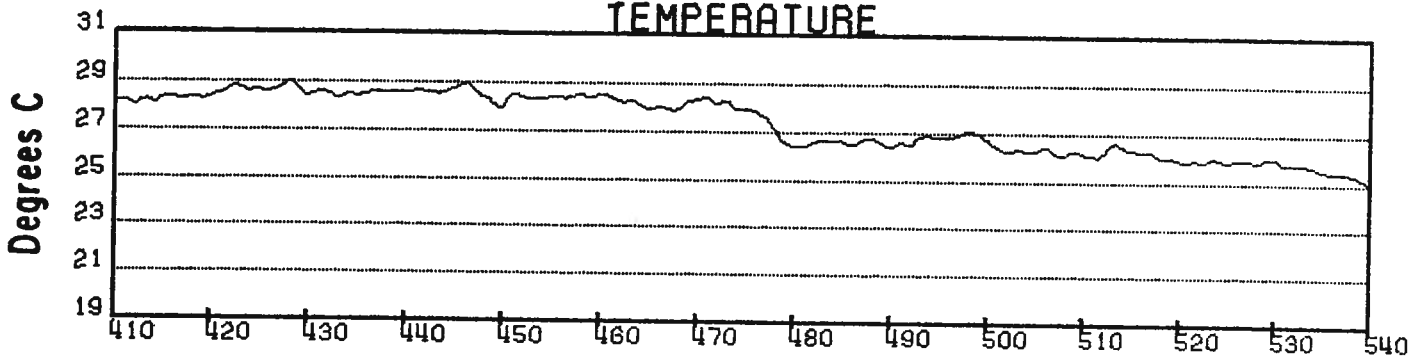
EAST VELOCITY



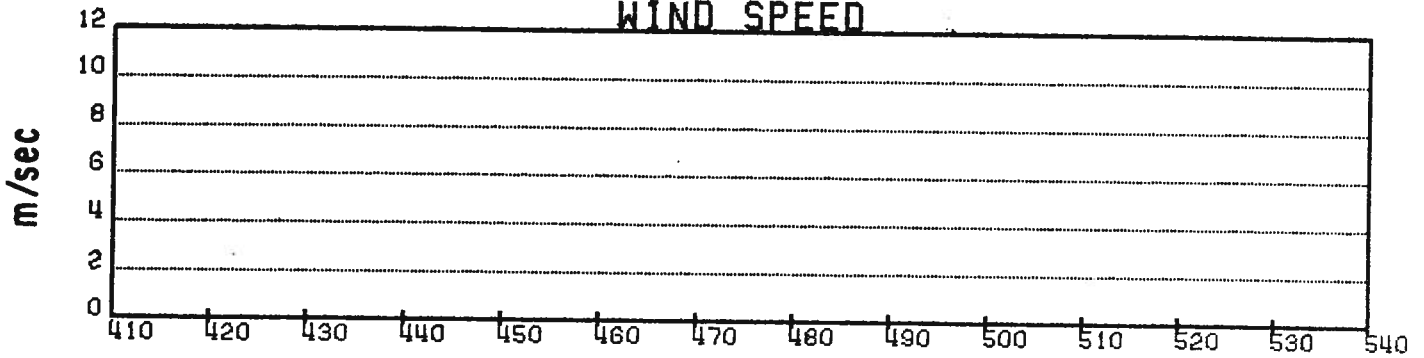
NORTH VELOCITY



TEMPERATURE



WIND SPEED

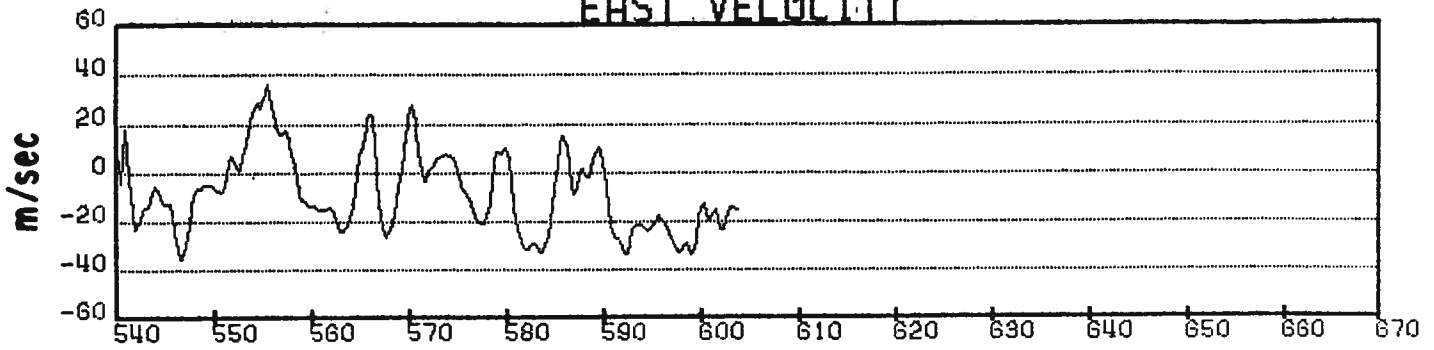


JULIAN DAYS

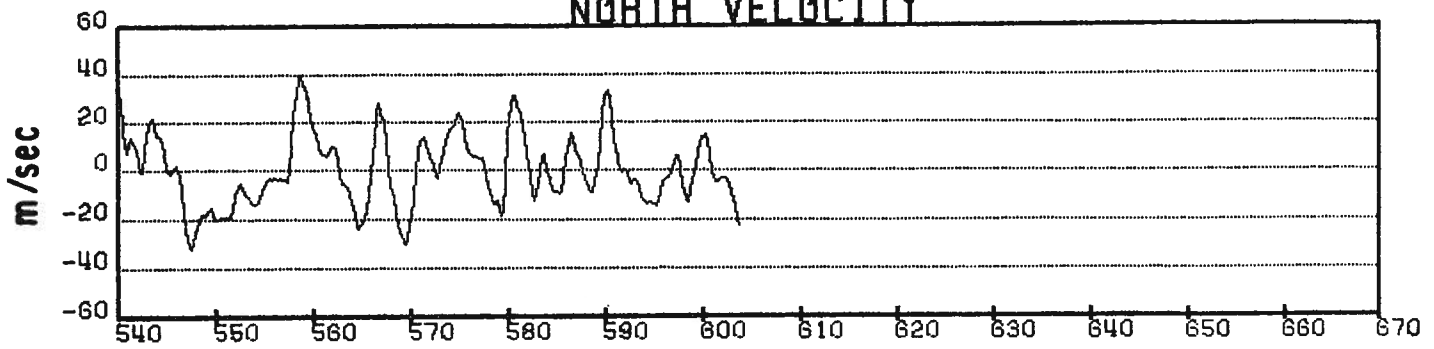
Figure 19. (Continued).

BUOY 2209

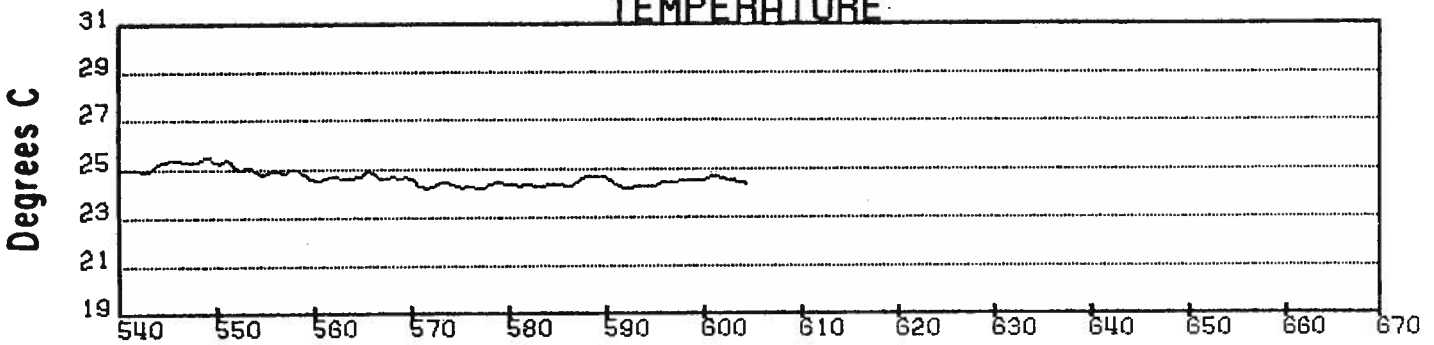
EAST VELOCITY



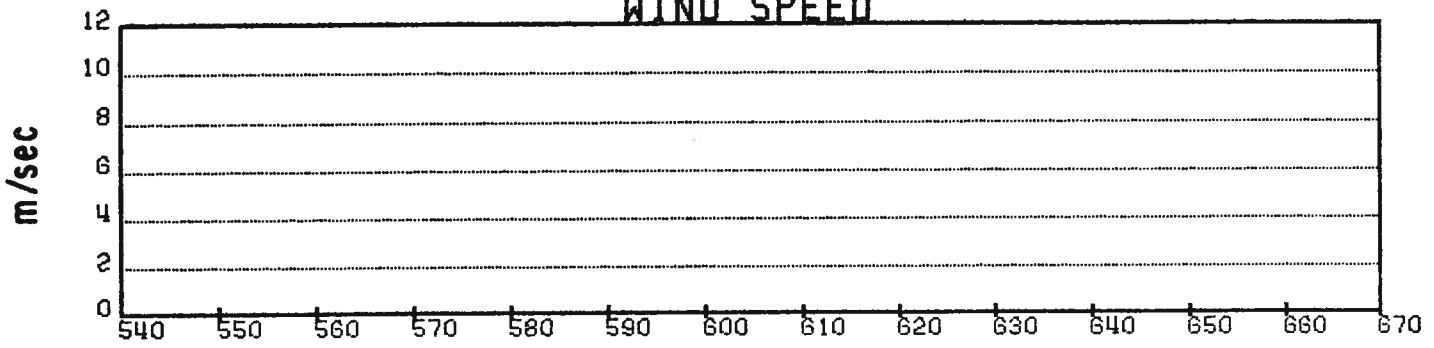
NORTH VELOCITY



TEMPERATURE

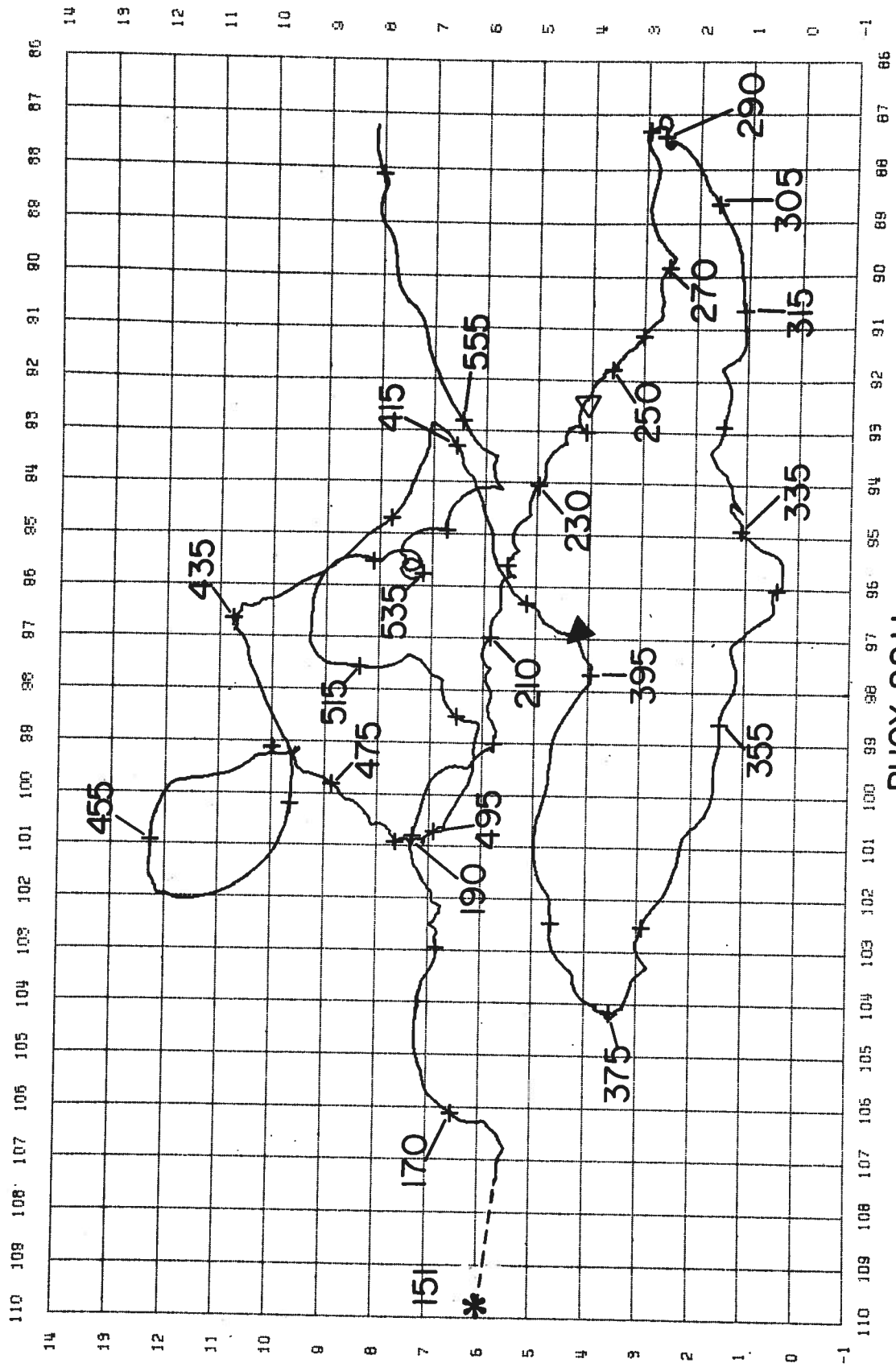


WIND SPEED



JULIAN DAYS

Figure 19. (Continued).

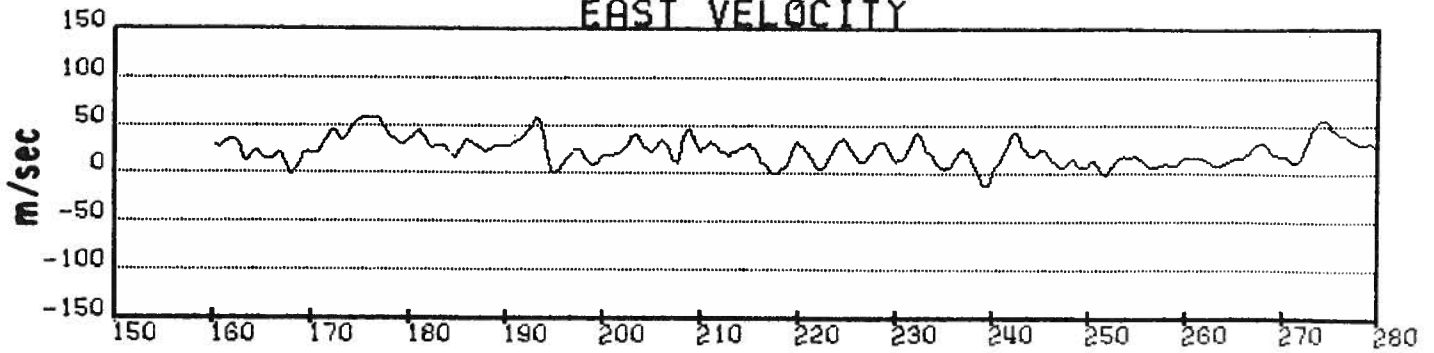


BUOY 2211

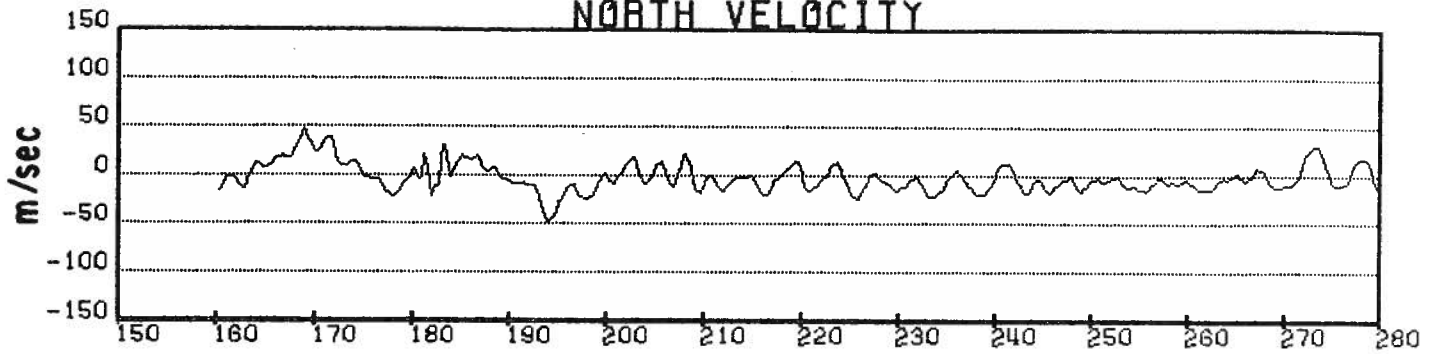
Figure 20. Trajectory of drifting buoy 2211.

BUOY 2211

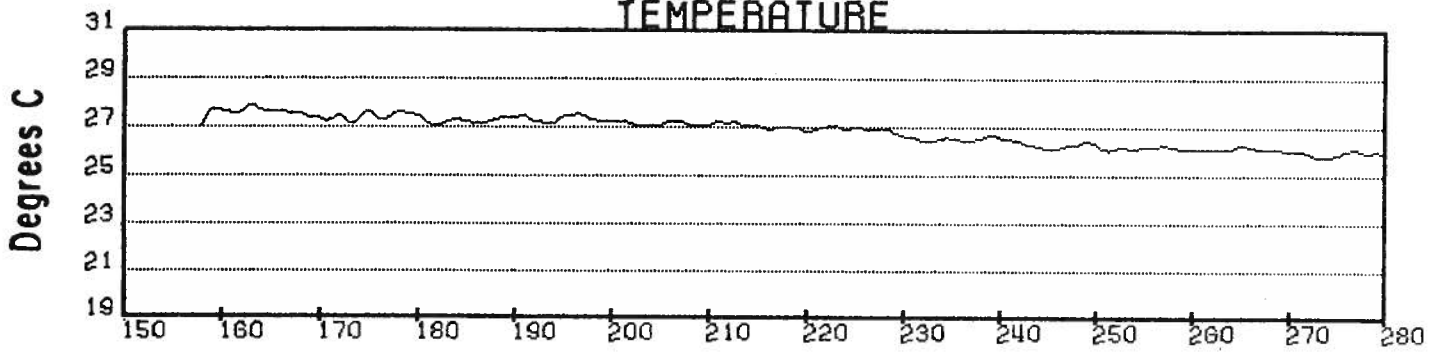
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

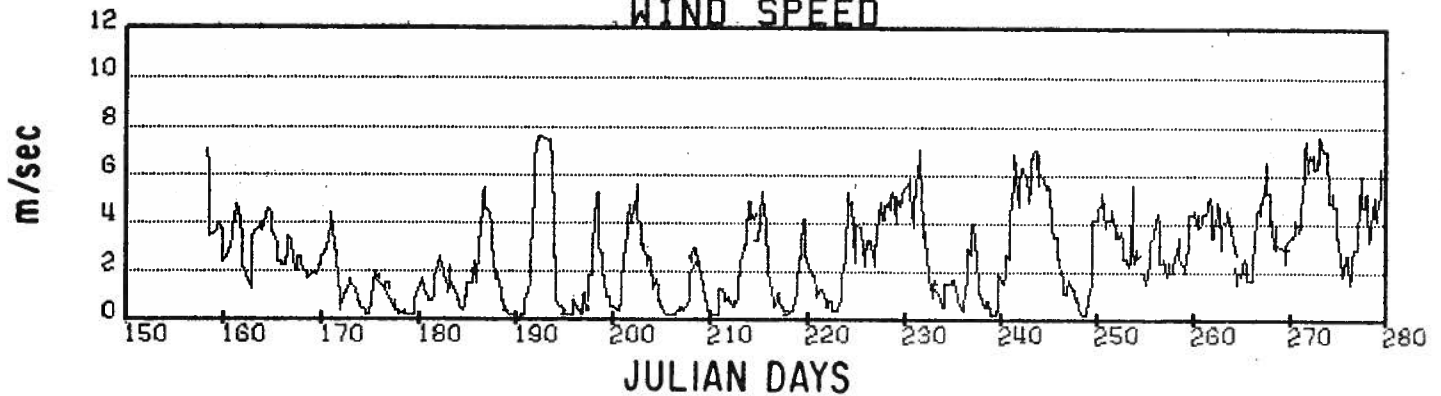


Figure 21. Time series of velocity and sensor data for drifting buoy 2211.

BUOY 2211

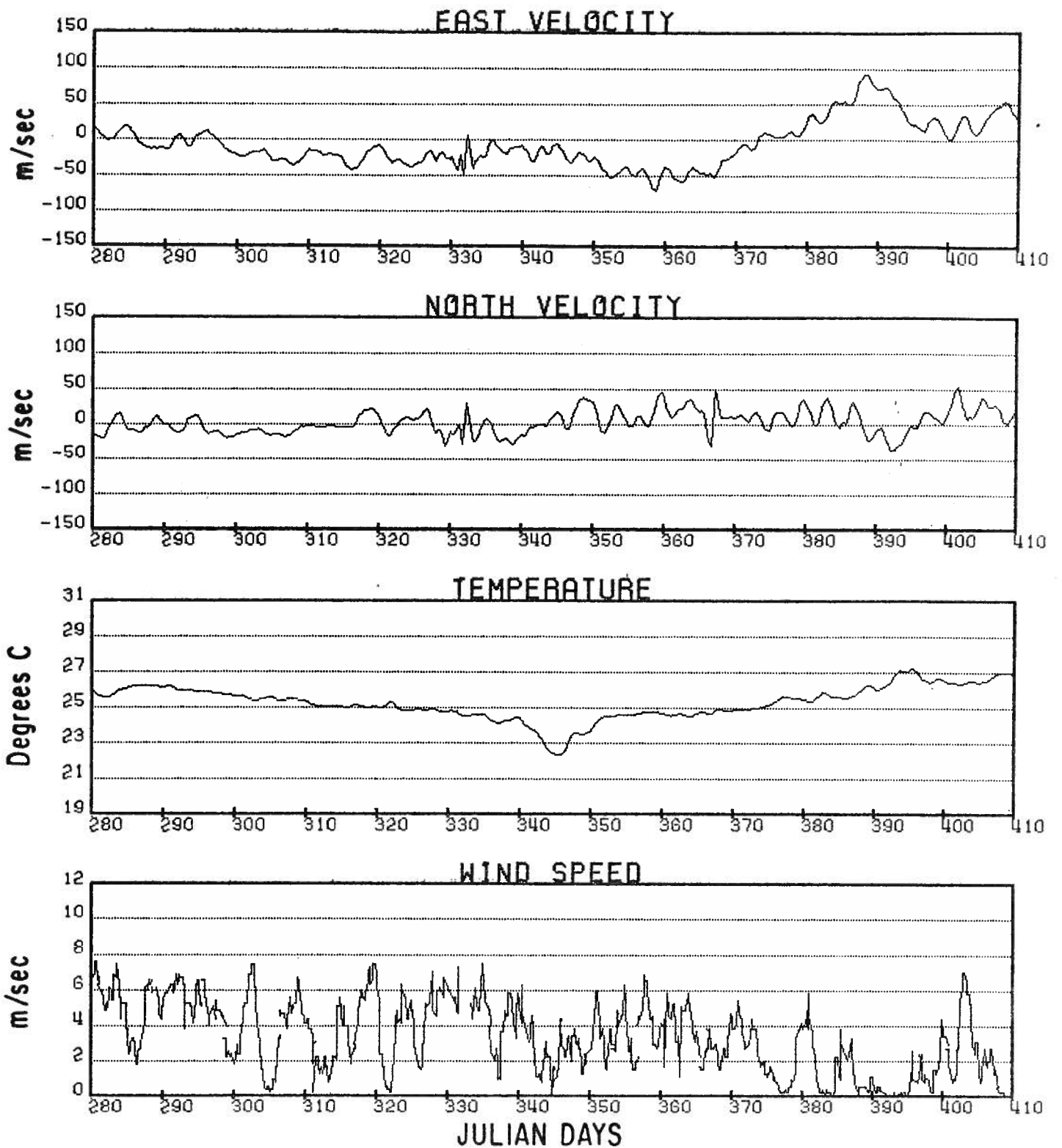
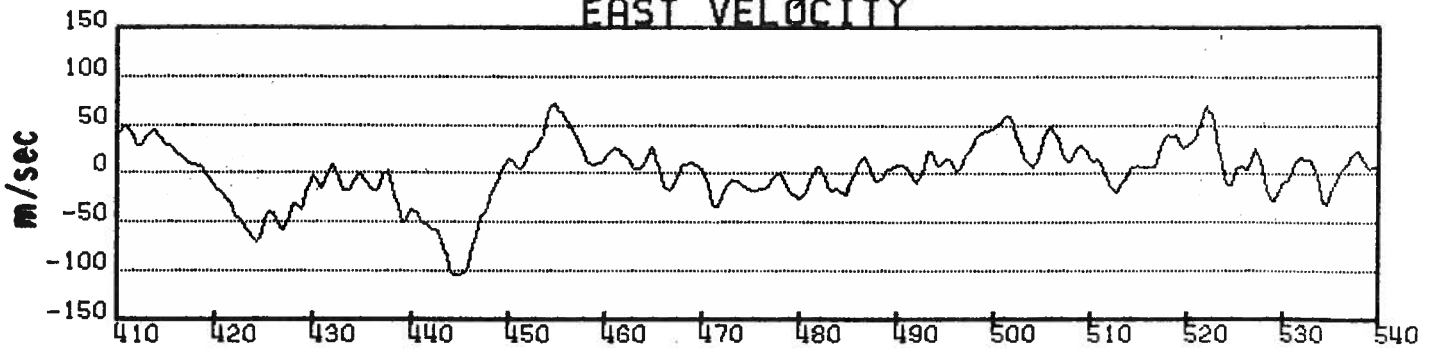


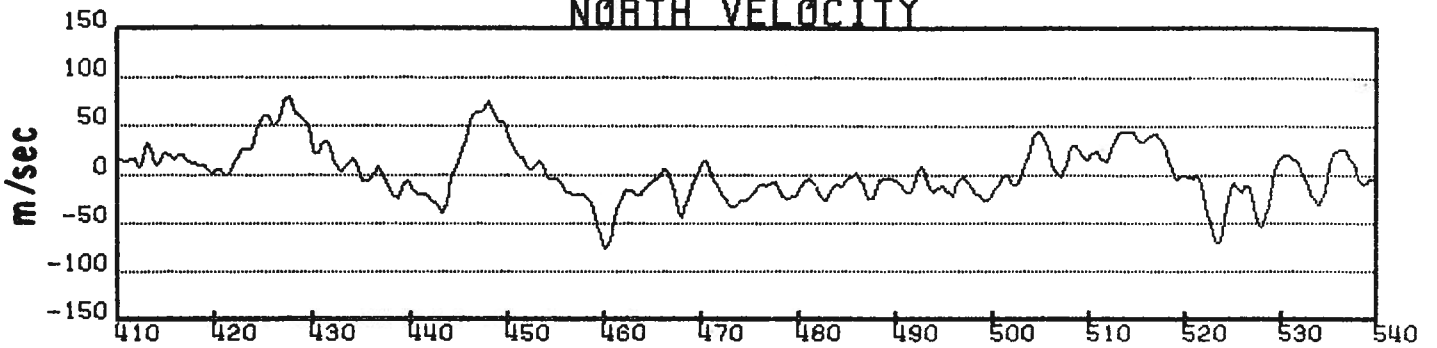
Figure 21. (Continued).

BUOY 2211

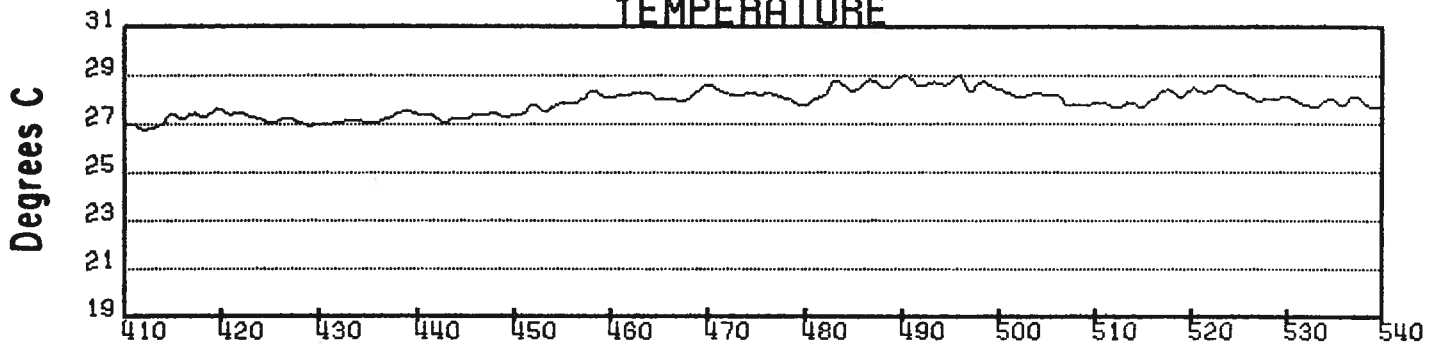
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

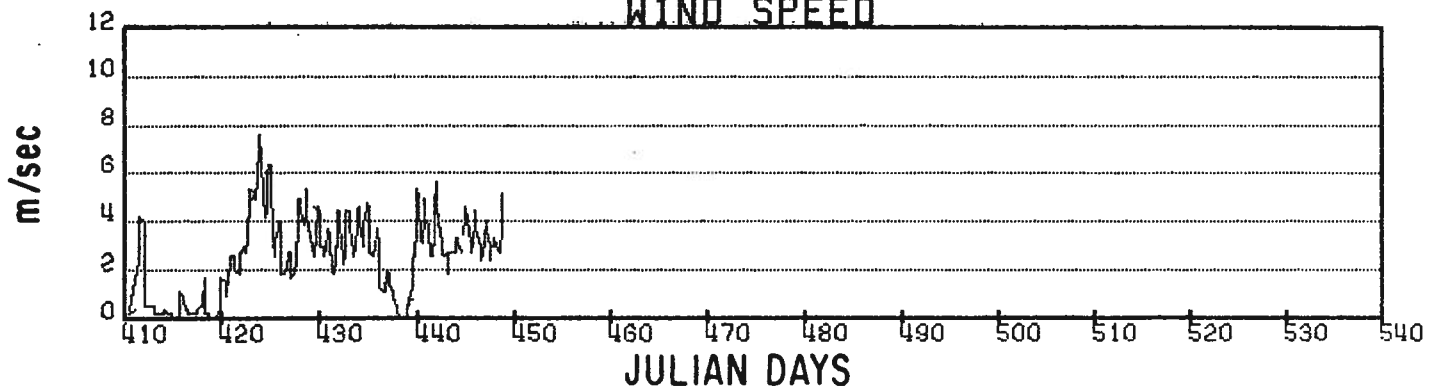
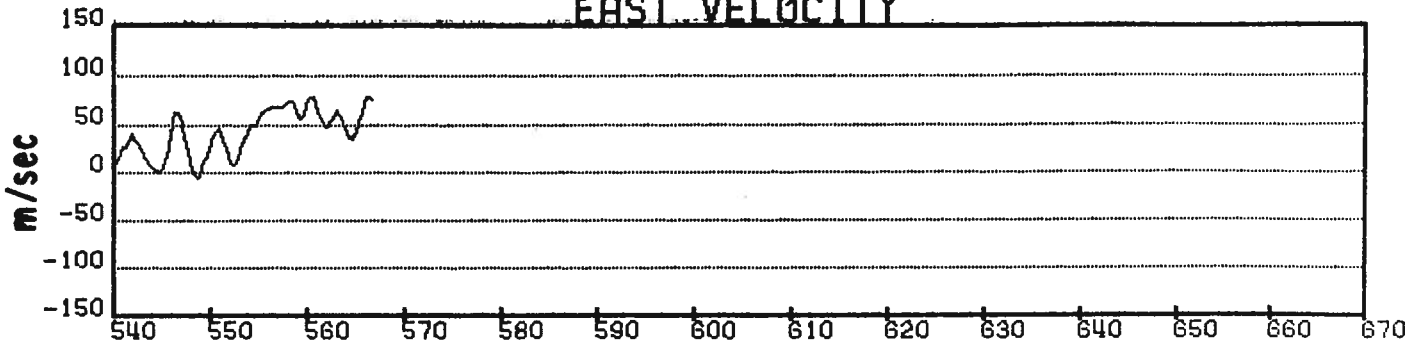


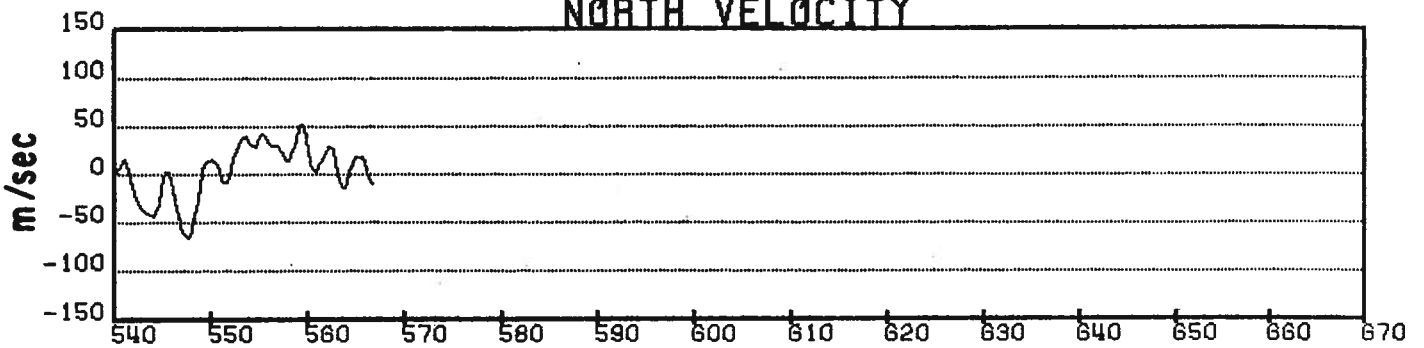
Figure 21. (Continued).

BUOY 2211

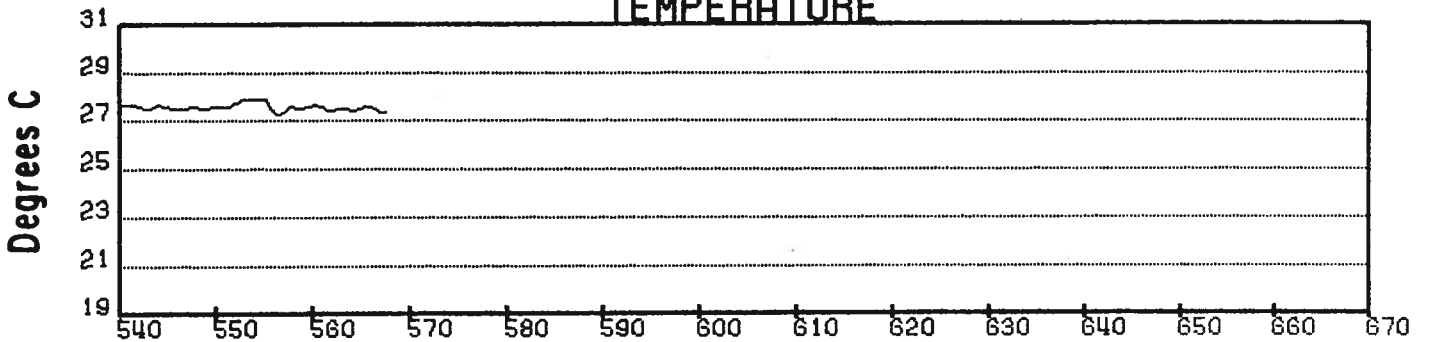
EAST VELOCITY



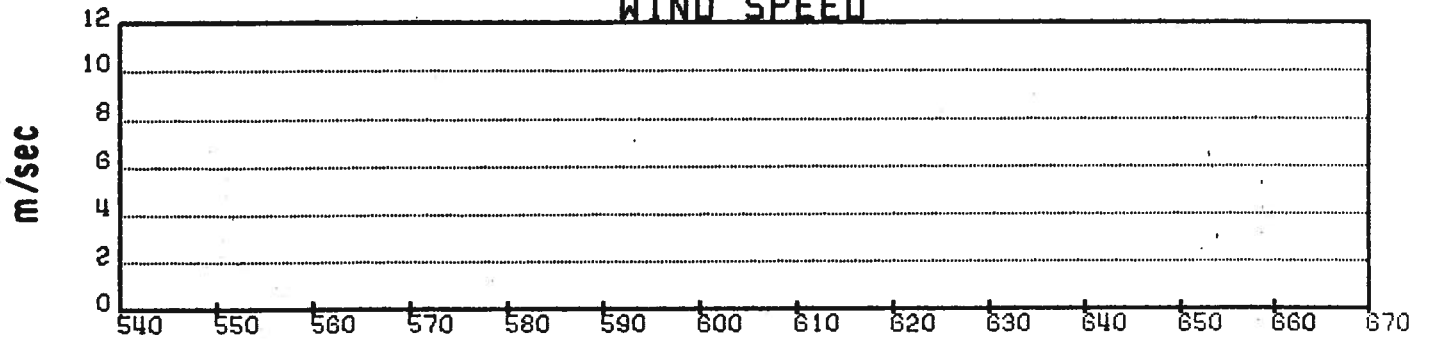
NORTH VELOCITY



TEMPERATURE

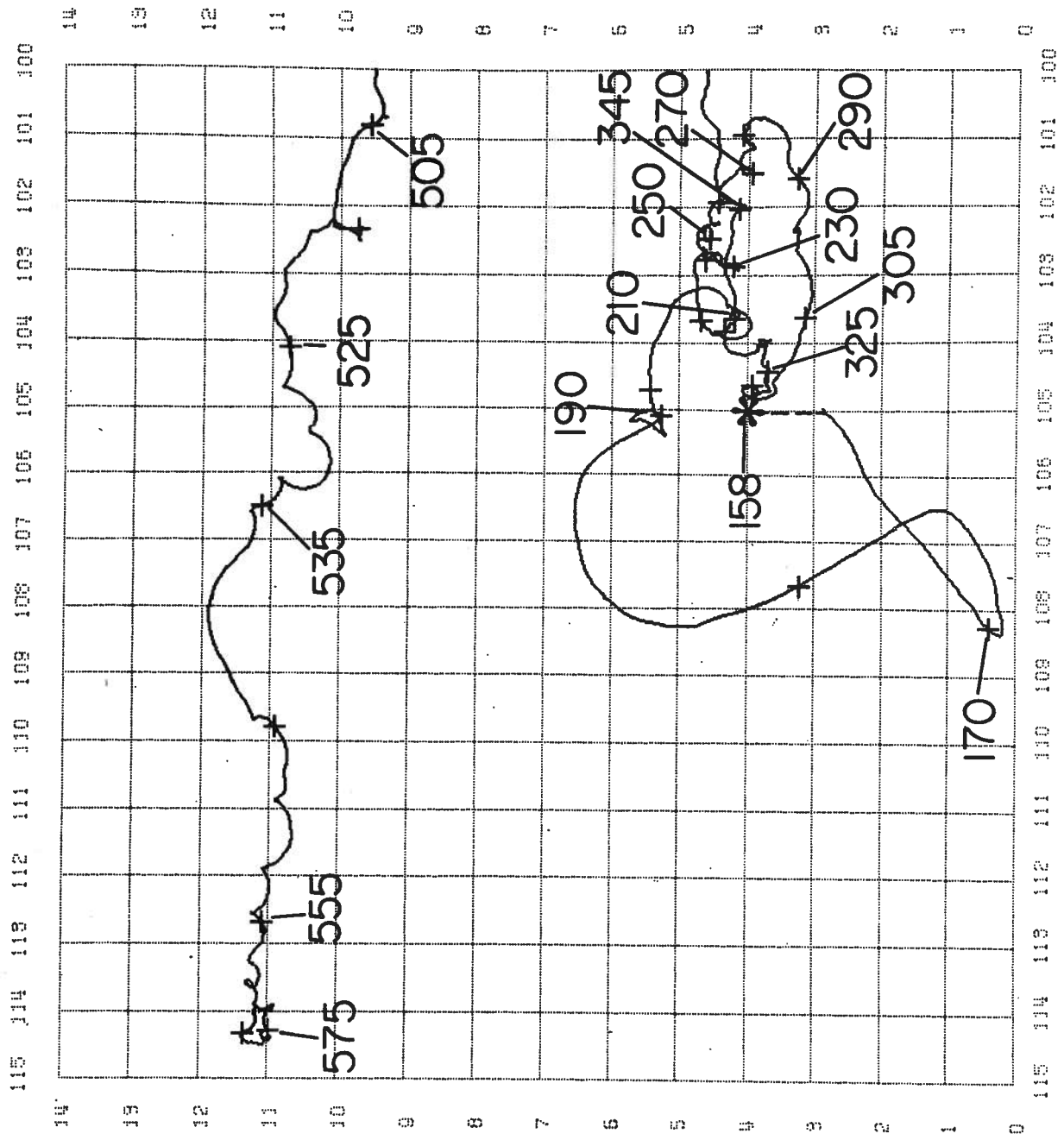


WIND SPEED



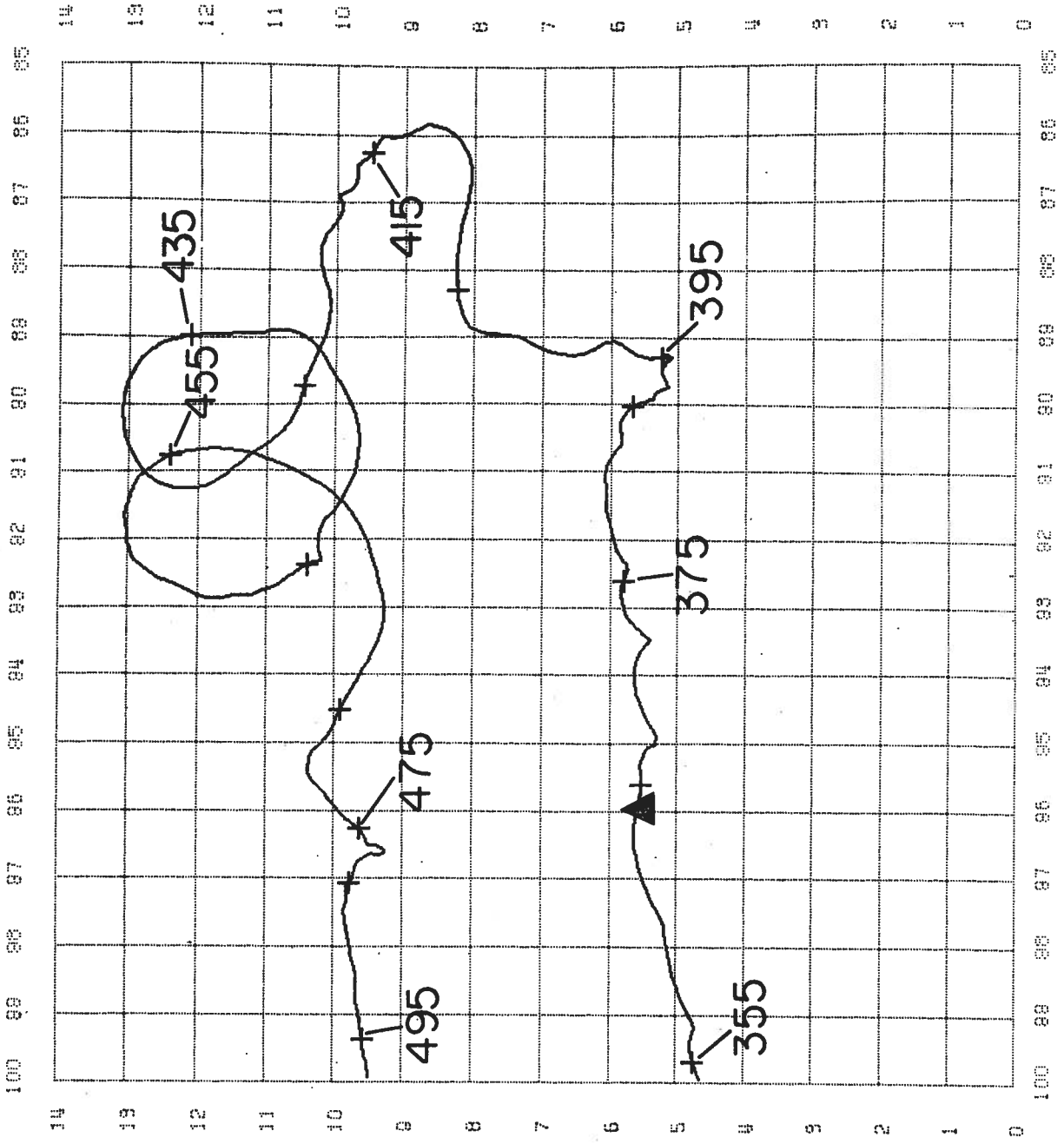
JULIAN DAYS

Figure 21. (Continued).



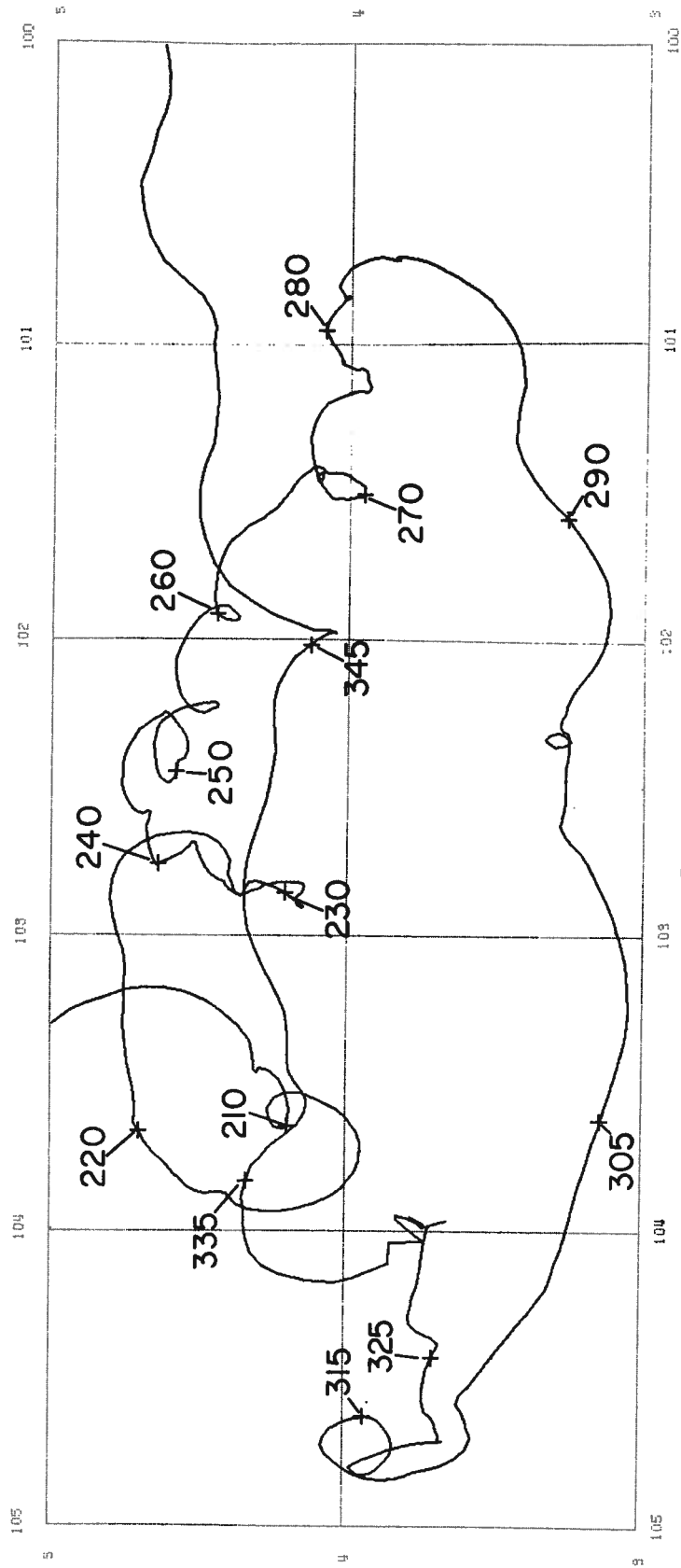
BUOY 2212

Figure 22. Trajectory of drifting buoy 2212.



BUOY 2212 Continued

Figure 22. (Continued).

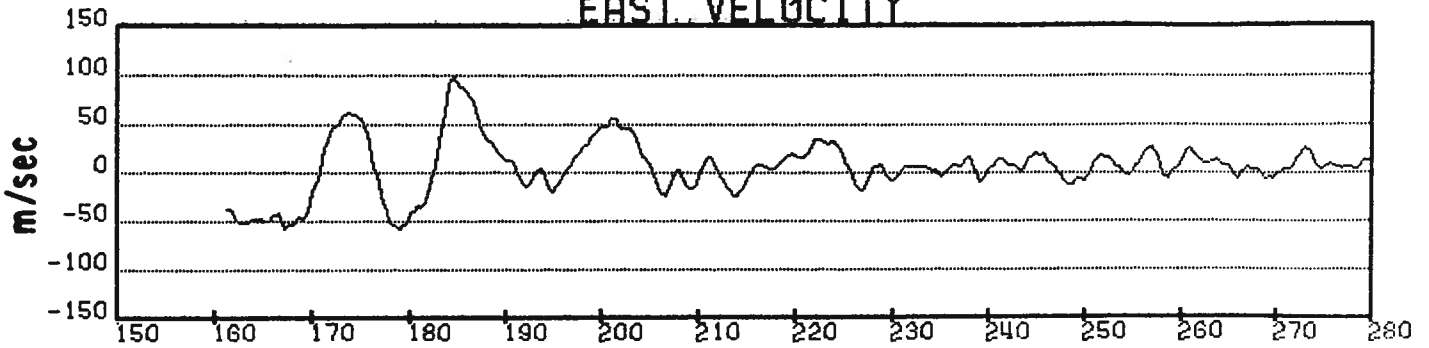


BUOY 2212

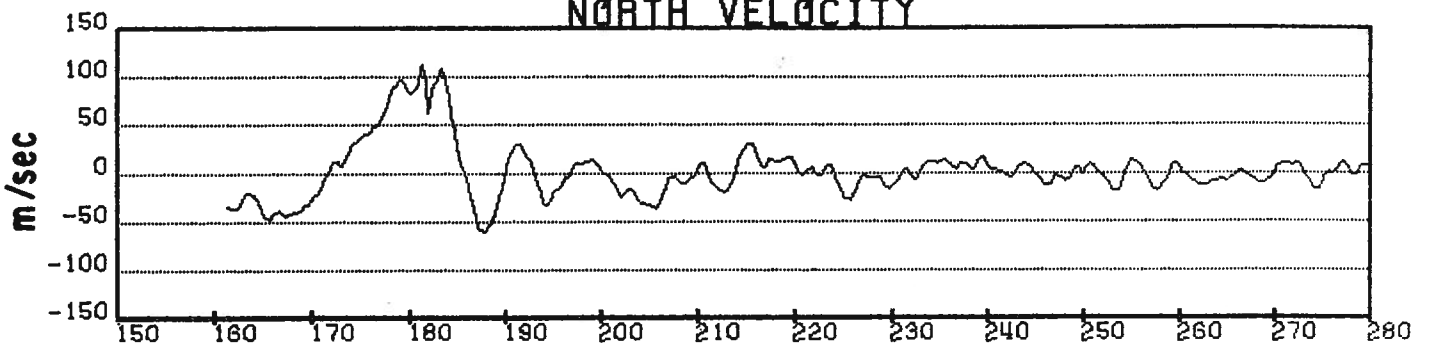
Figure 23. Trajectory detail for drifting buoy 2212.

BUOY 2212

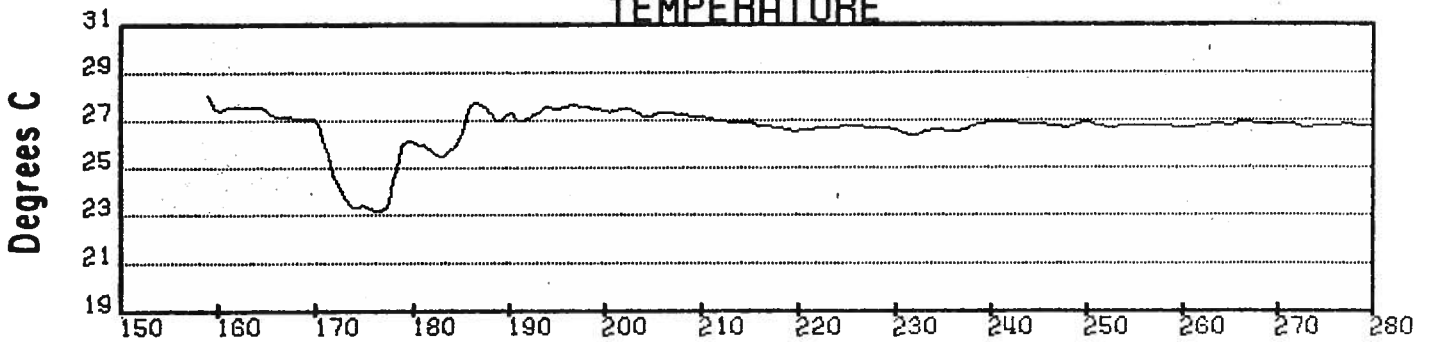
EAST VELOCITY



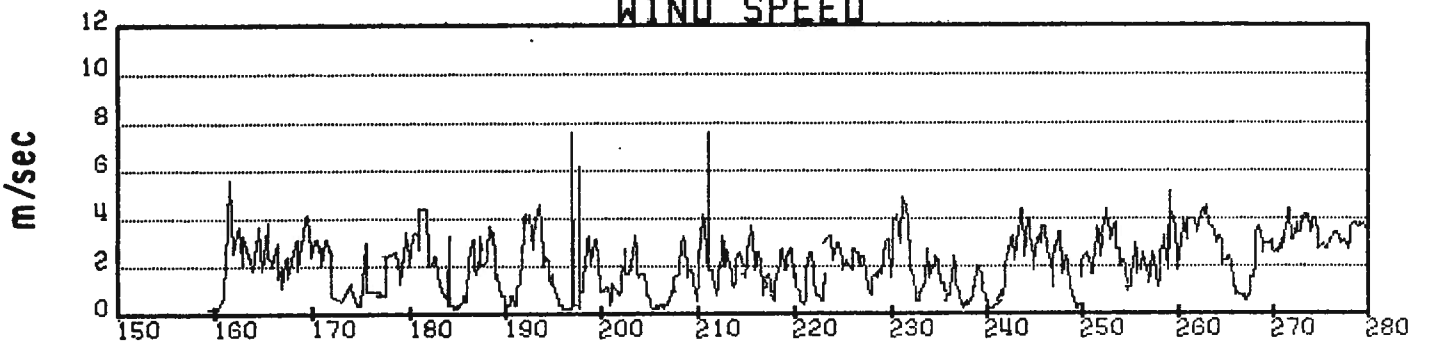
NORTH VELOCITY



TEMPERATURE



WIND SPEED

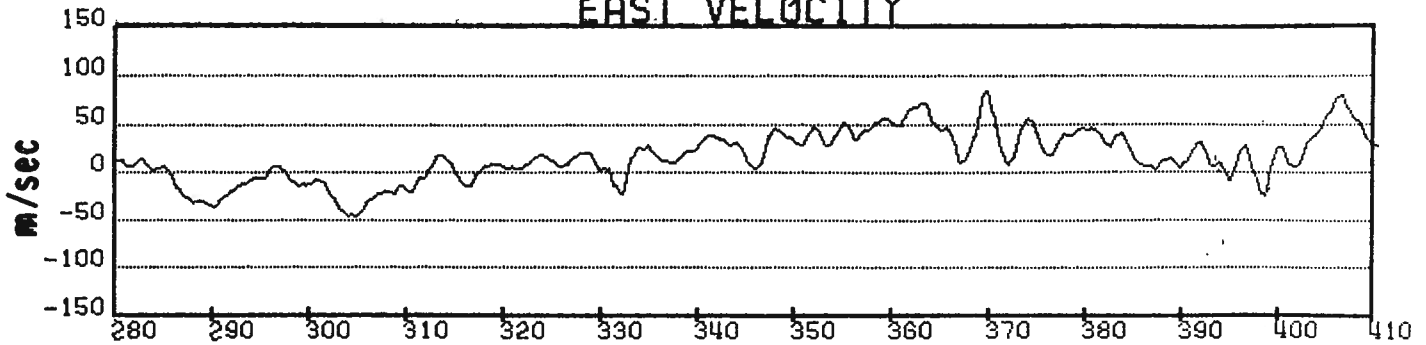


JULIAN DAYS

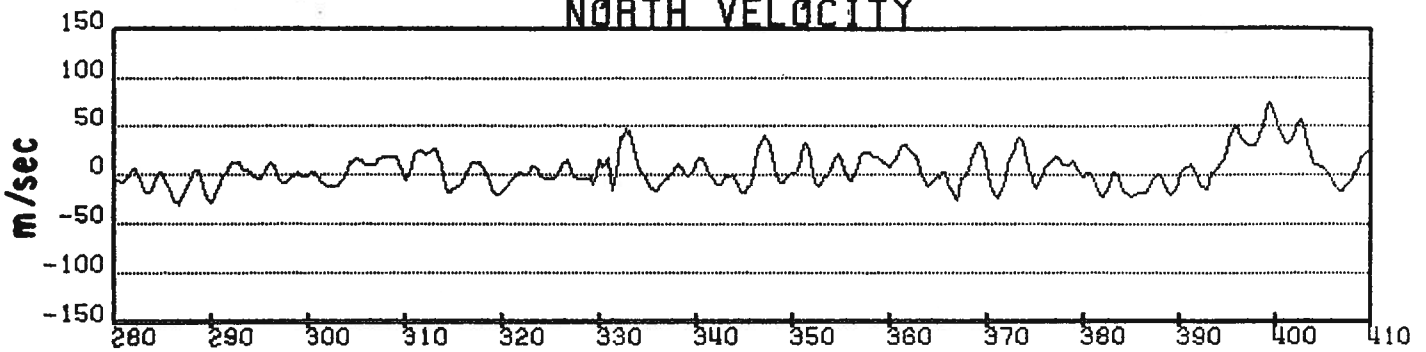
Figure 24. Time series of velocity and sensor data for drifting buoy 2212.

BUOY 2212

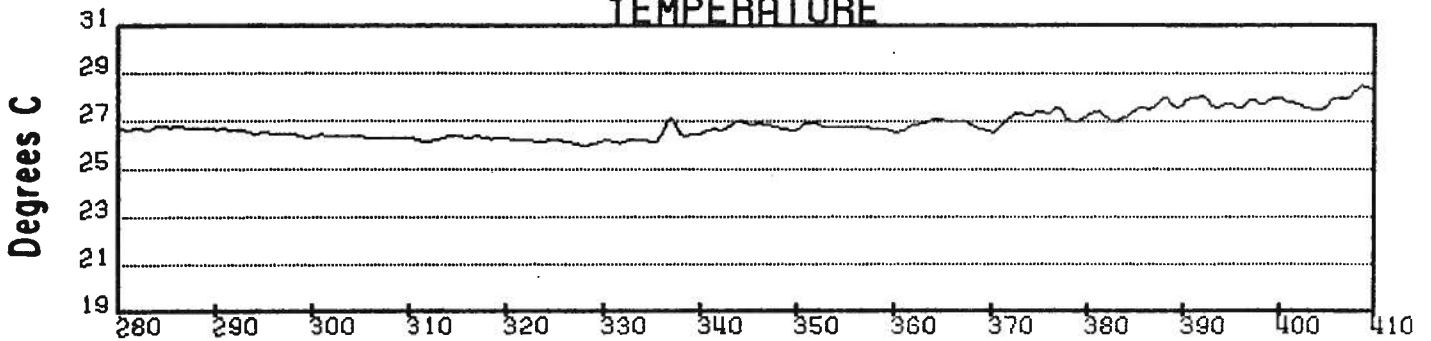
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

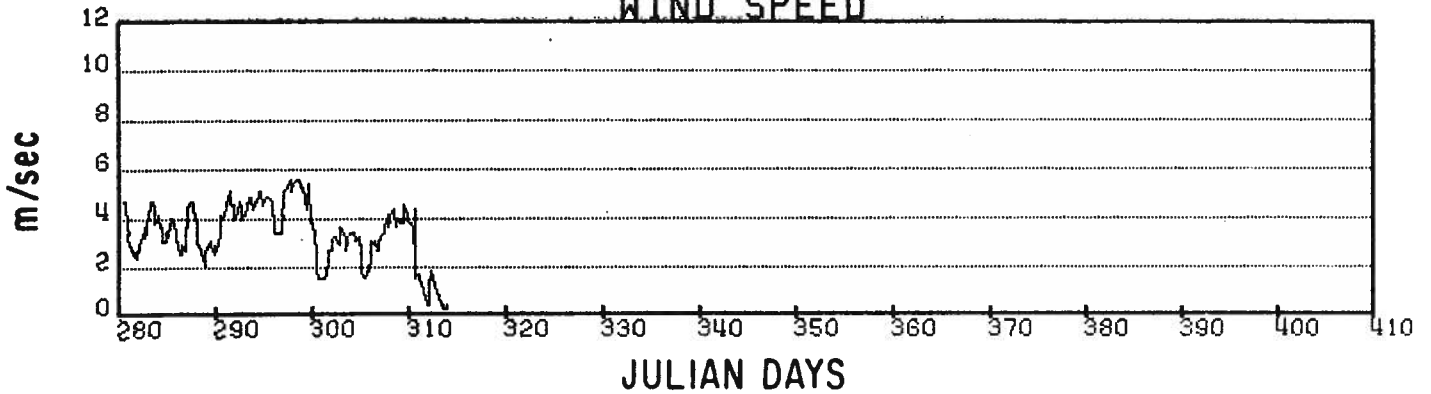
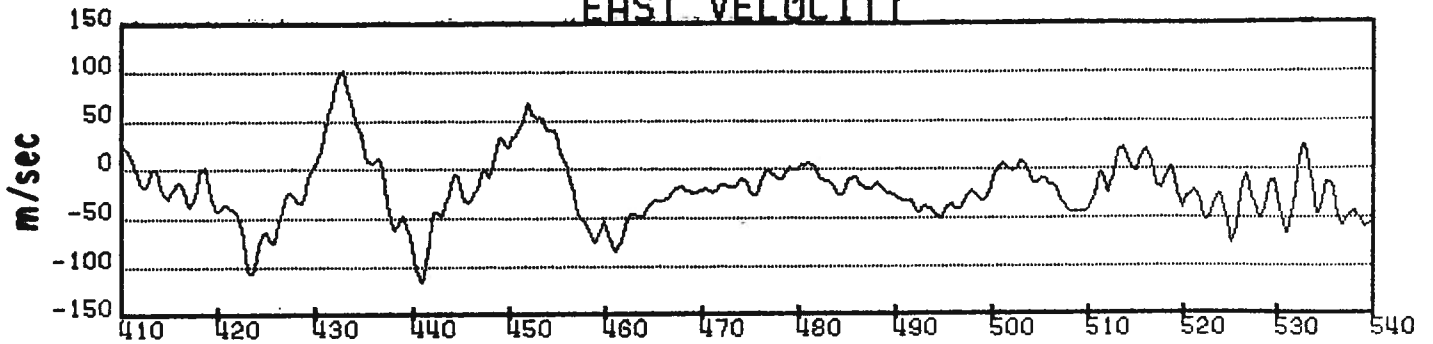


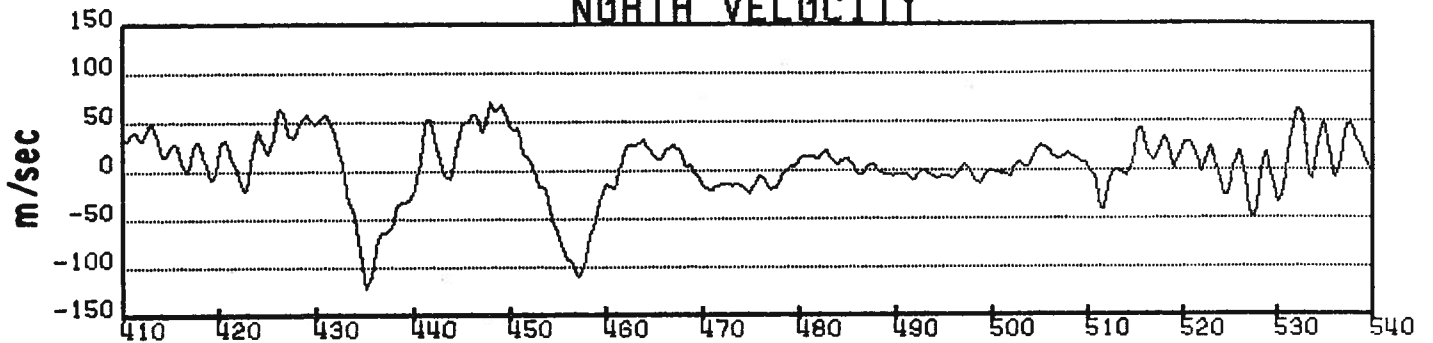
Figure 24. (Continued).

BUOY 2212

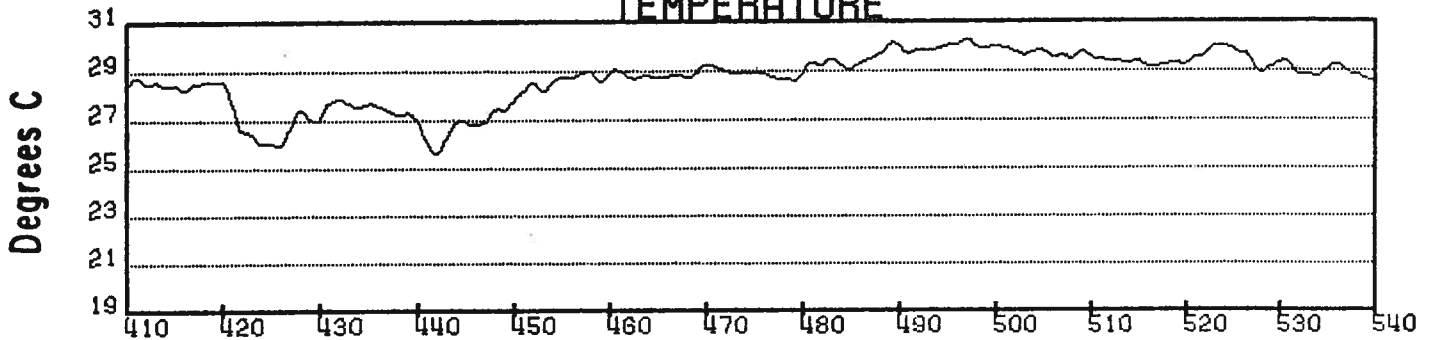
EAST VELOCITY



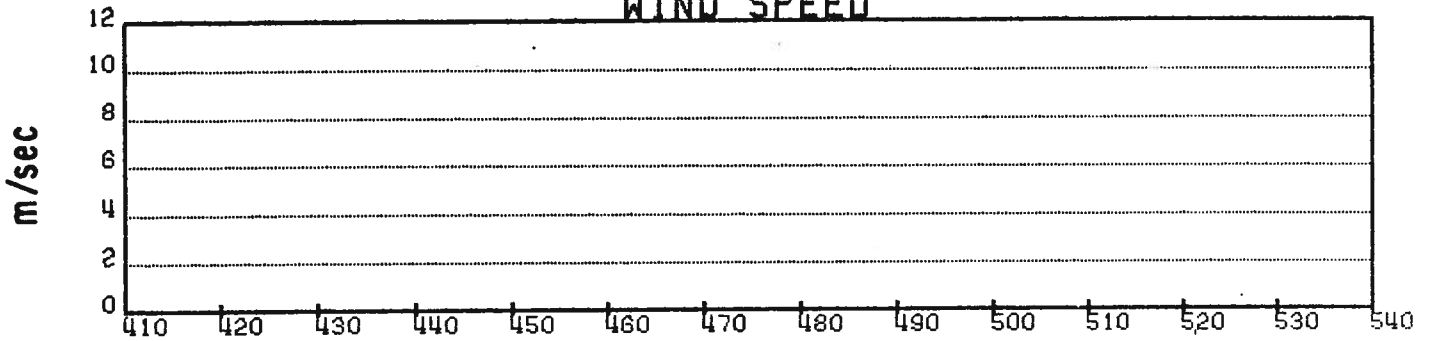
NORTH VELOCITY



TEMPERATURE



WIND SPEED

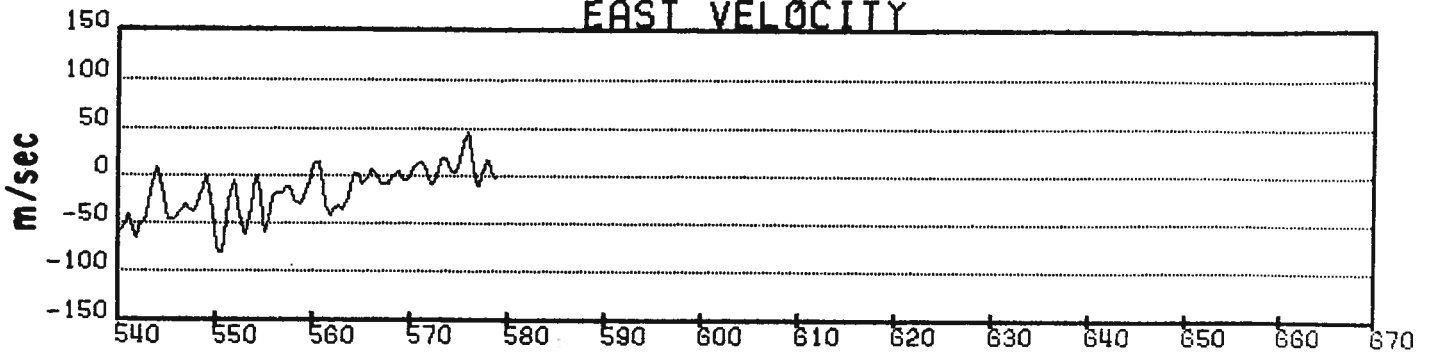


JULIAN DAYS

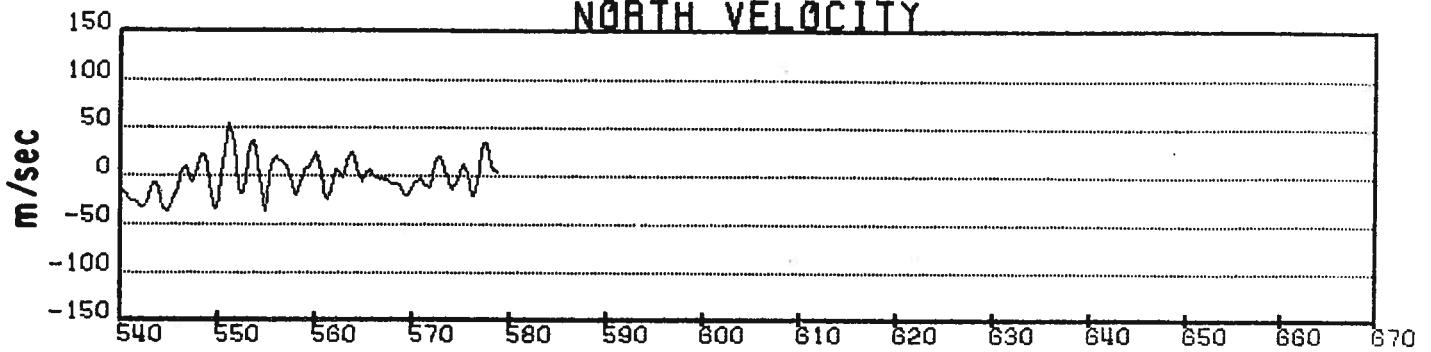
Figure 24. (Continued).

BUOY 2212

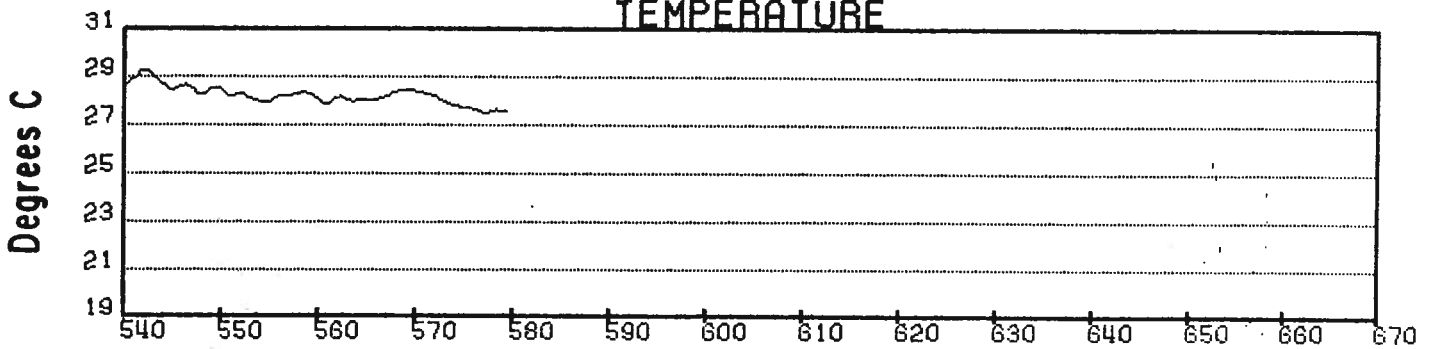
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

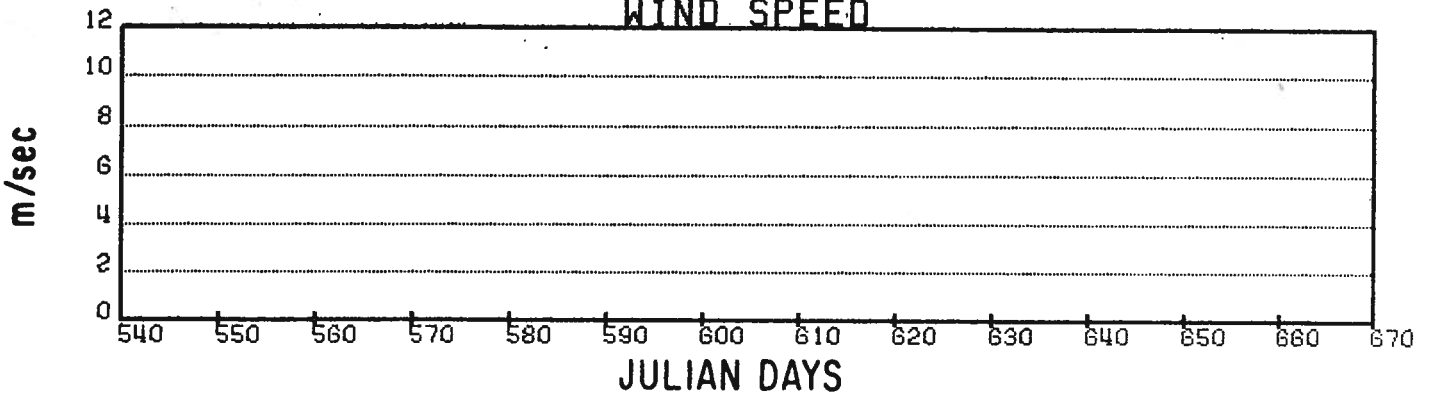
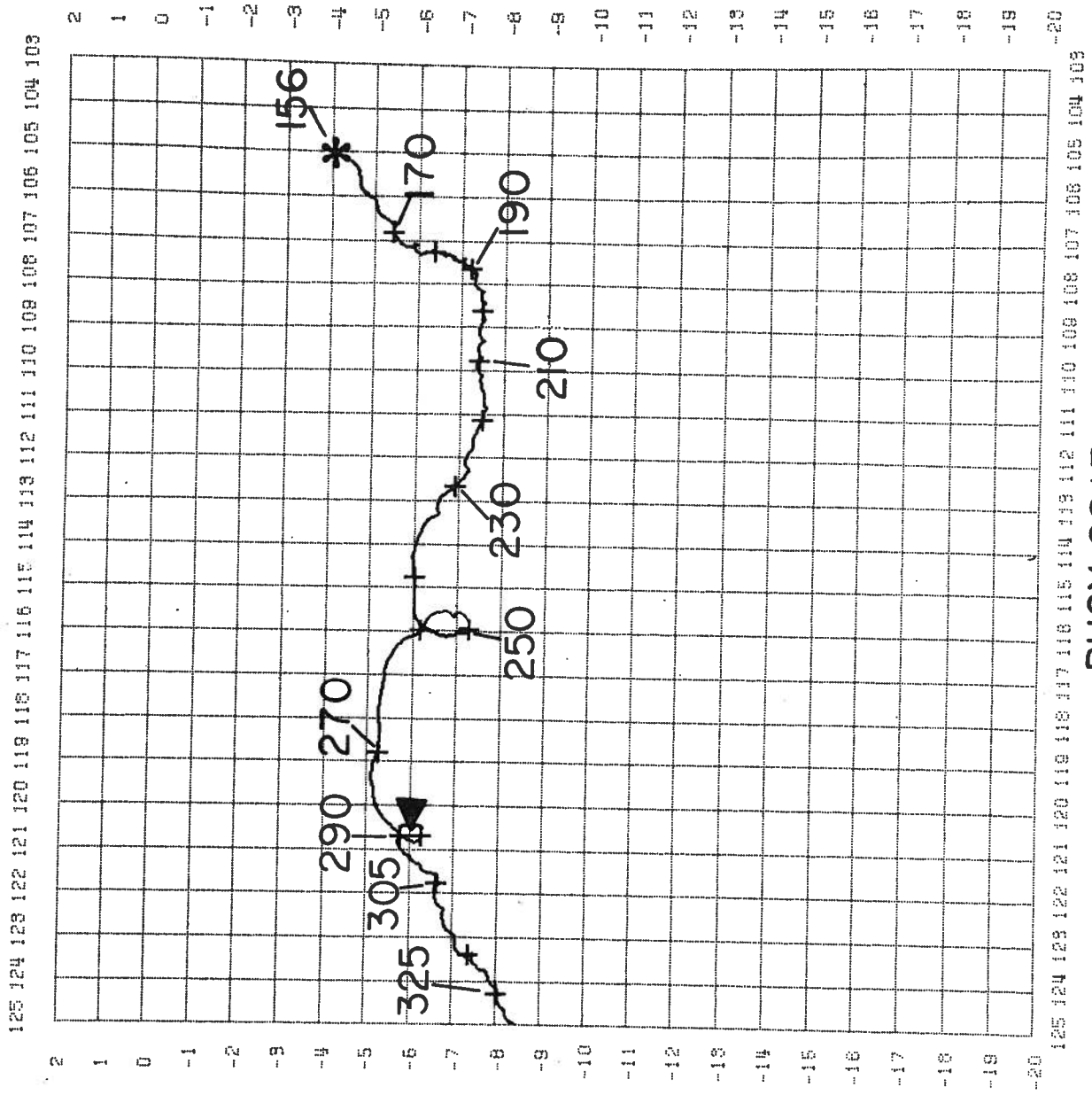


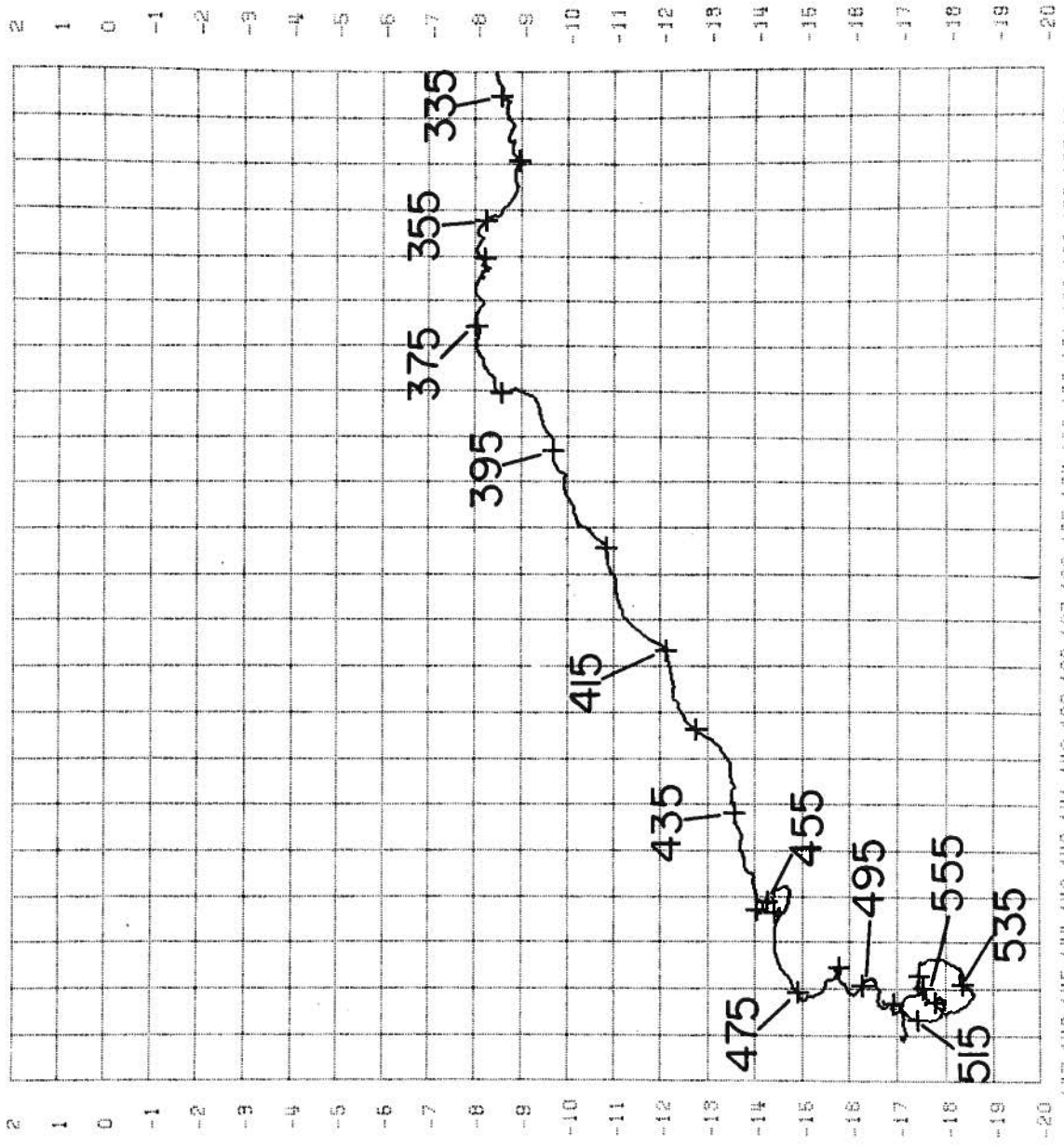
Figure 24. (Continued).



BUOY 2213

Figure 25. Trajectory of drifting buoy 2213.

147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125



BUOY 2213 Continued

Figure 25. (Continued).

BUOY 2213

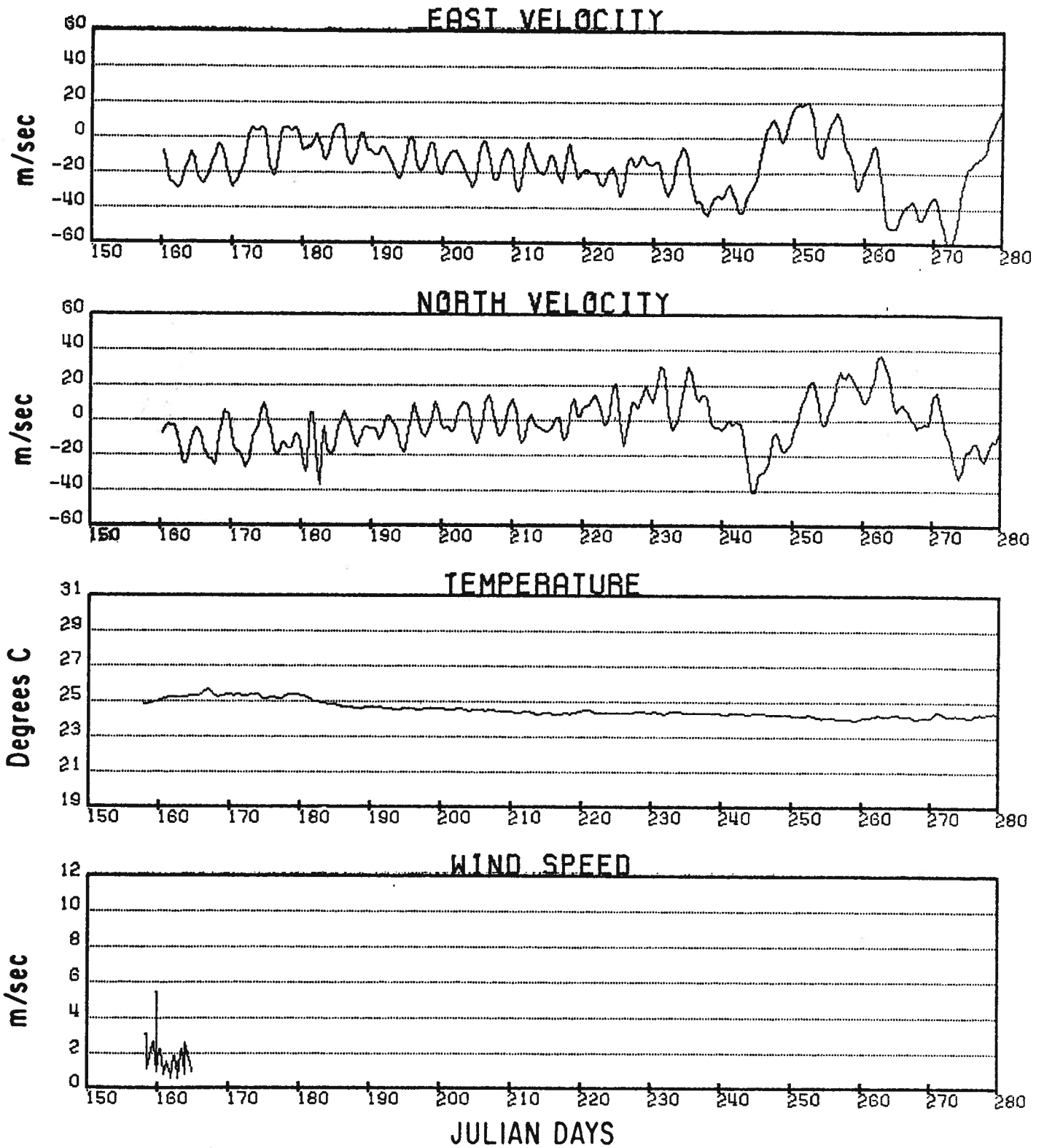
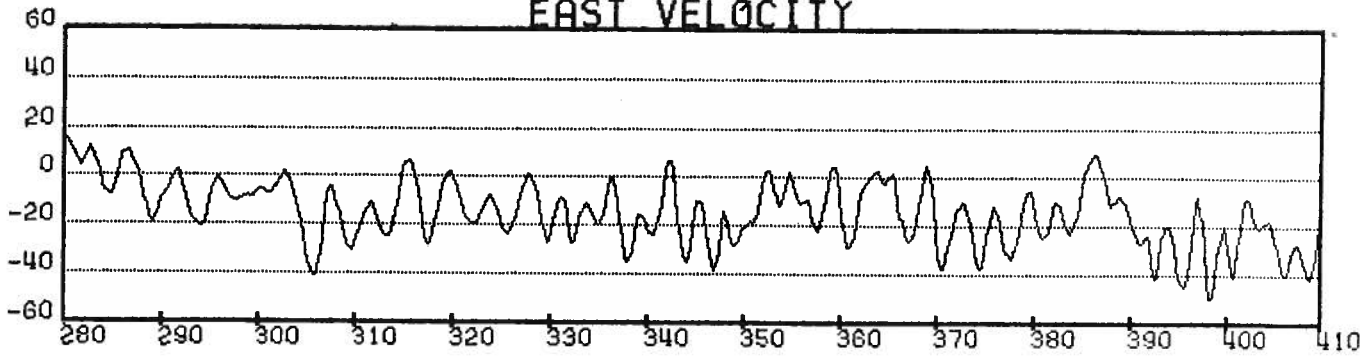


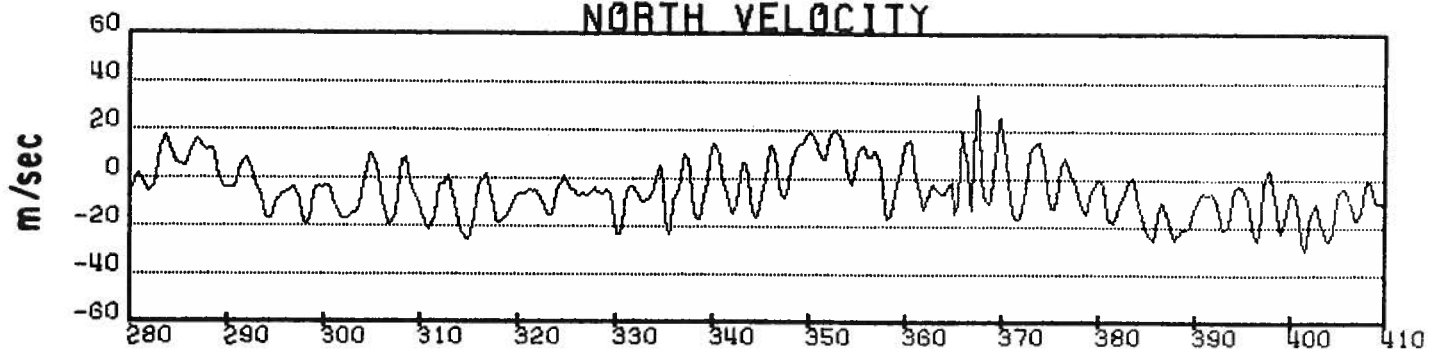
Figure 26. Time series of velocity and sensor data for drifting buoy 2213.

BUOY 2213

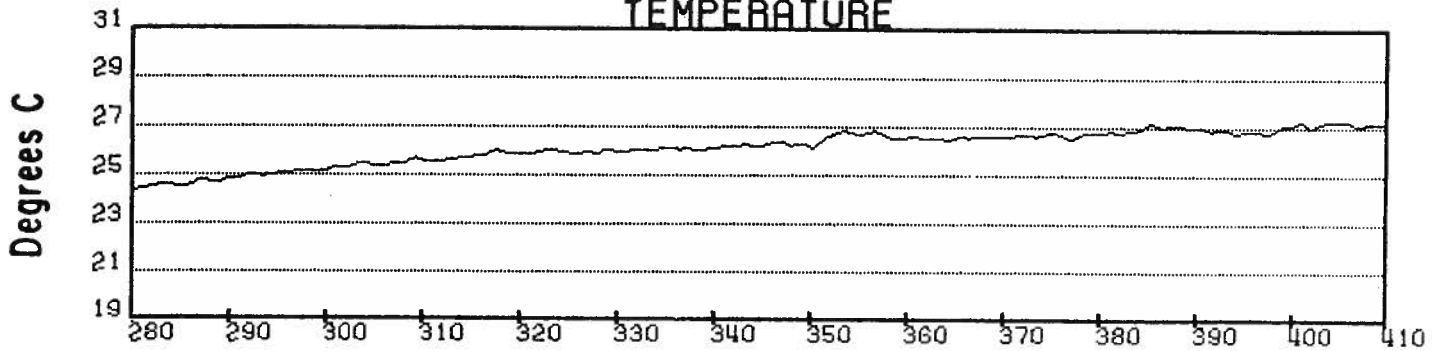
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

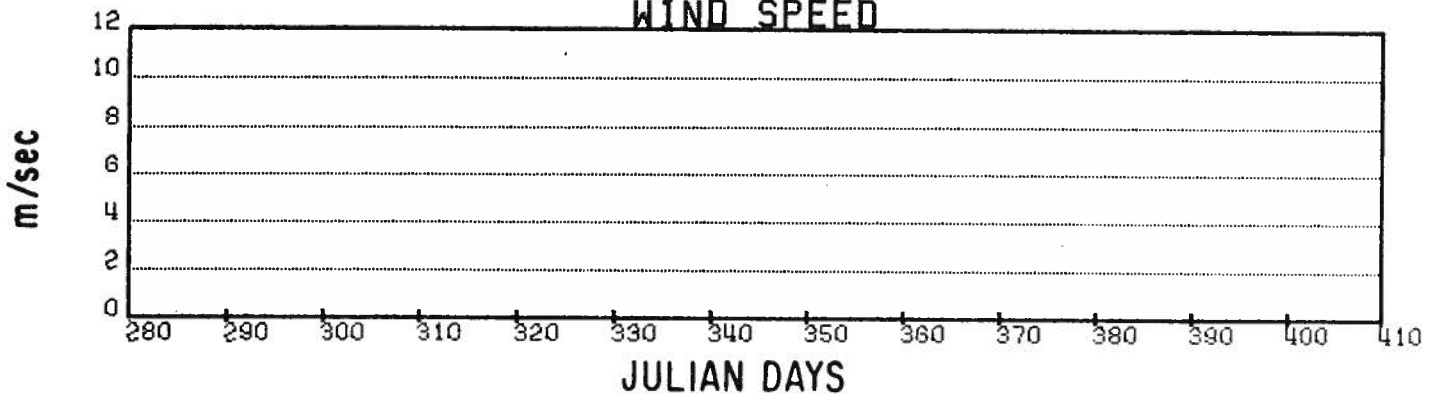
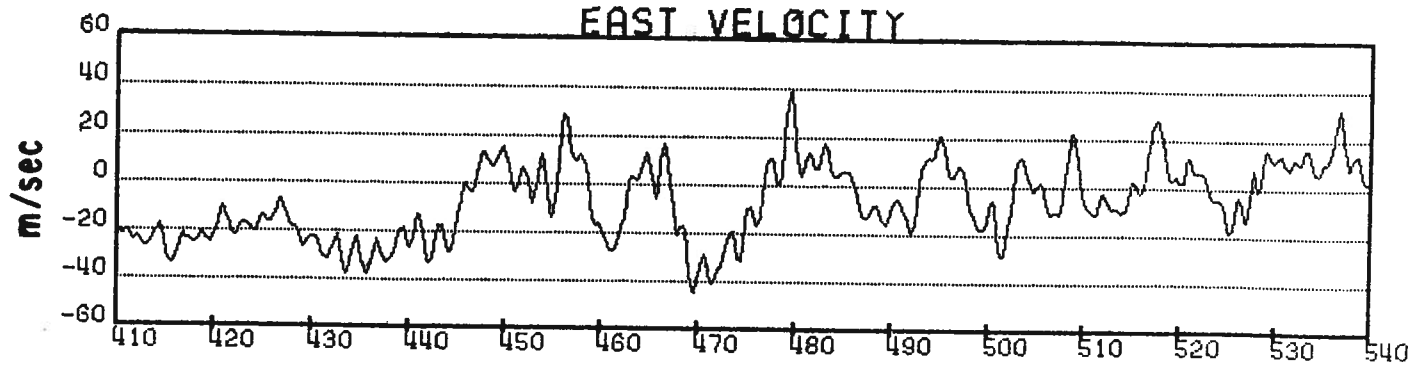


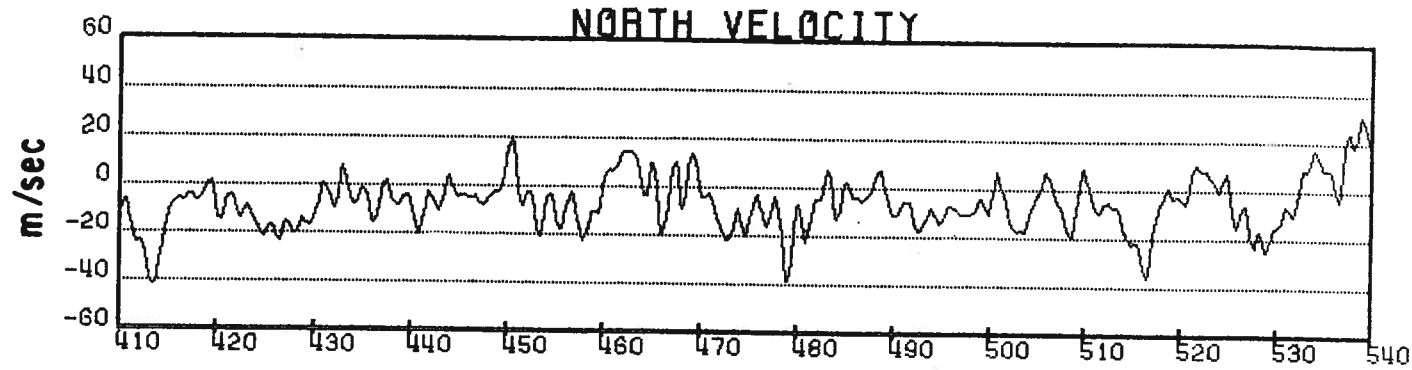
Figure 26. (Continued).

BUOY 2213

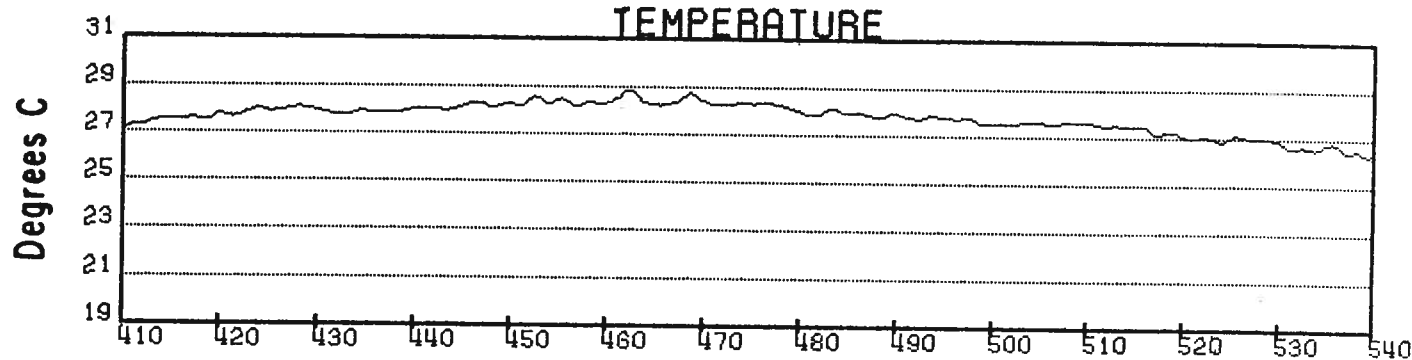
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

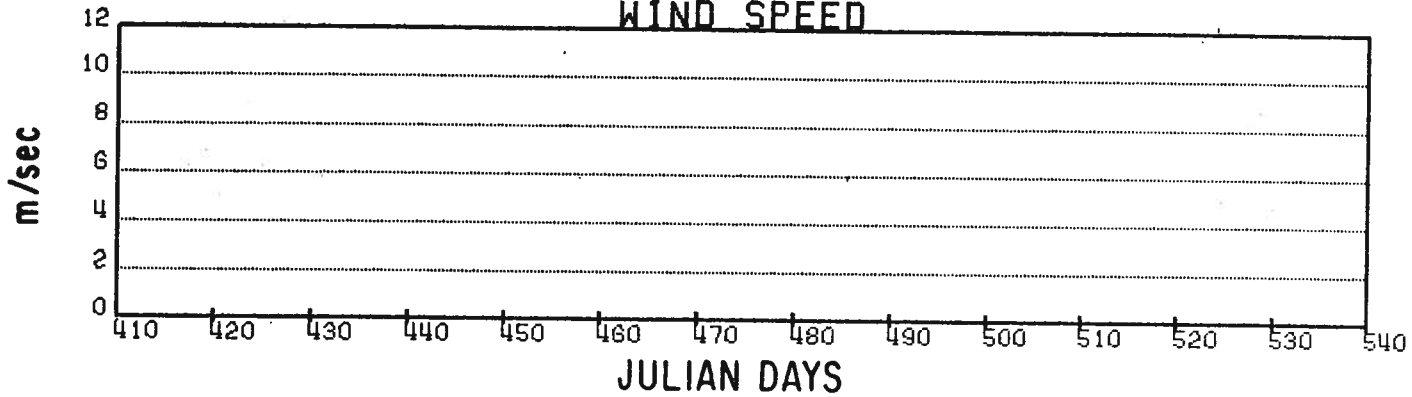
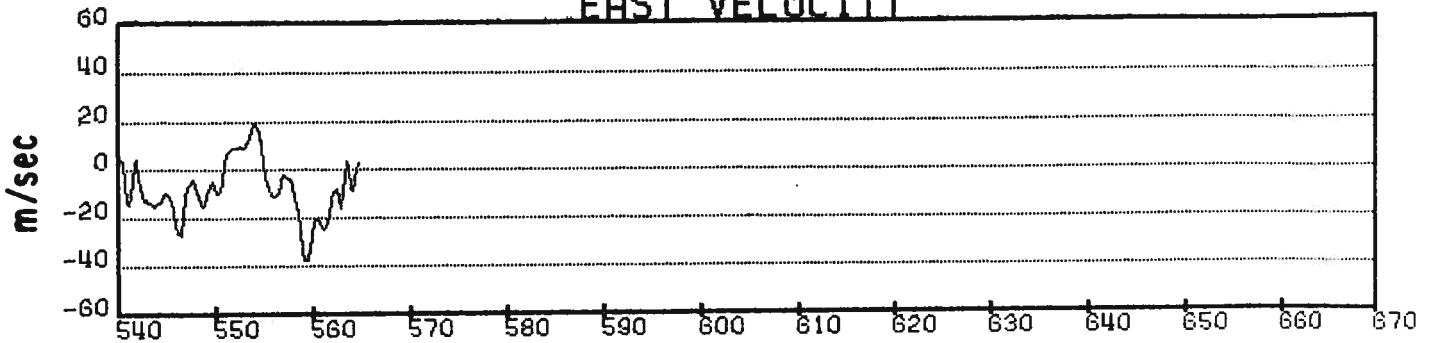


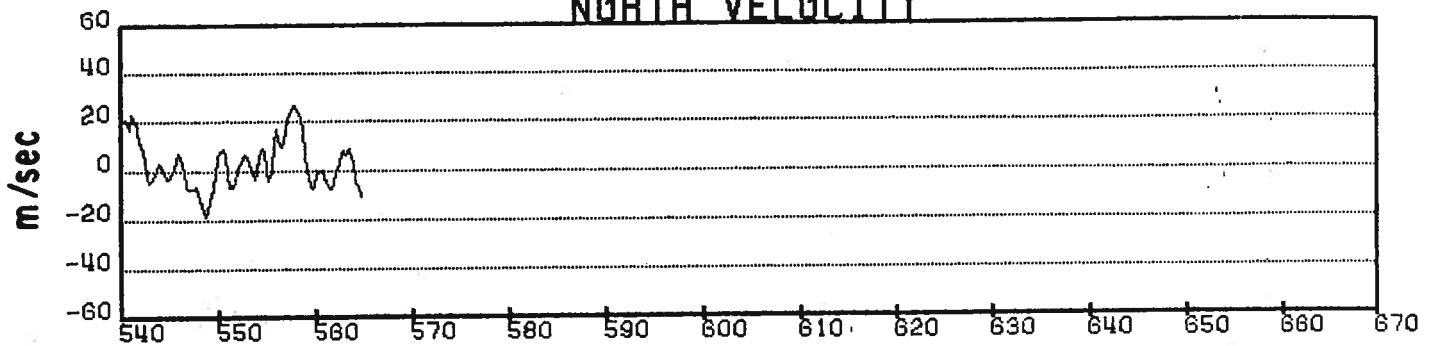
Figure 26. (Continued).

BUOY 2213

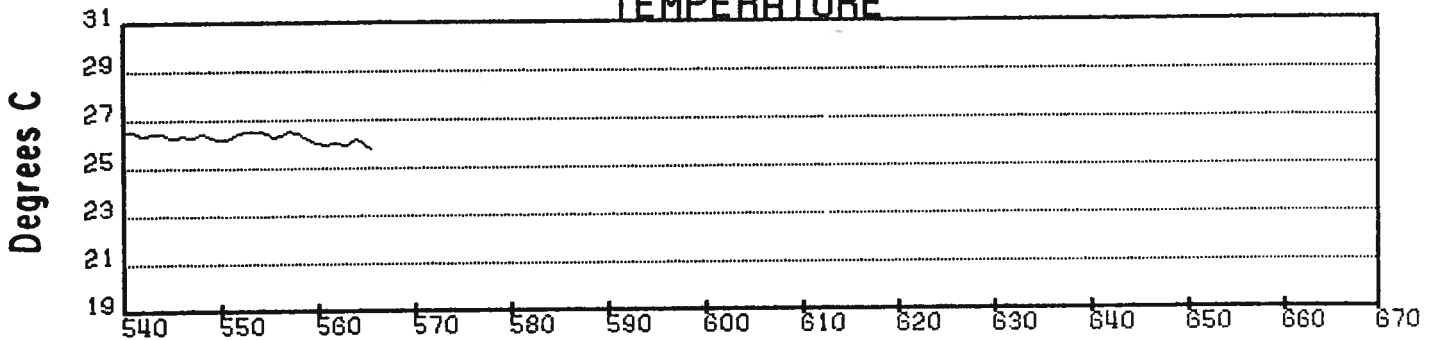
EAST VELOCITY



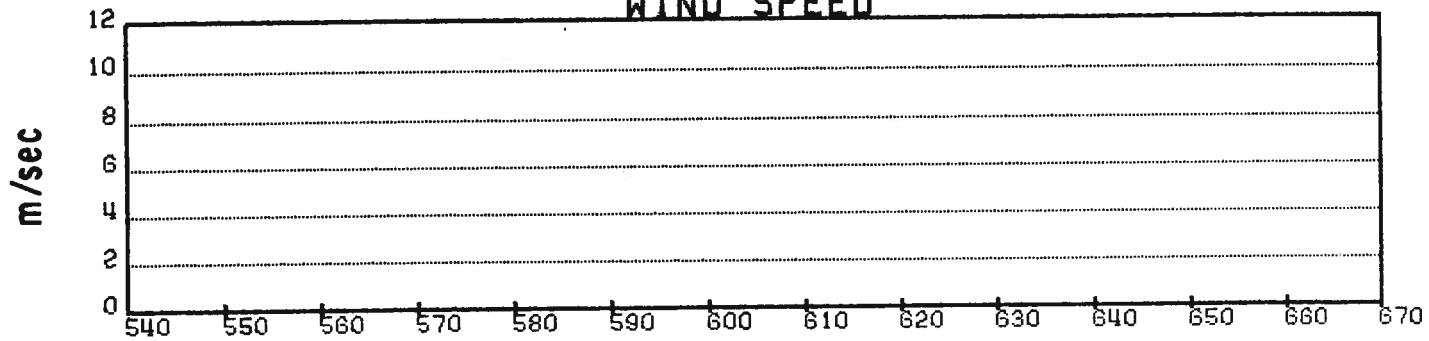
NORTH VELOCITY



TEMPERATURE

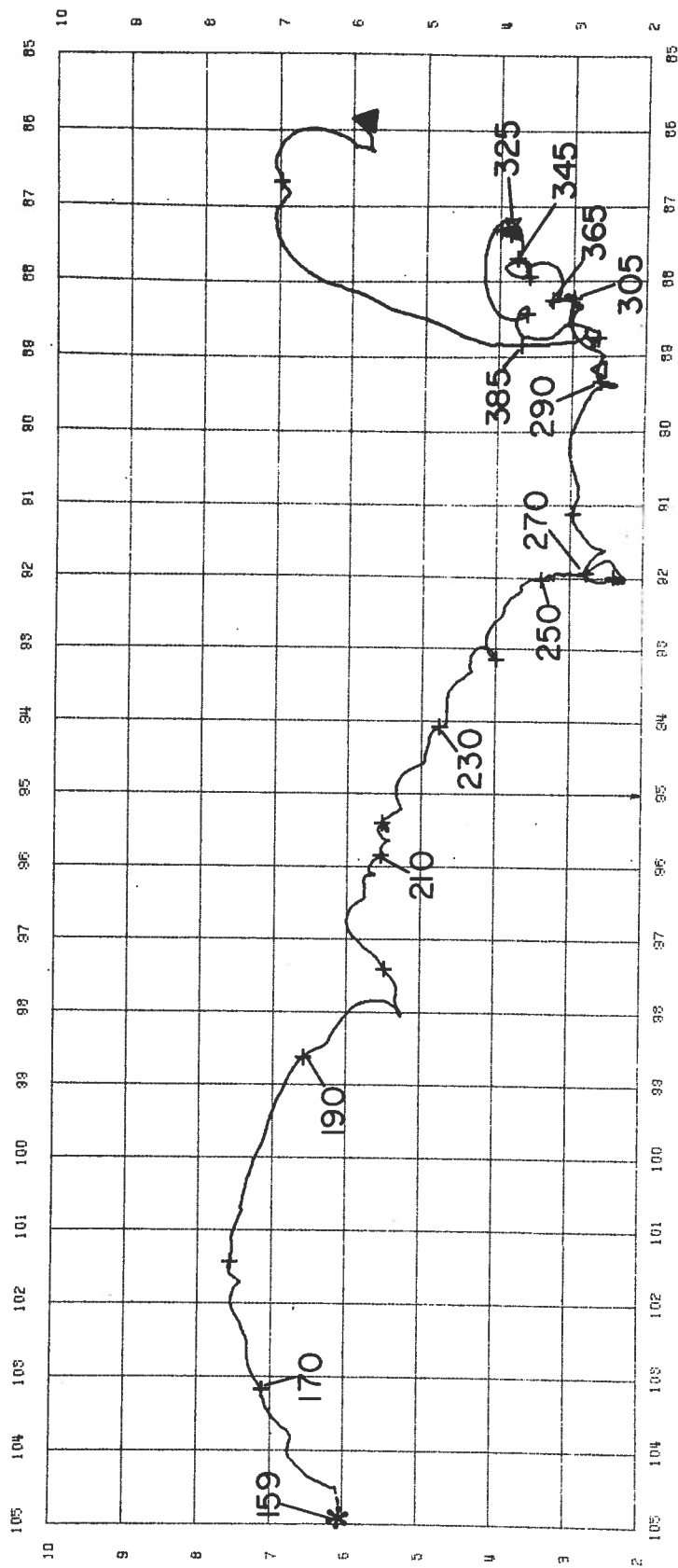


WIND SPEED



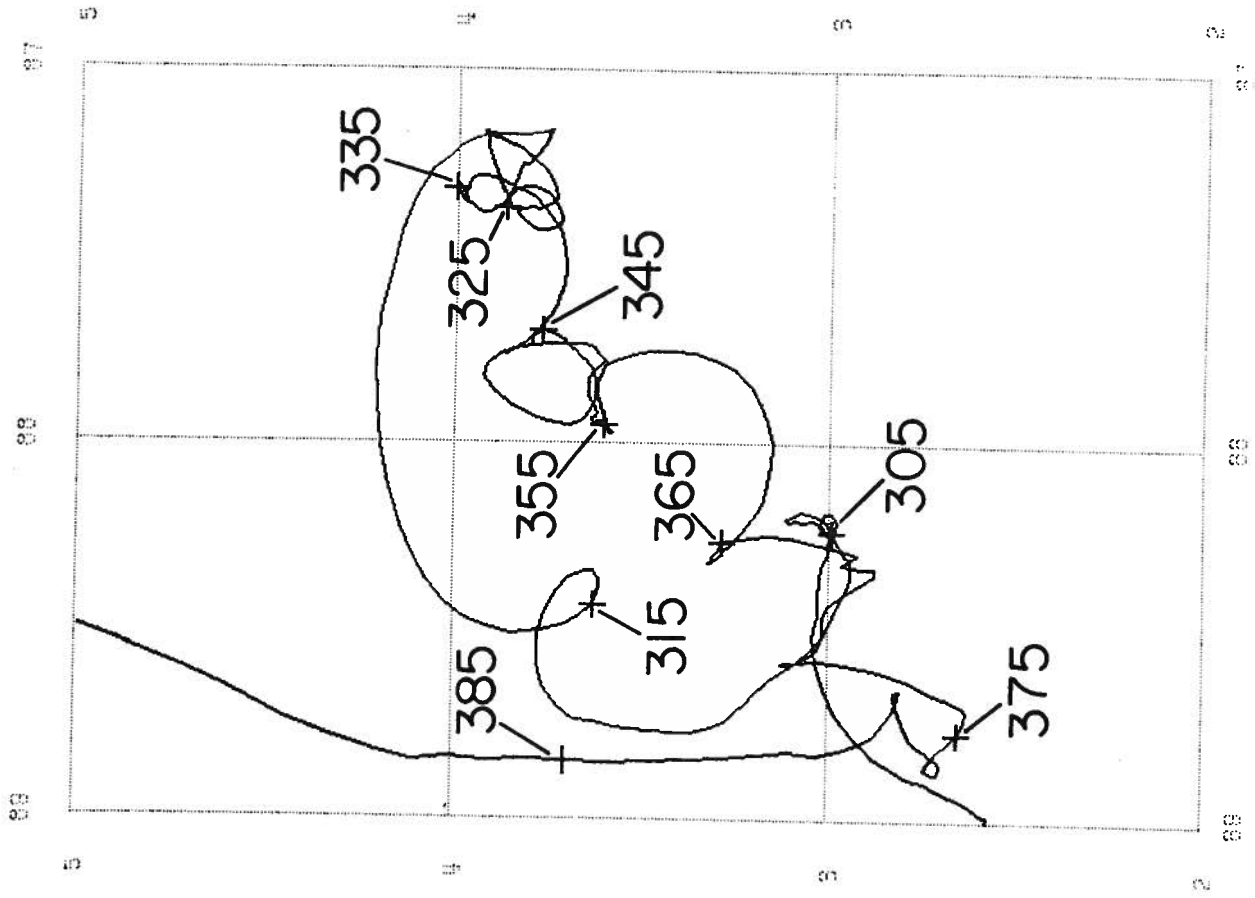
JULIAN DAYS

Figure 26. (Continued).



BUOY 2214

Figure 27. Trajectory of drifting buoy 2214.



BUOY 2214

Figure 28. Trajectory detail for drifting buoy 2214.

BUOY 2214

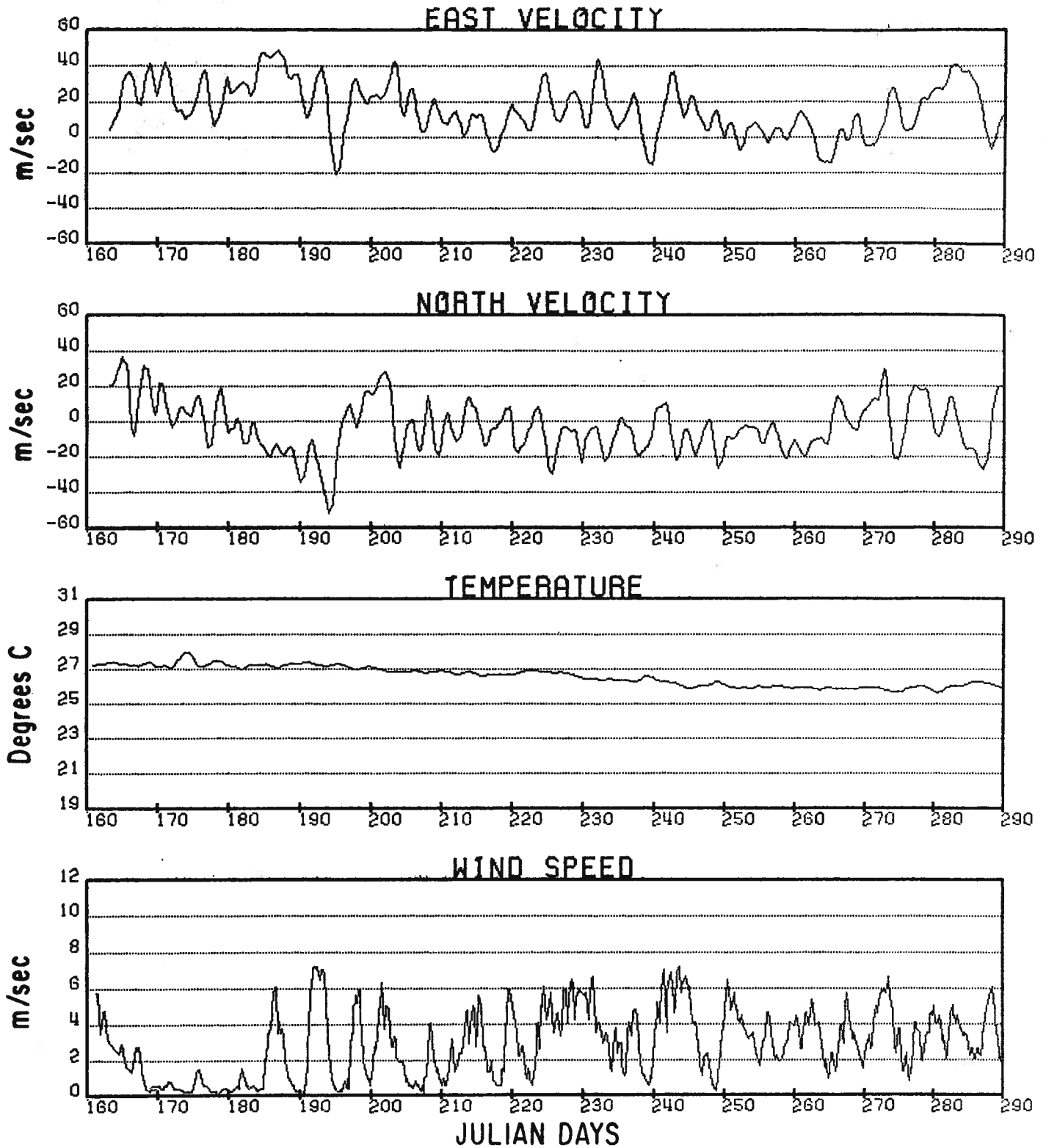
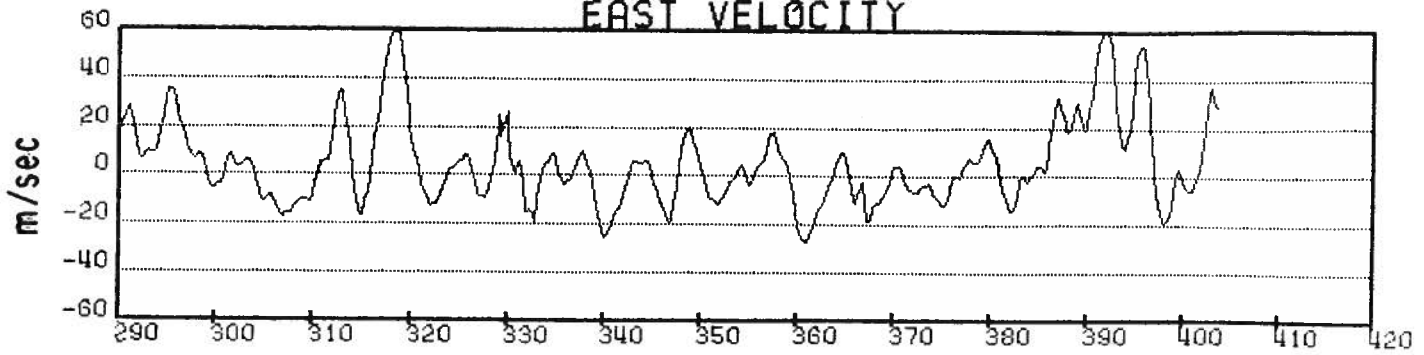


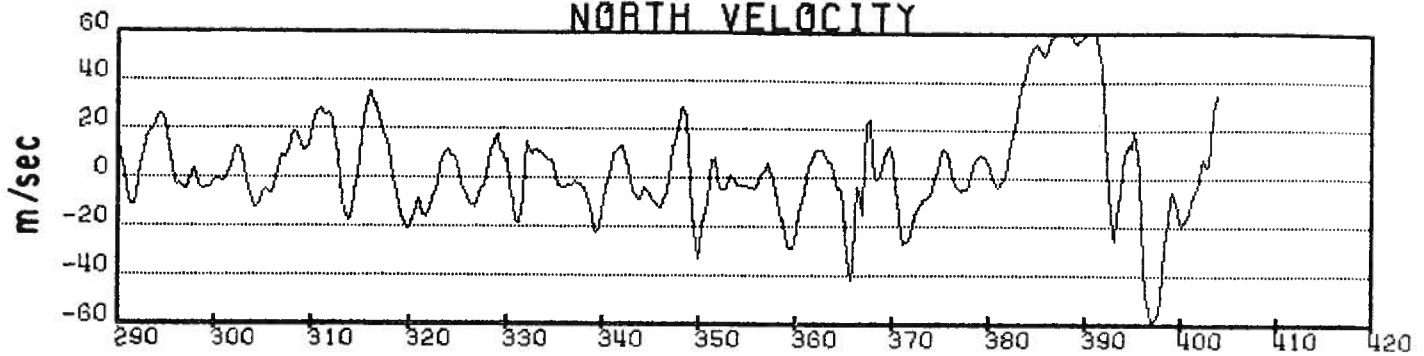
Figure 29. Time series of velocity and sensor data for drifting buoy 2214.

BUOY 2214

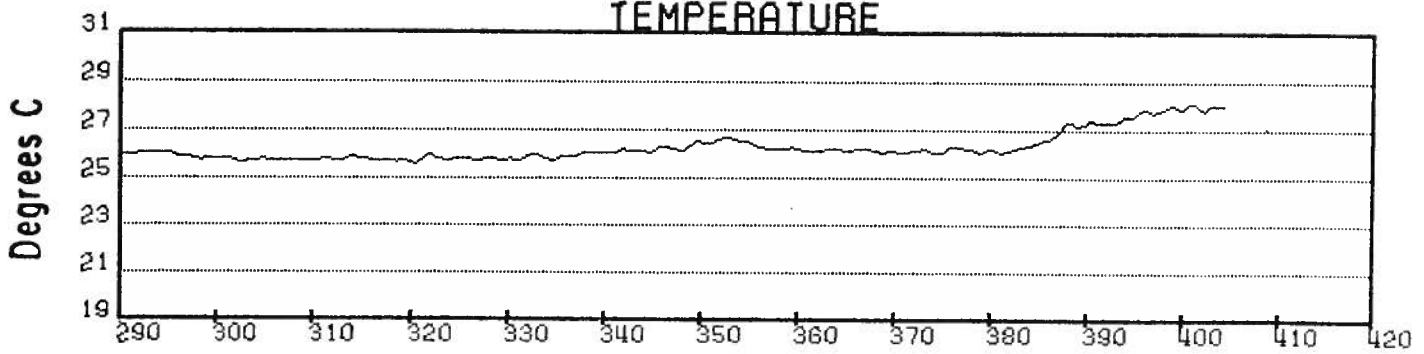
EAST VELOCITY



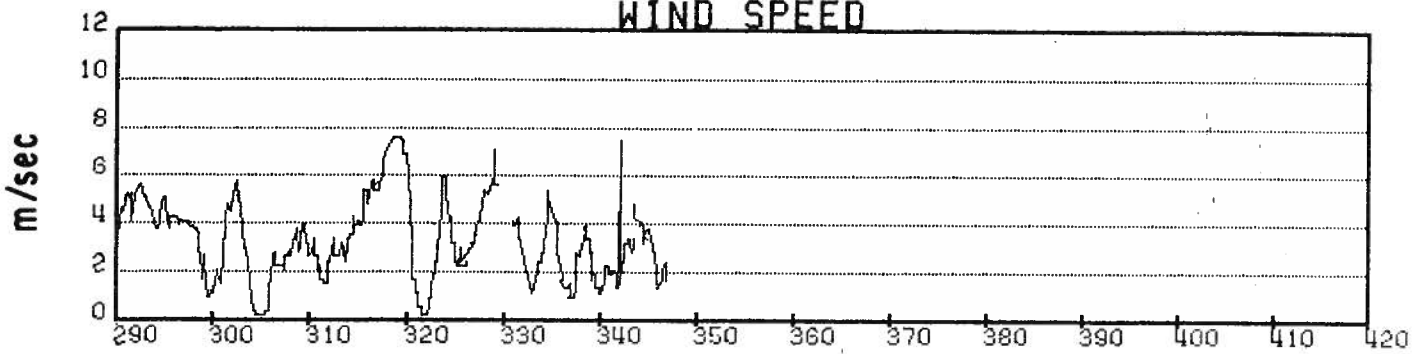
NORTH VELOCITY



TEMPERATURE



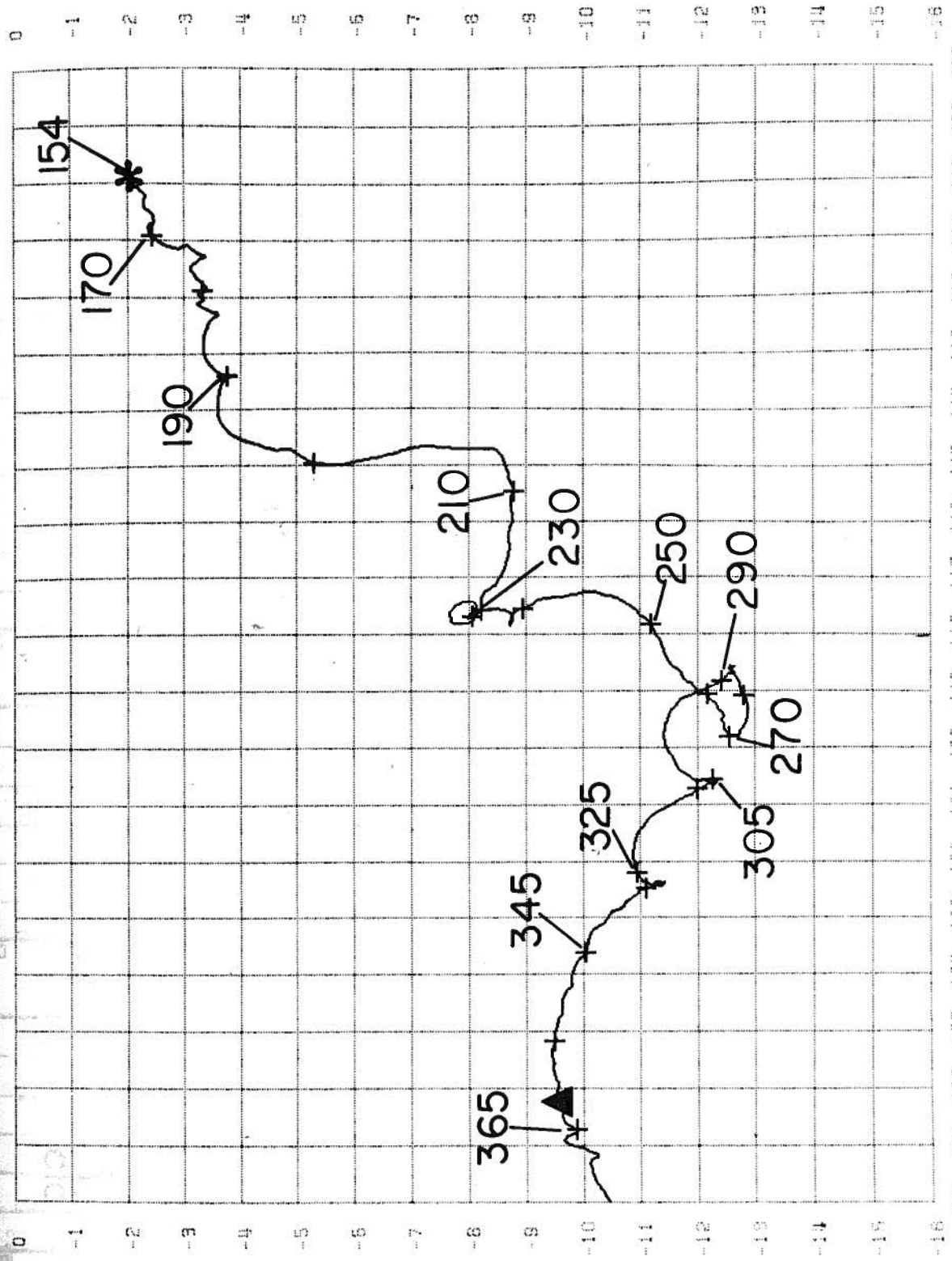
WIND SPEED



JULIAN DAYS

Figure 29. (Continued).

128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108

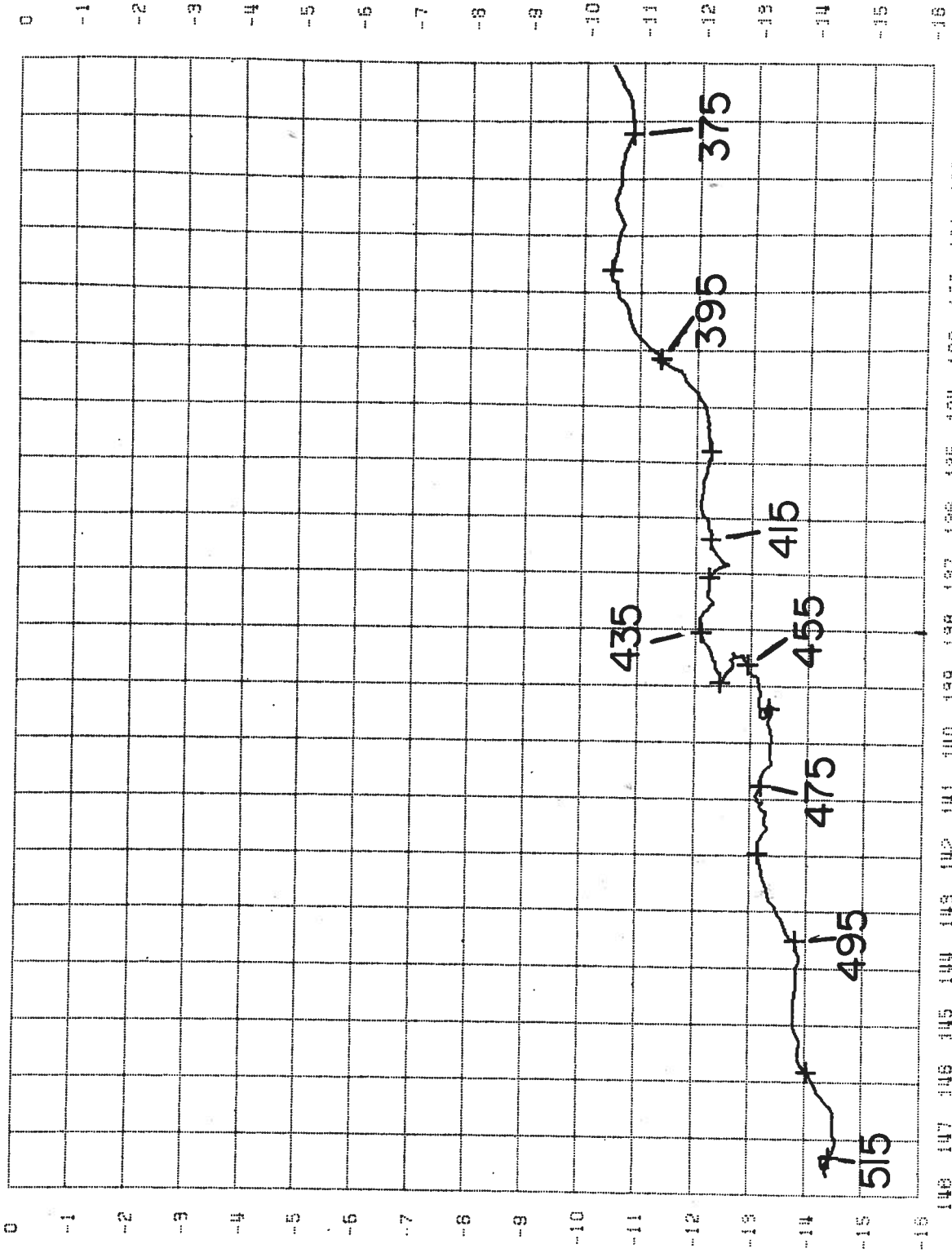


128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108

BUOY 2215

Figure 30. Trajectory of drifting buoy 2215.

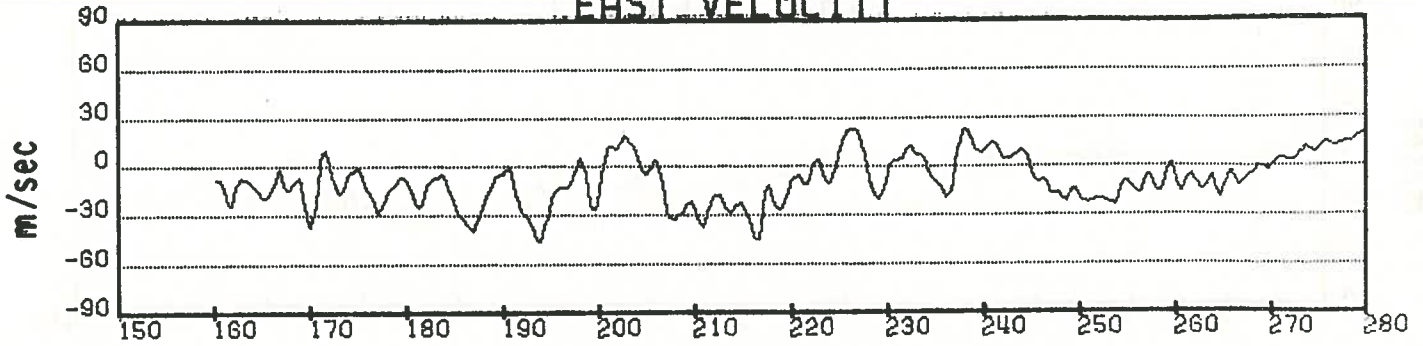
148 147 146 145 144 143 142 141 140 138 138 137 136 135 134 133 132 131 130 129 128



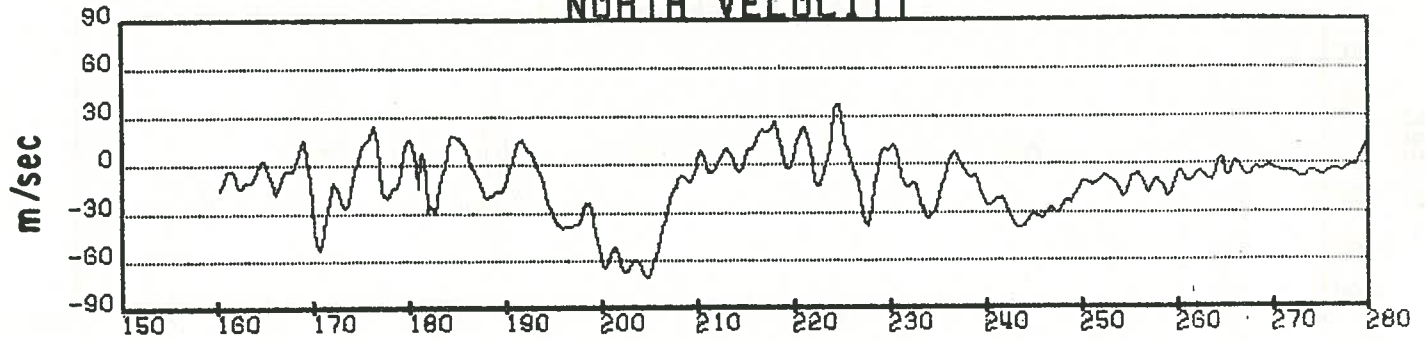
DIIV OIE C - - 1

BUOY 2215

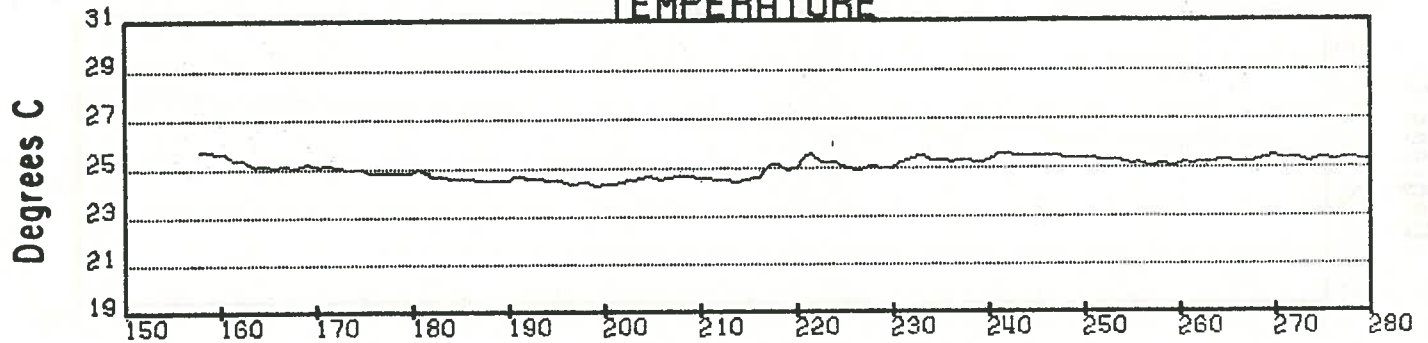
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

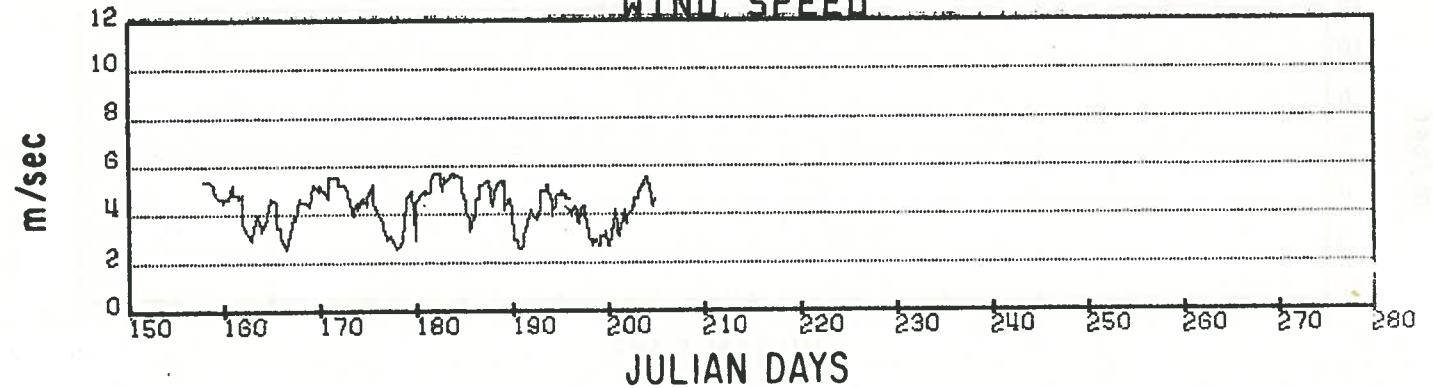
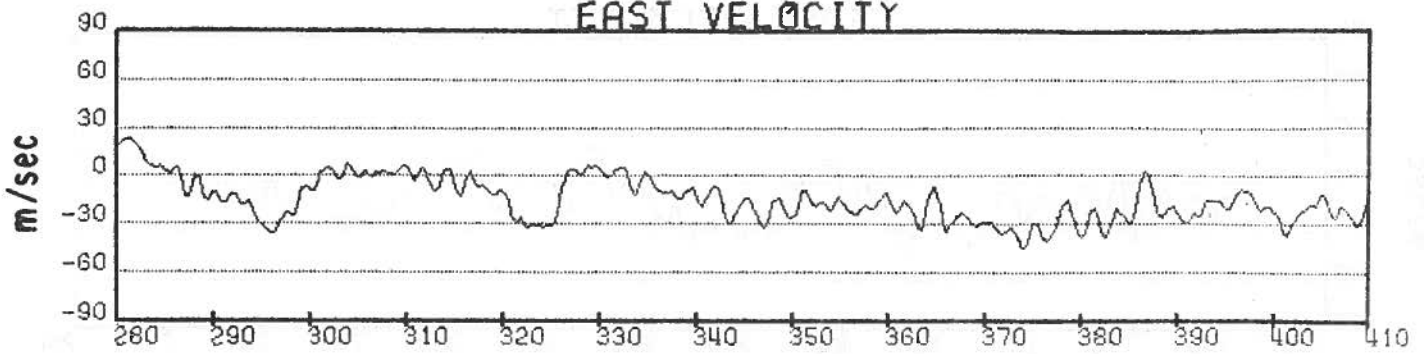


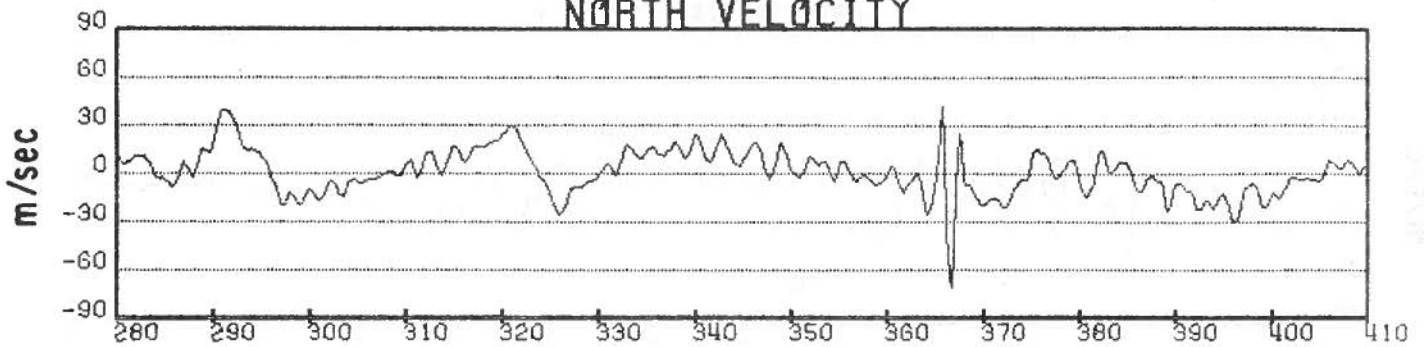
Figure 31. Time series of velocity and sensor data for drifting buoy 2215.

BUOY 2215

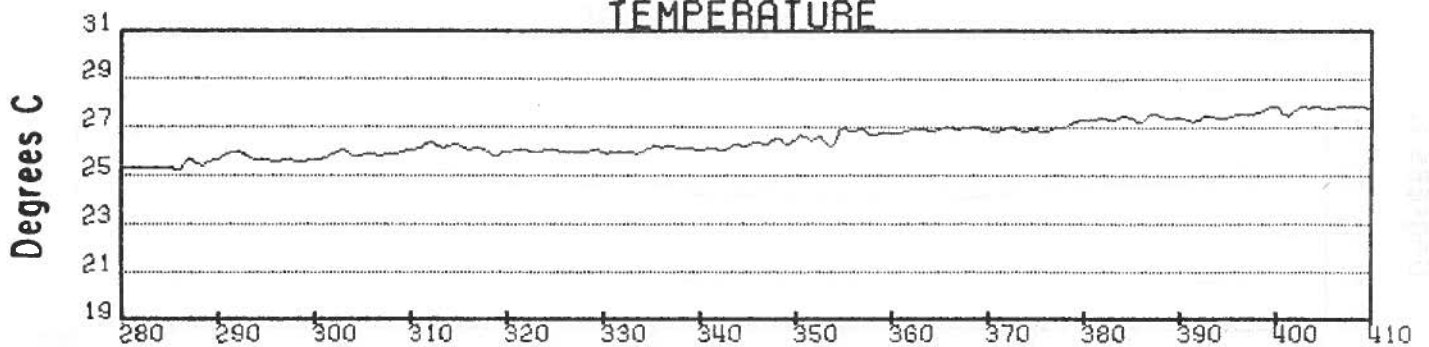
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

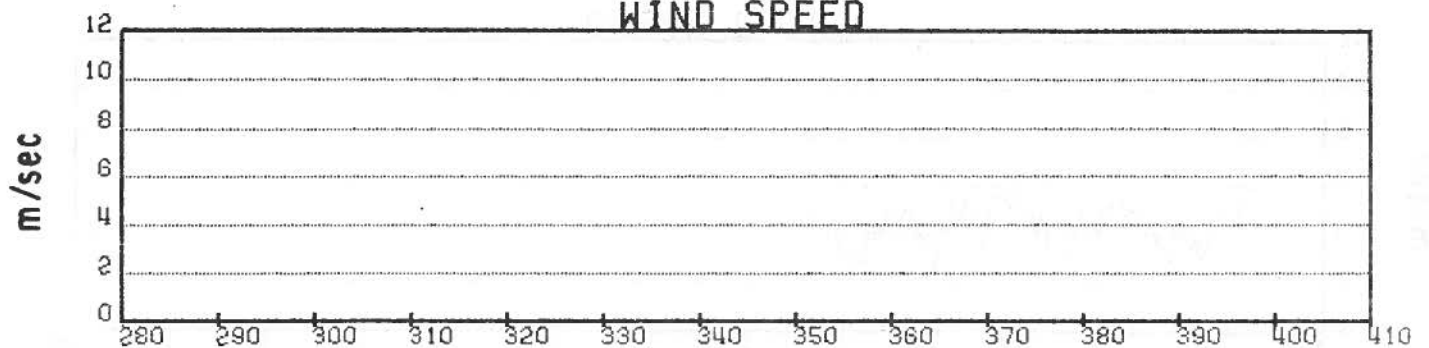


Figure 31. (Continued).

BUOY 2215

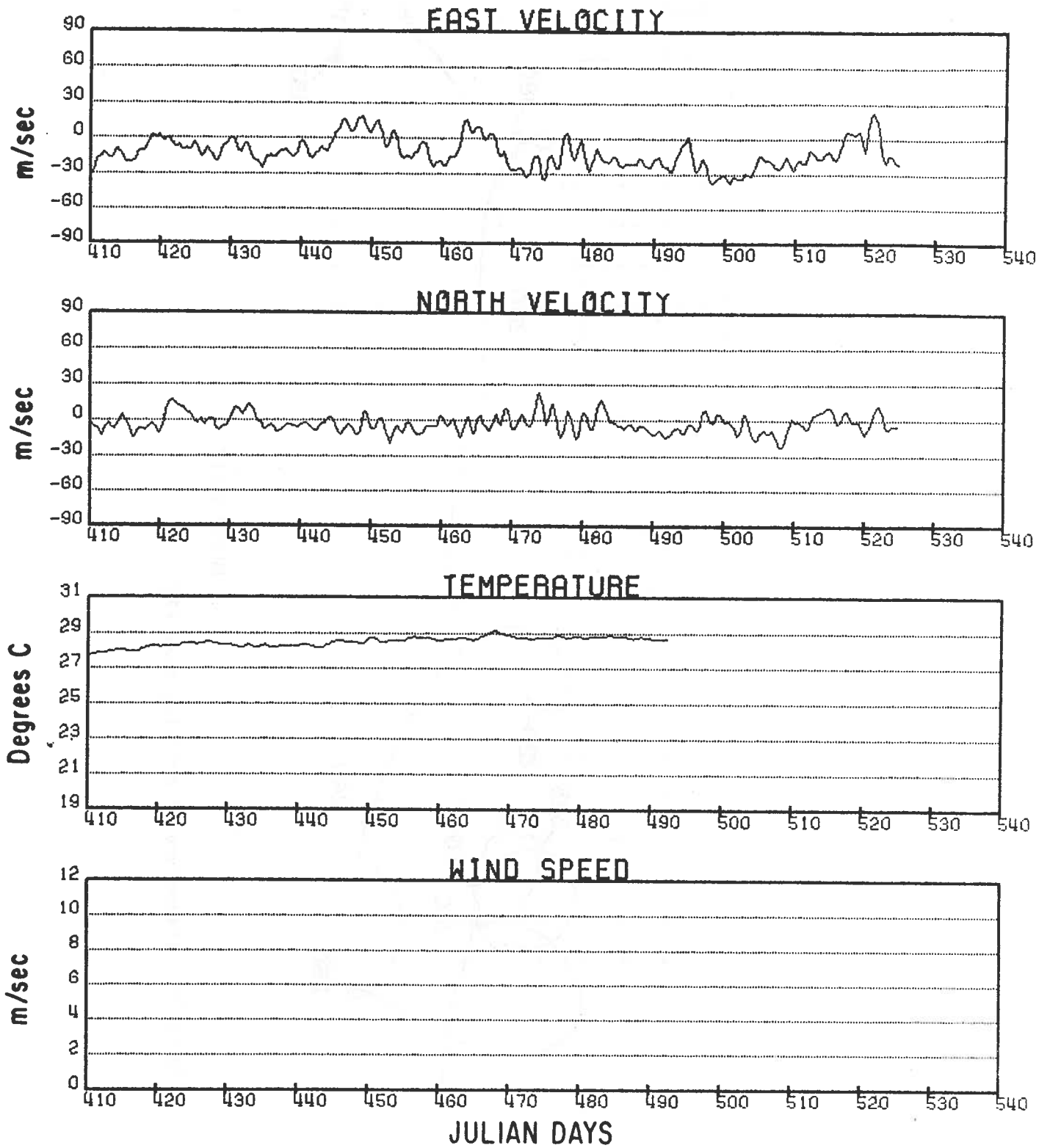


Figure 31. (Continued).

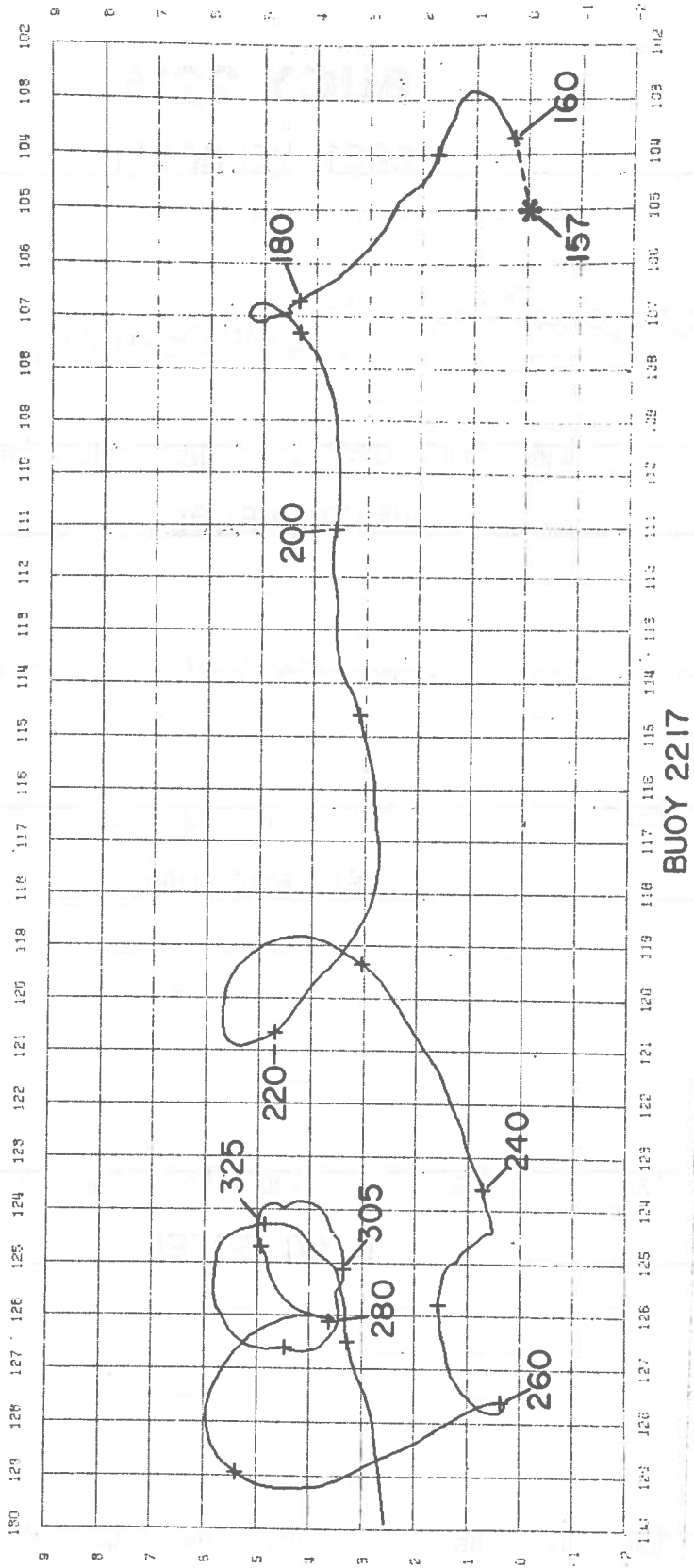
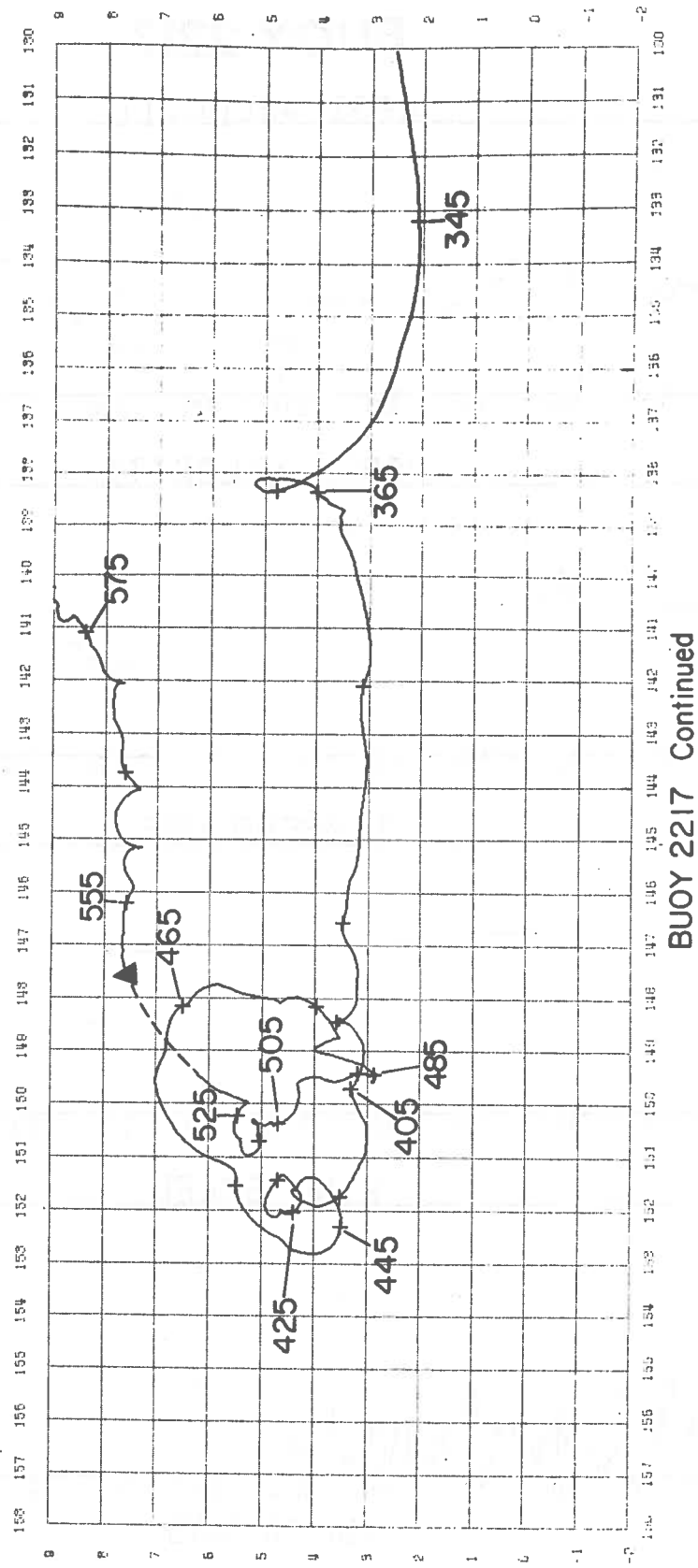


Figure 32. Trajectory of drifting buoy 2217.



BUOY 2217 Continued

Figure 32. (Continued).

BUOY 2217

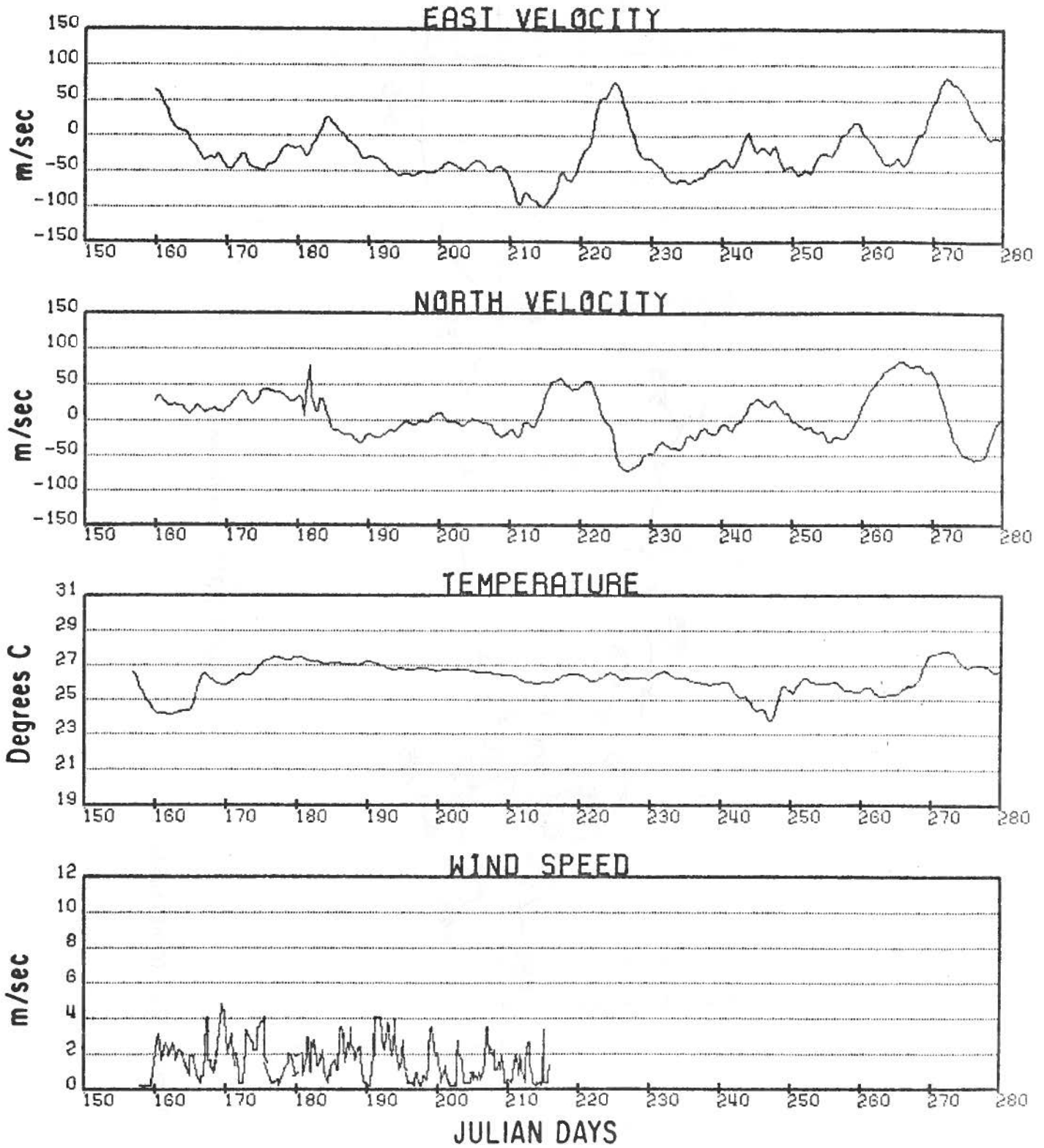
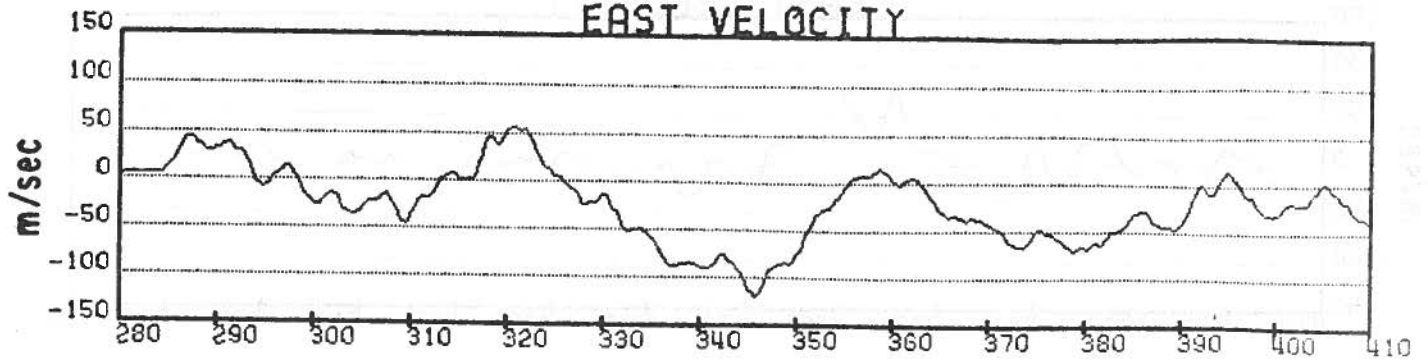


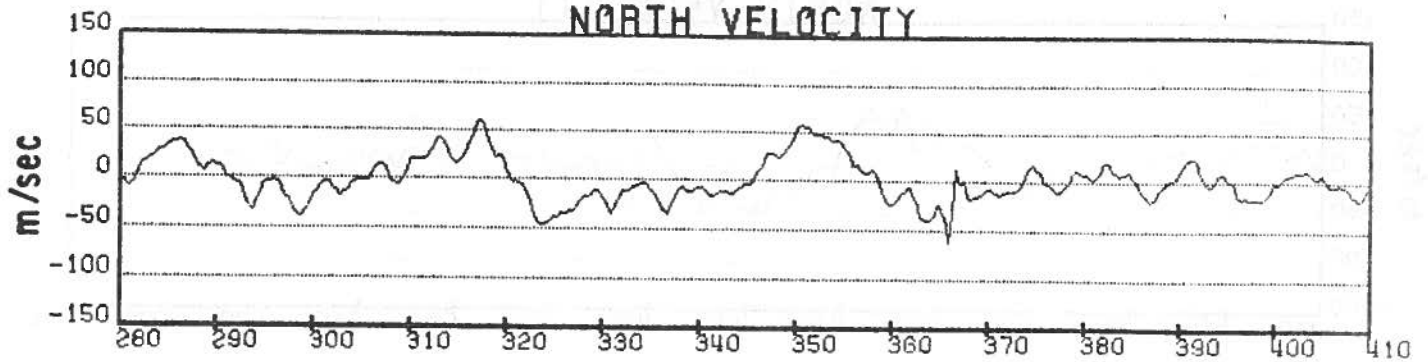
Figure 33. Time series of velocity and sensor data for drifting buoy 2217.

BUOY 2217

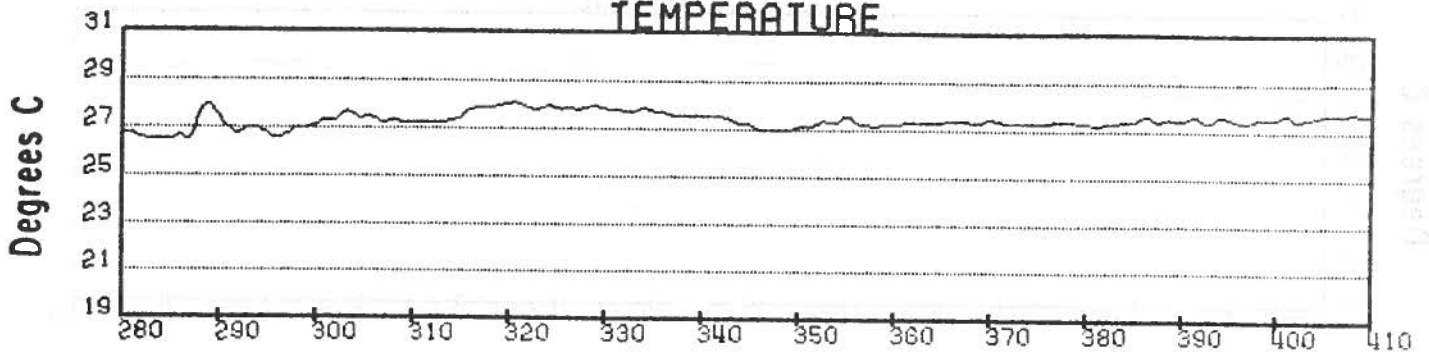
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

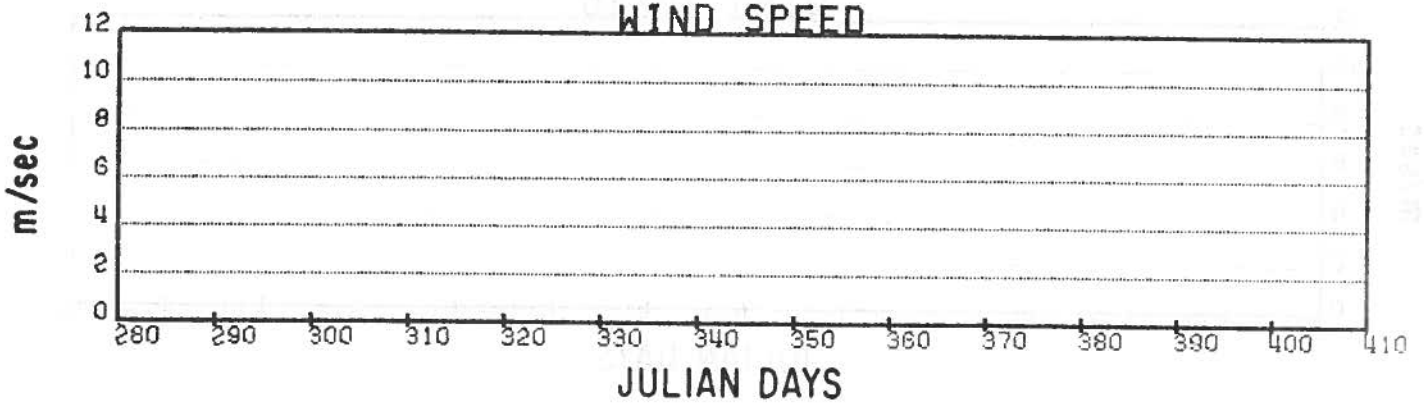
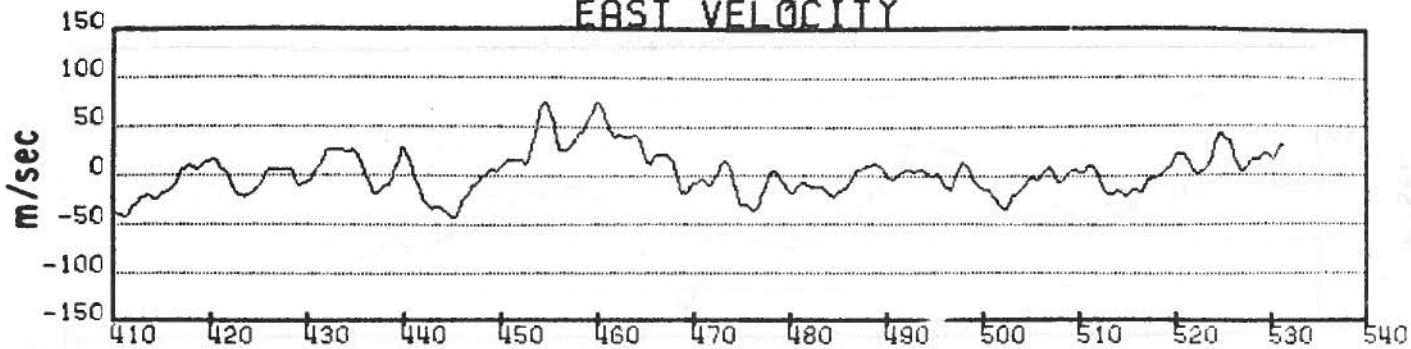


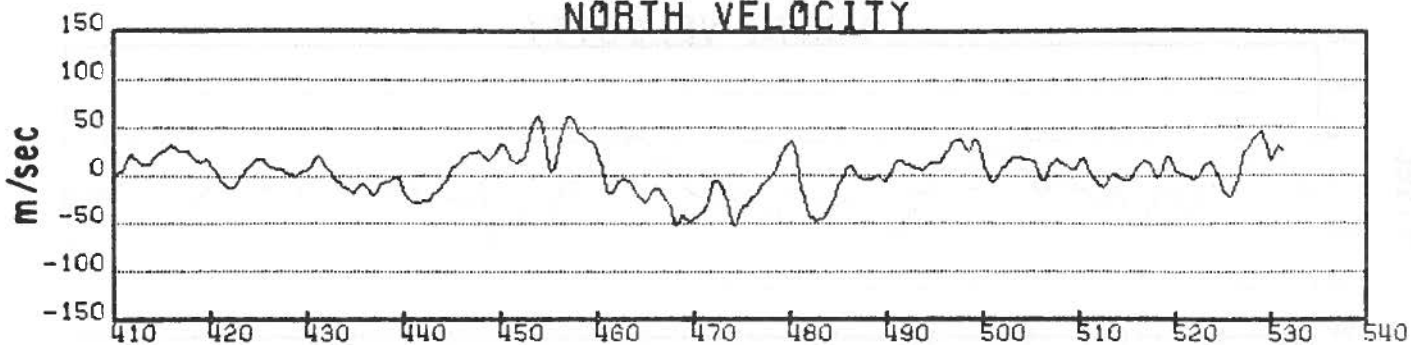
Figure 33. (Continued).

BUOY 2217

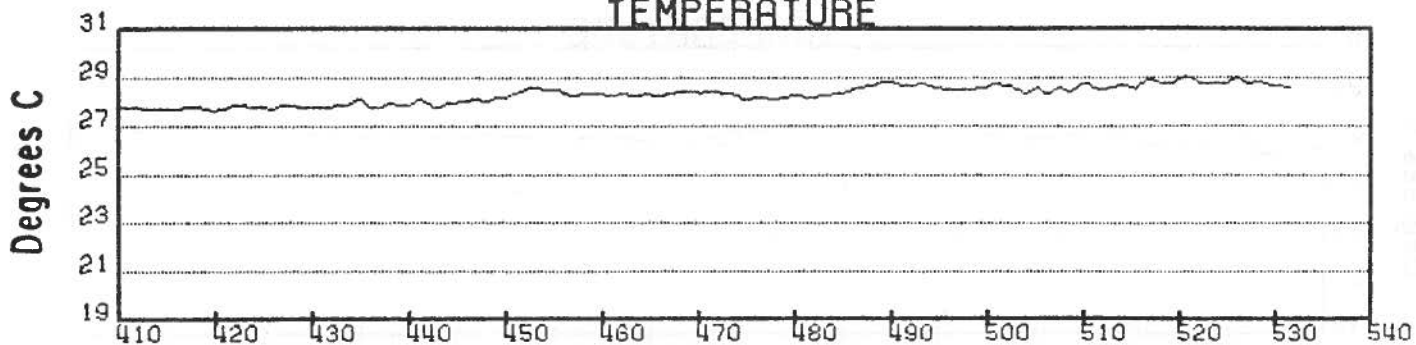
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

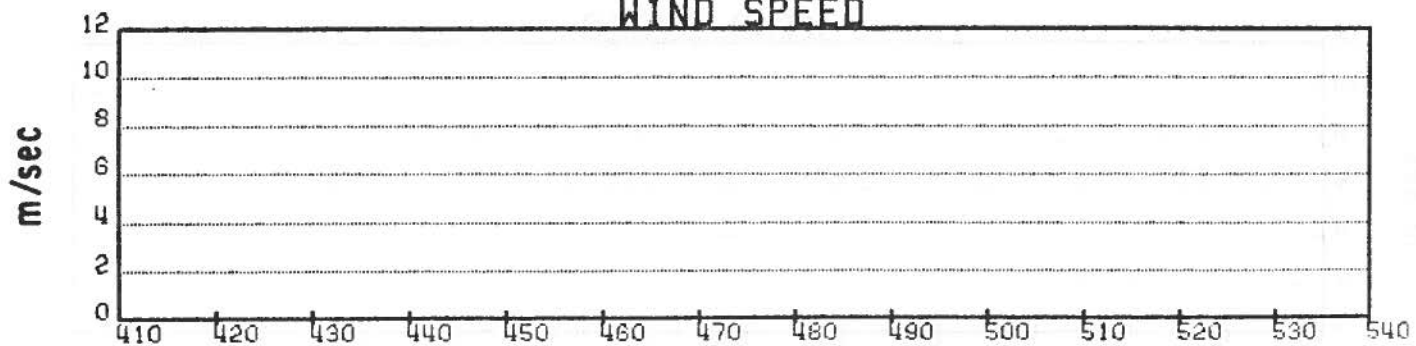
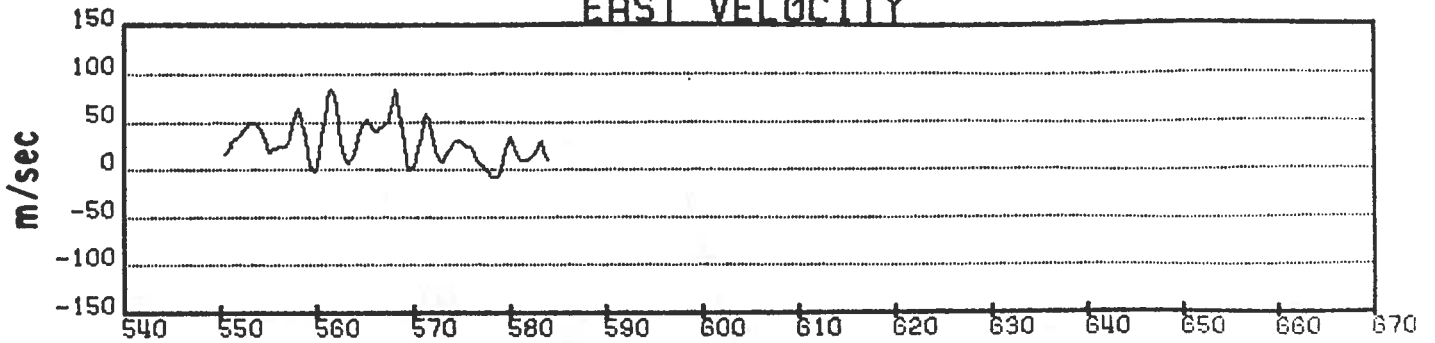


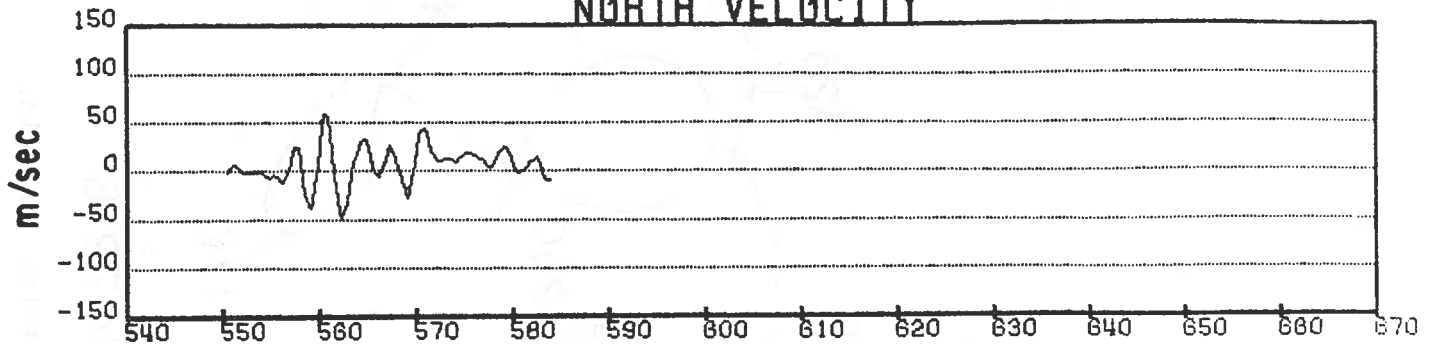
Figure 33. (Continued).

BUOY 2217

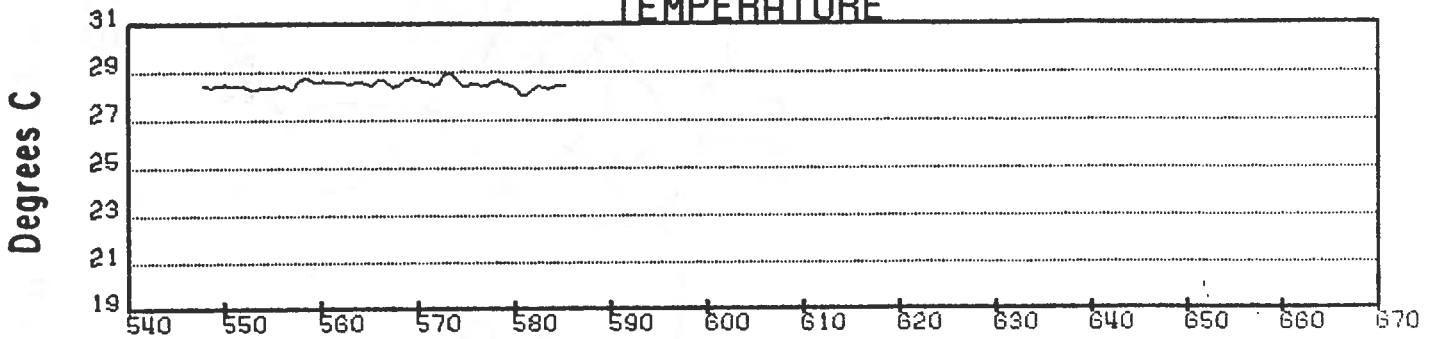
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

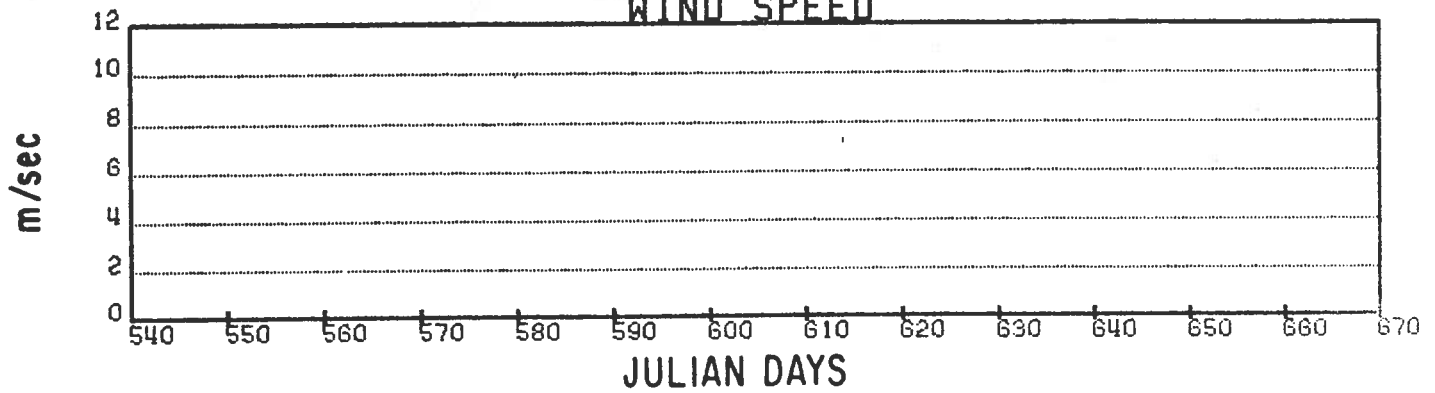


Figure 33. (Continued).

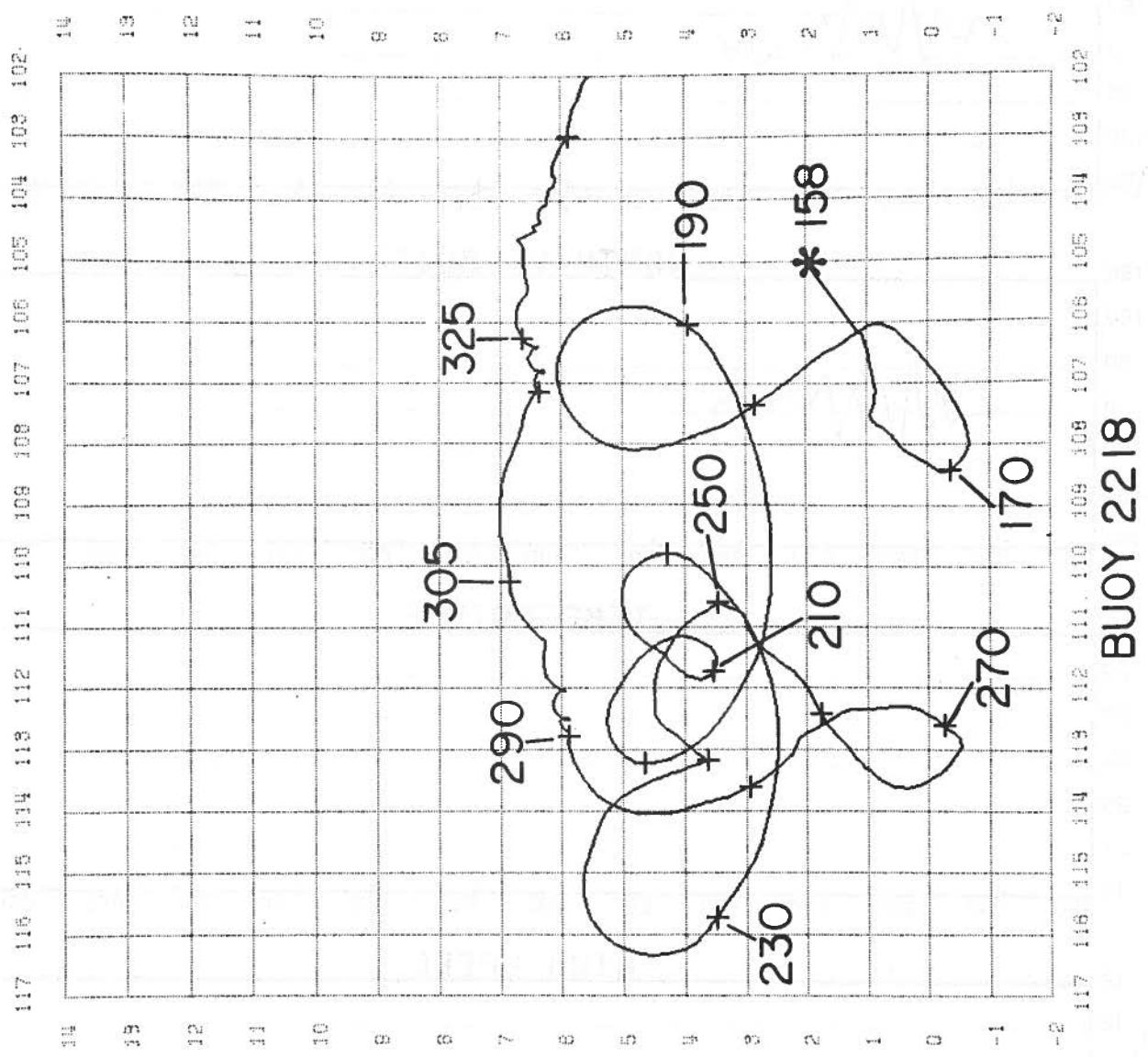
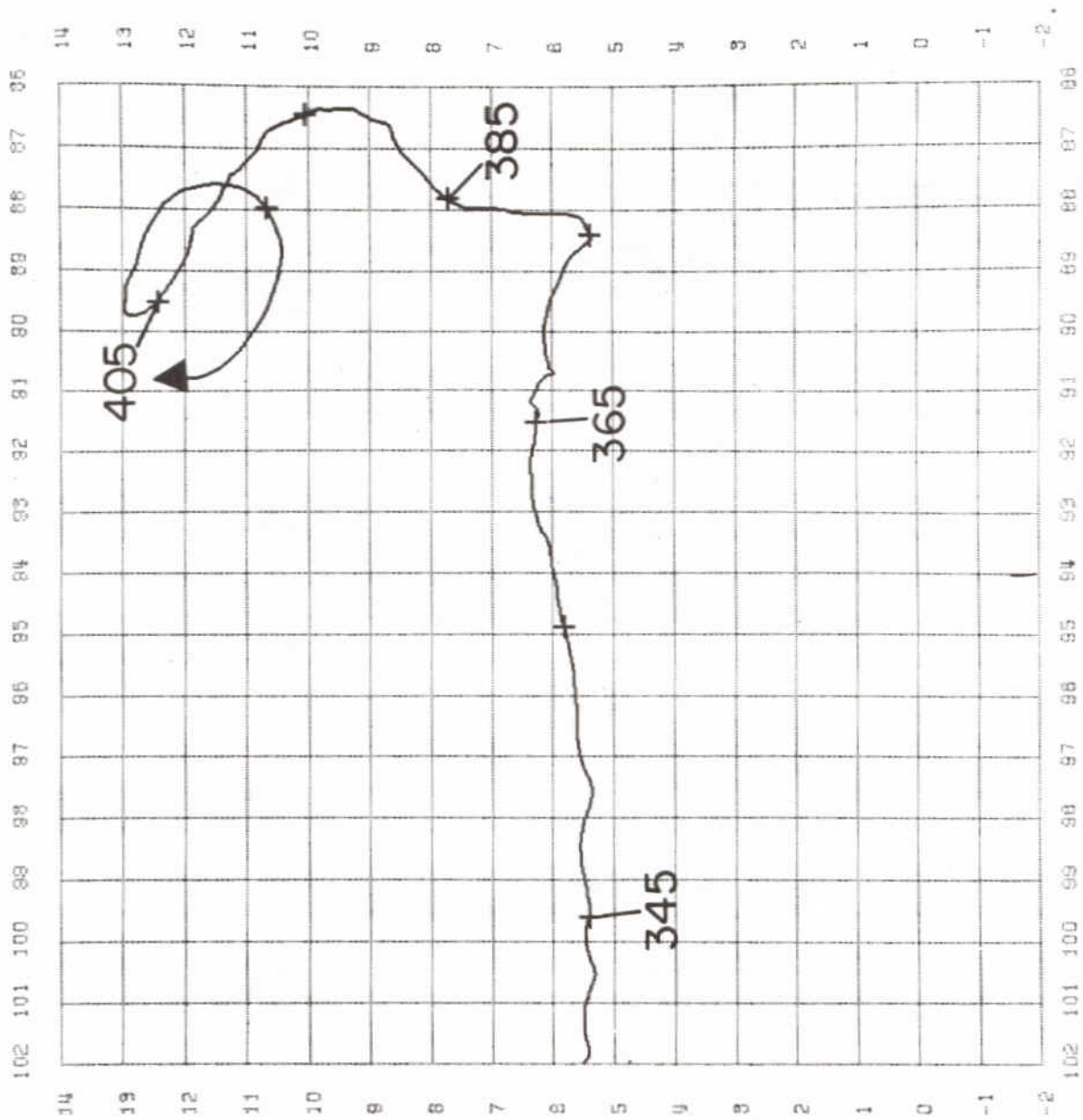


Figure 34. Trajectory of drifting buoy 2218.



BUOY 2218 Continued

Figure 34. (Continued).

BUOY 2218

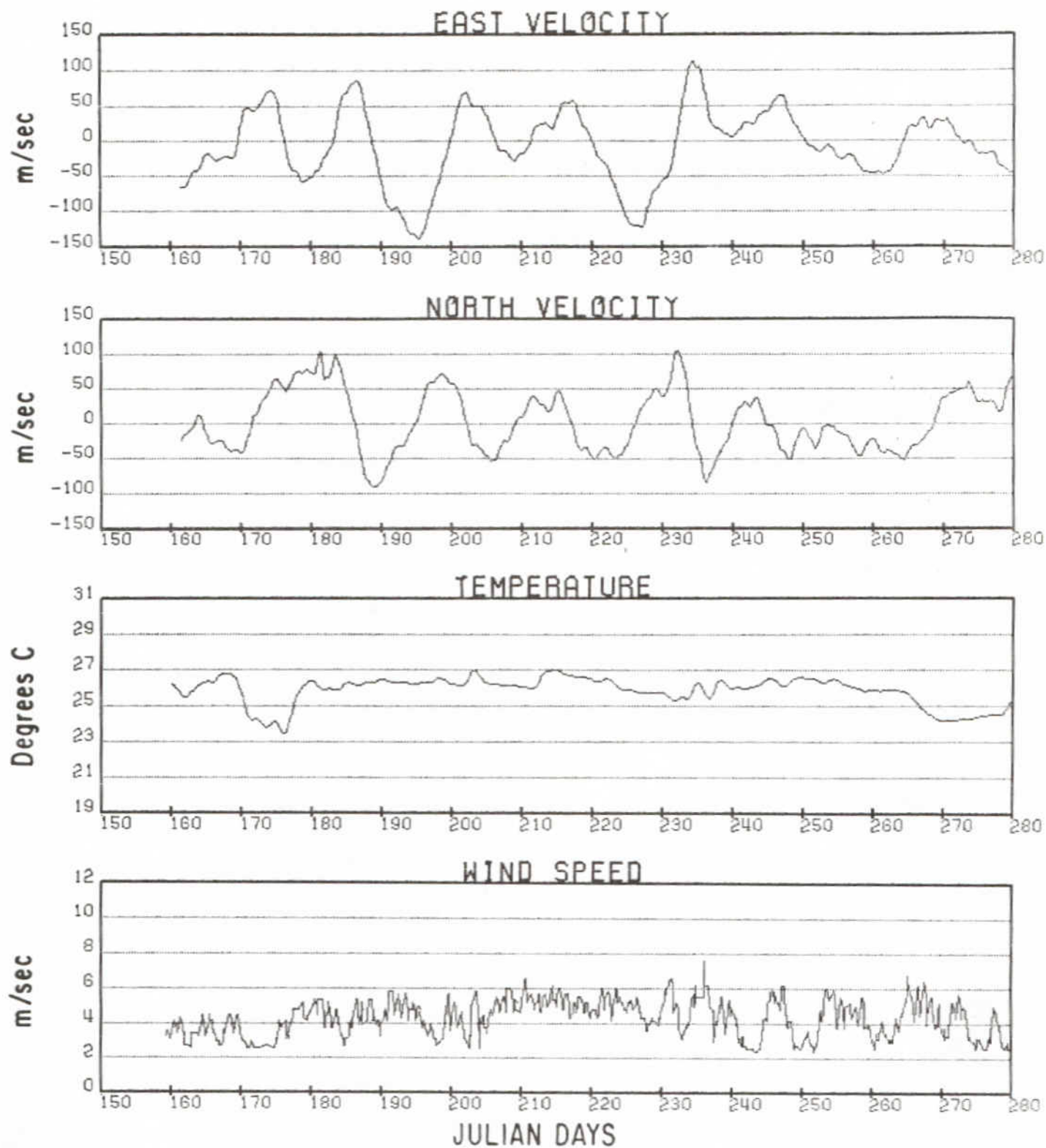


Figure 35. Time series of velocity and sensor data for drifting buoy 2218.

BUOY 2218

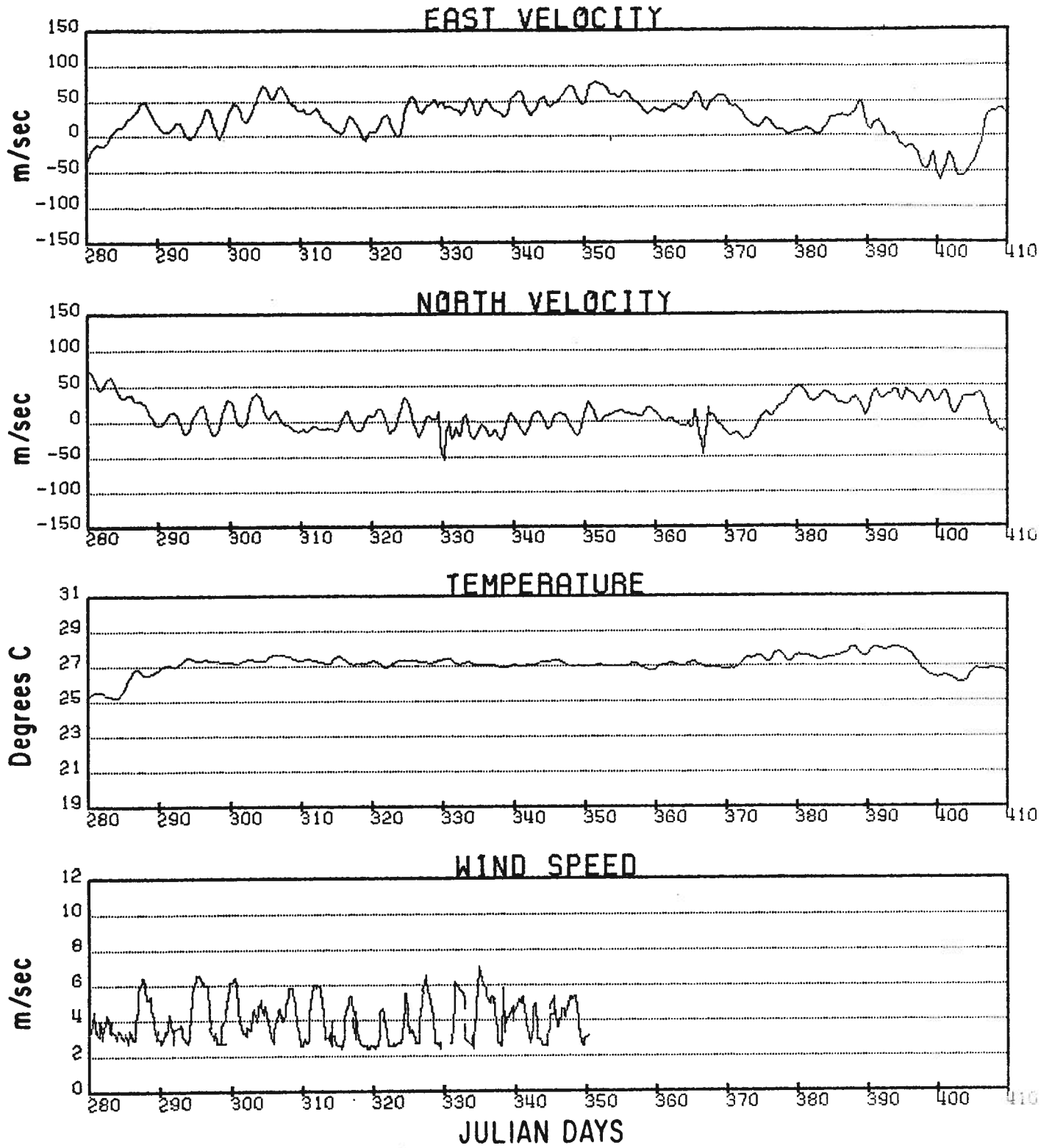
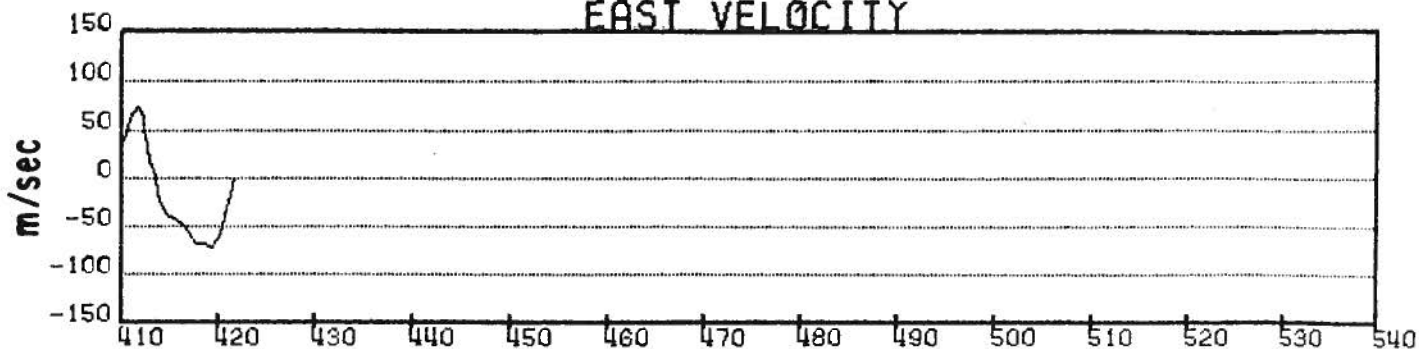


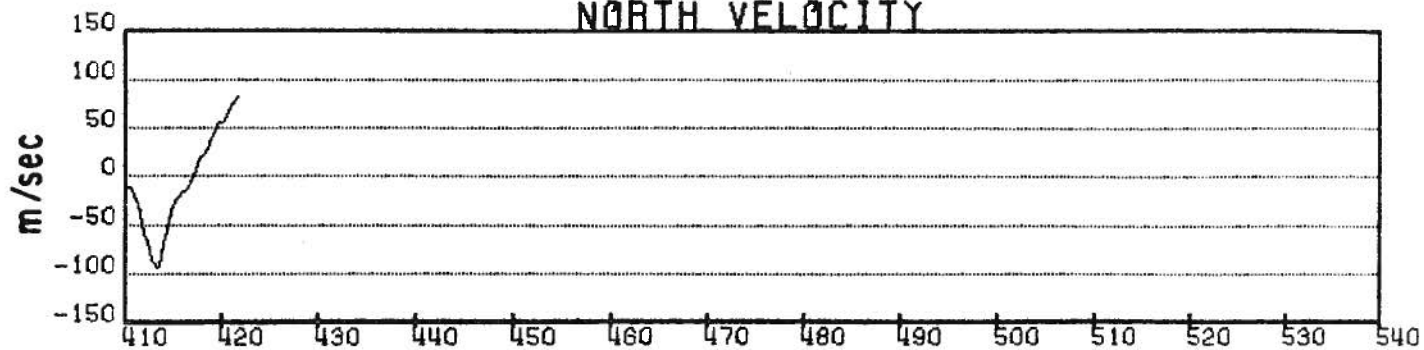
Figure 35. (Continued).

BUOY 2218

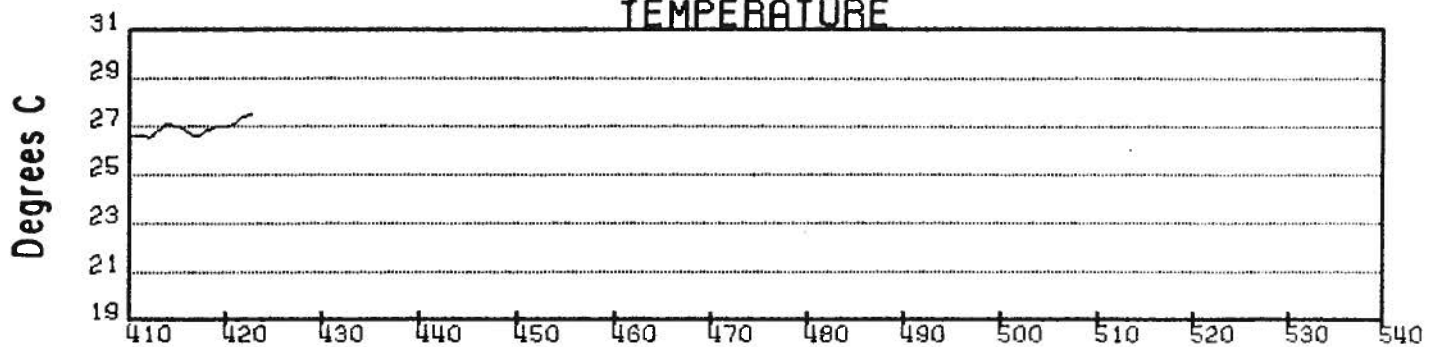
EAST VELOCITY



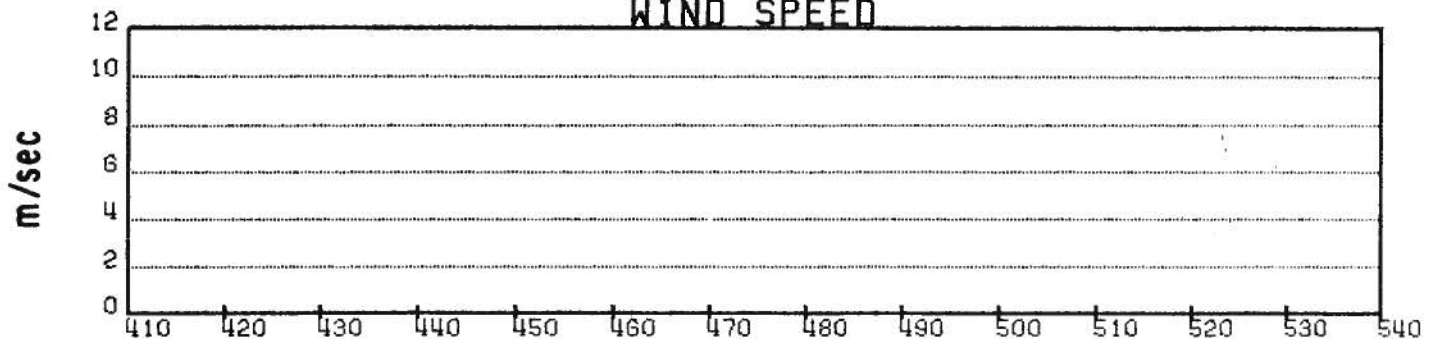
NORTH VELOCITY



TEMPERATURE

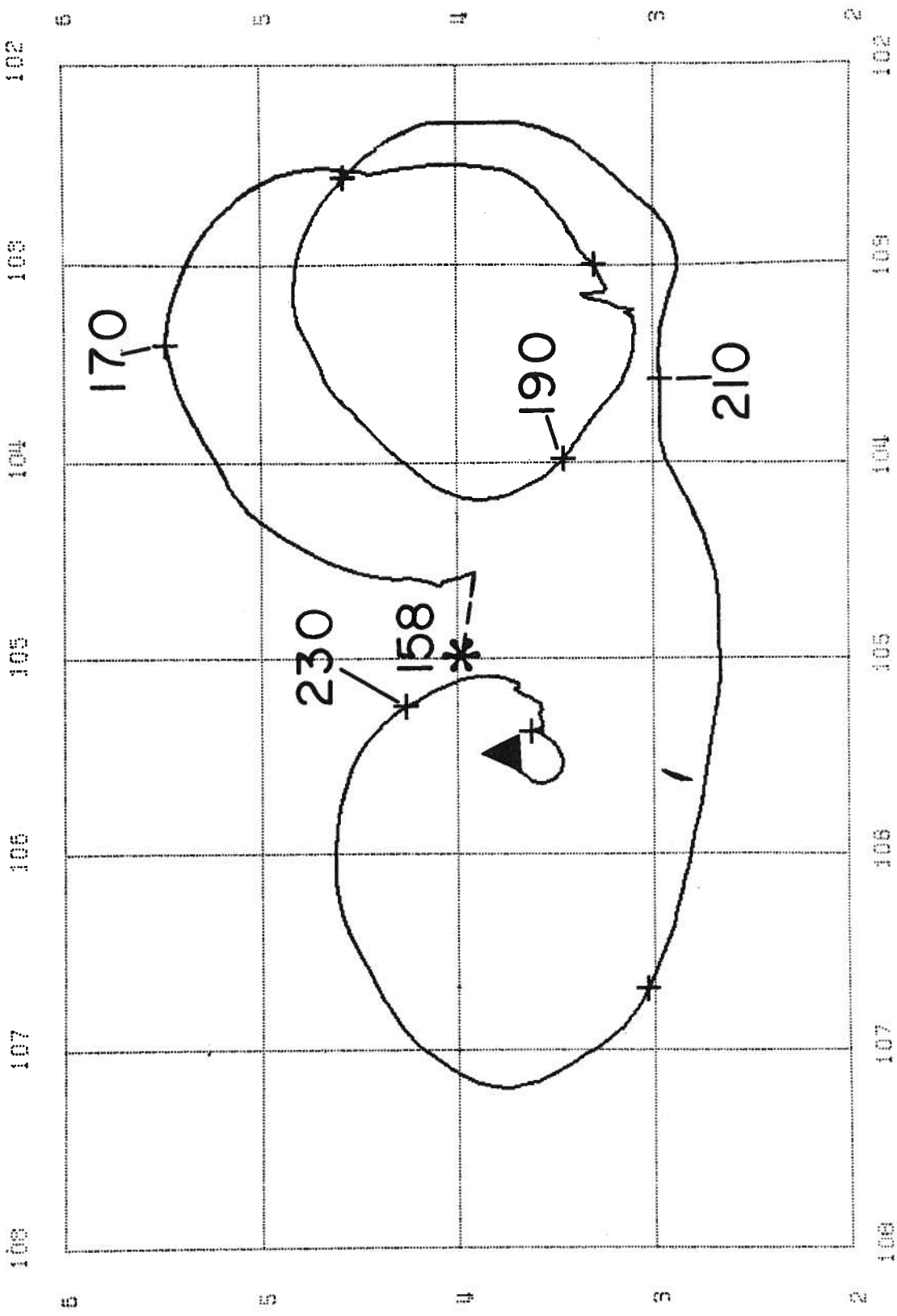


WIND SPEED



JULIAN DAYS

Figure 35. (Continued).

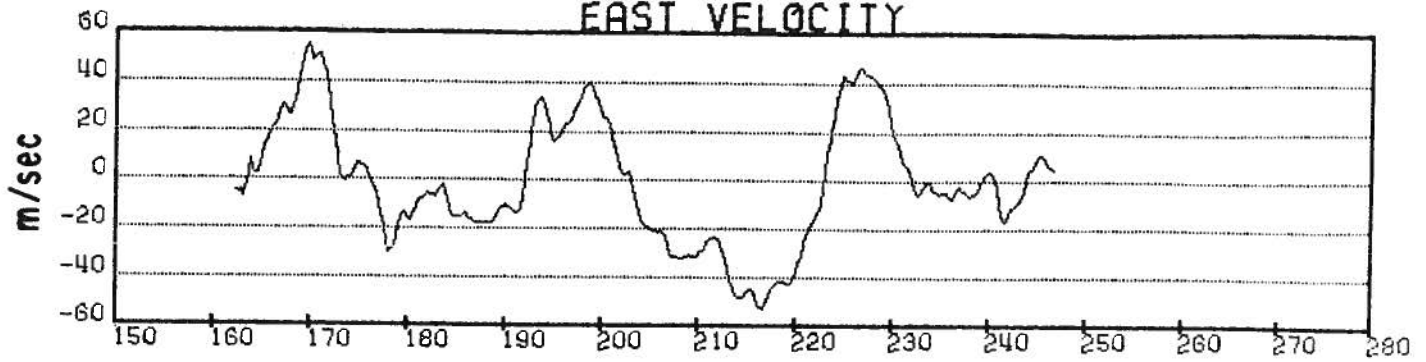


BUOY 2220

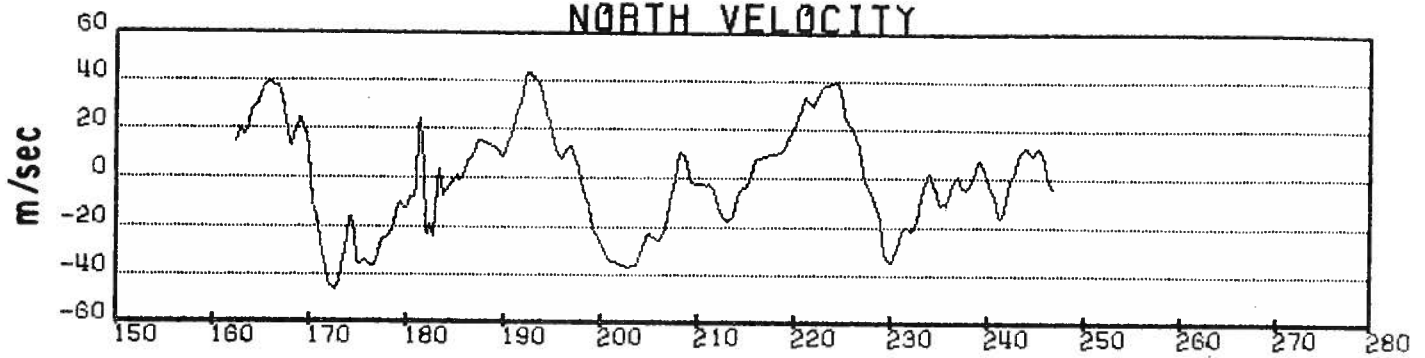
Figure 36. Trajectory of drifting buoy 2220.

BUOY 2220

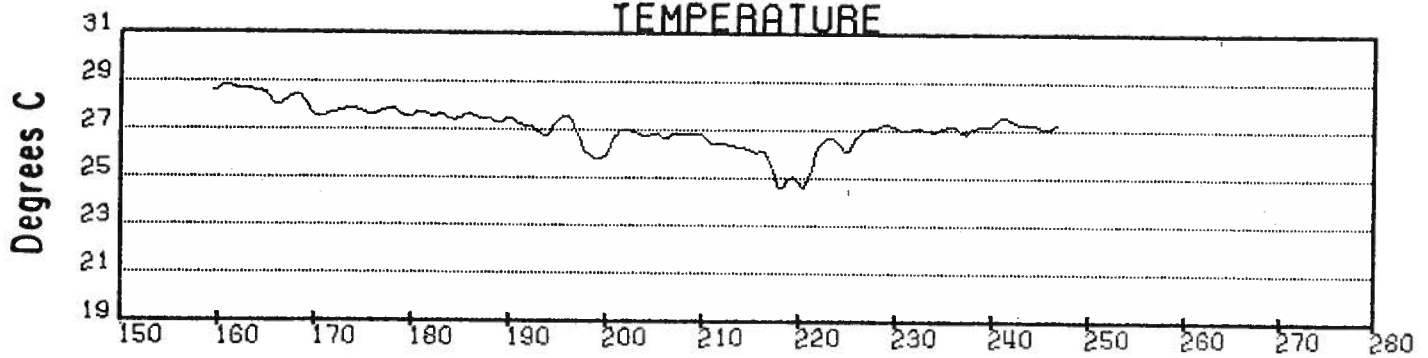
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

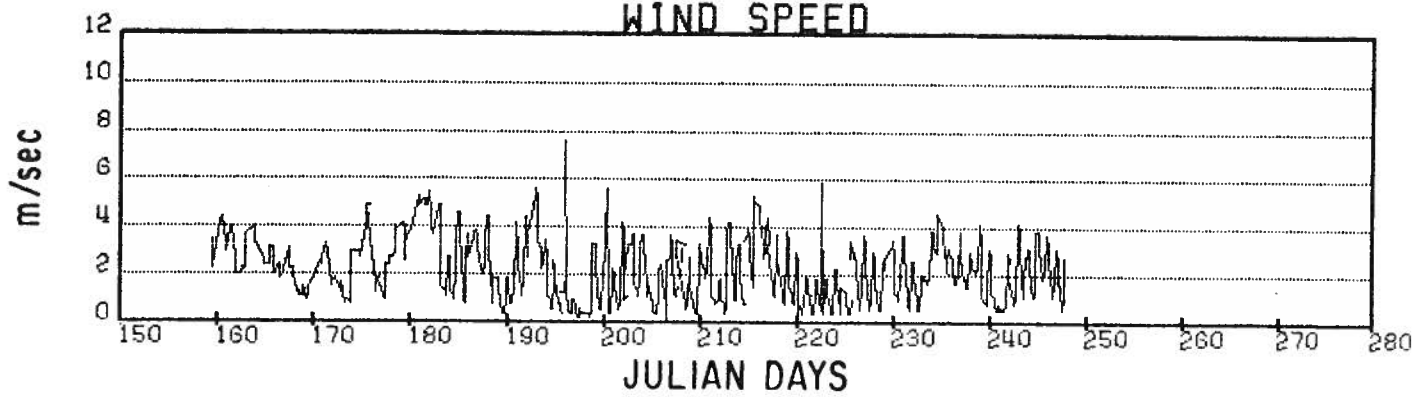
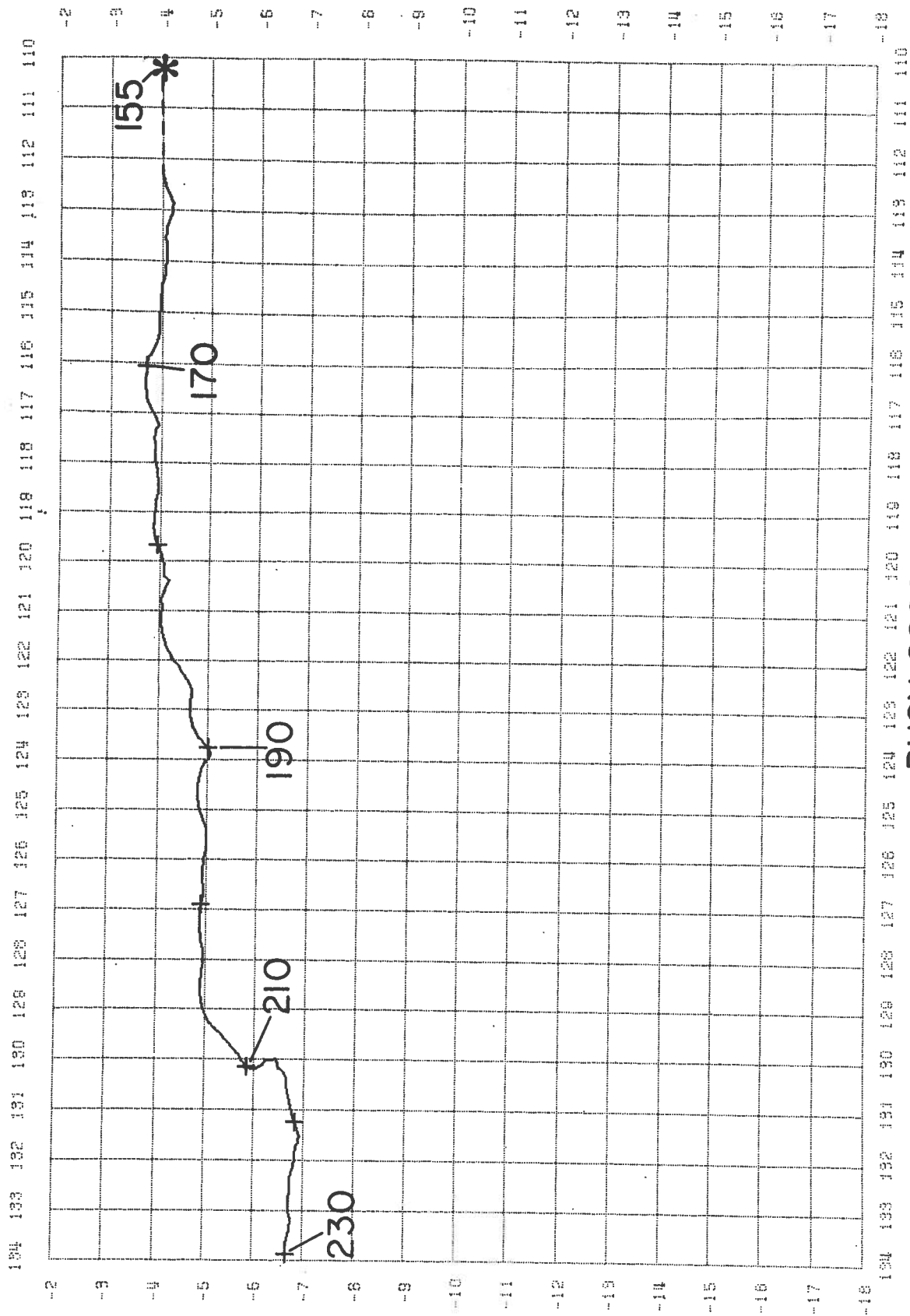
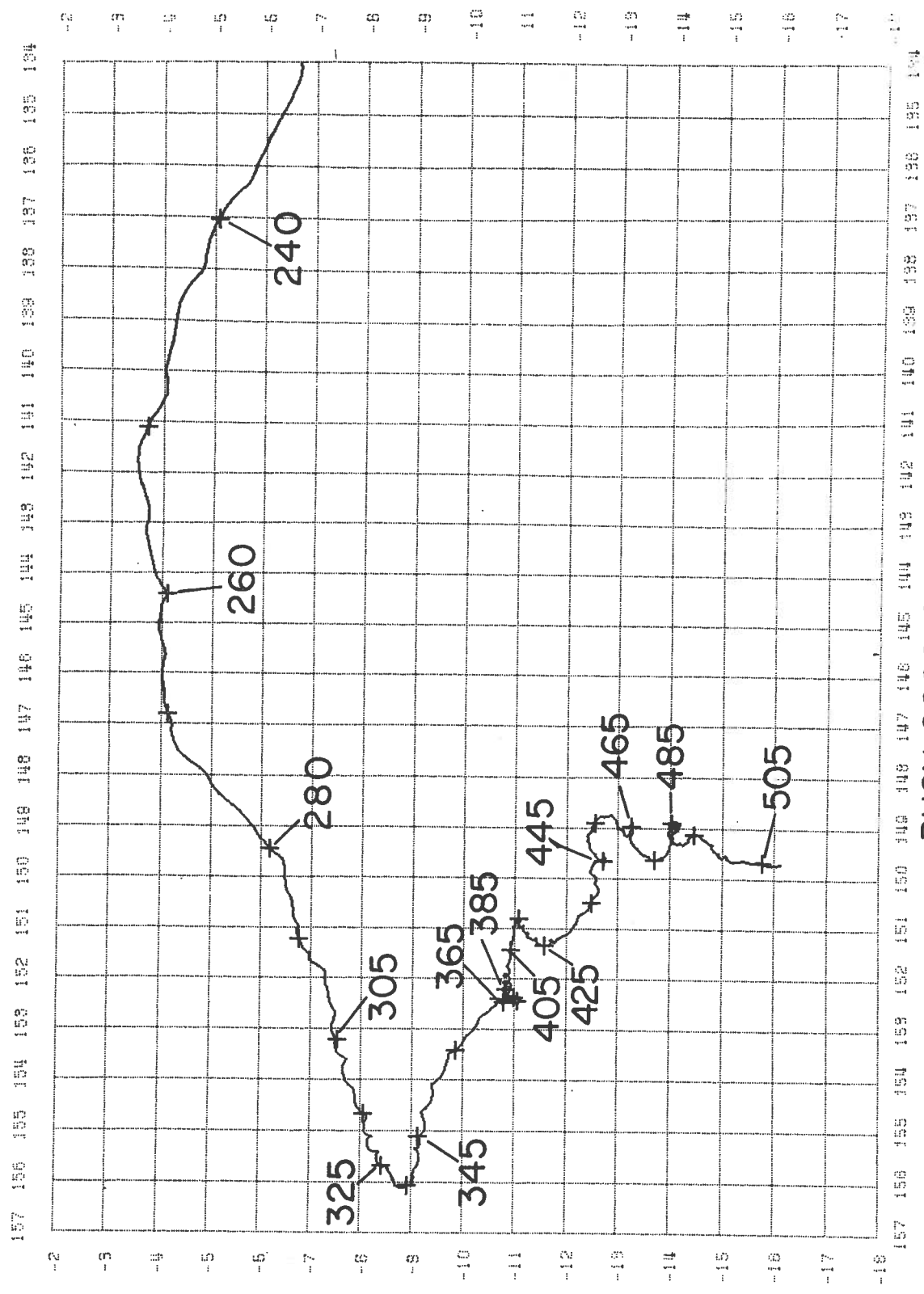


Figure 37. Time series of velocity and sensor data for drifting buoy 2220.



BUOY 2222

Figure 38. Trajectory of drifting buoy 2222.

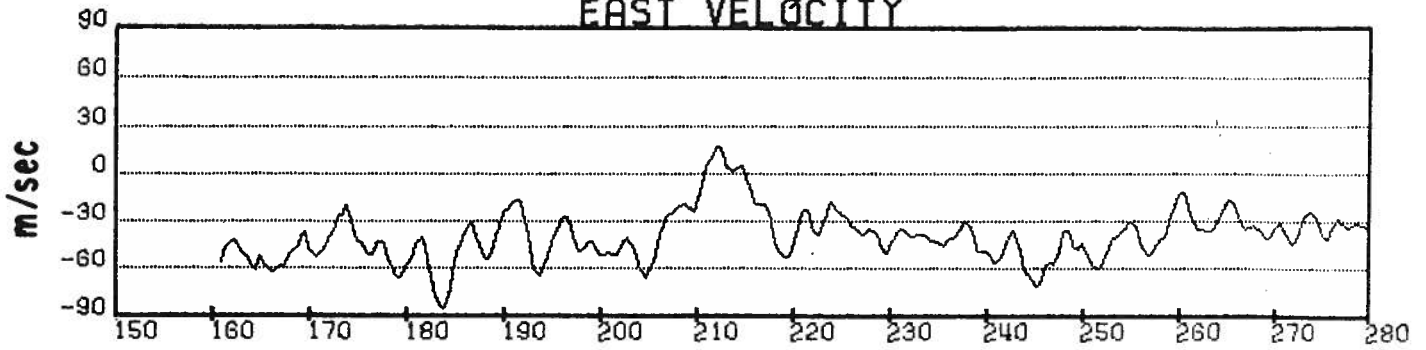


BUOY 2222 Continued

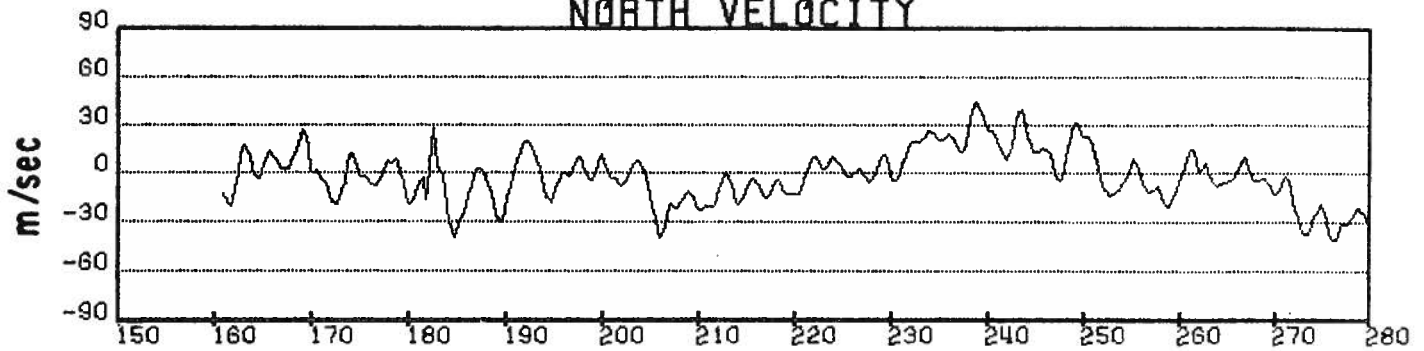
Figure 38. (Continued).

BUOY 2222

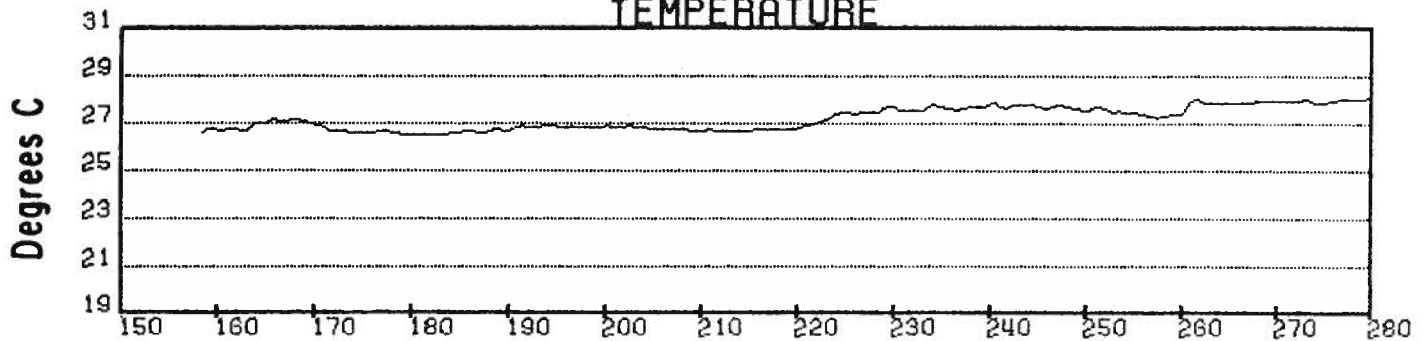
EAST VELOCITY



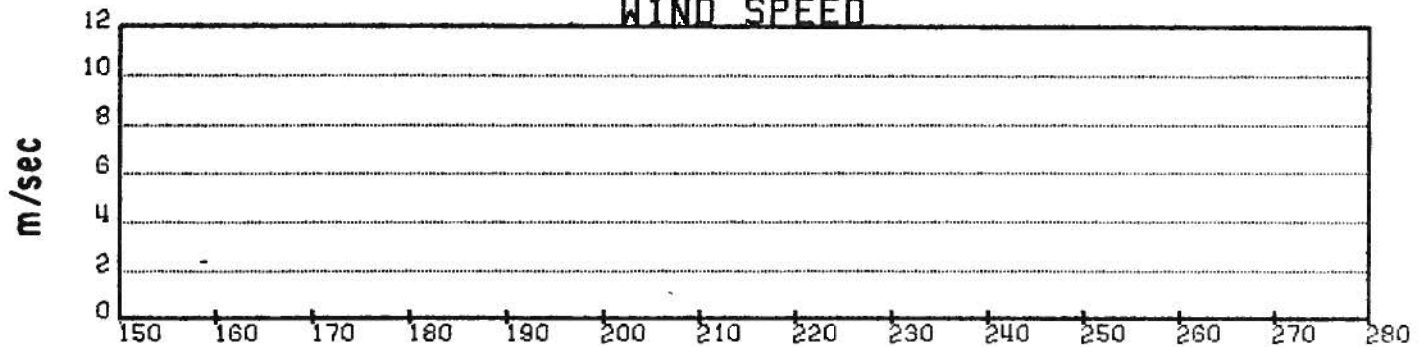
NORTH VELOCITY



TEMPERATURE



WIND SPEED

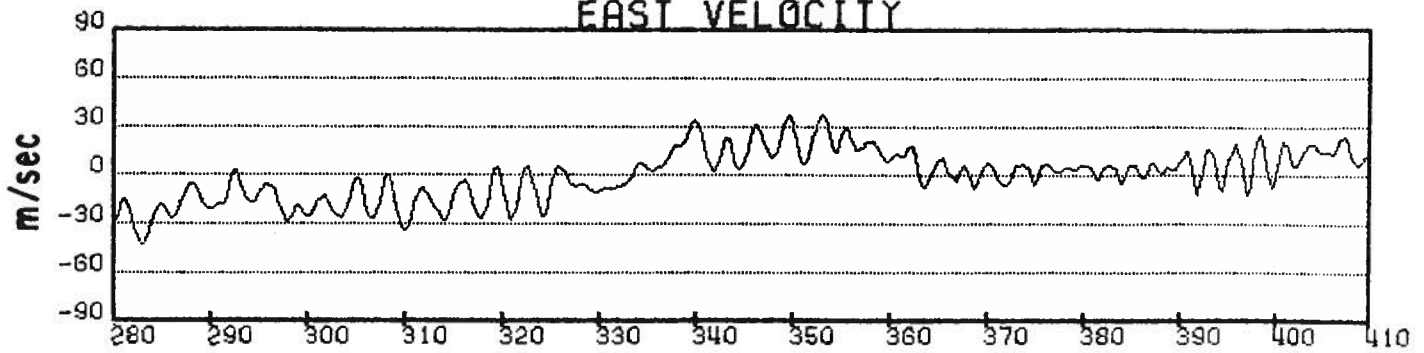


JULIAN DAYS

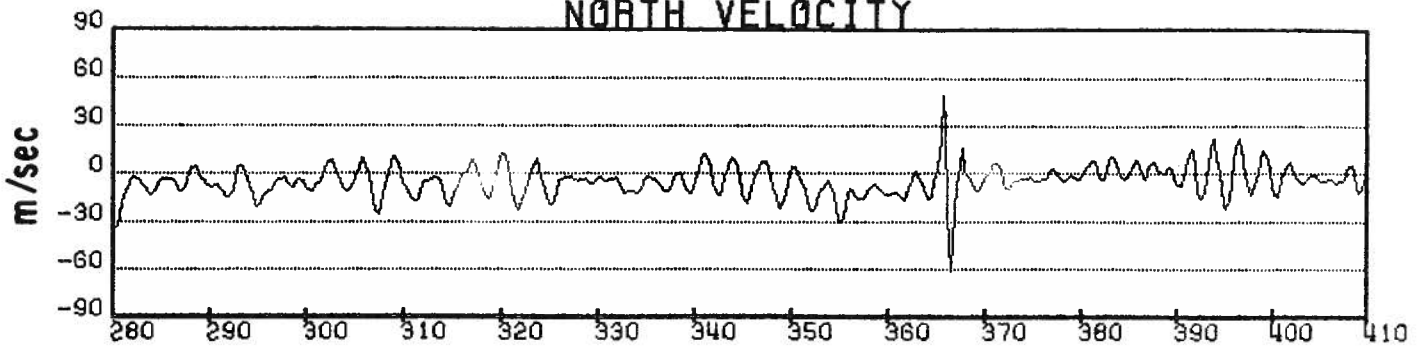
Figure 39. Time series of velocity and sensor data for drifting buoy 2222.

BUOY 2222

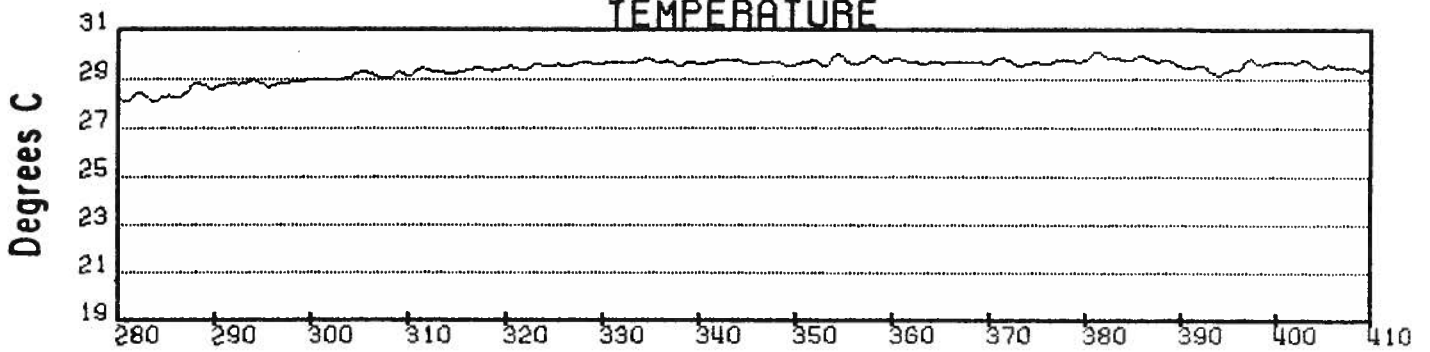
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

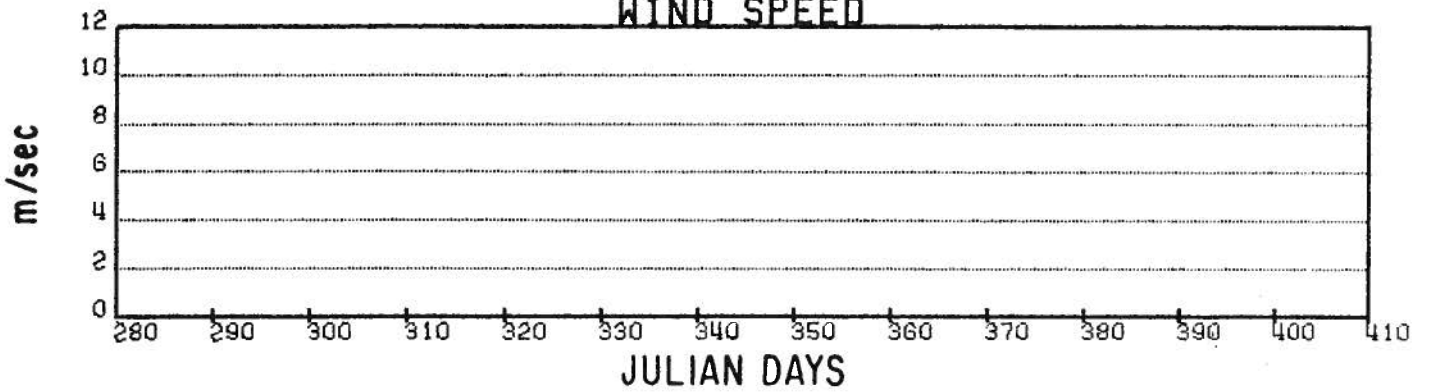
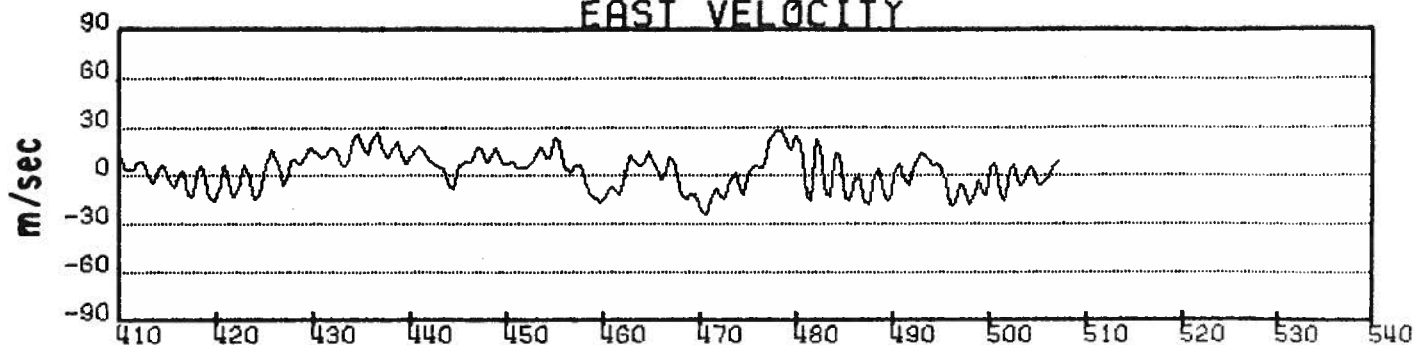


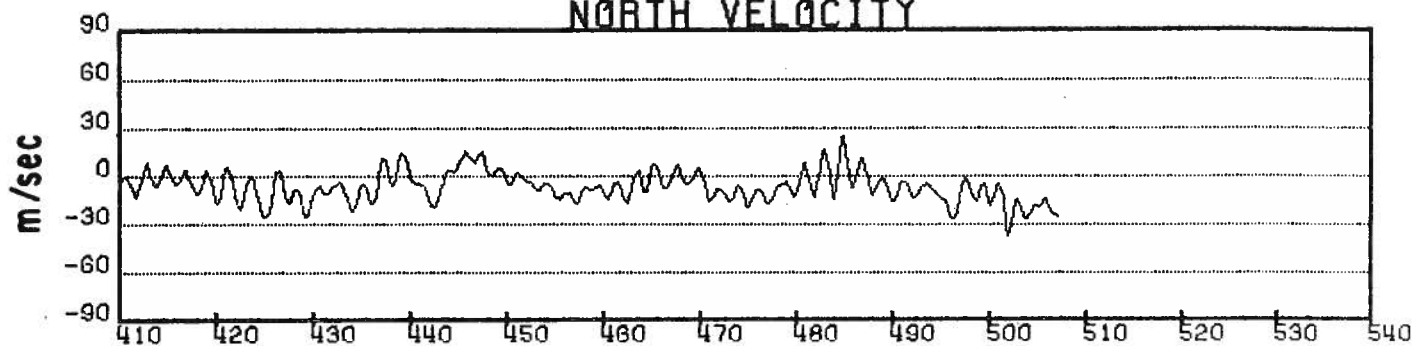
Figure 39. (Continued).

BUOY 2222

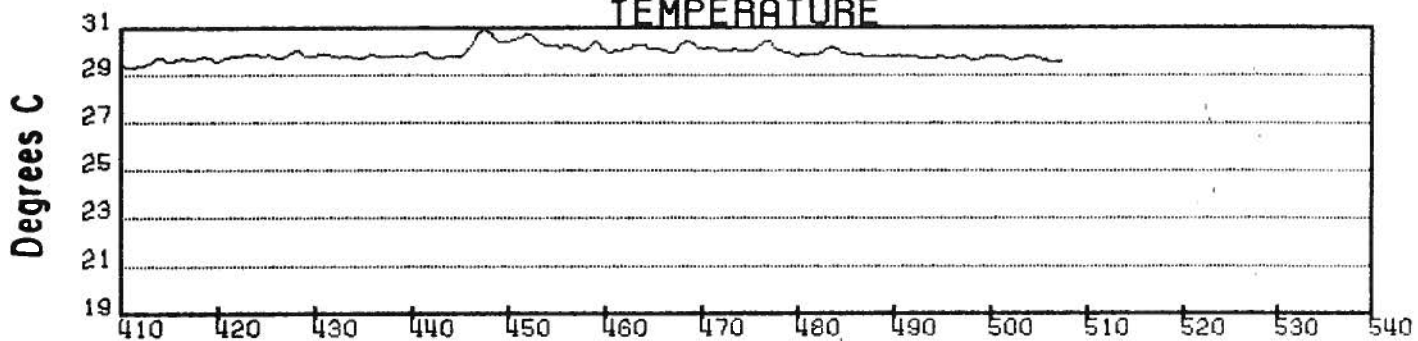
EAST VELOCITY



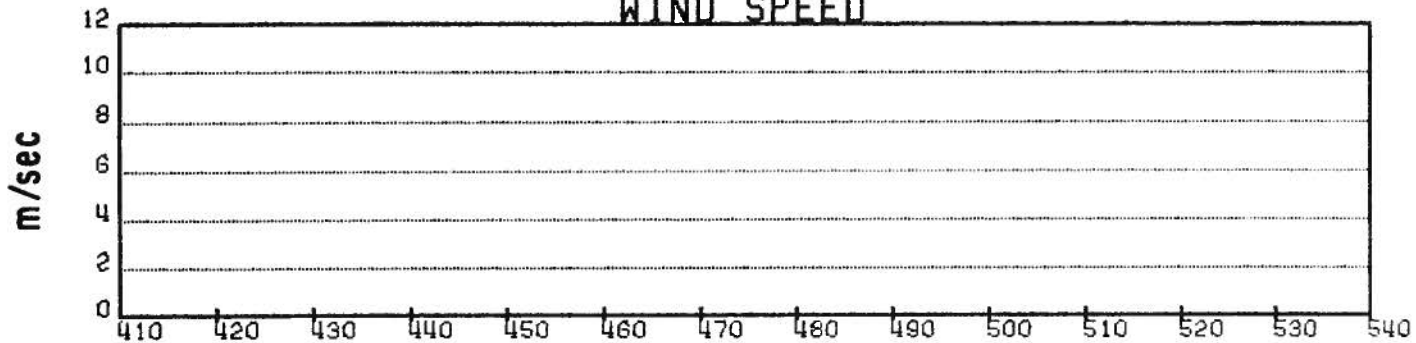
NORTH VELOCITY



TEMPERATURE

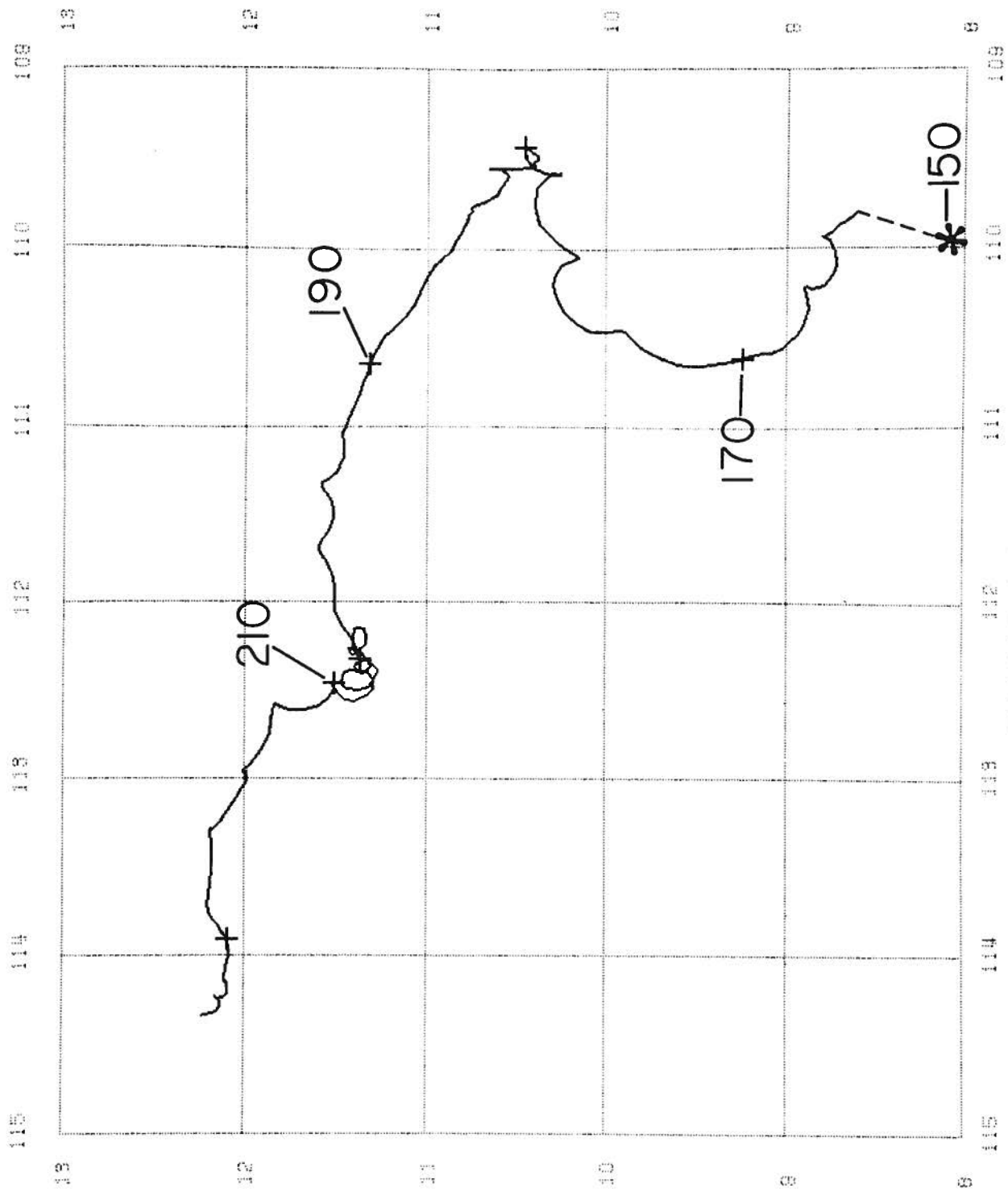


WIND SPEED



JULIAN DAYS

Figure 39. (Continued).

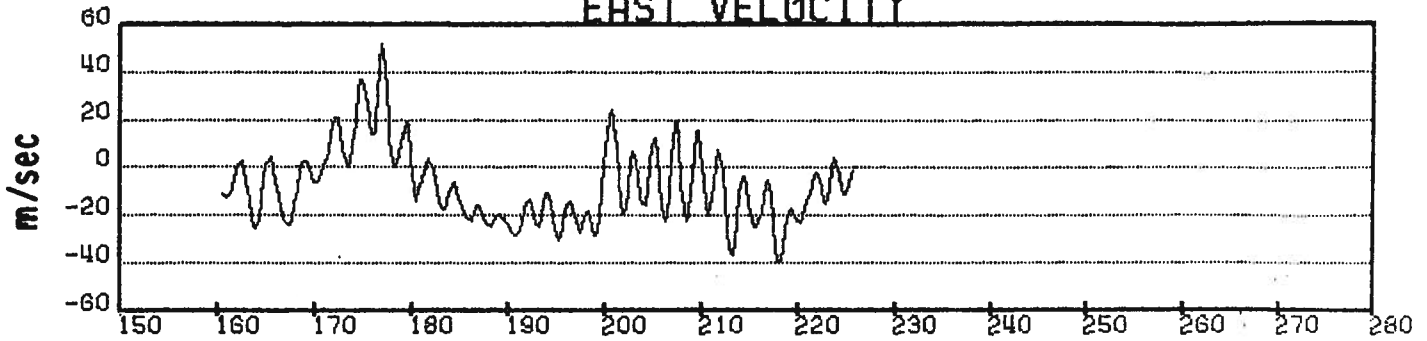


BUOY 2223

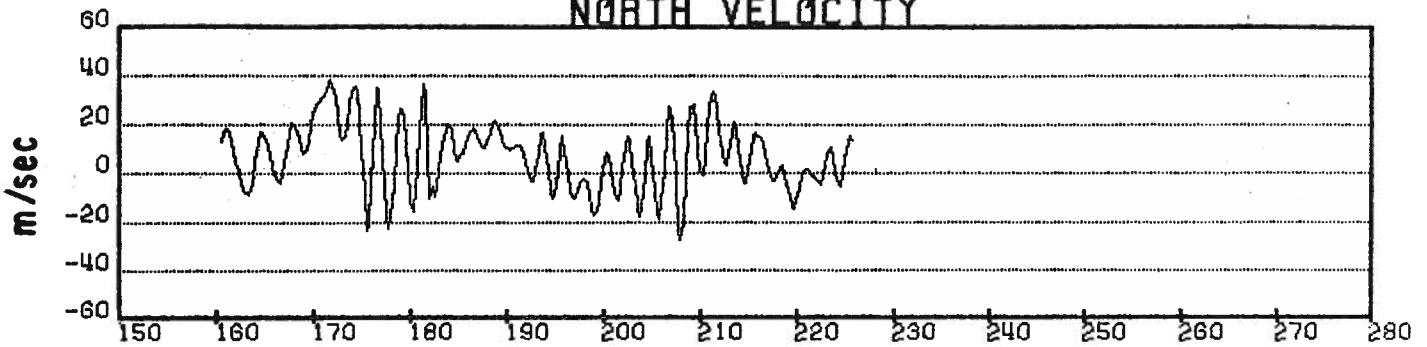
Figure 40. Trajectory of drifting buoy 2223.

BUOY 2223

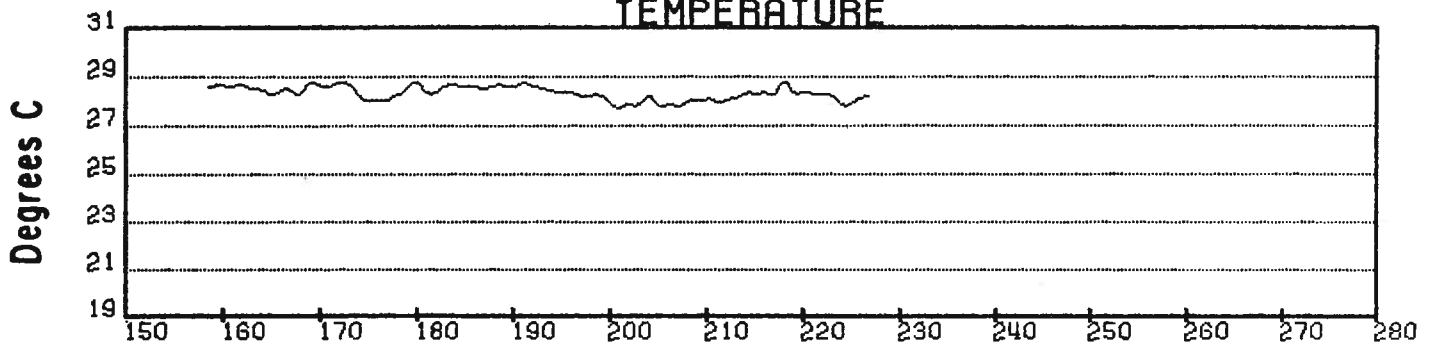
EAST VELOCITY



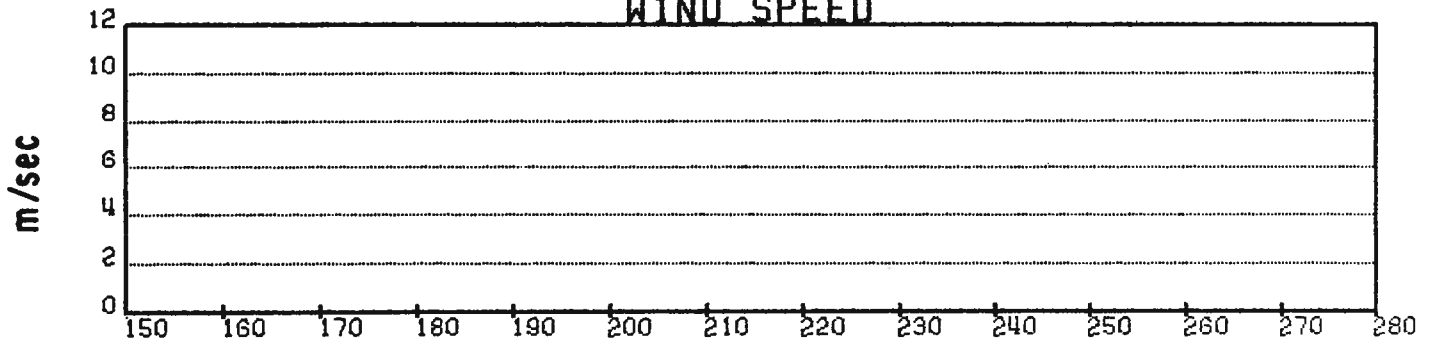
NORTH VELOCITY



TEMPERATURE



WIND SPEED



JULIAN DAYS

Figure 41. Time series of velocity and sensor data for drifting buoy 2223.

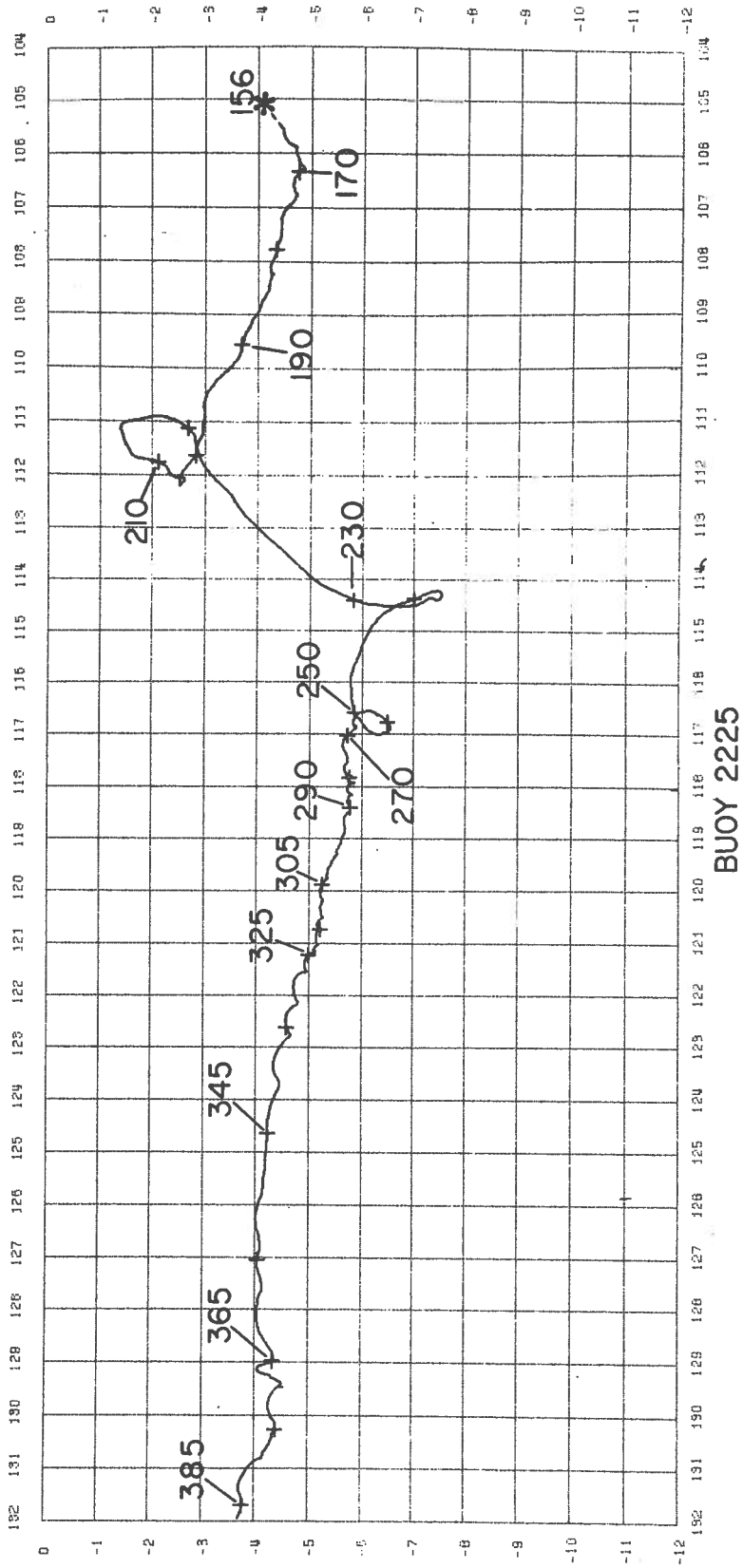


Figure 42. Trajectory of drifting buoy 2225.

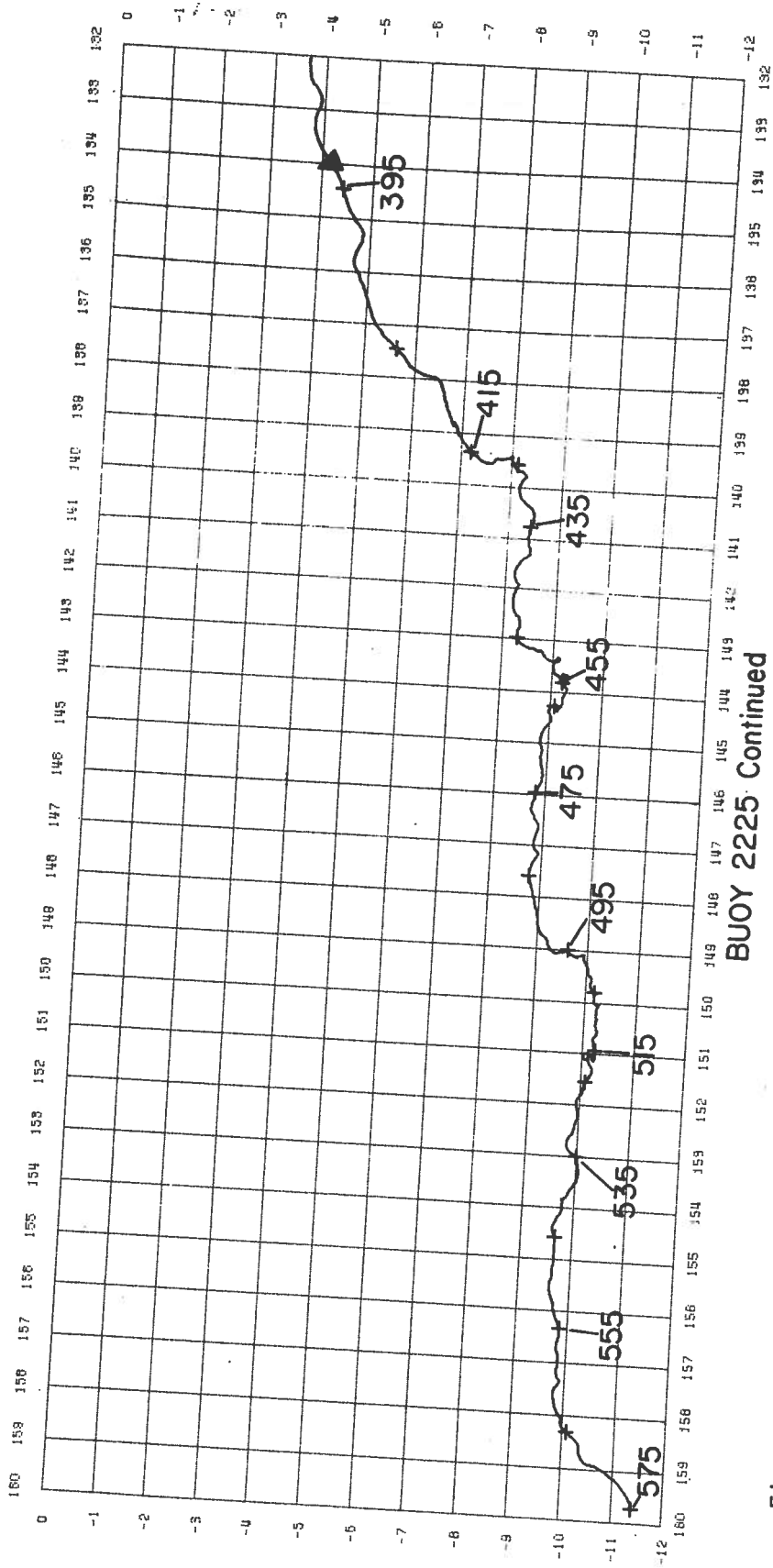
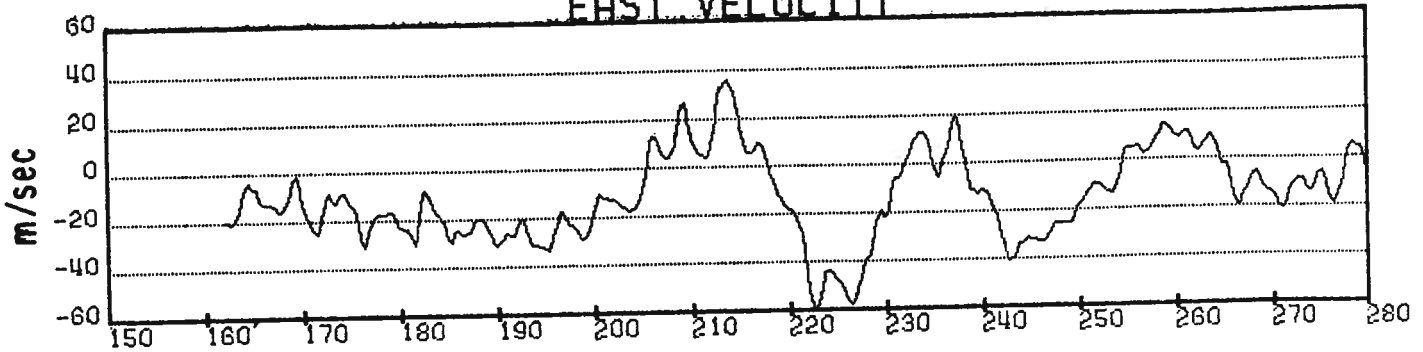


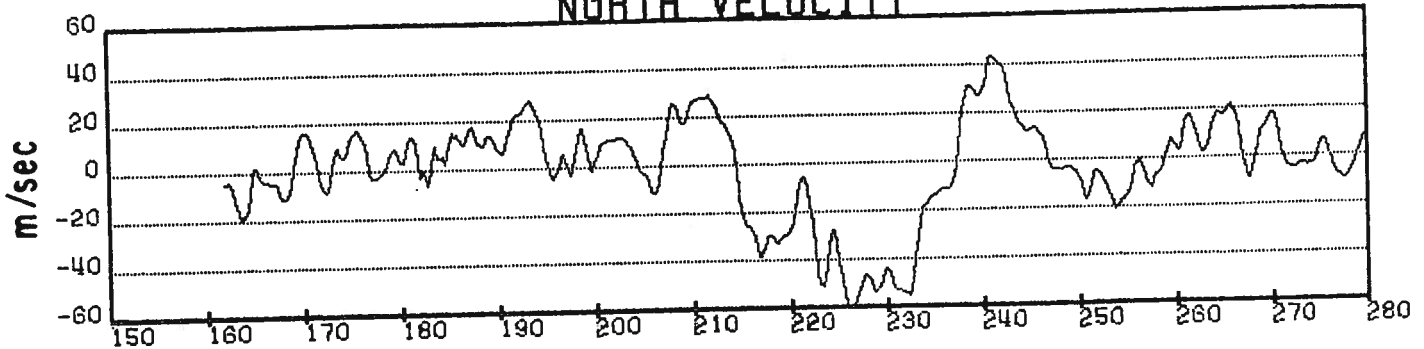
Figure 42. (Continued).

BUOY 2225

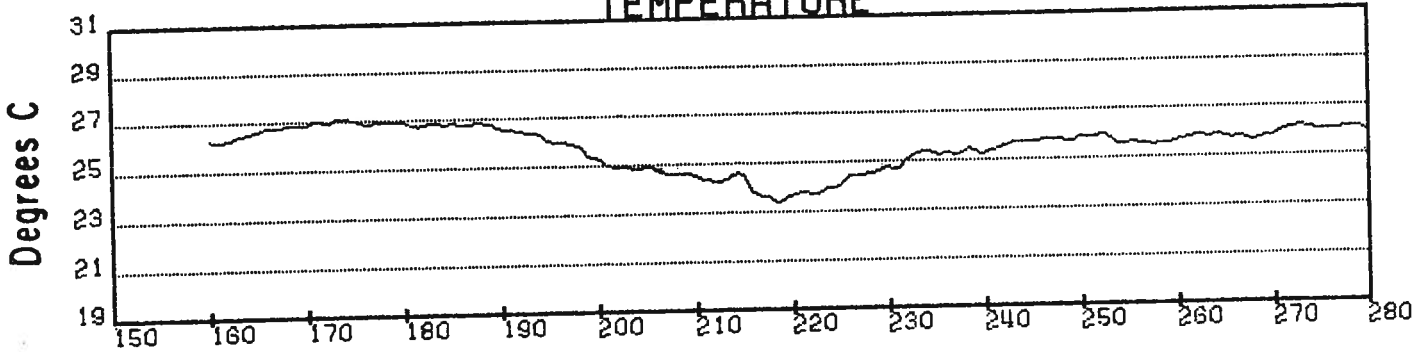
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

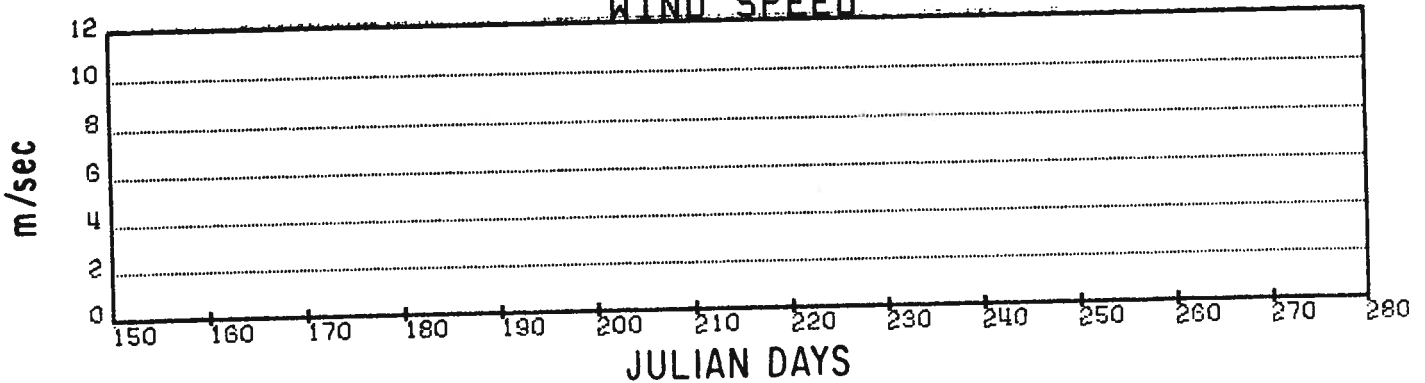
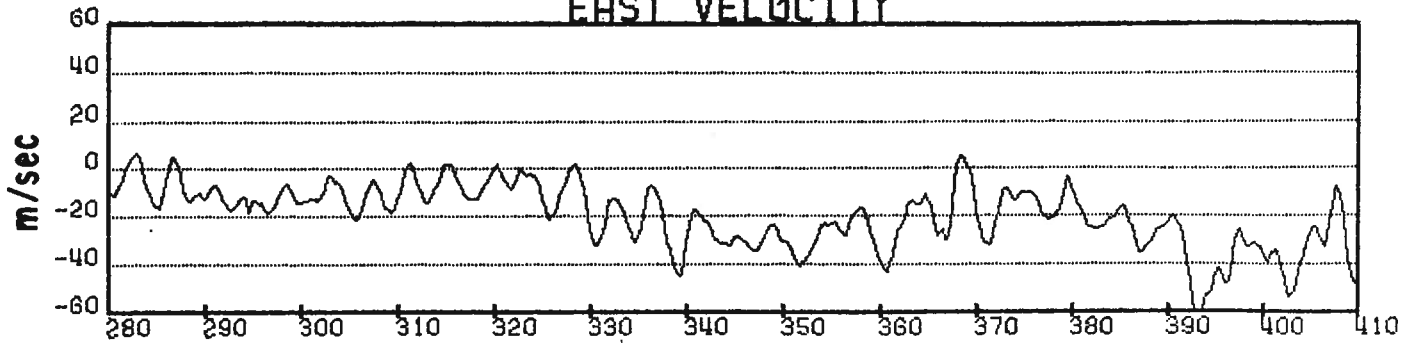


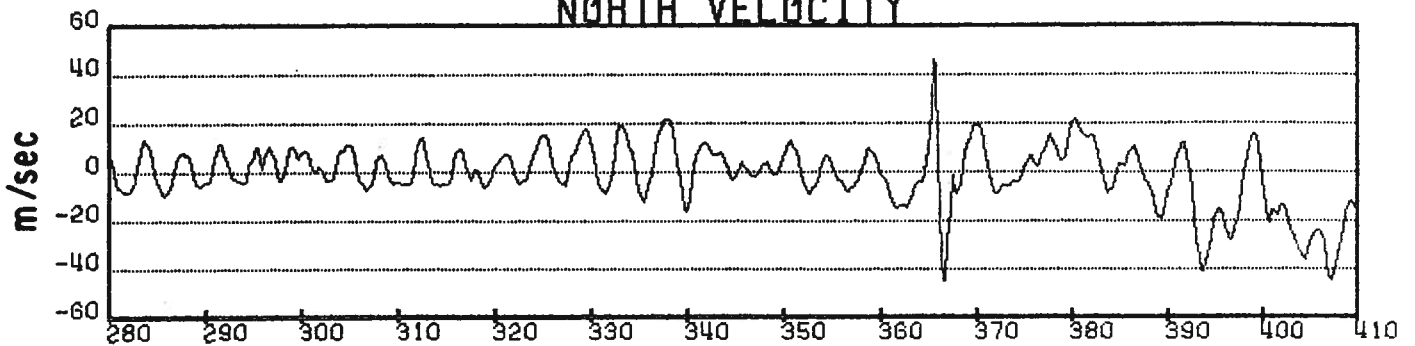
Figure 43. Time series of velocity and sensor data for drifting buoy 2225.

BUOY 2225

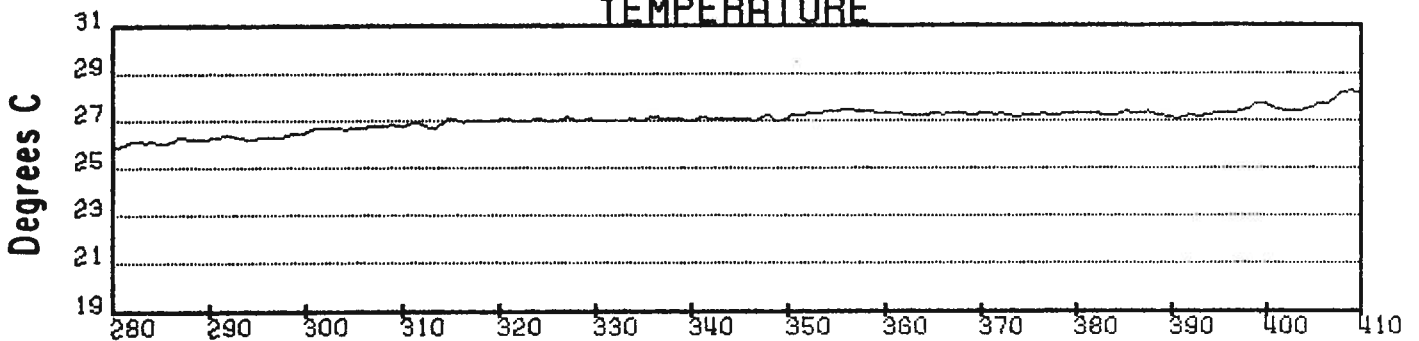
EAST VELOCITY



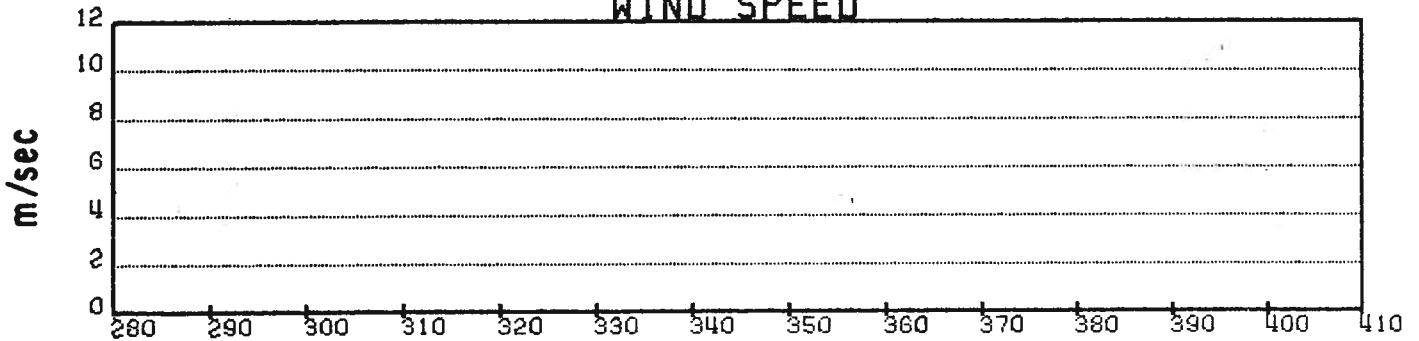
NORTH VELOCITY



TEMPERATURE



WIND SPEED

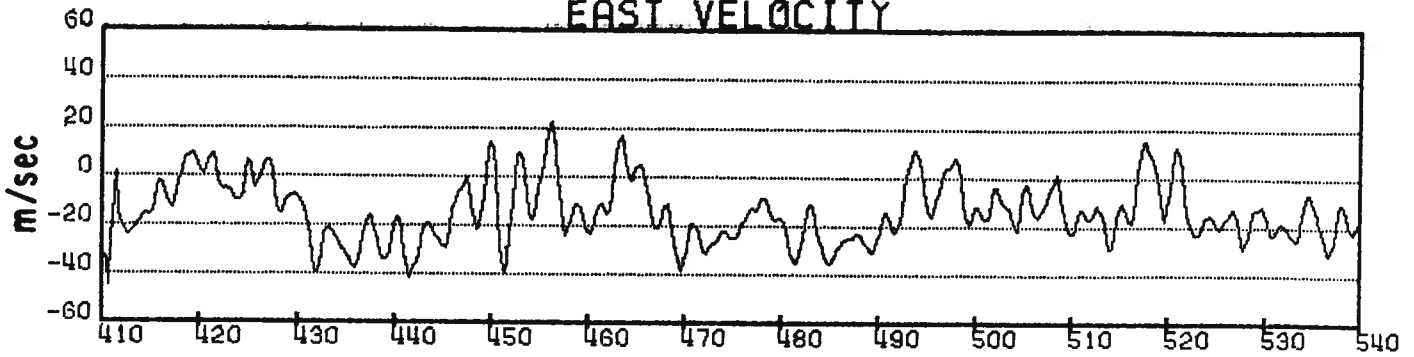


JULIAN DAYS

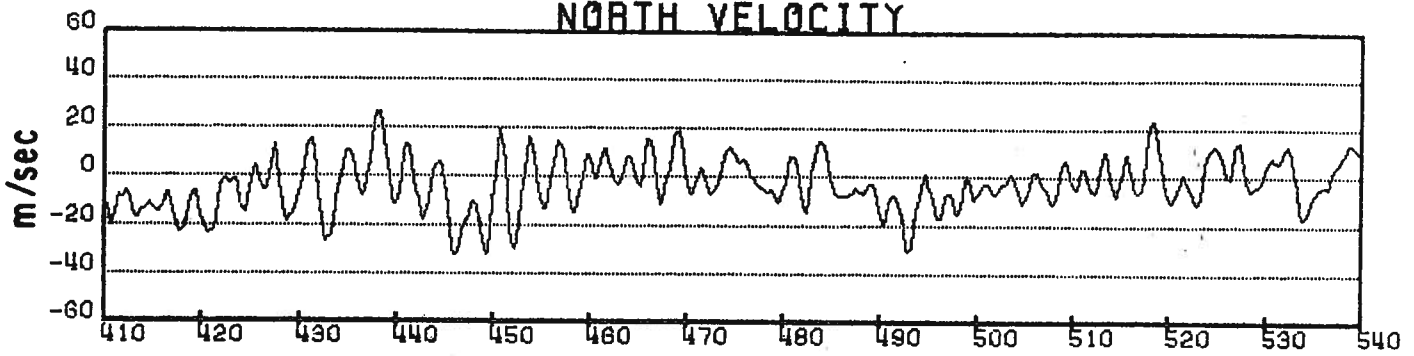
Figure 43. (Continued).

BUOY 2225

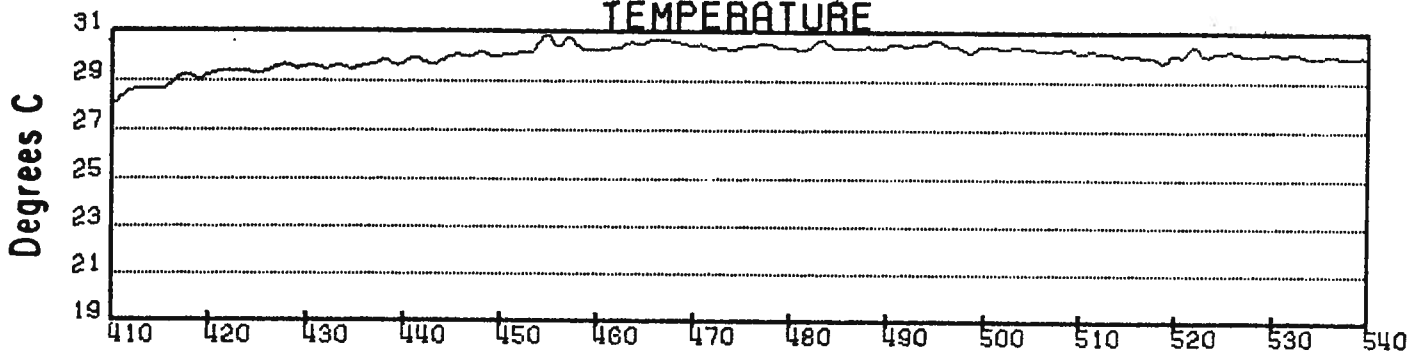
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

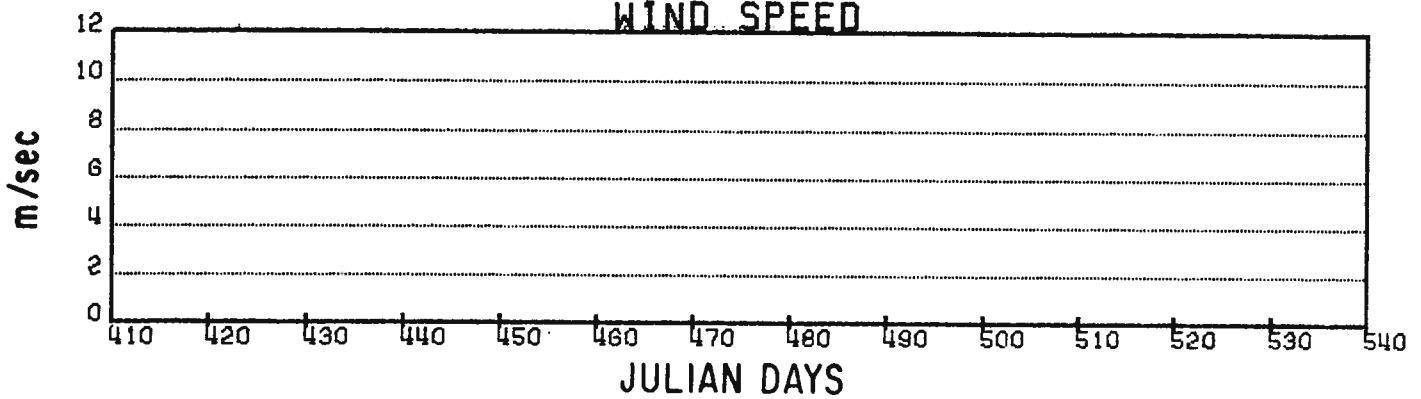
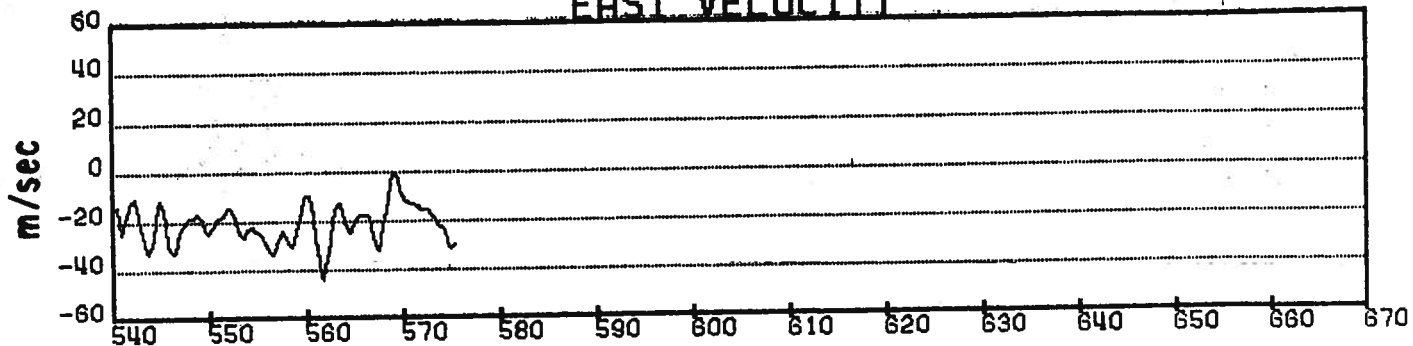


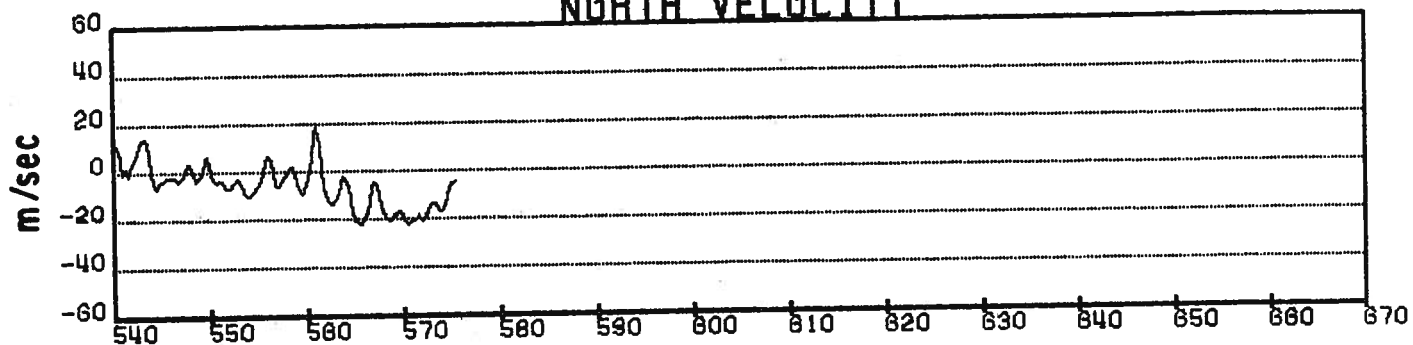
Figure 43. (Continued).

BUOY 2225

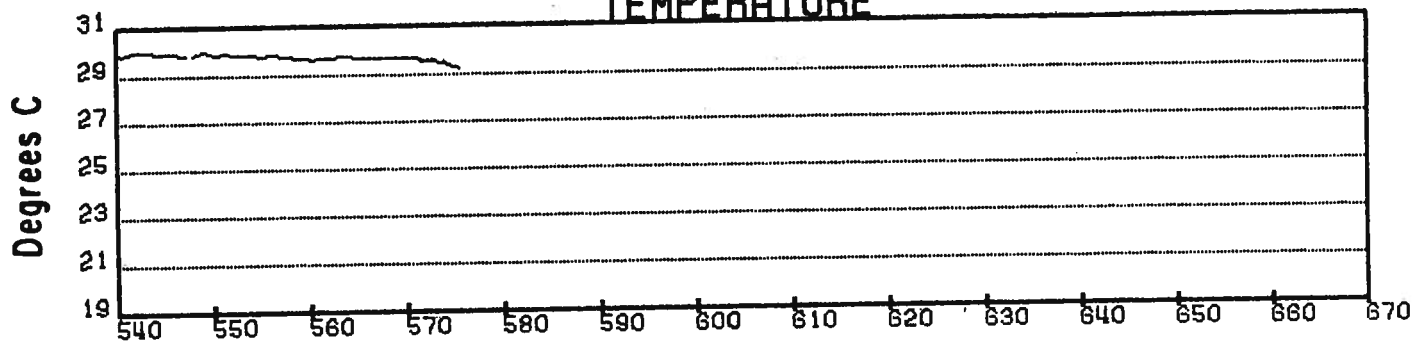
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

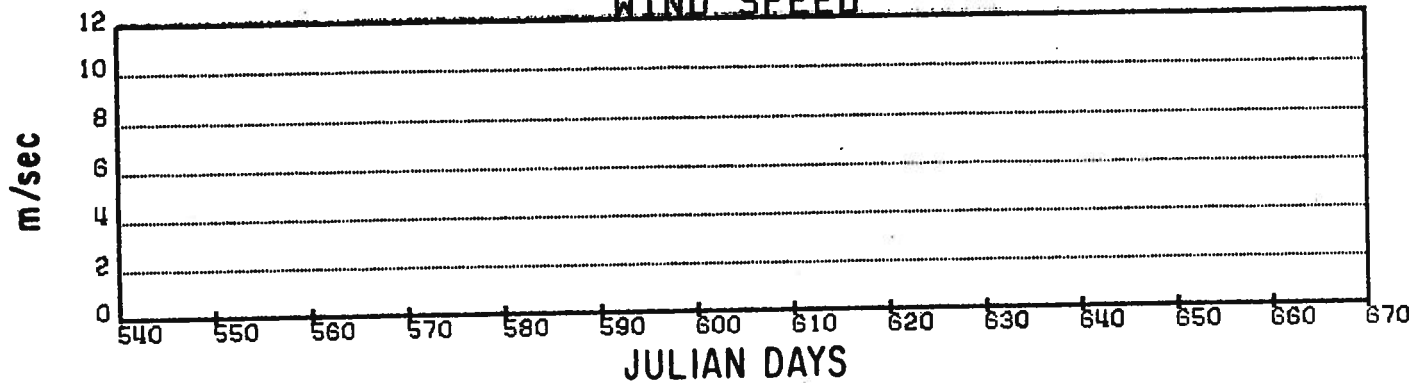
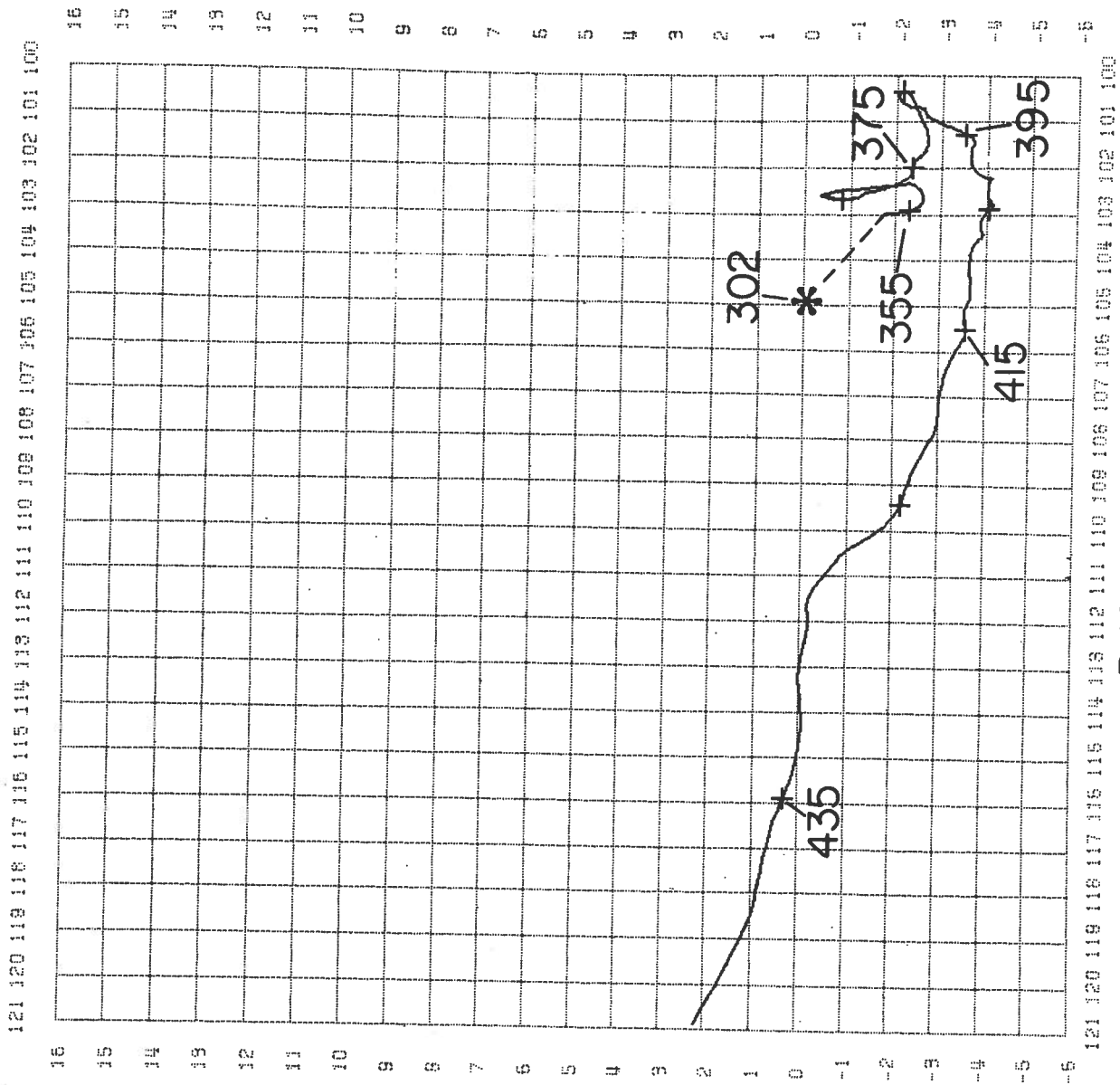
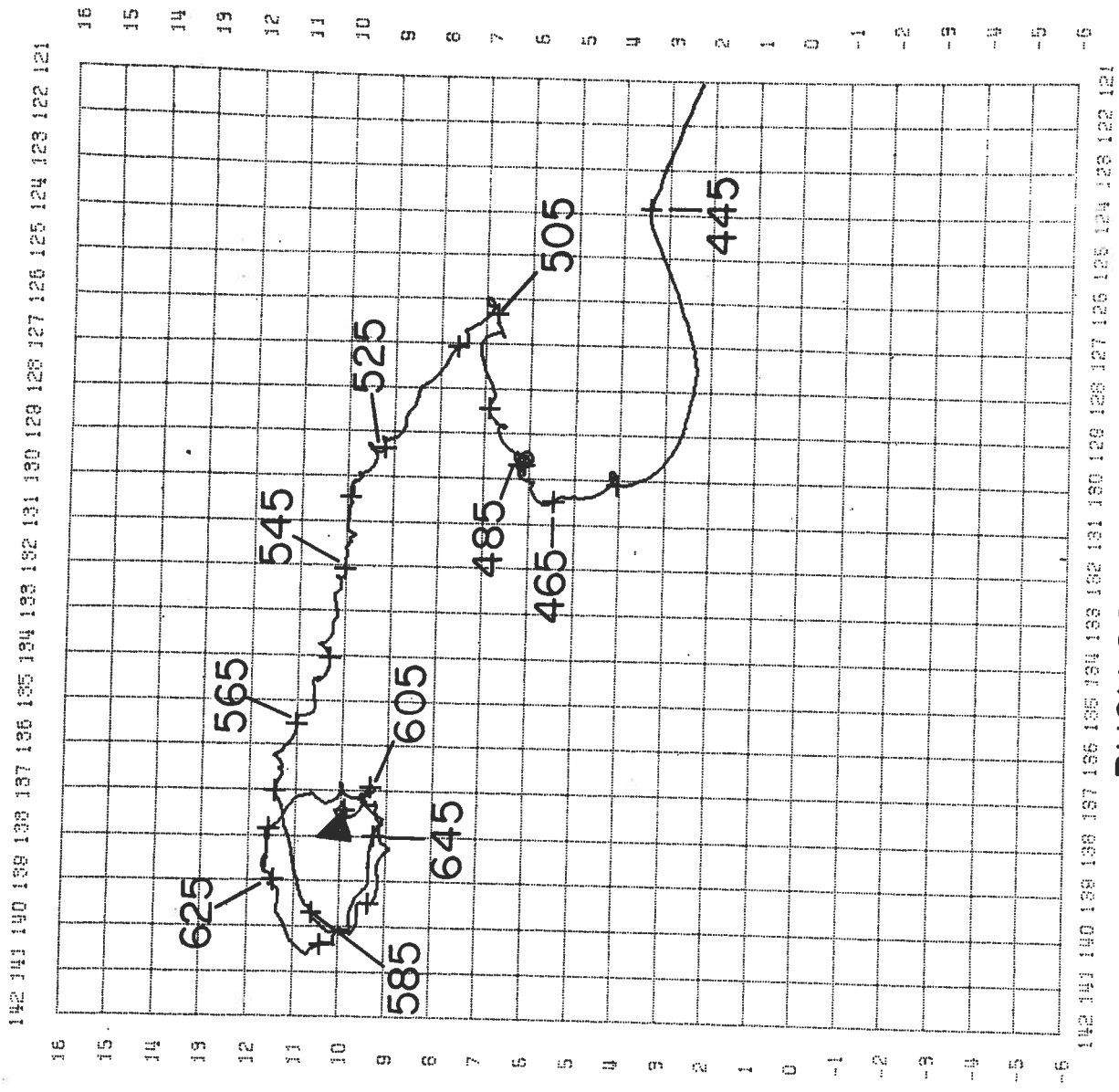


Figure 43. (Continued).



BUOY 2226

Figure 44. Trajectory of drifting buoy 2226.

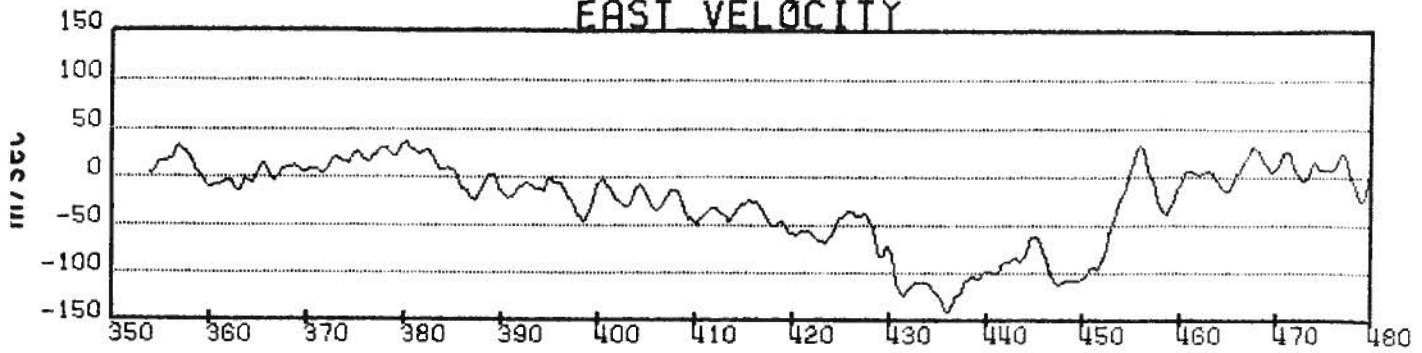


BUOY 2226 Continued

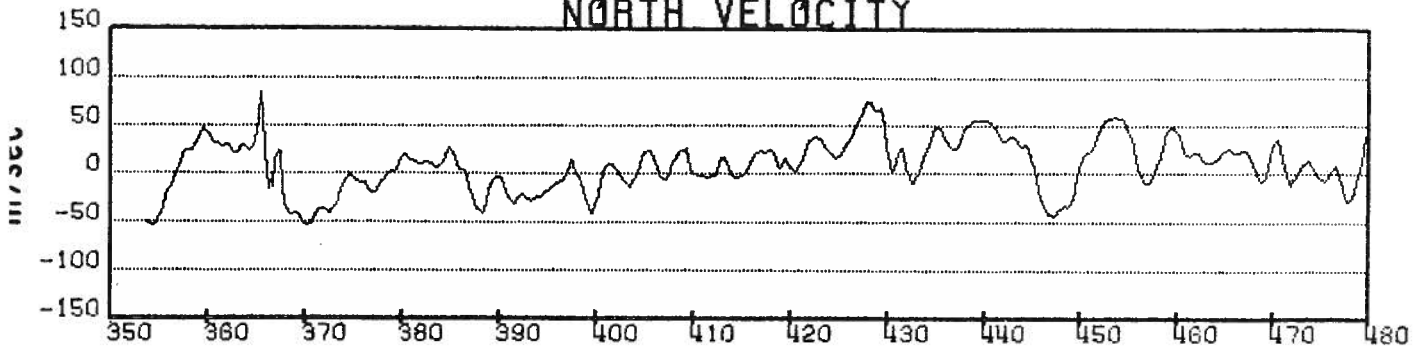
Figure 44. (Continued).

BUOY 2226

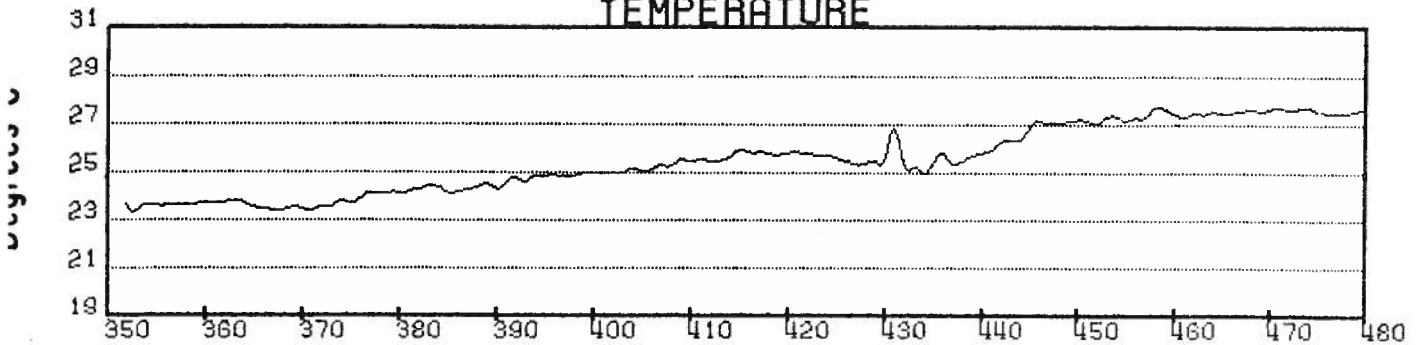
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

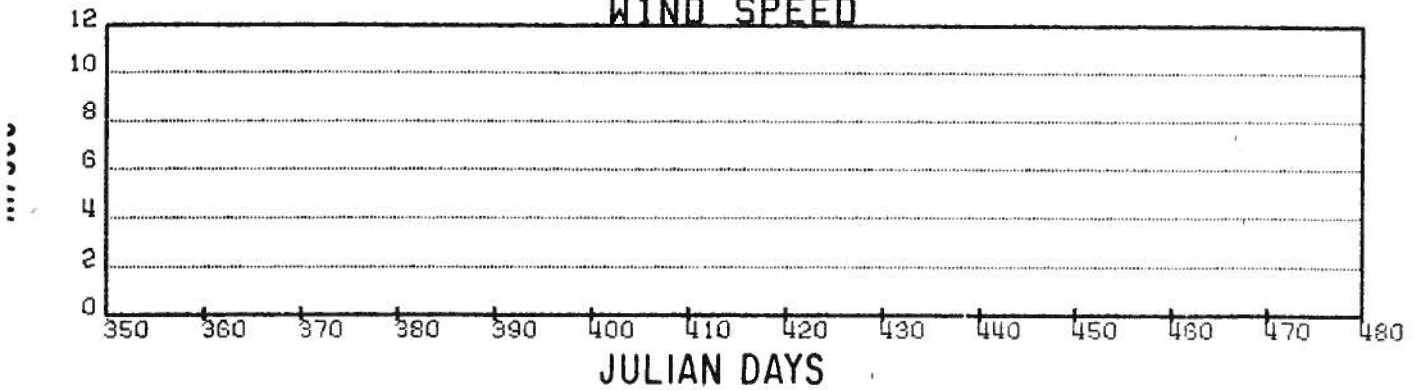
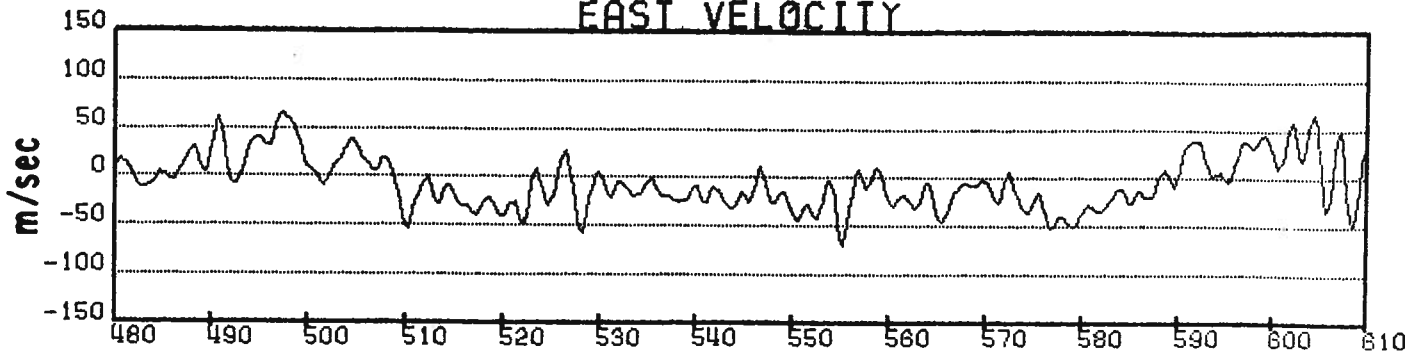


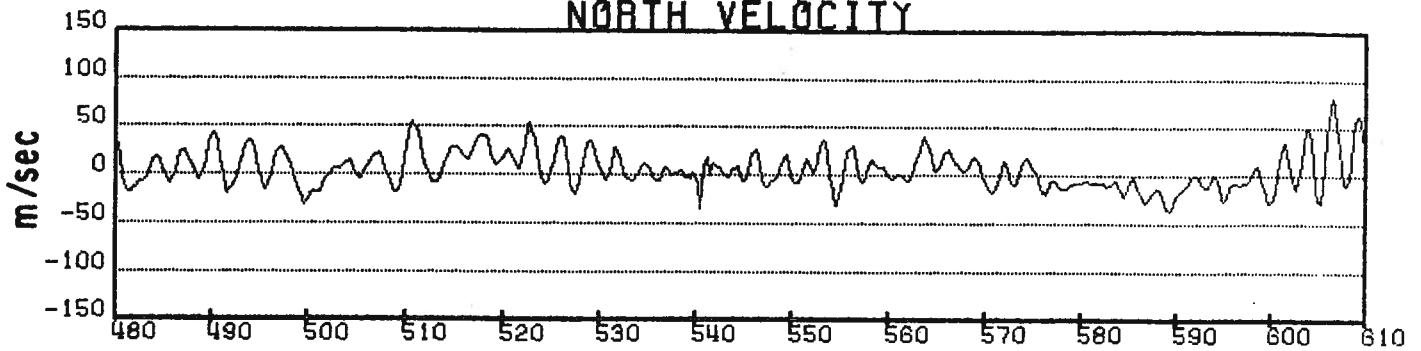
Figure 45. Time series of velocity and sensor data for drifting buoy 2226.

BUOY 2226

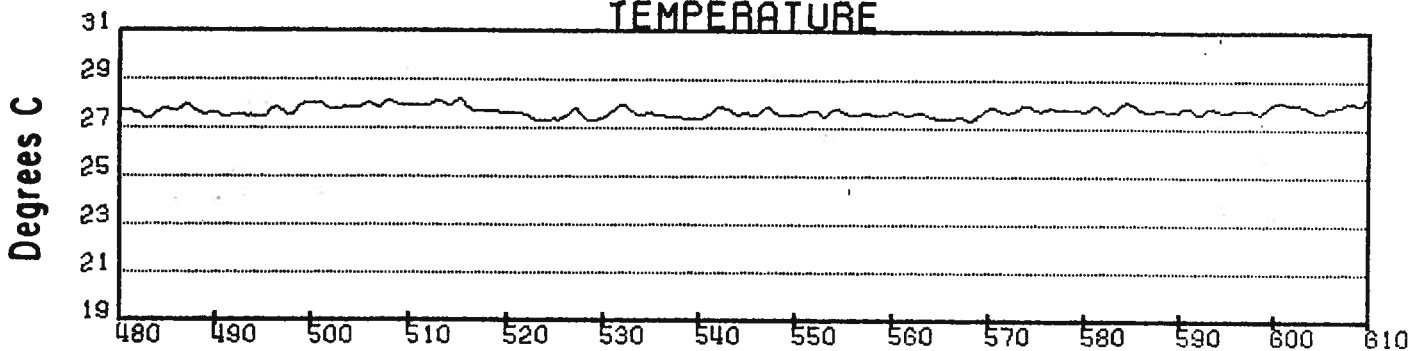
EAST VELOCITY



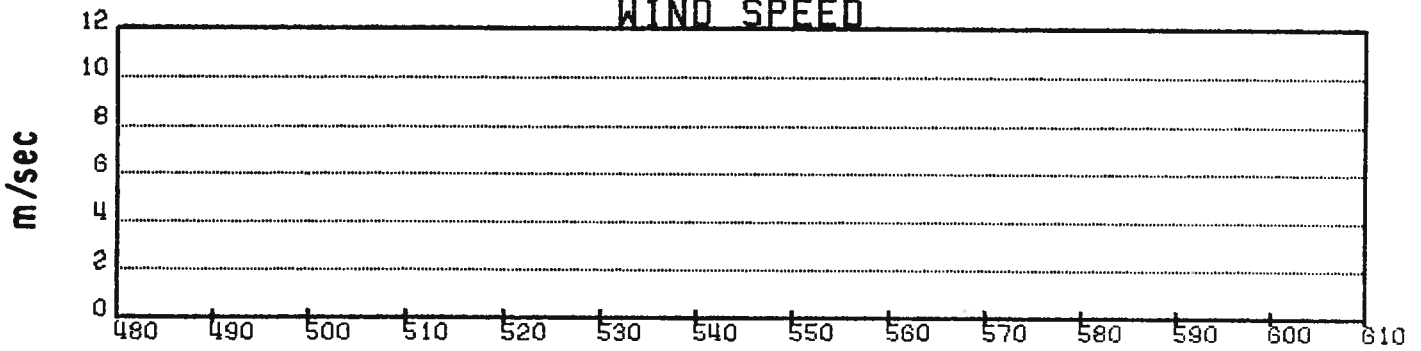
NORTH VELOCITY



TEMPERATURE



WIND SPEED

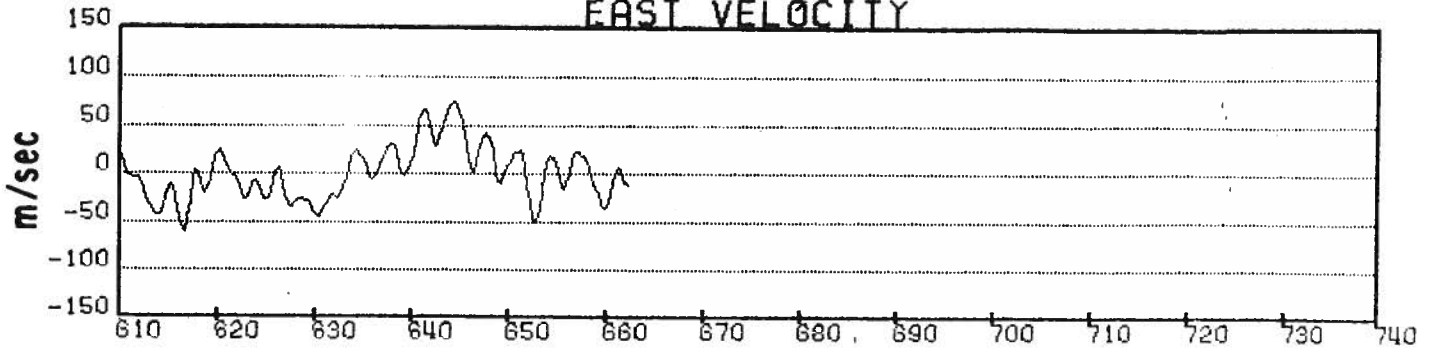


JULIAN DAYS

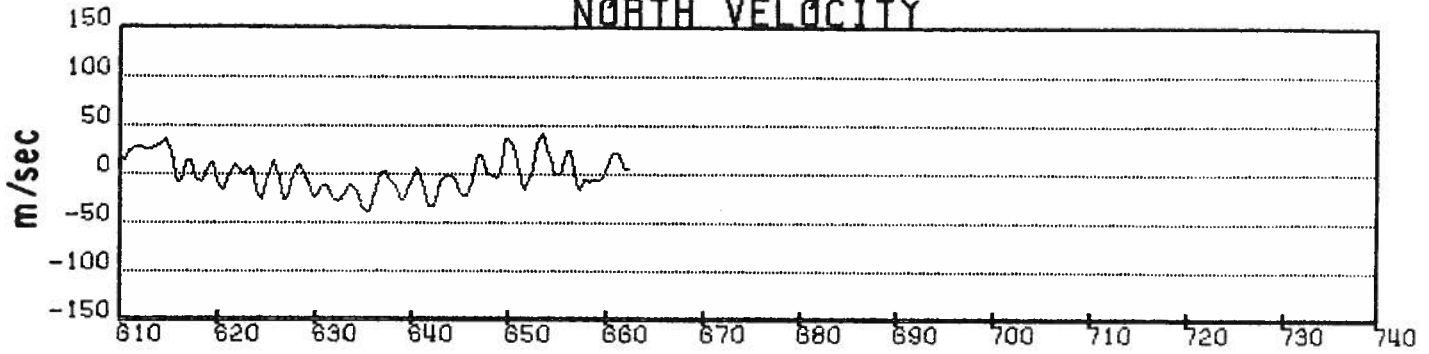
Figure 45. (Continued).

BUOY 2226

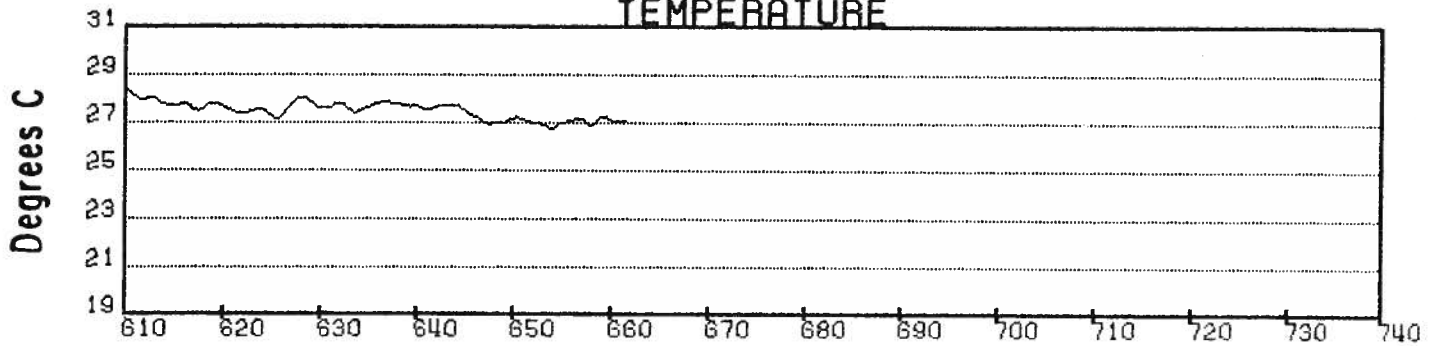
EAST VELOCITY



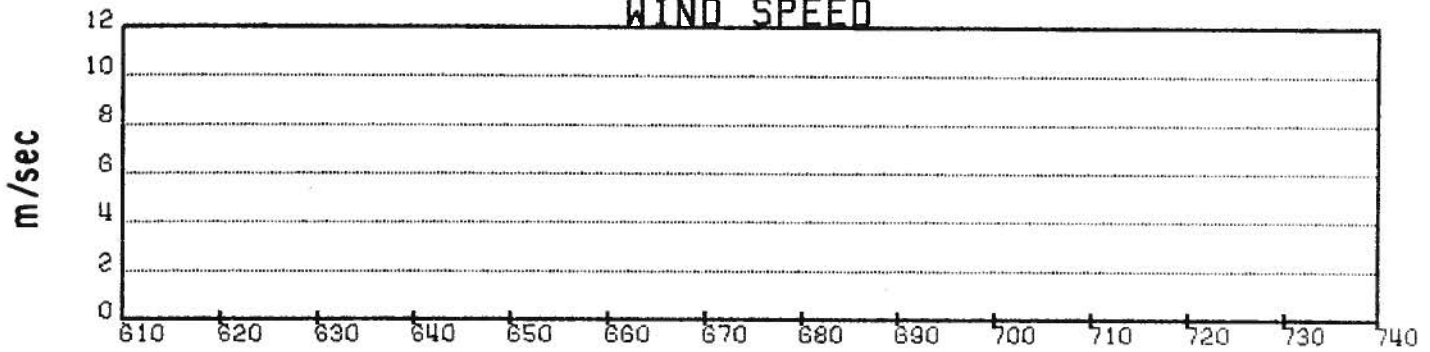
NORTH VELOCITY



TEMPERATURE

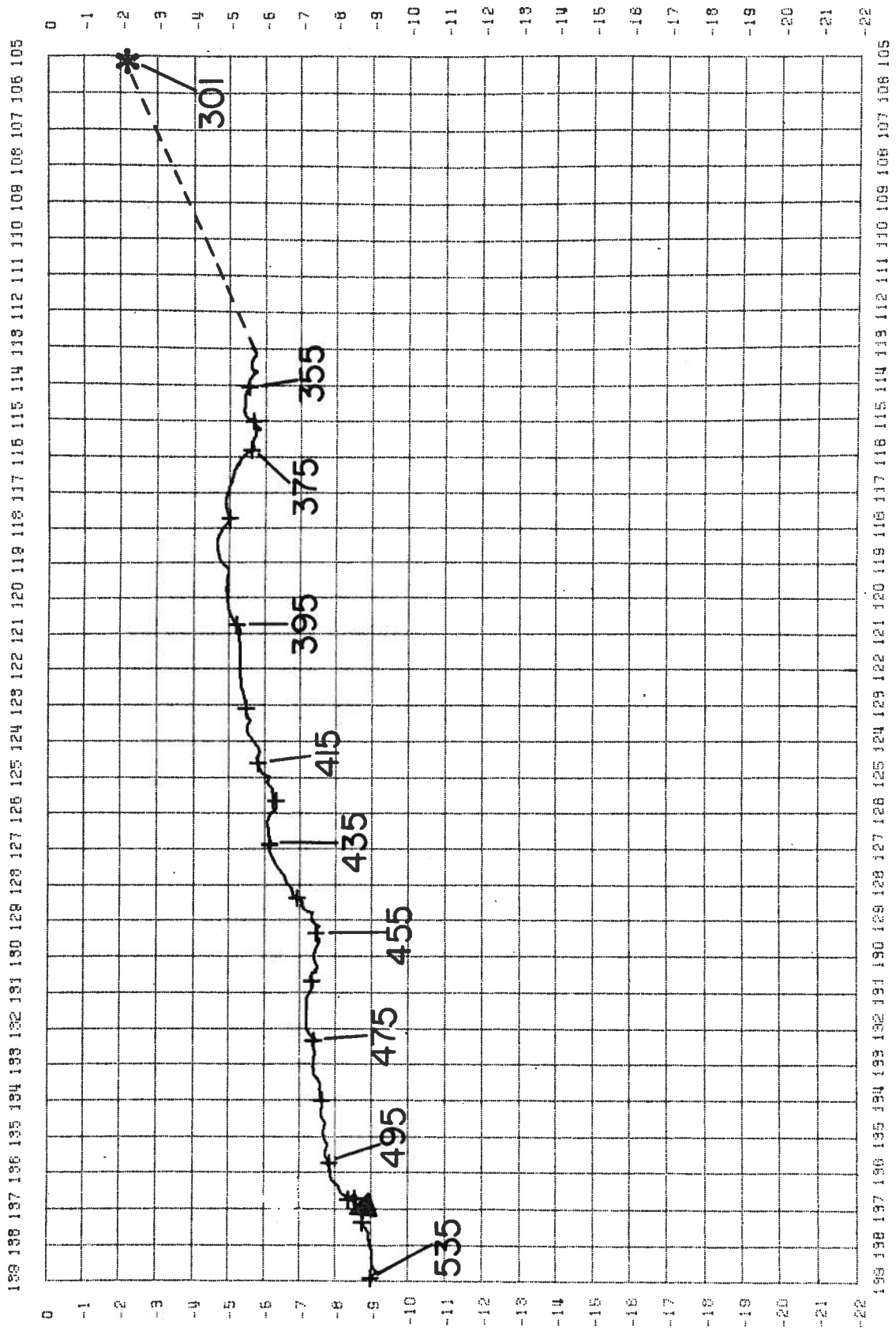


WIND SPEED



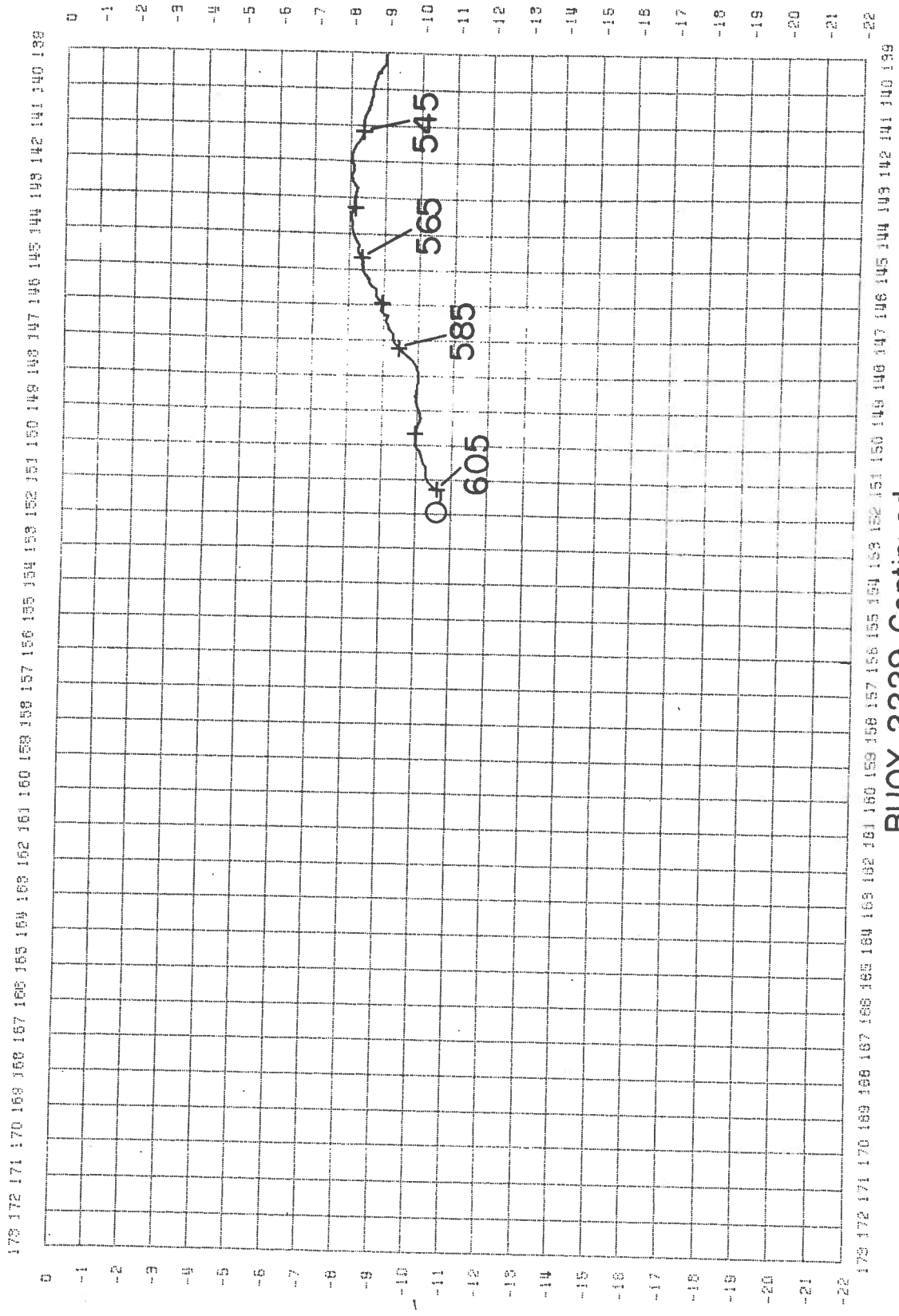
JULIAN DAYS

Figure 45. (Continued).



BUOY 2229

Figure 46. Trajectory of drifting buoy 2229.

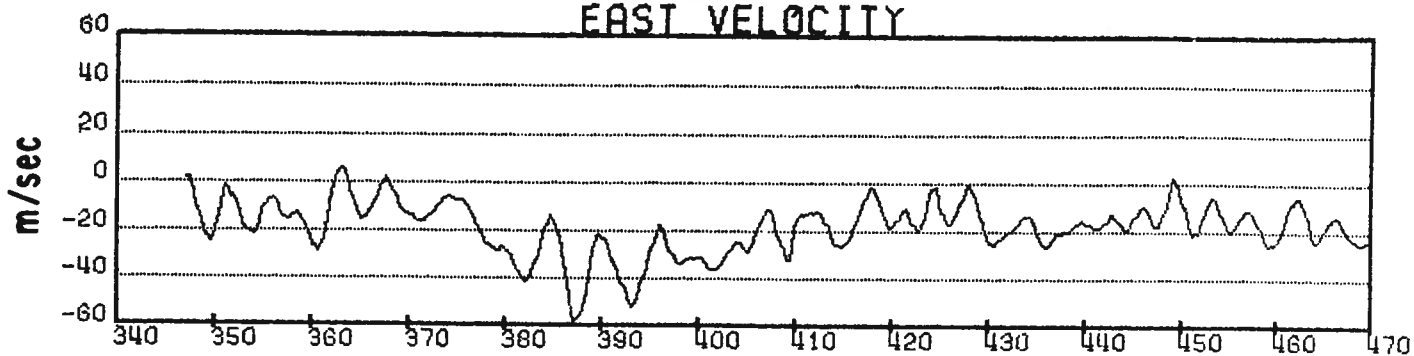


BUOY 2229 Continued

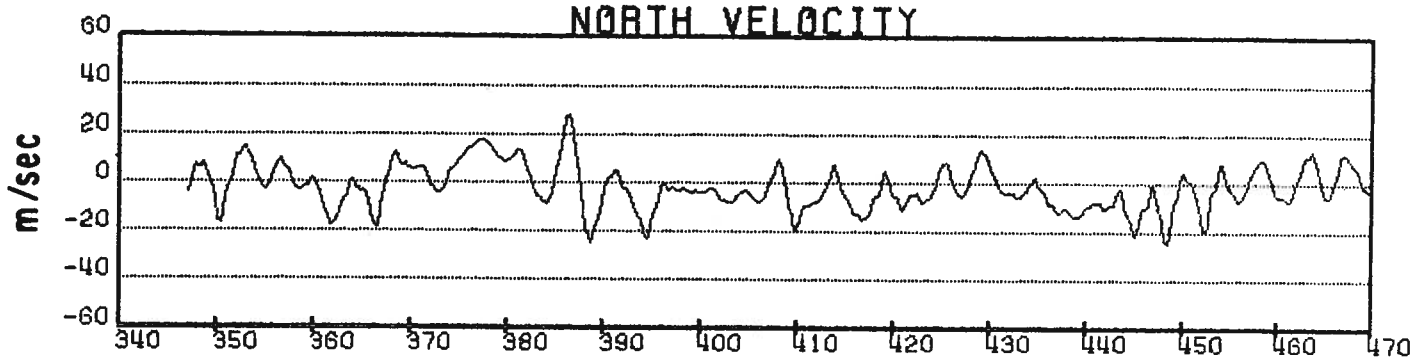
Figure 46. (Continued).

BUOY 2229

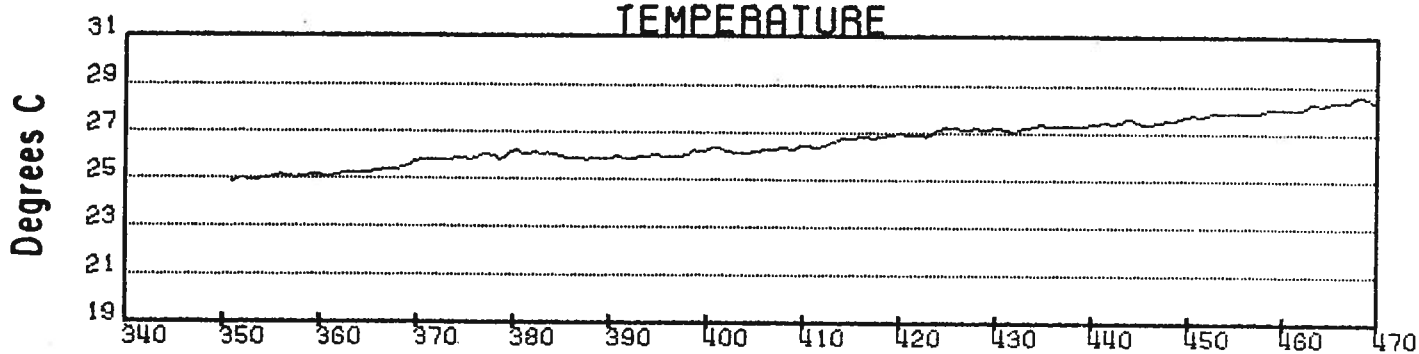
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

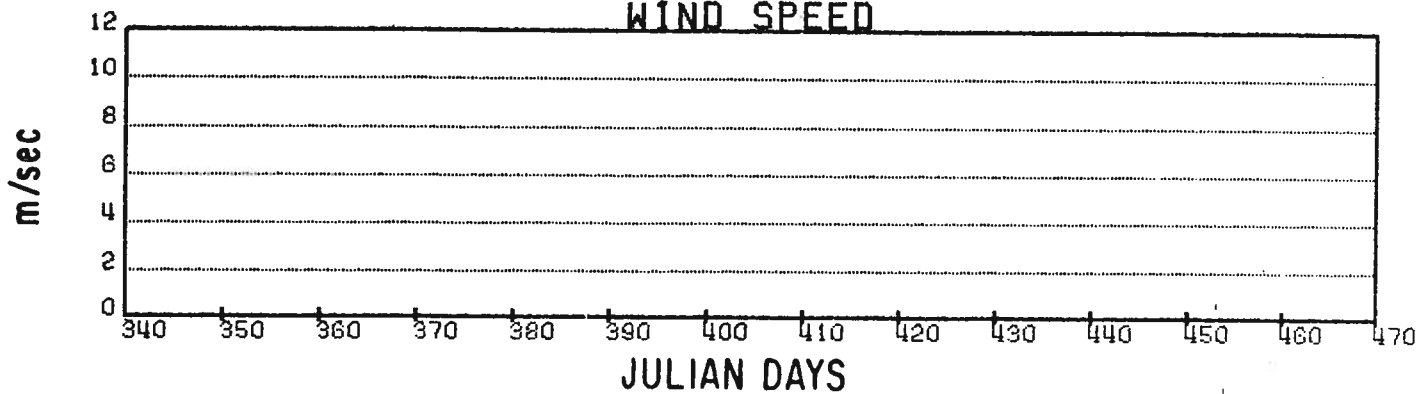
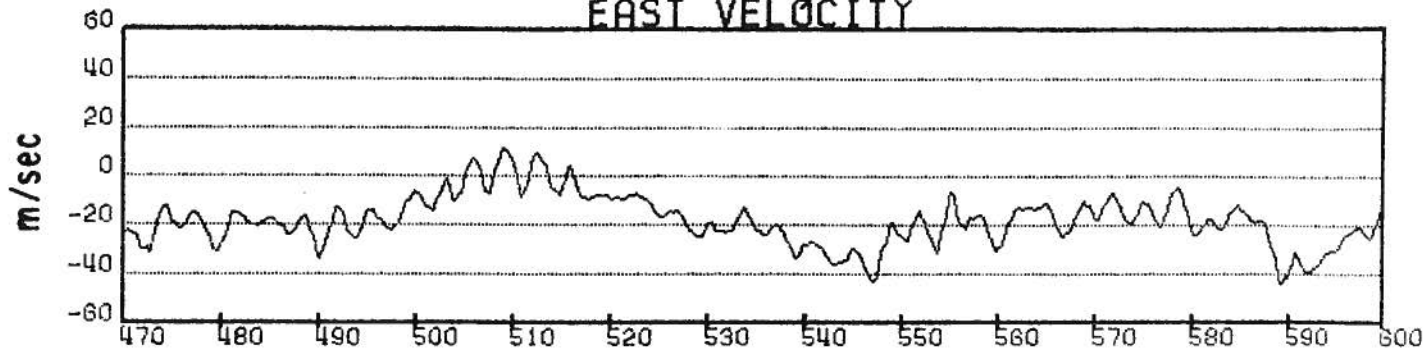


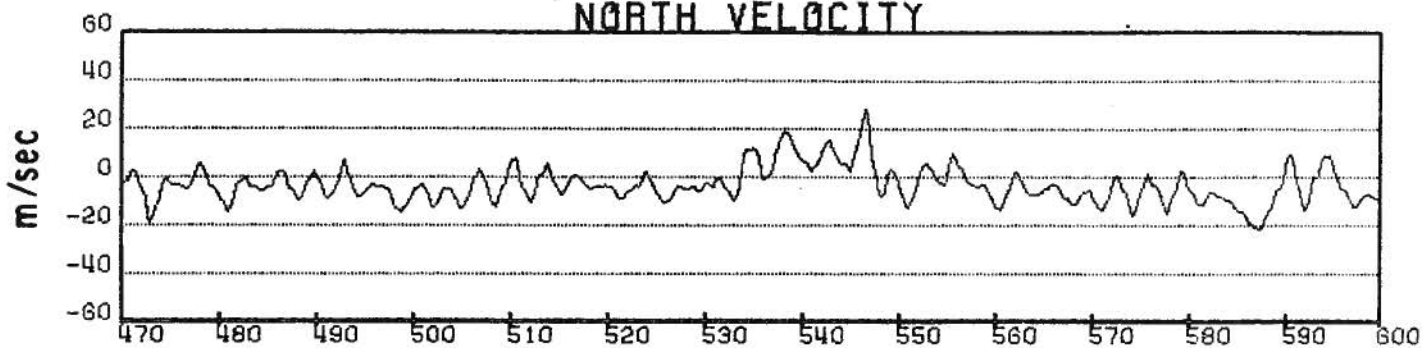
Figure 47. Time series of velocity and sensor data for drifting buoy 2229.

BUOY 2229

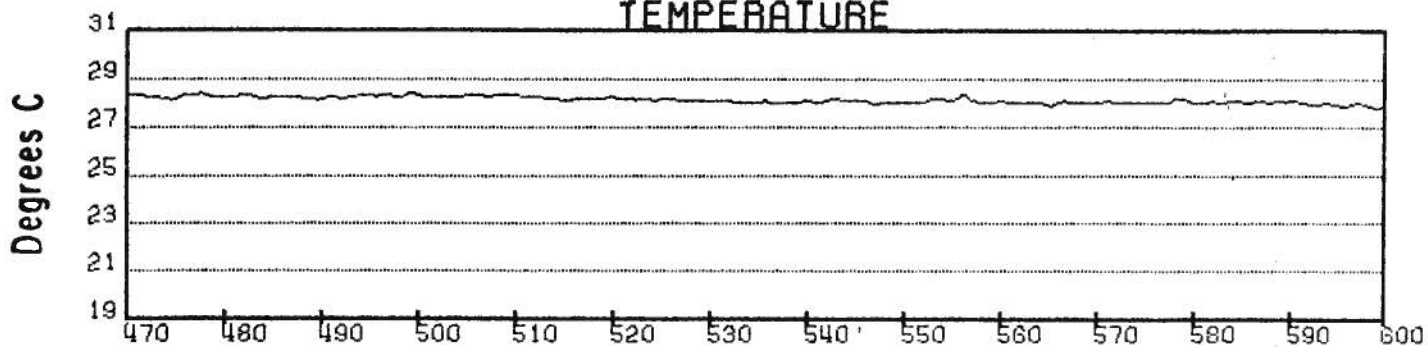
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

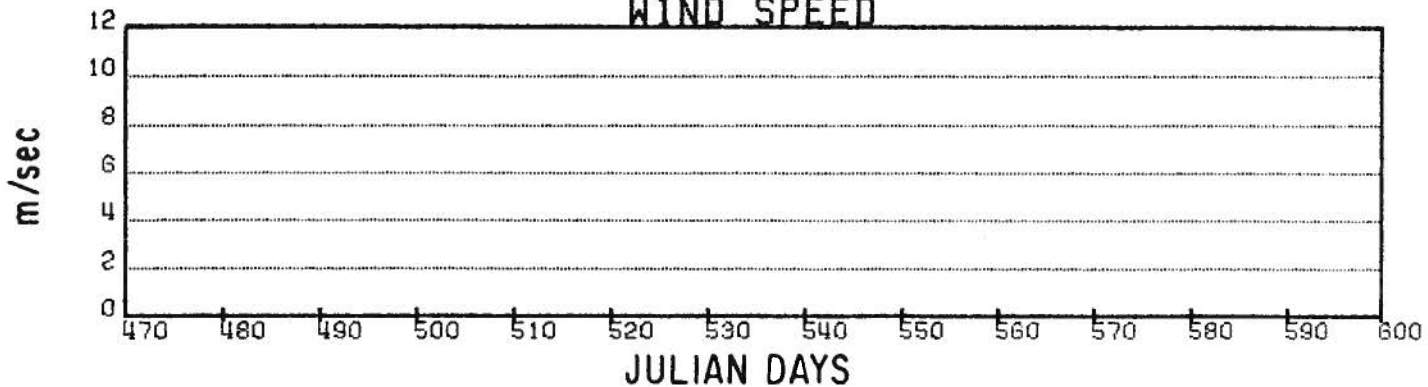
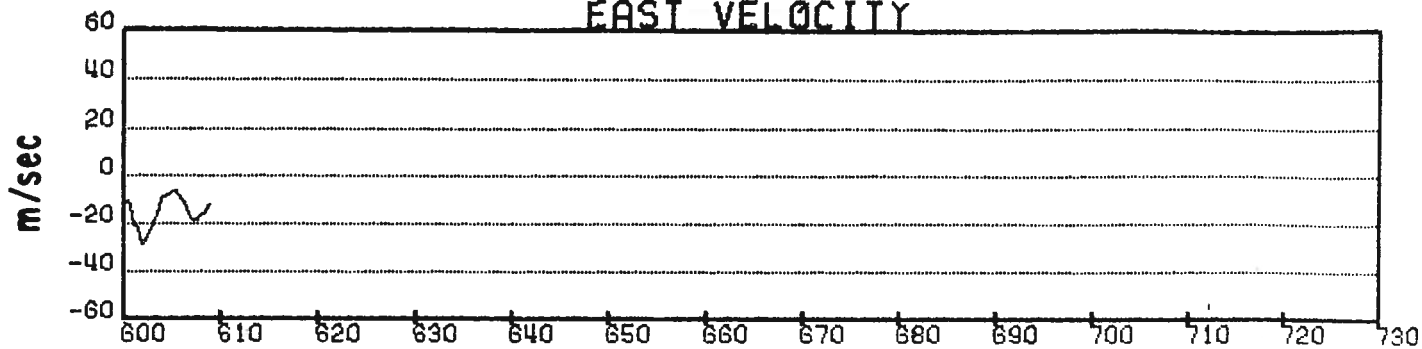


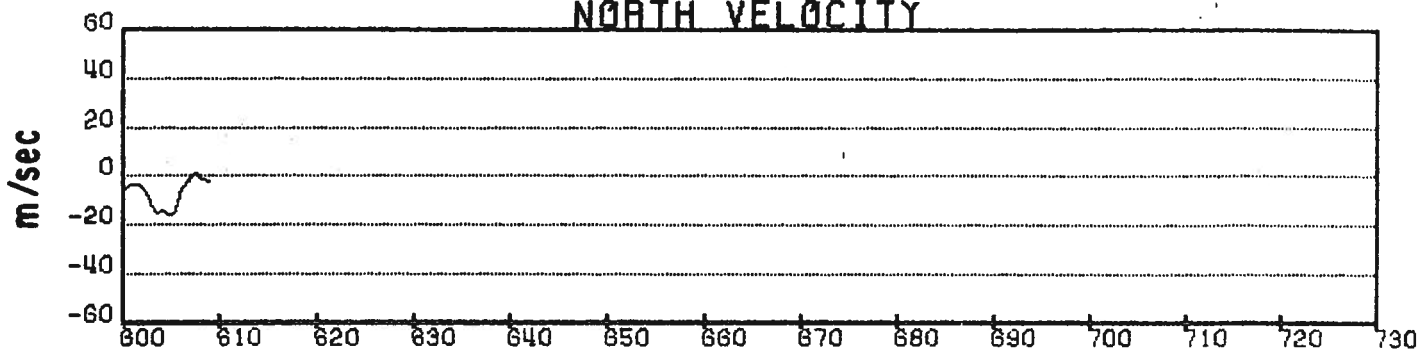
Figure 47. (Continued).

BUOY 2229

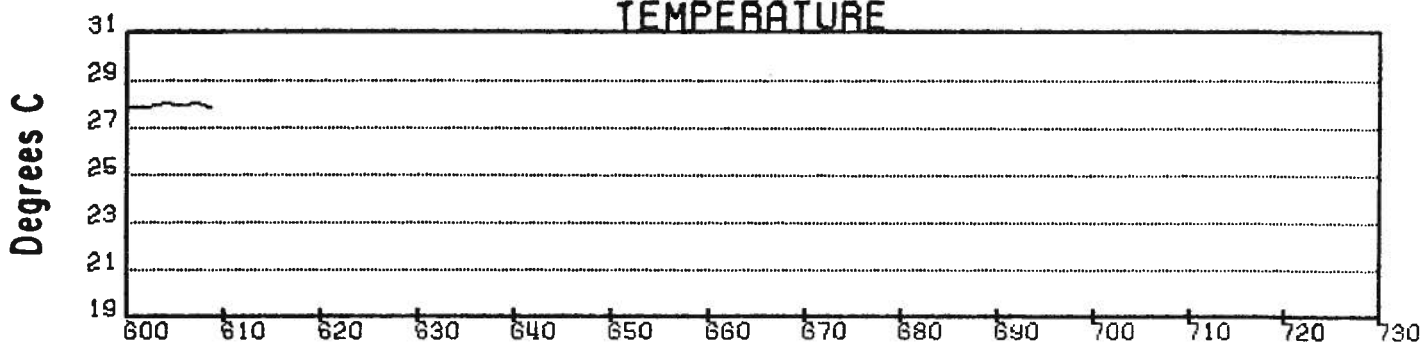
EAST VELOCITY



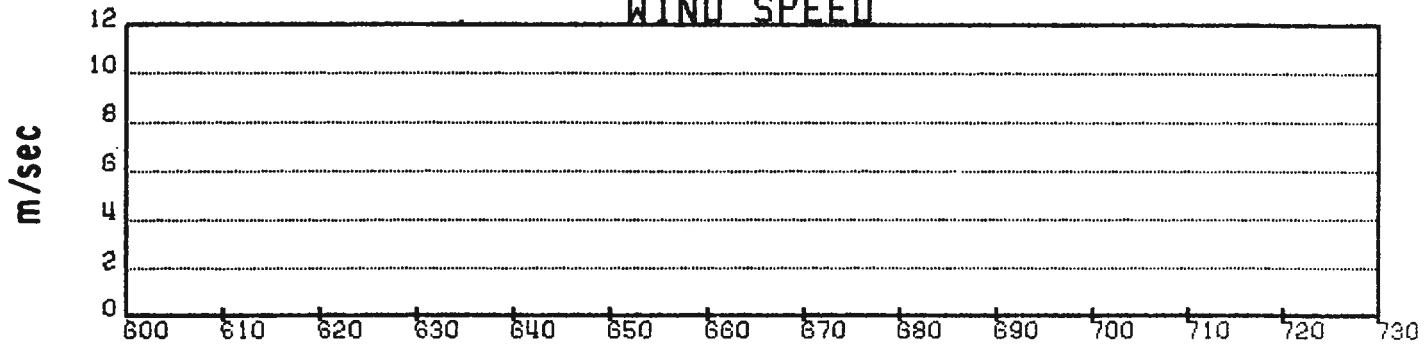
NORTH VELOCITY



TEMPERATURE

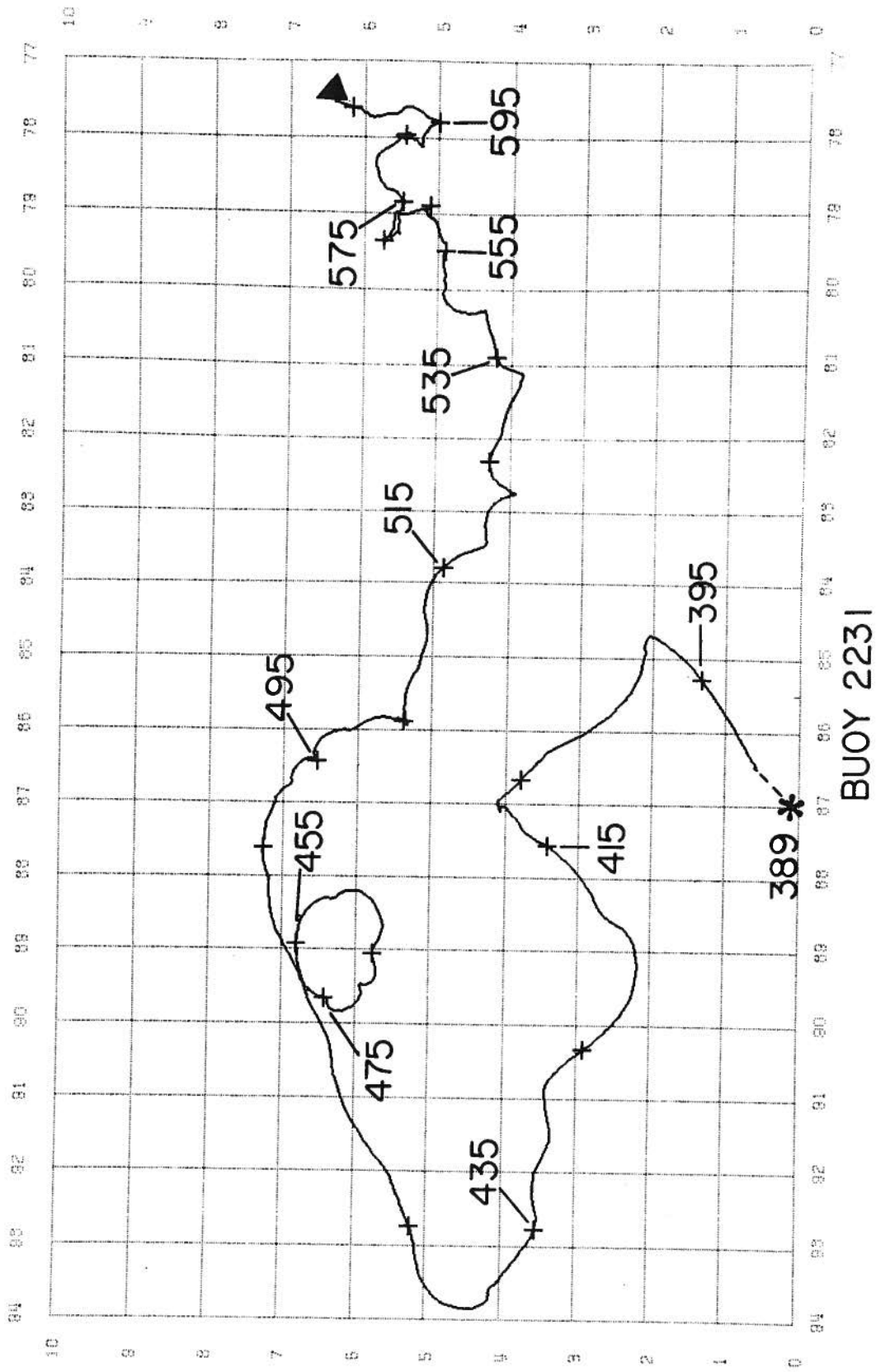


WIND SPEED



JULIAN DAYS

Figure 47. (Continued).



BUOY 2231

Figure 48. Trajectory of drifting buoy 2231.

BUOY 2231

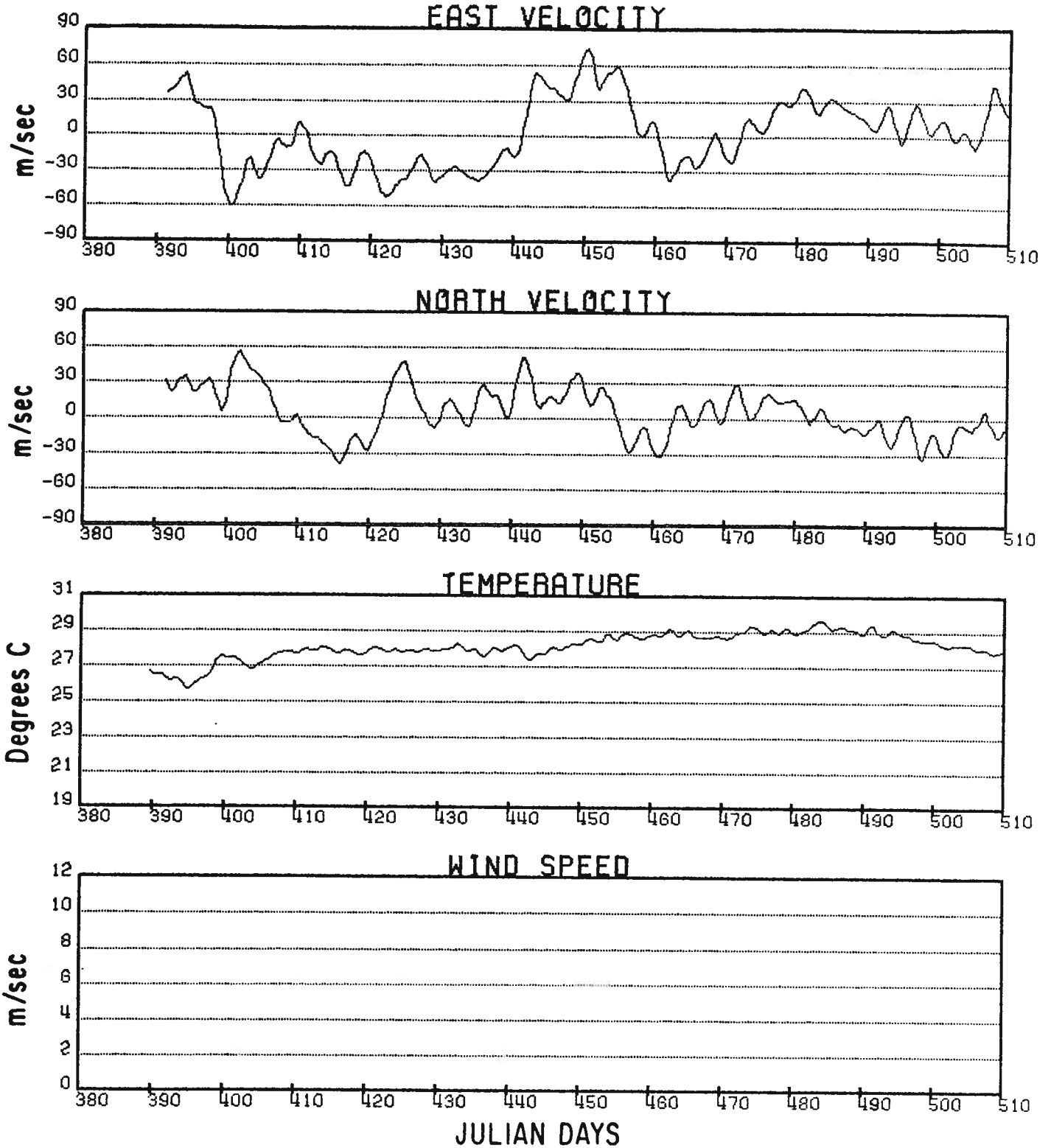
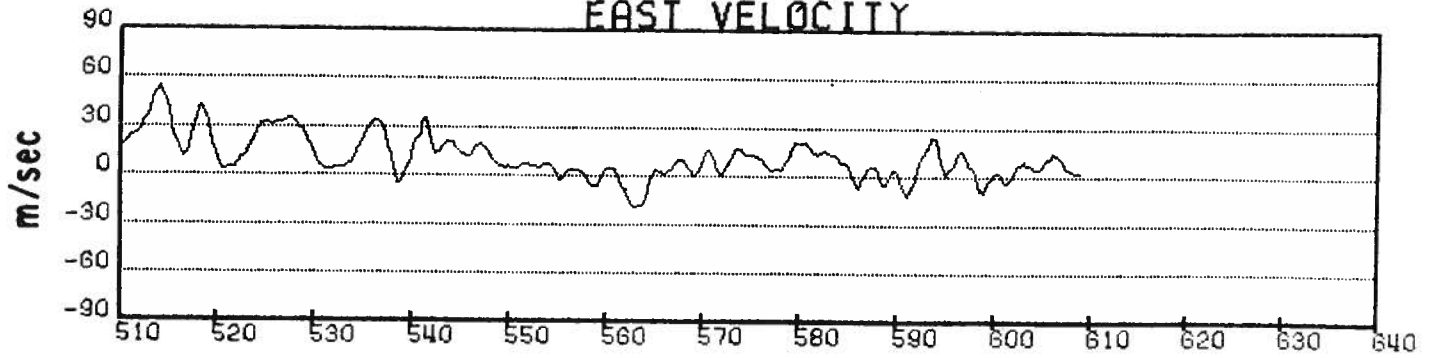


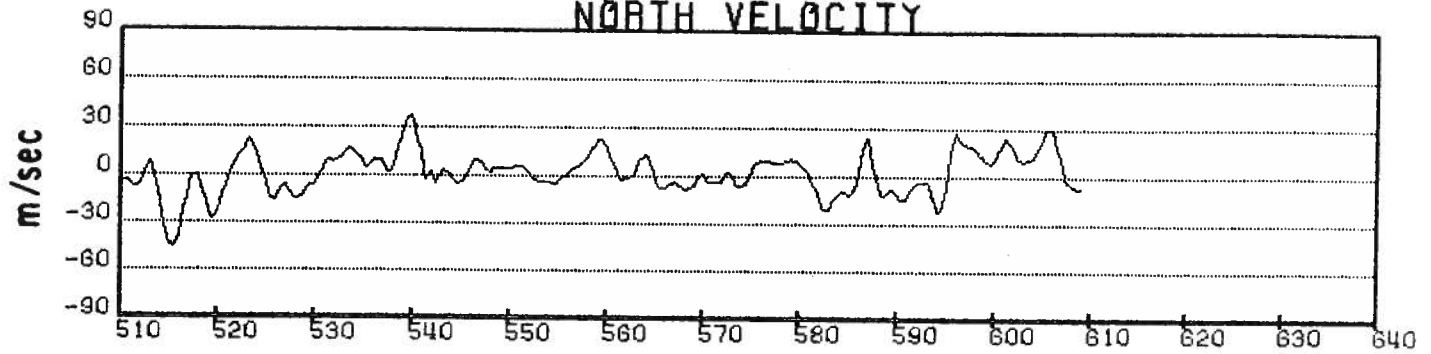
Figure 49. Time series of velocity and sensor data for drifting buoy 2231.

BUOY 2231

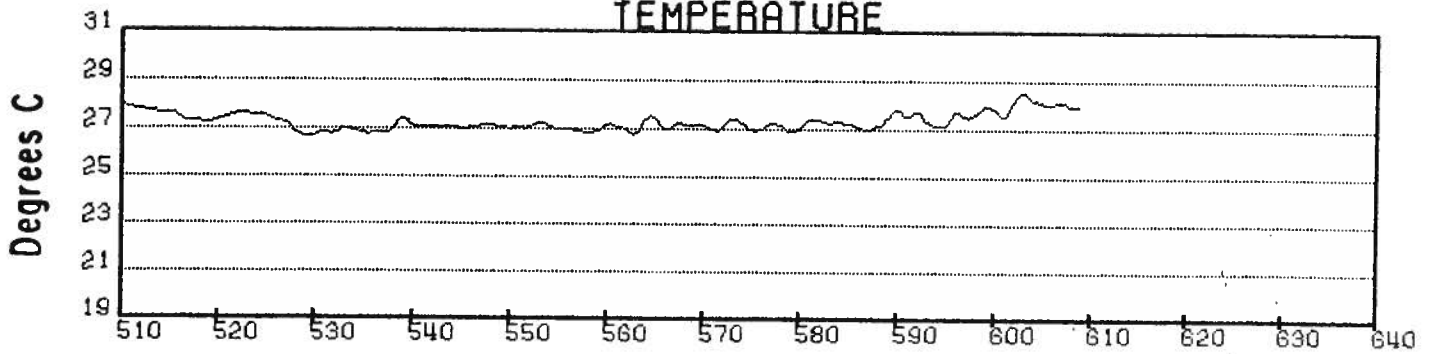
EAST VELOCITY



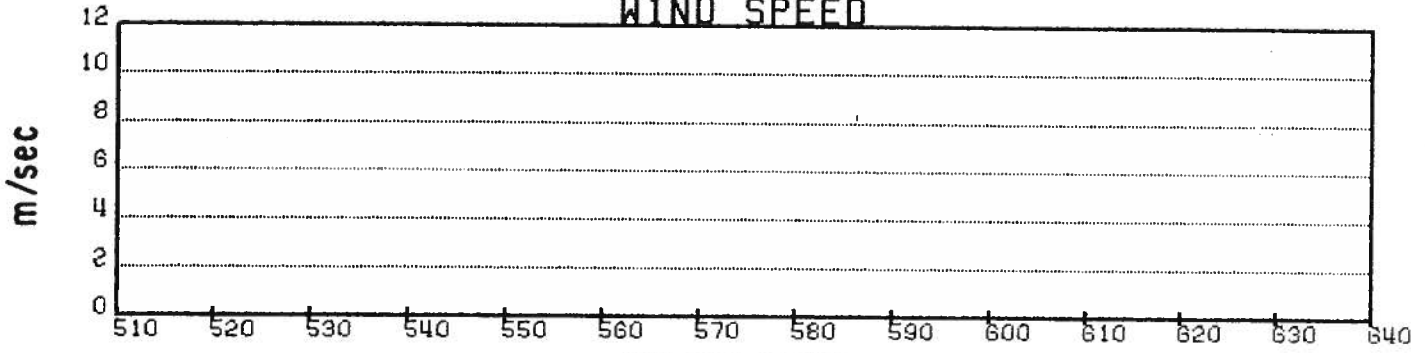
NORTH VELOCITY



TEMPERATURE



WIND SPEED



JULIAN DAYS

Figure 49. (Continued).

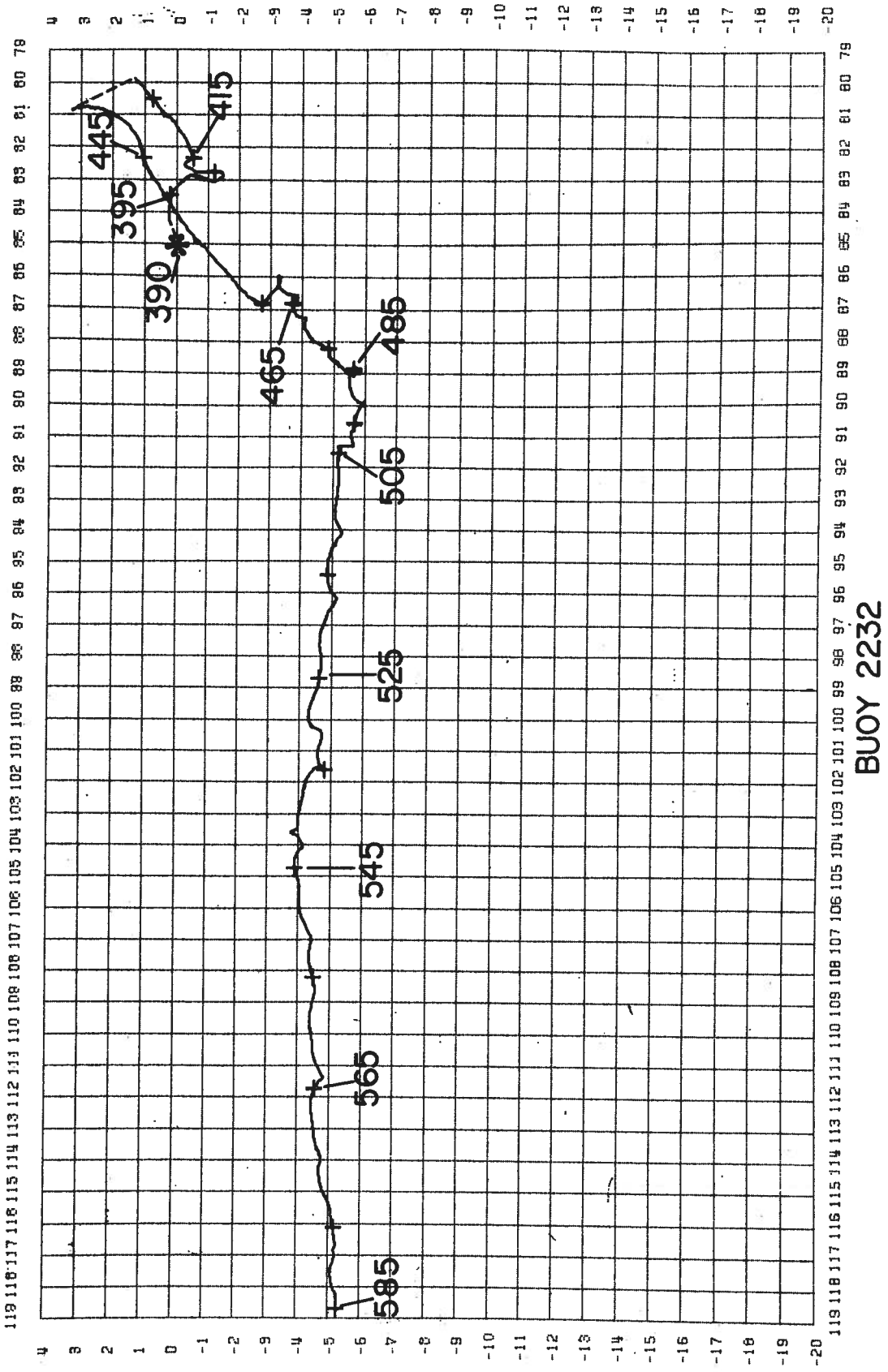
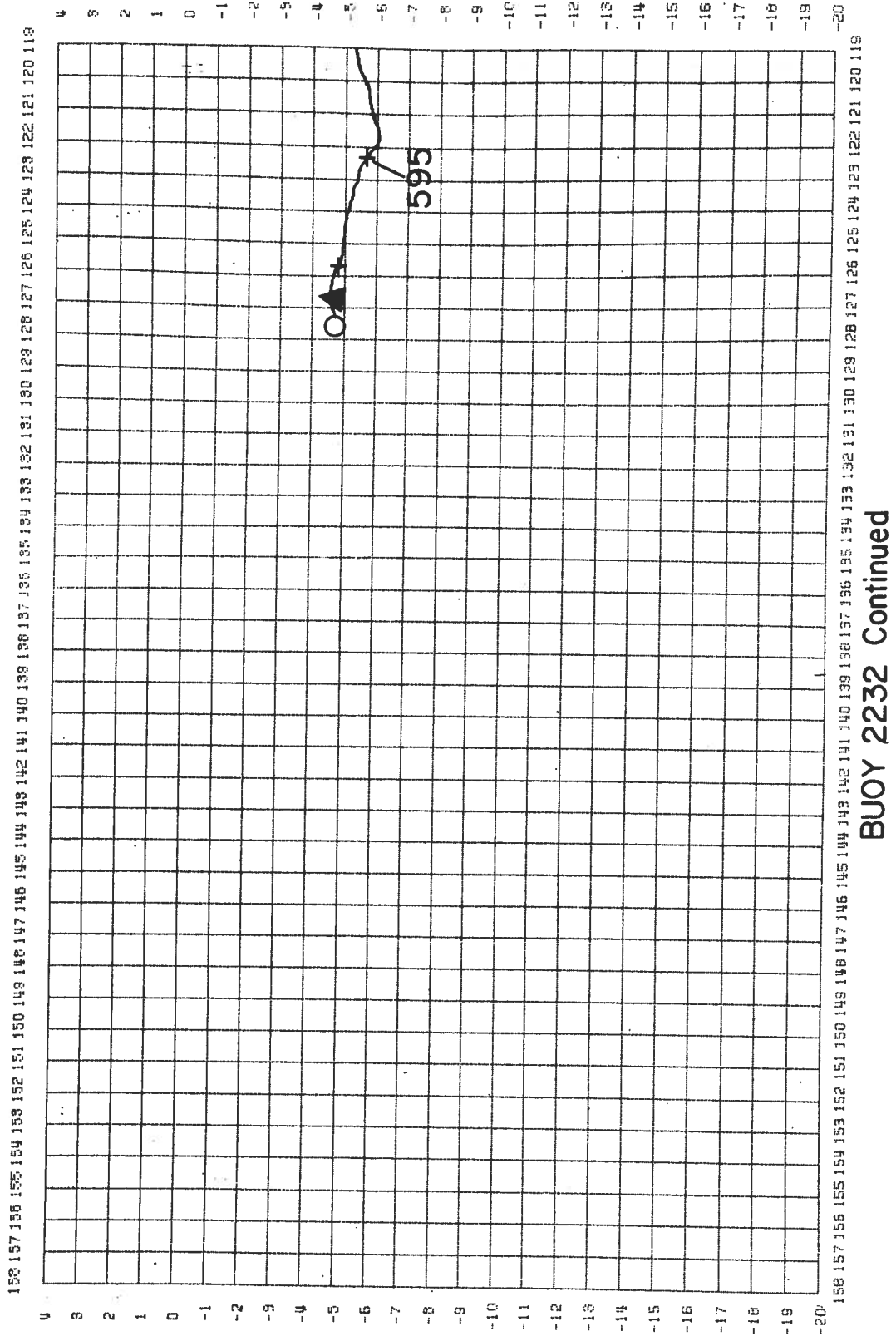


Figure 50. Trajectory of drifting buoy 2232.



BUOY 2232 Continued

Figure 50. (Continued).

BUOY 2232

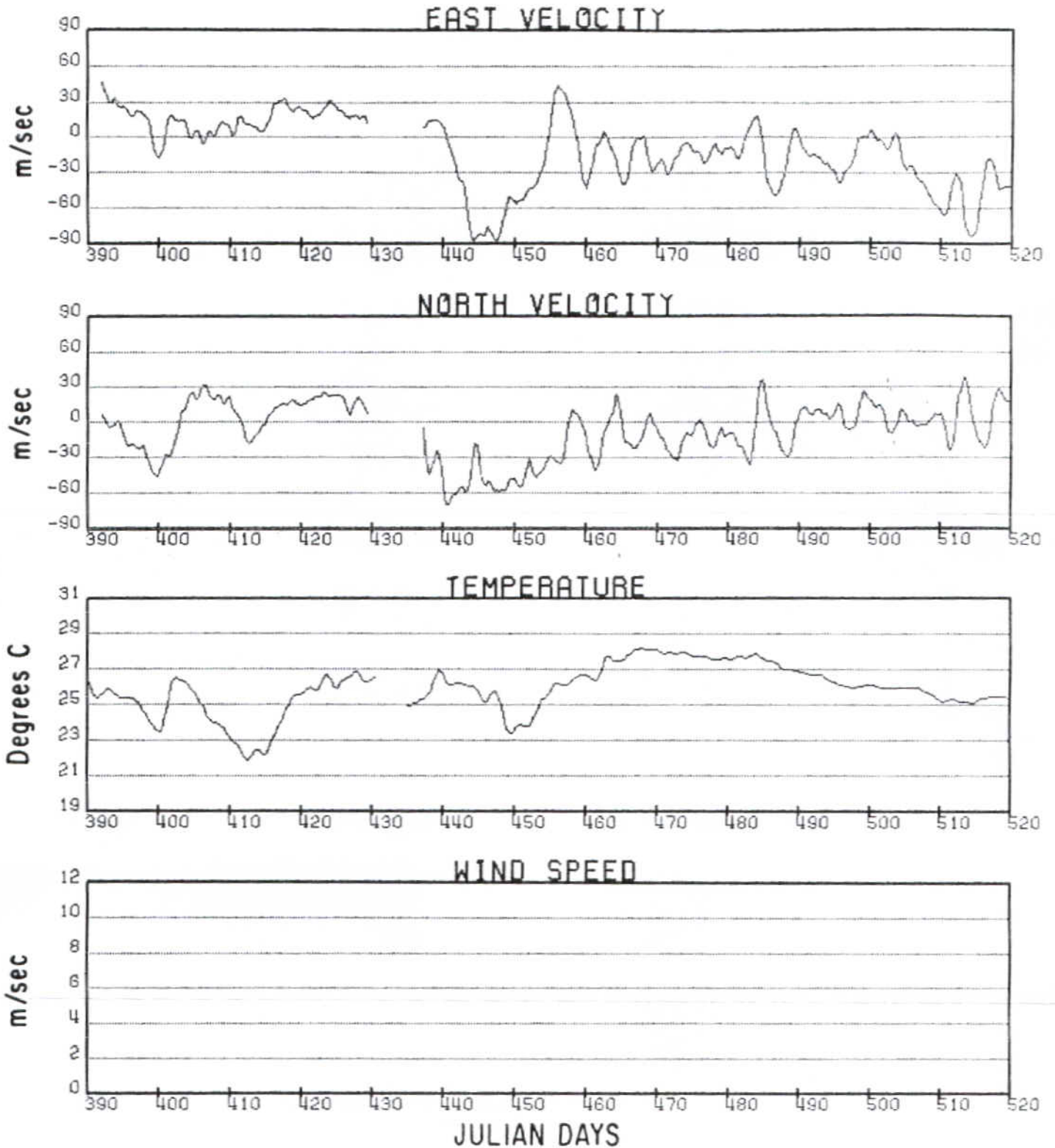


Figure 51. Time series of velocity and sensor data for drifting buoy 2232.

BUOY 2232

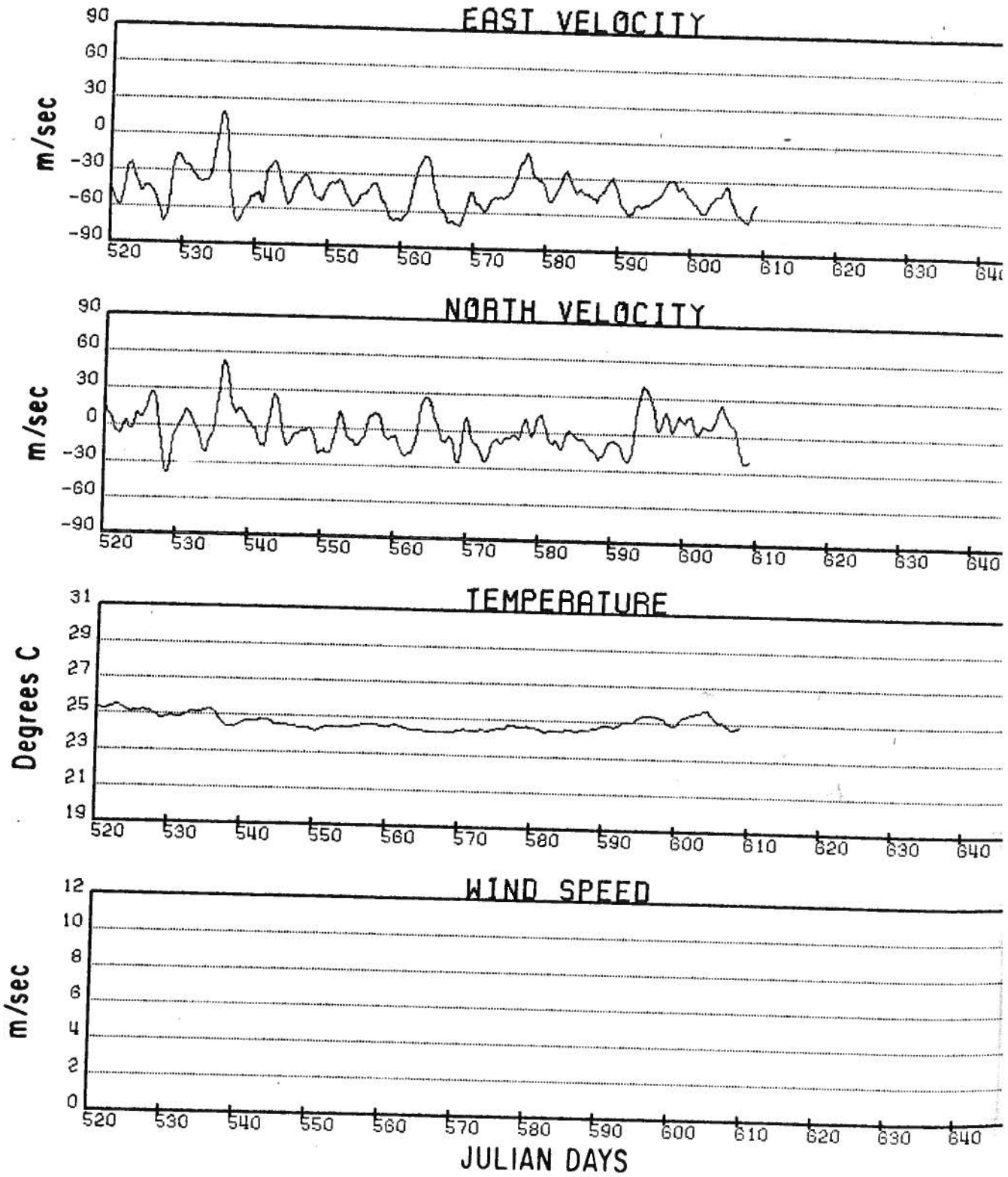


Figure 51. (Continued).

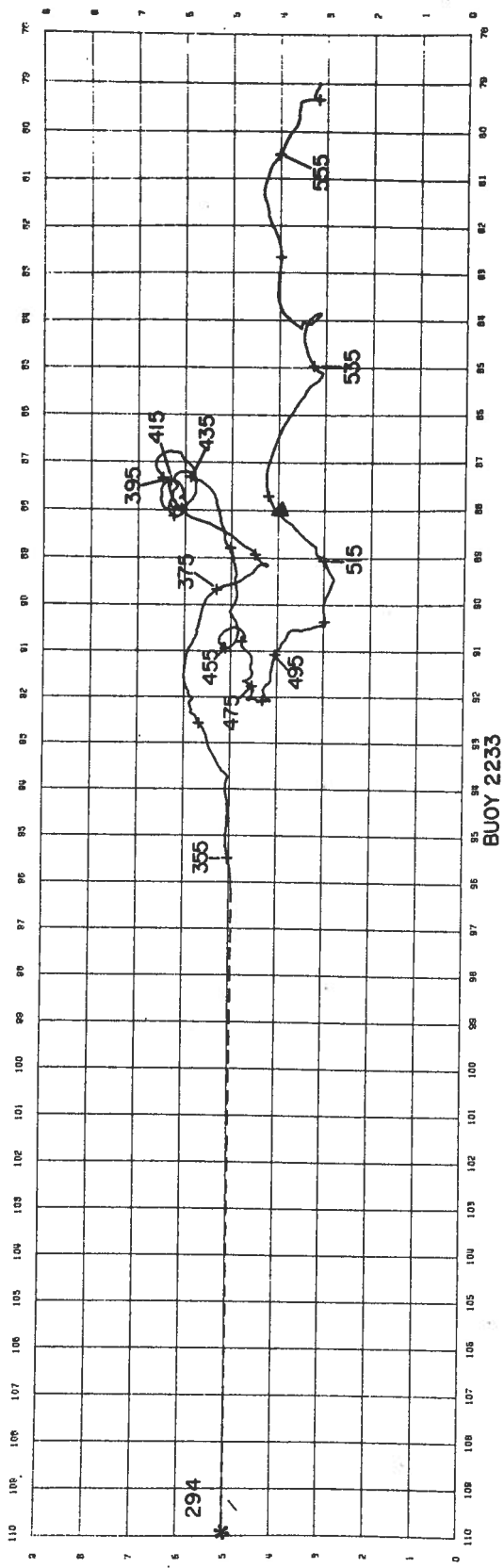
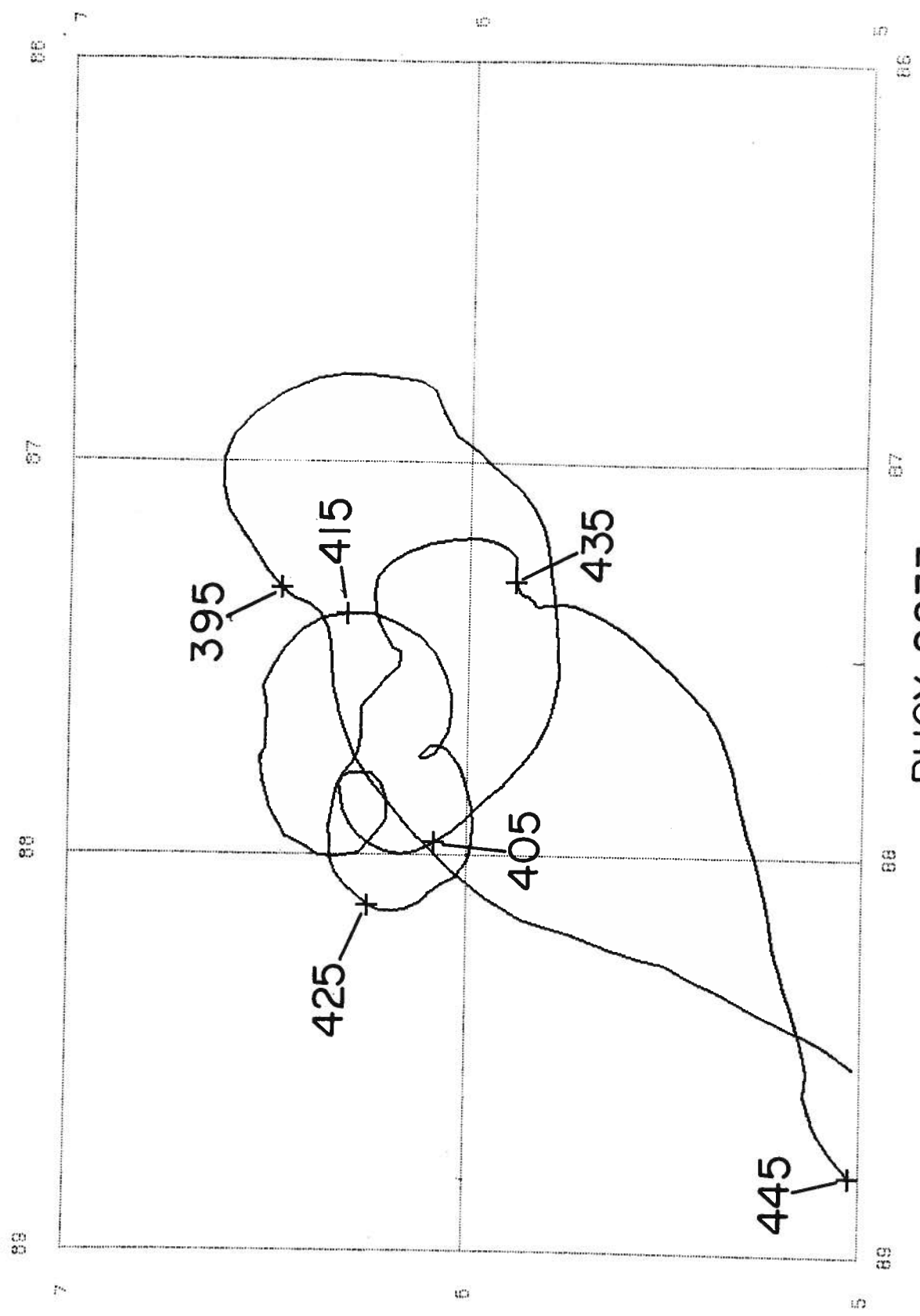


Figure 52. Trajectory of drifting buoy 2233.



BUOY 2233

Figure 53. Trajectory detail for drifting buoy 2233.

BUOY 2233

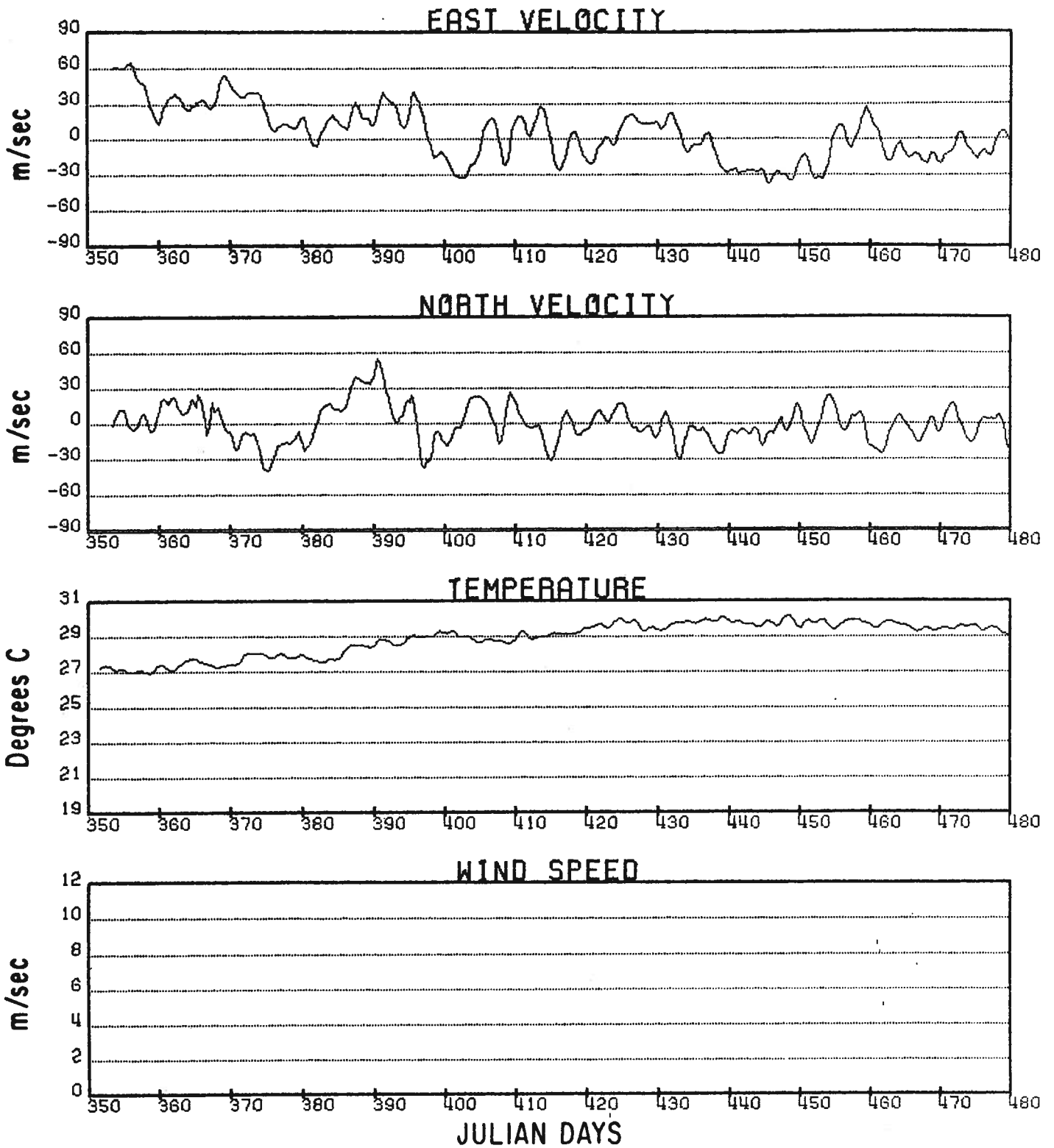


Figure 54. Time series of velocity and sensor data for drifting buoy 2233.

BUOY 2233

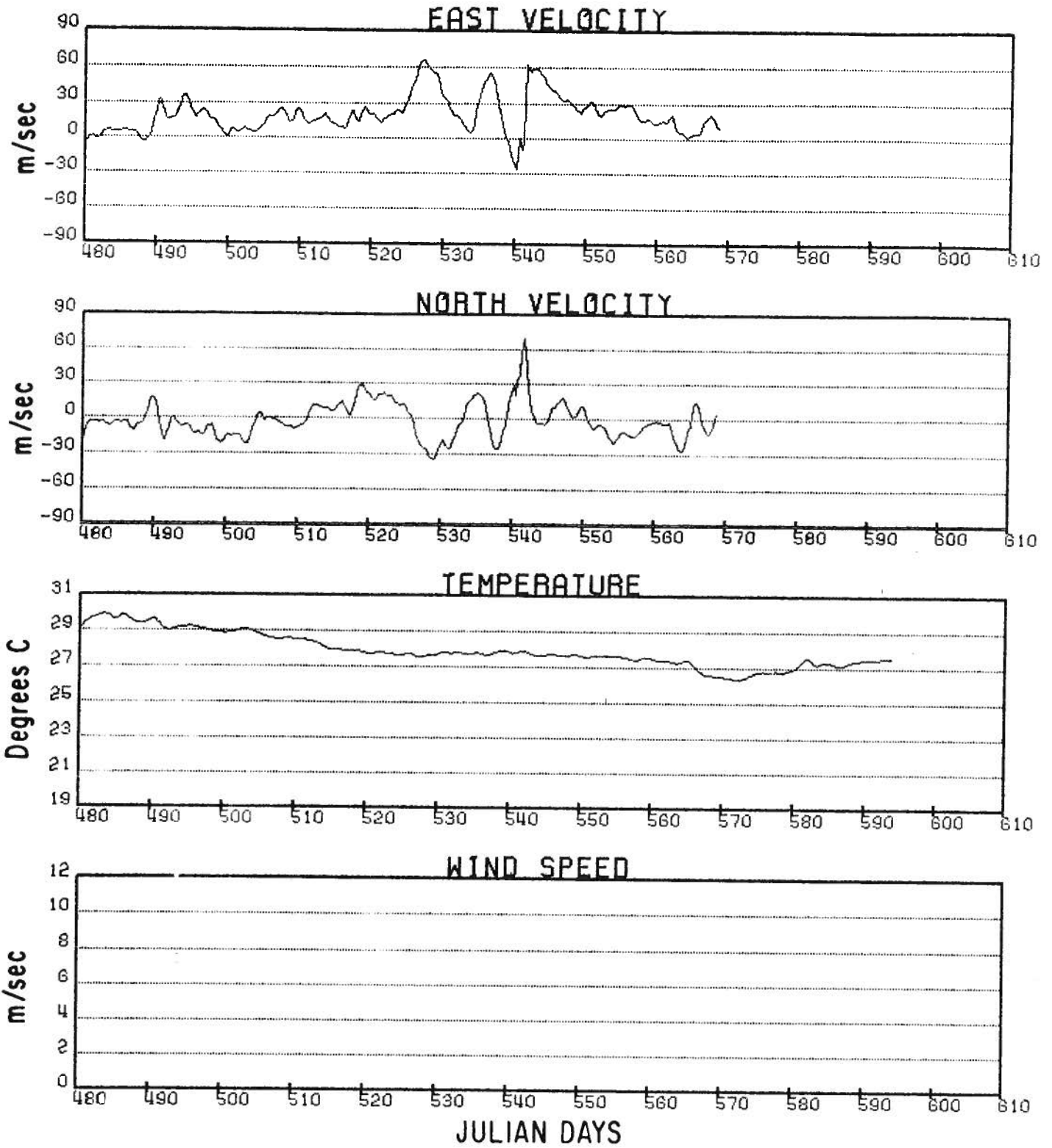
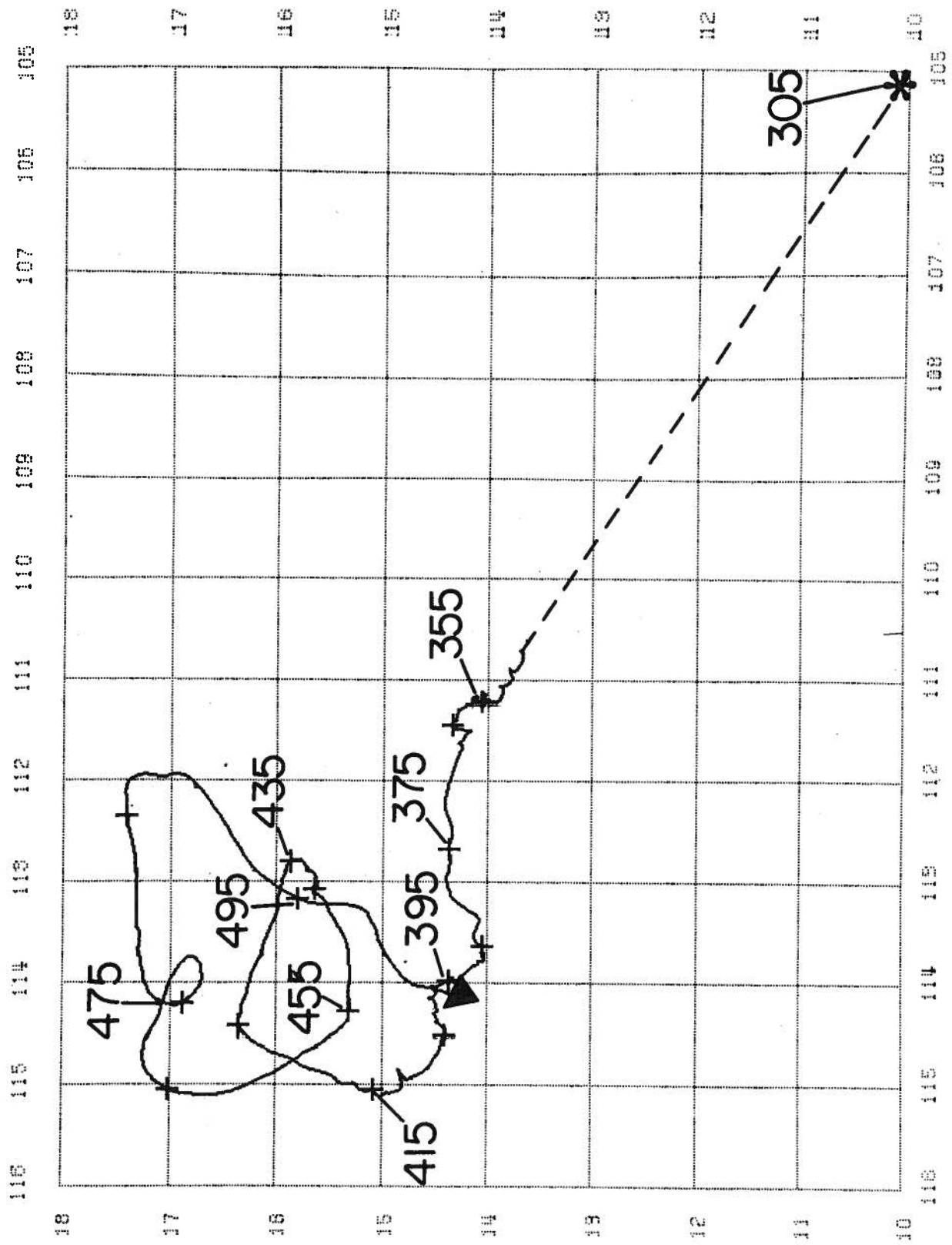


Figure 54. (Continued).

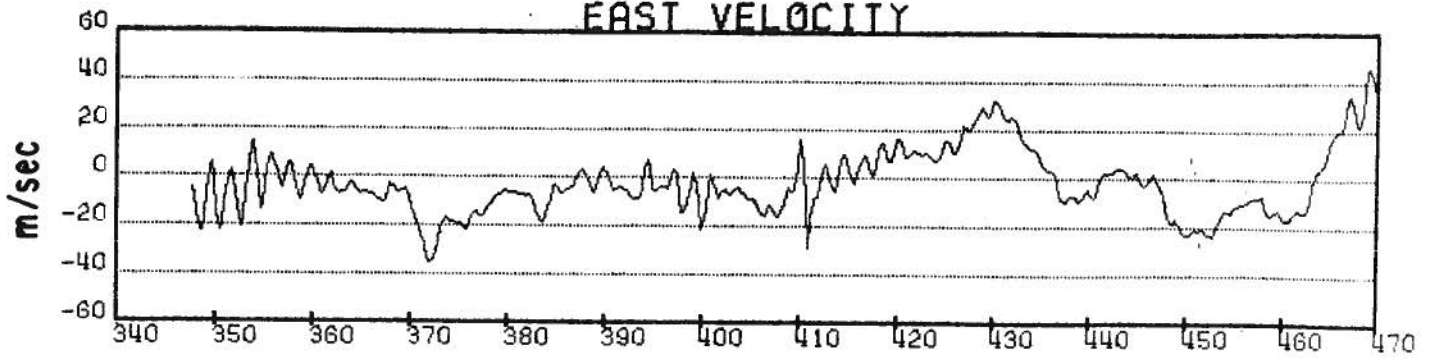


BUOY 2235

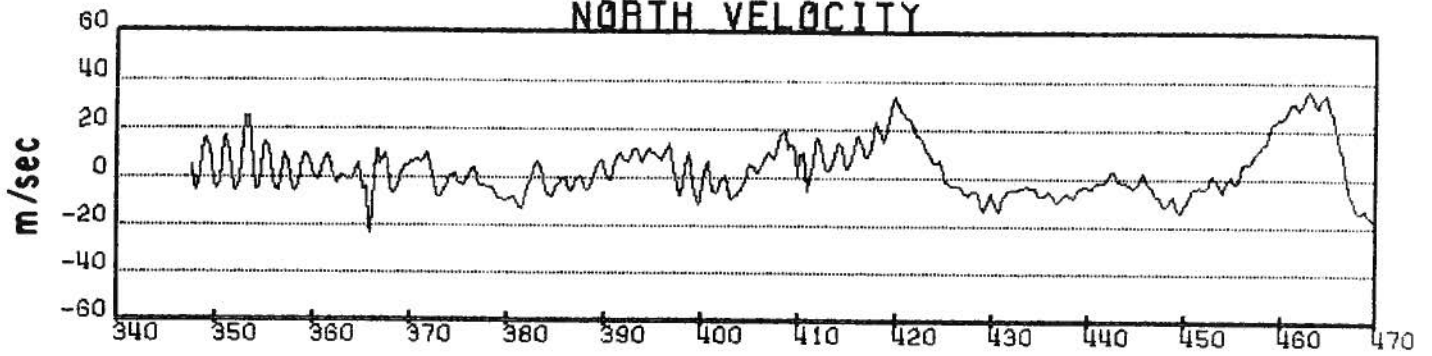
Figure 55. Trajectory of drifting buoy 2235.

BUOY 2235

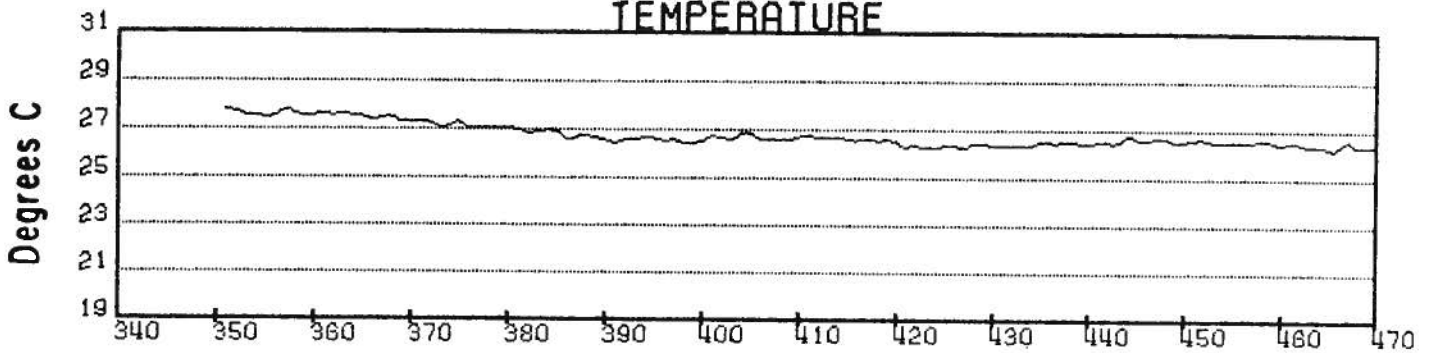
EAST VELOCITY



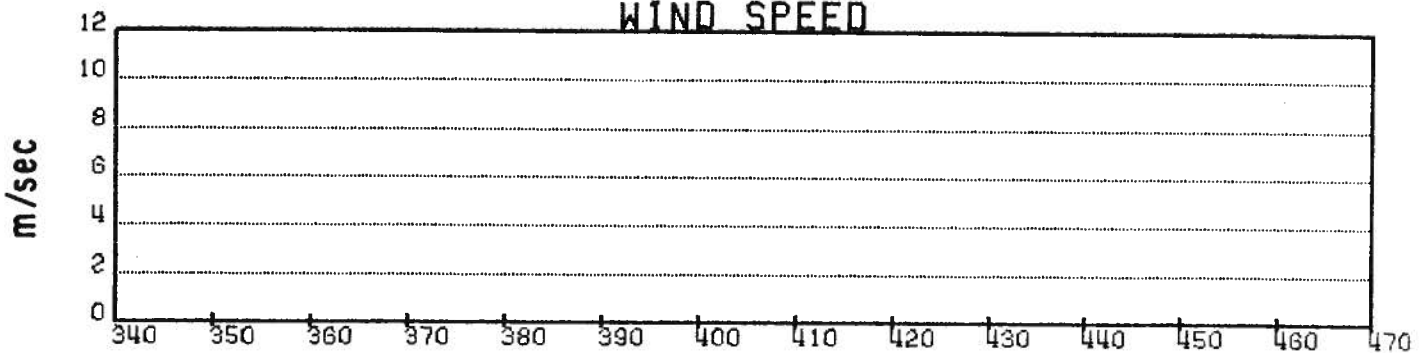
NORTH VELOCITY



TEMPERATURE



WIND SPEED

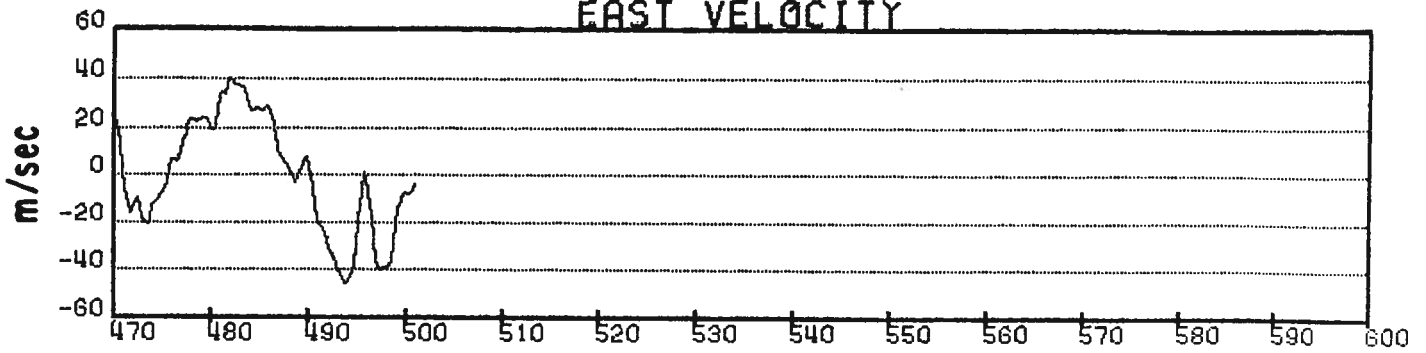


JULIAN DAYS

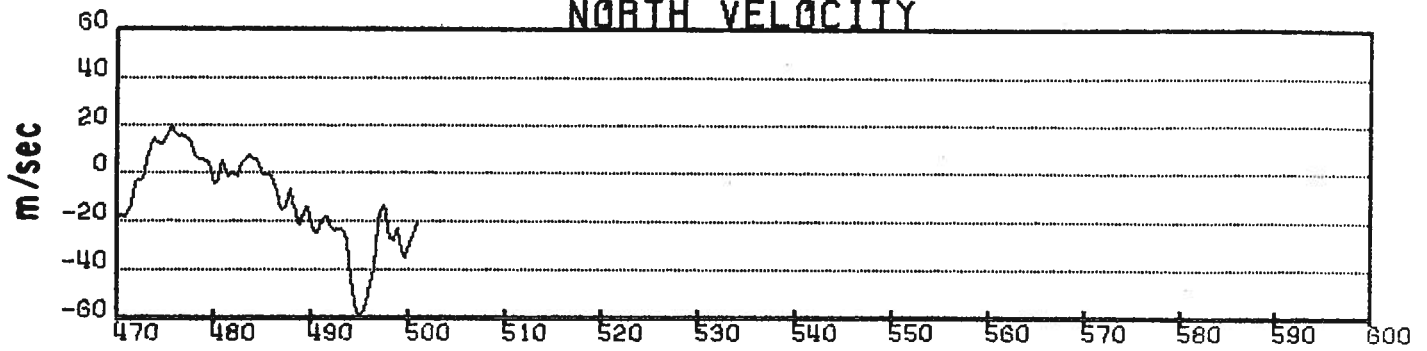
Figure 56. Time series of velocity and sensor data for drifting buoy 2235.

BUOY 2235

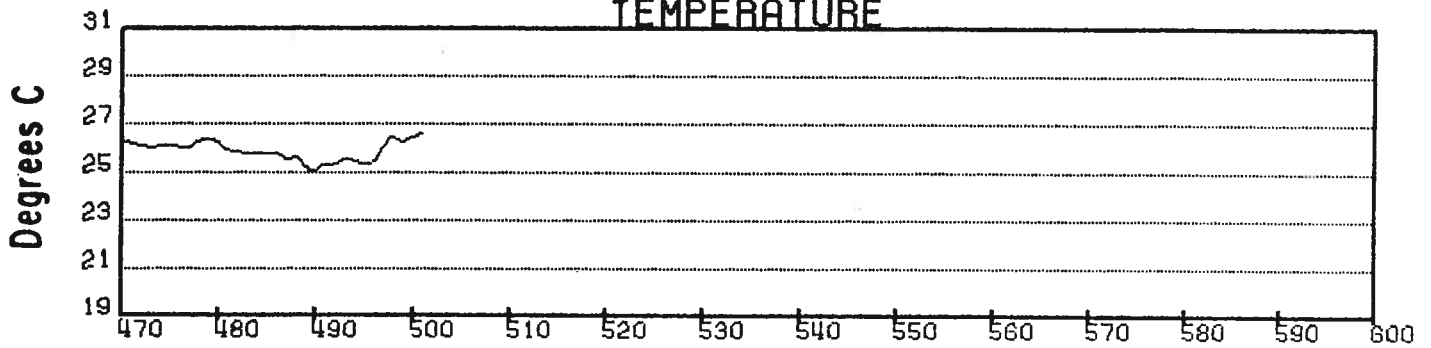
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

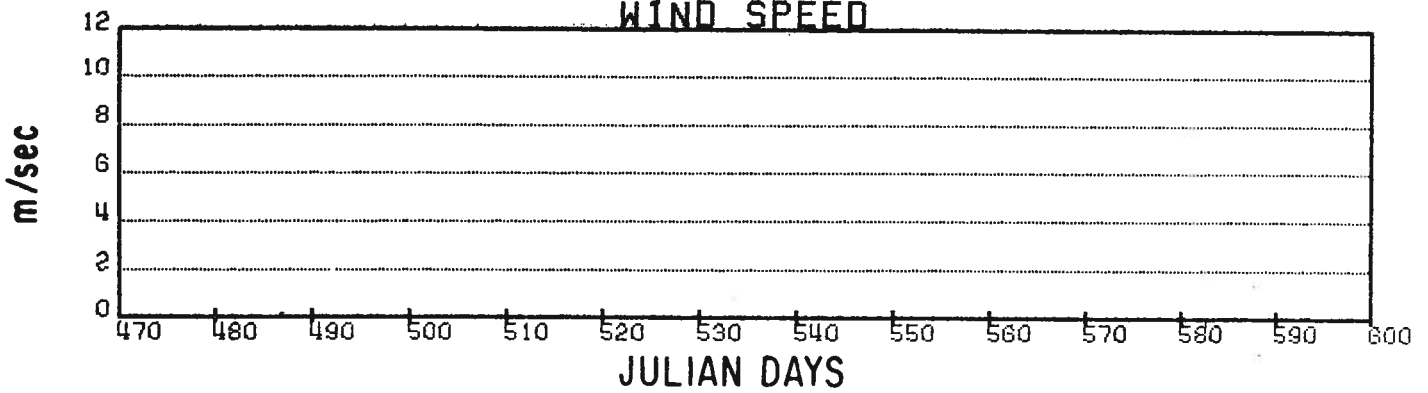
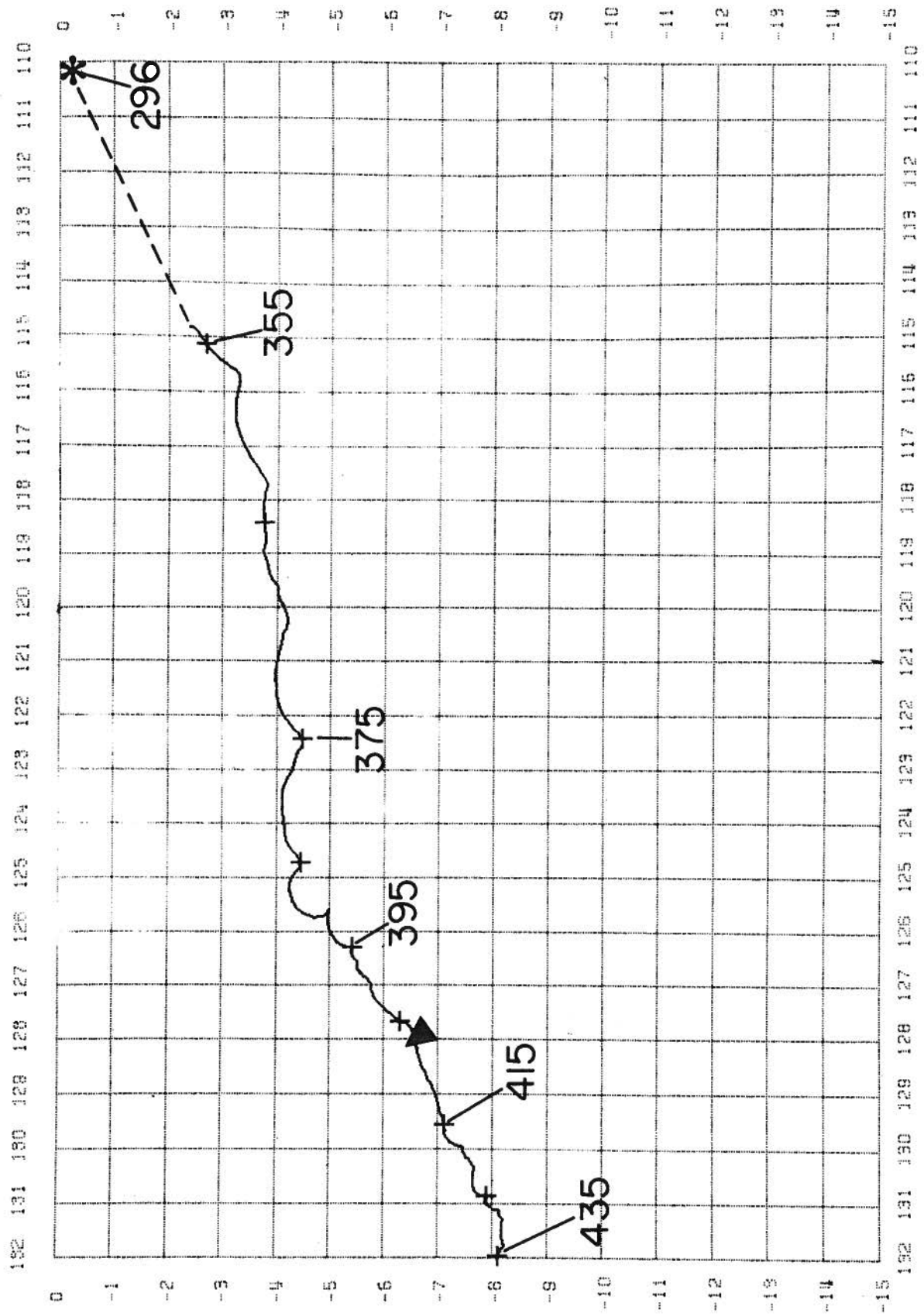
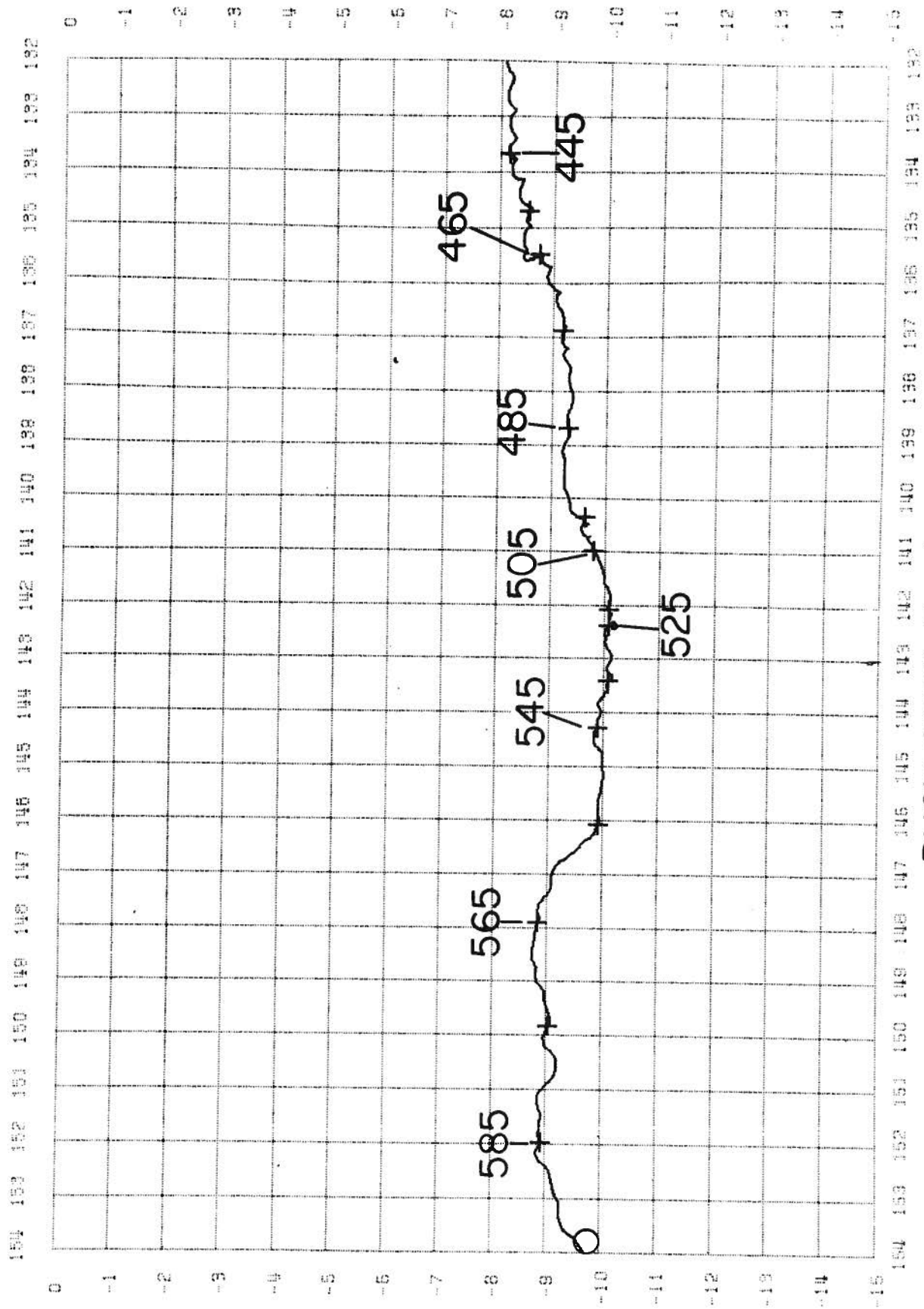


Figure 56. (Continued).



BUOY 2236

Figure 57. Trajectory of drifting buoy 2236.

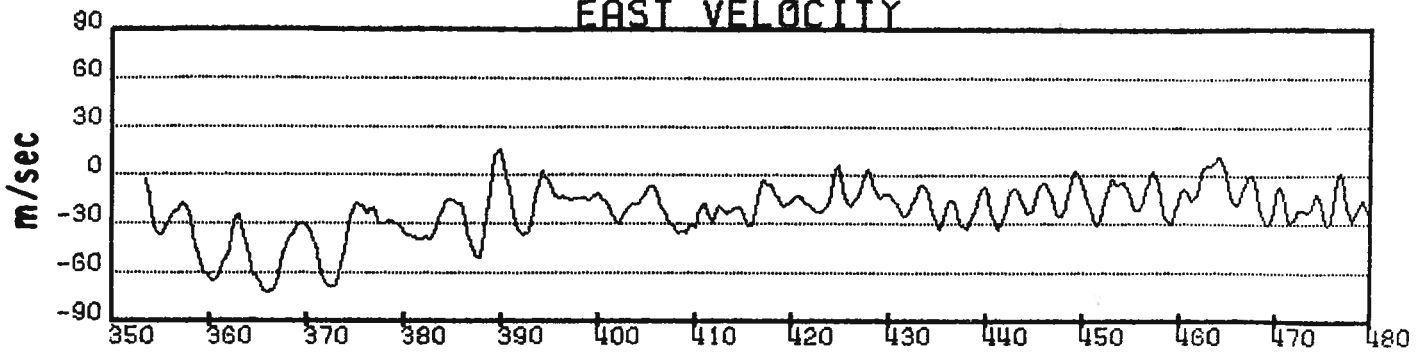


BUOY 2236 Continued

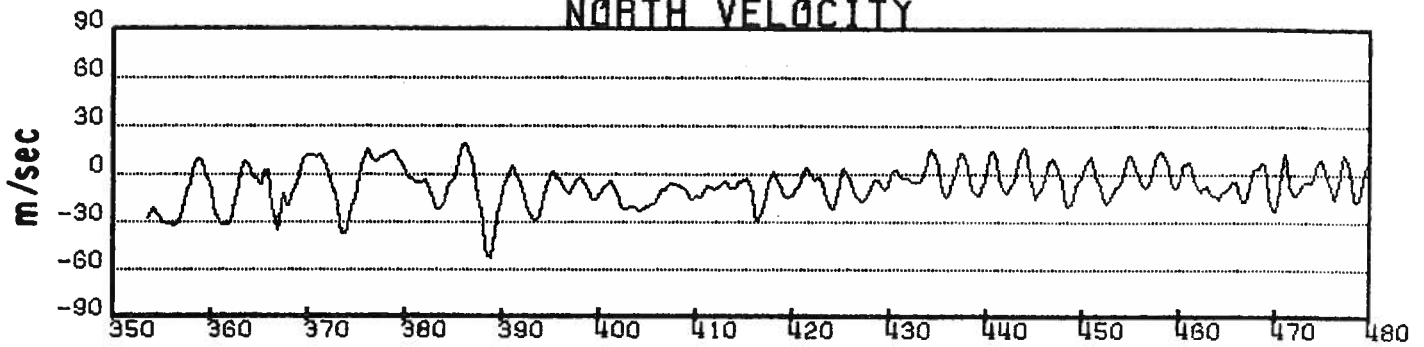
Figure 57. (Continued).

BUOY 2236

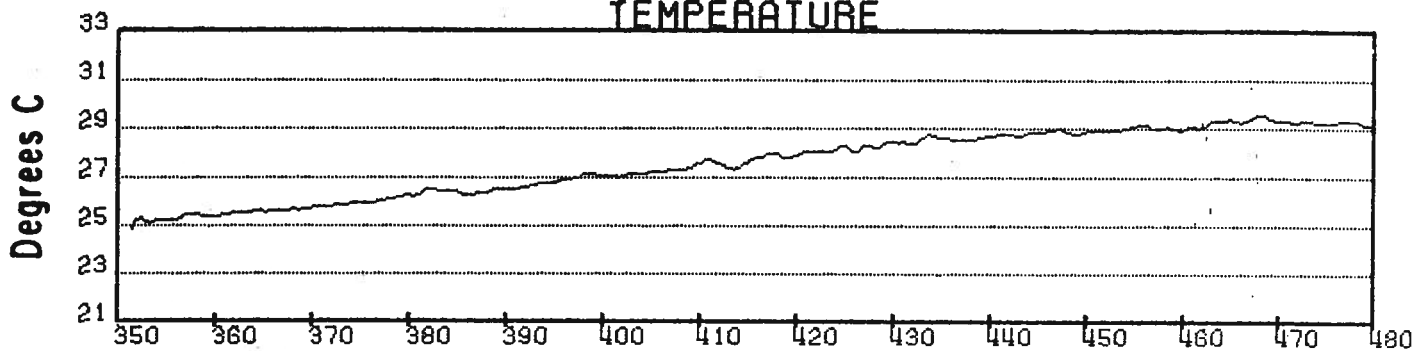
EAST VELOCITY



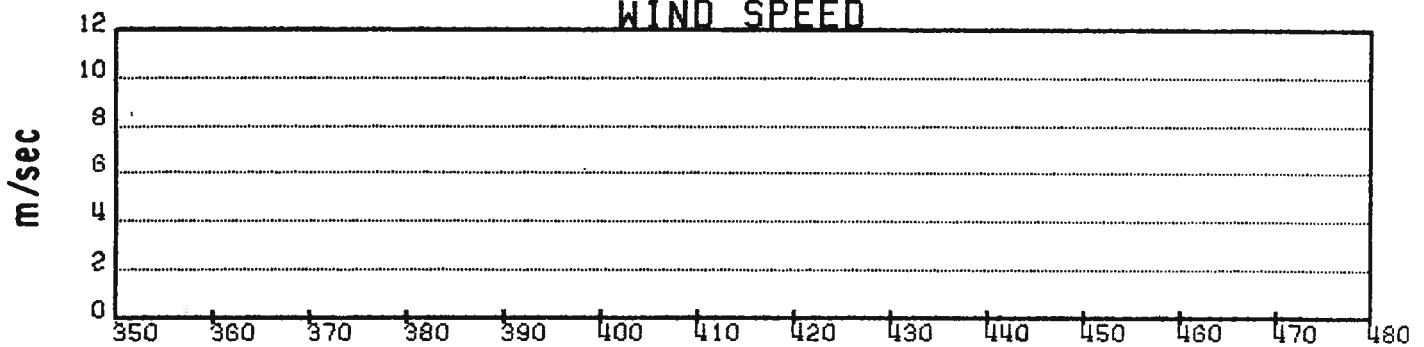
NORTH VELOCITY



TEMPERATURE



WIND SPEED



JULIAN DAYS

Figure 58. Time series of velocity and sensor data for drifting buoy 2236.

BUOY 2236

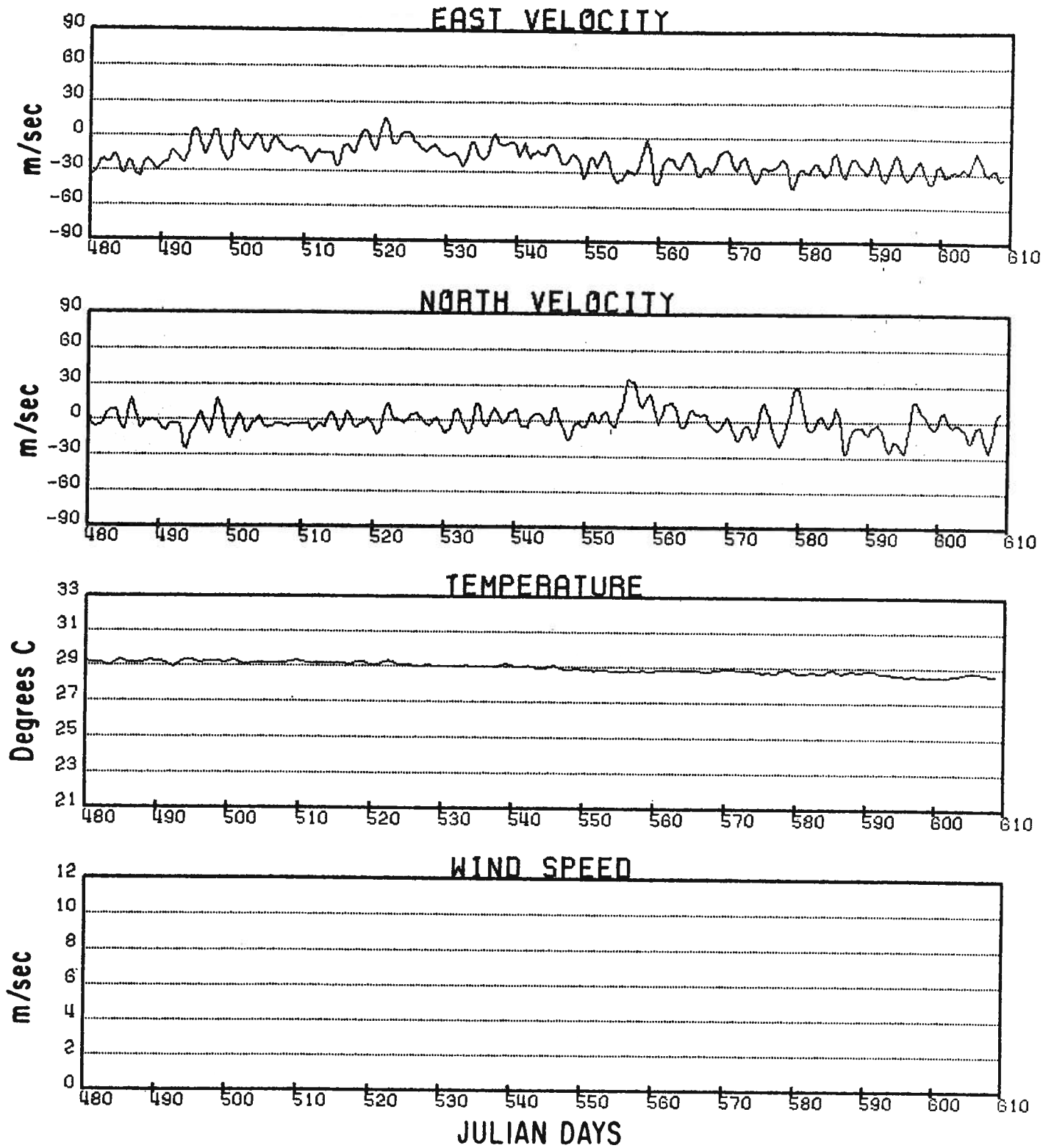
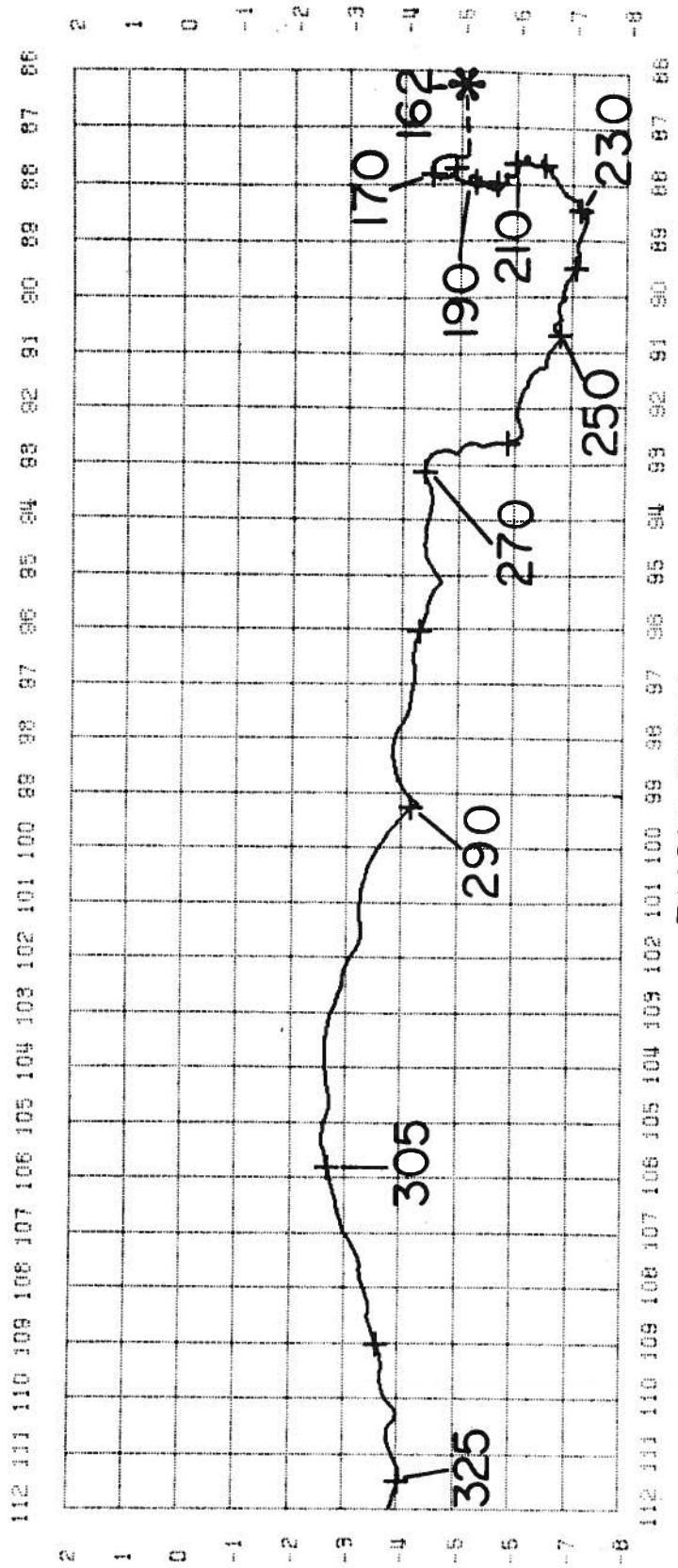
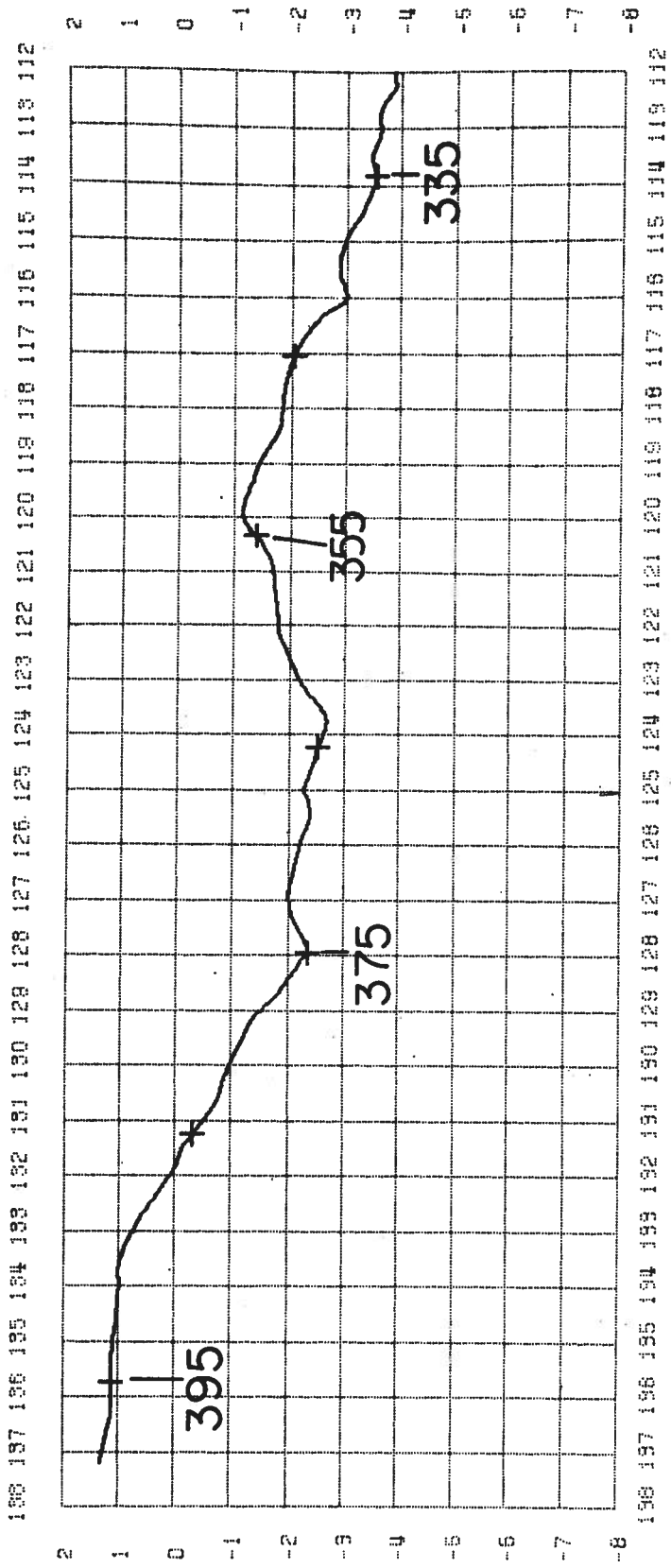


Figure 58. (Continued).



BUOY 2251

Figure 59. Trajectory of drifting buoy 2251.

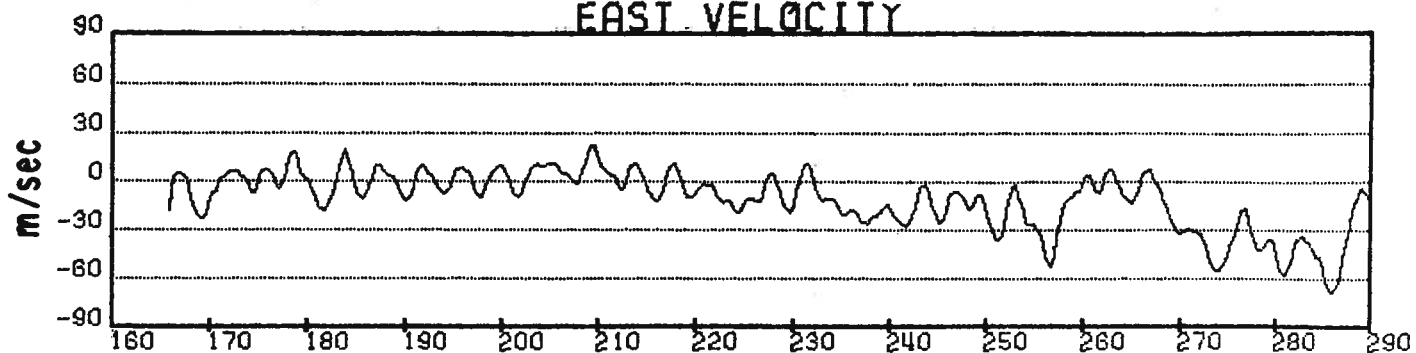


BUOY 2251 Continued

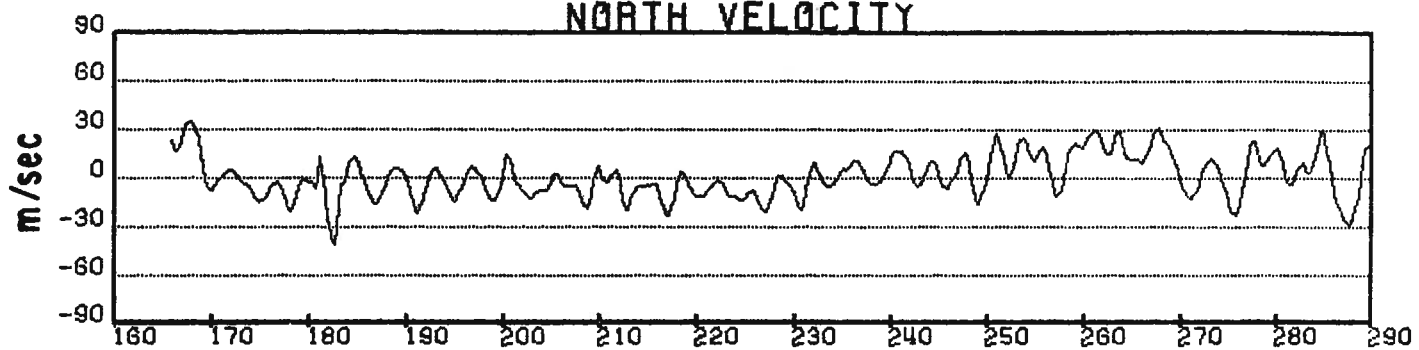
Figure 59. (Continued).

BUOY 2251

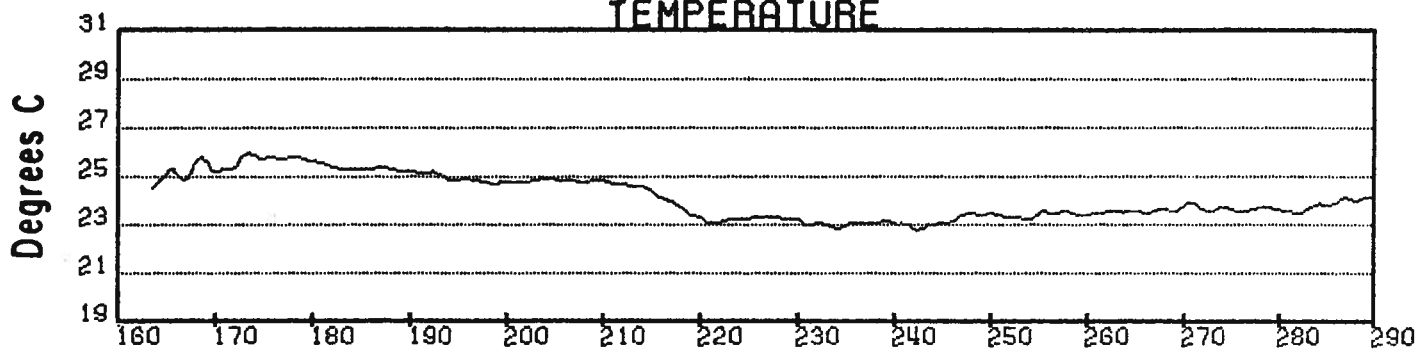
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

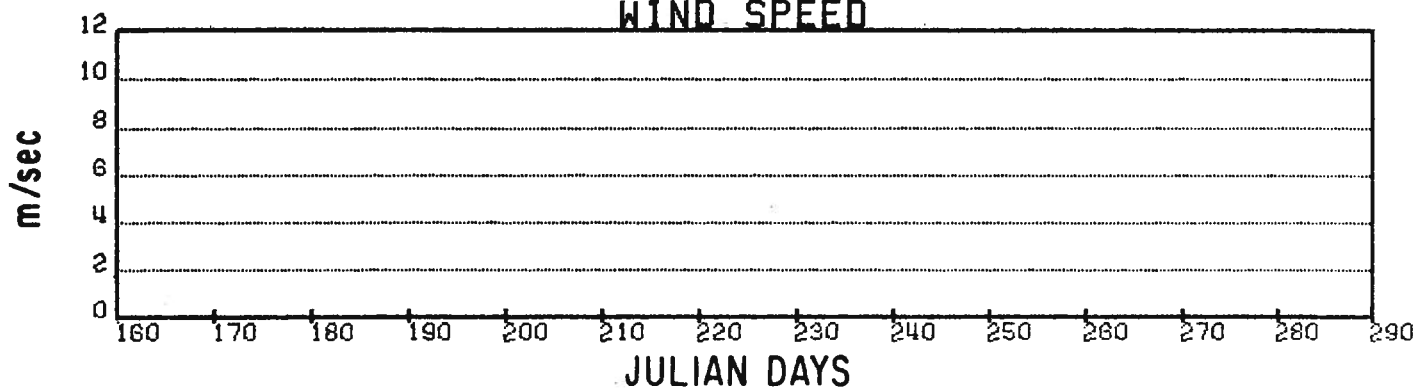
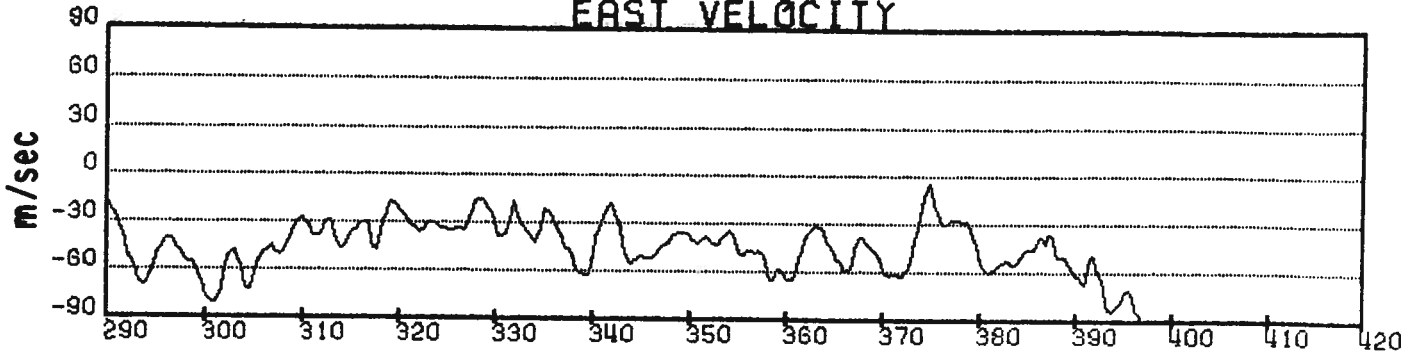


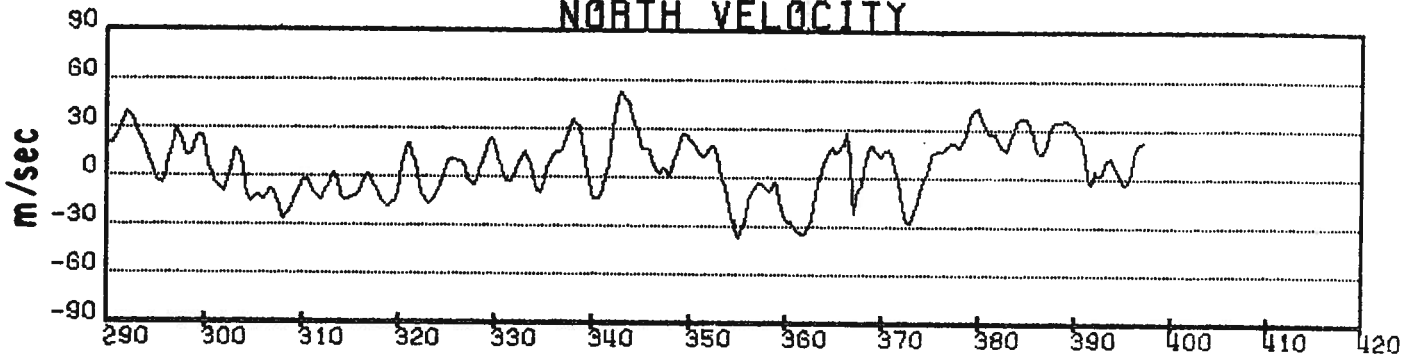
Figure 60. Time series of velocity and sensor data for drifting buoy 2251.

BUOY 2251

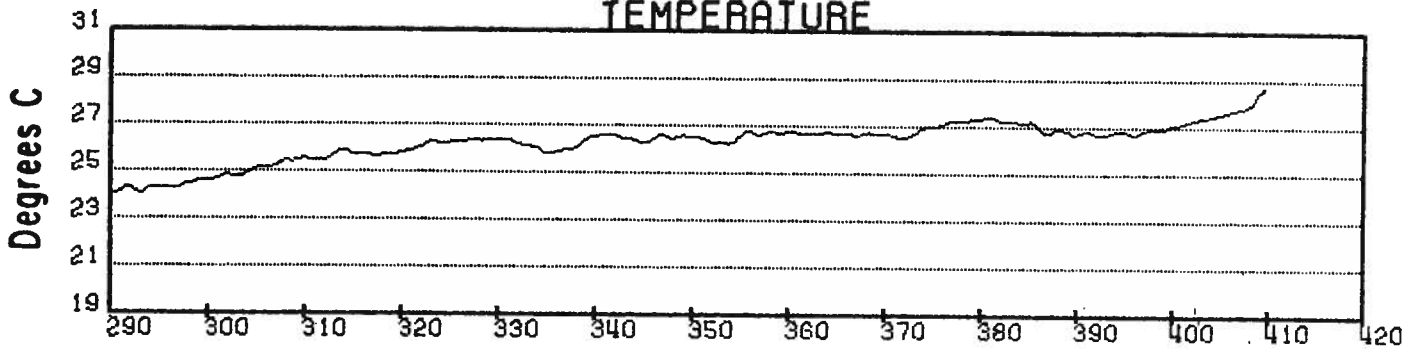
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

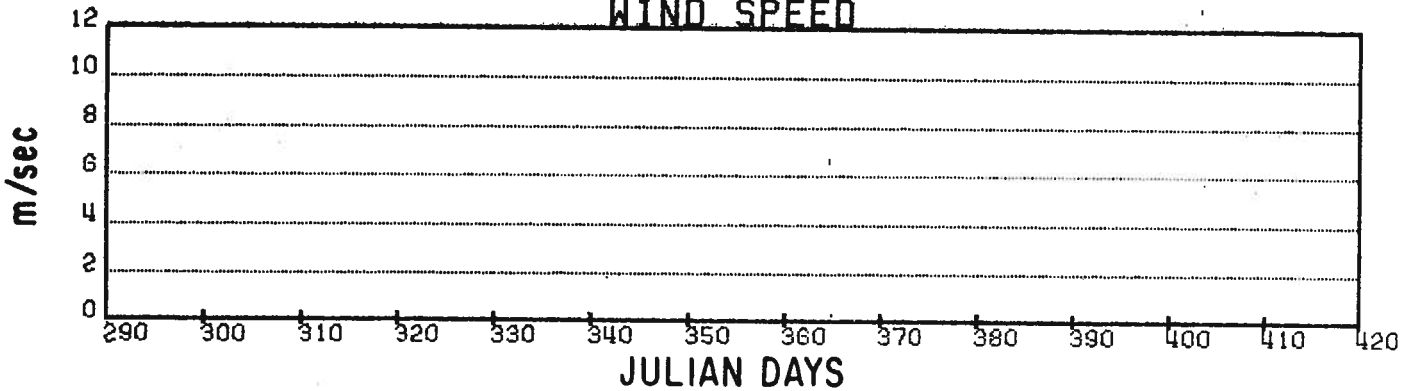


Figure 60. (Continued).

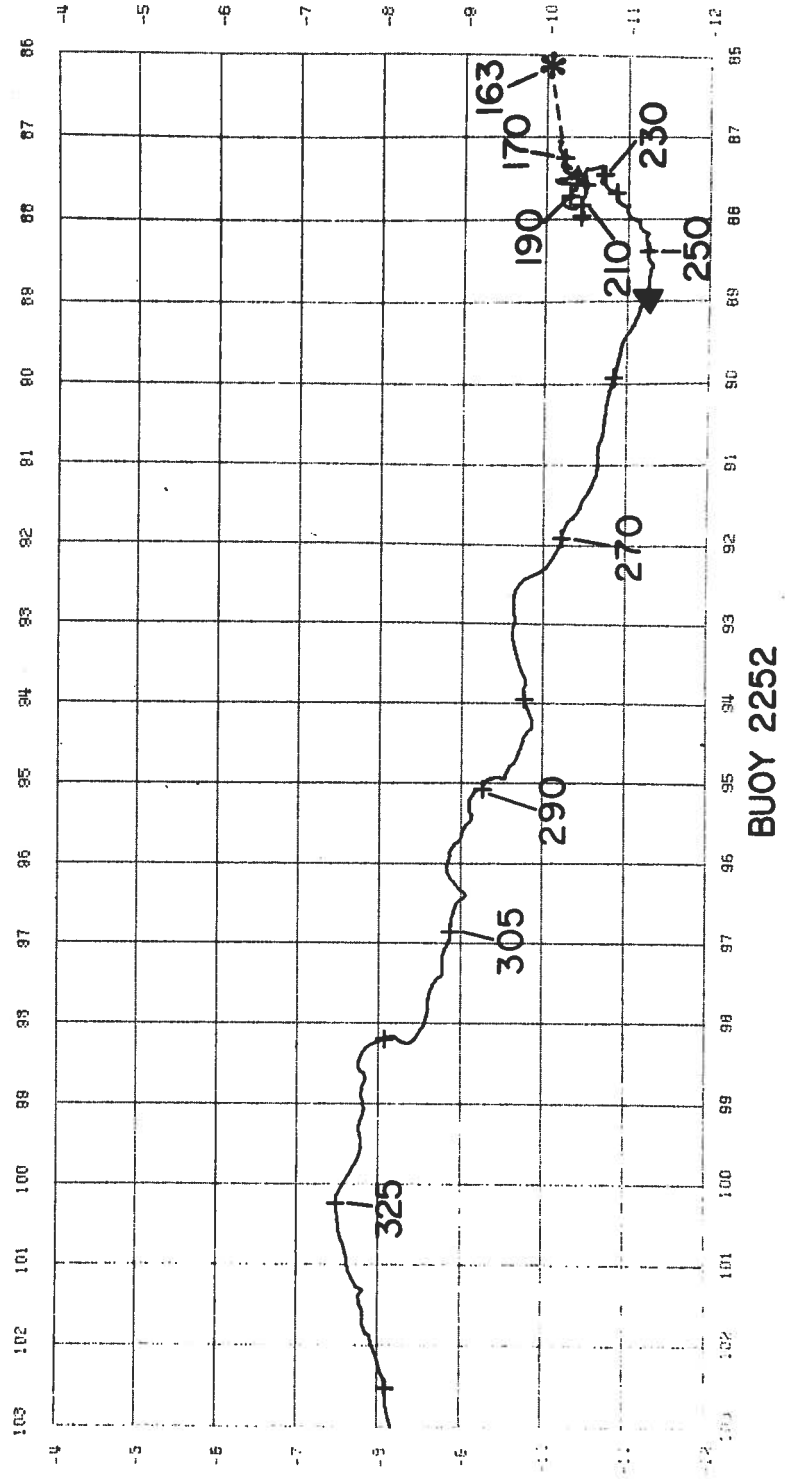


Figure 61. Trajectory of drifting buoy 2252.

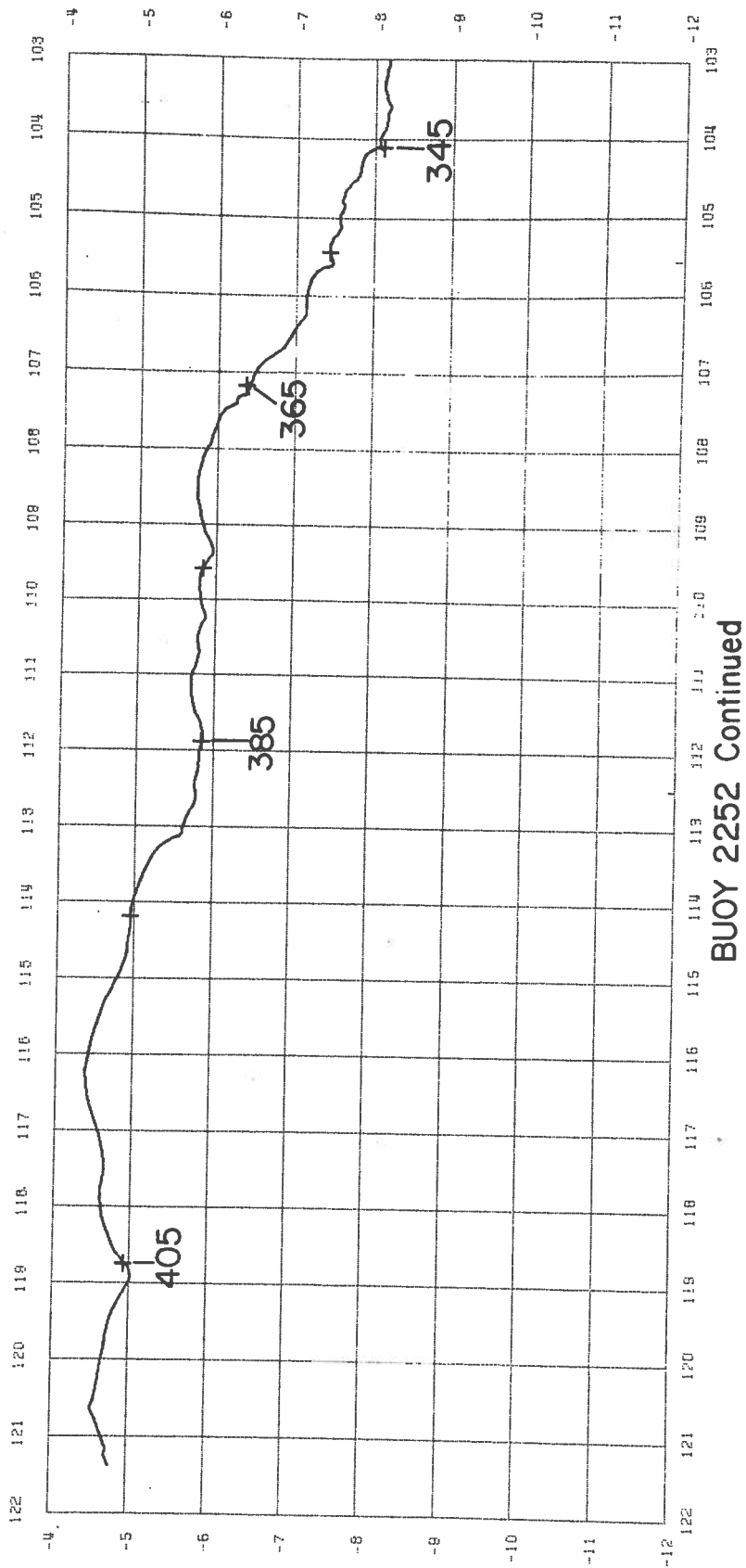


Figure 61. (Continued).

BUOY 2252

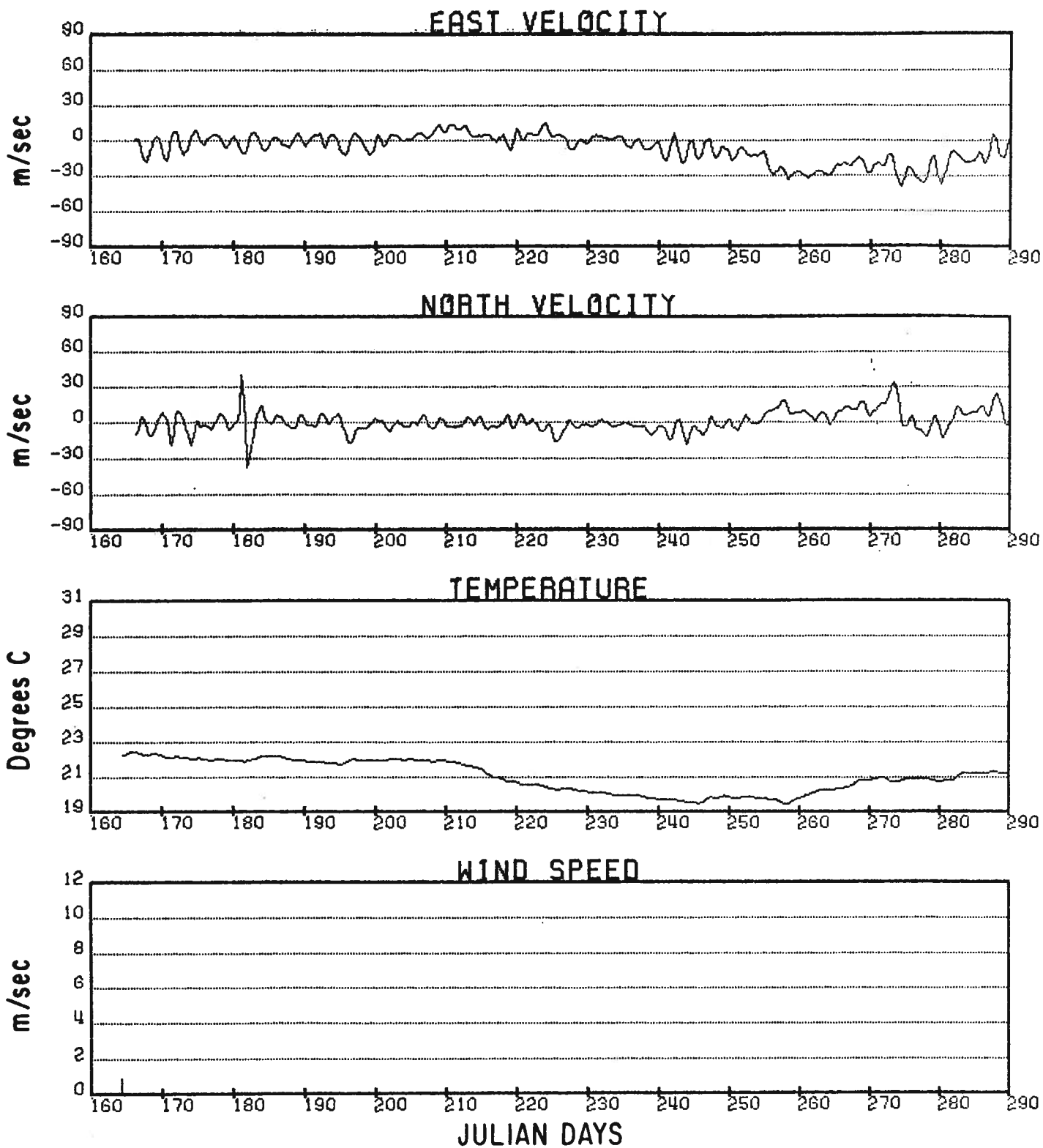


Figure 62. Time series of velocity and sensor data for drifting buoy 2252.

BUOY 2252

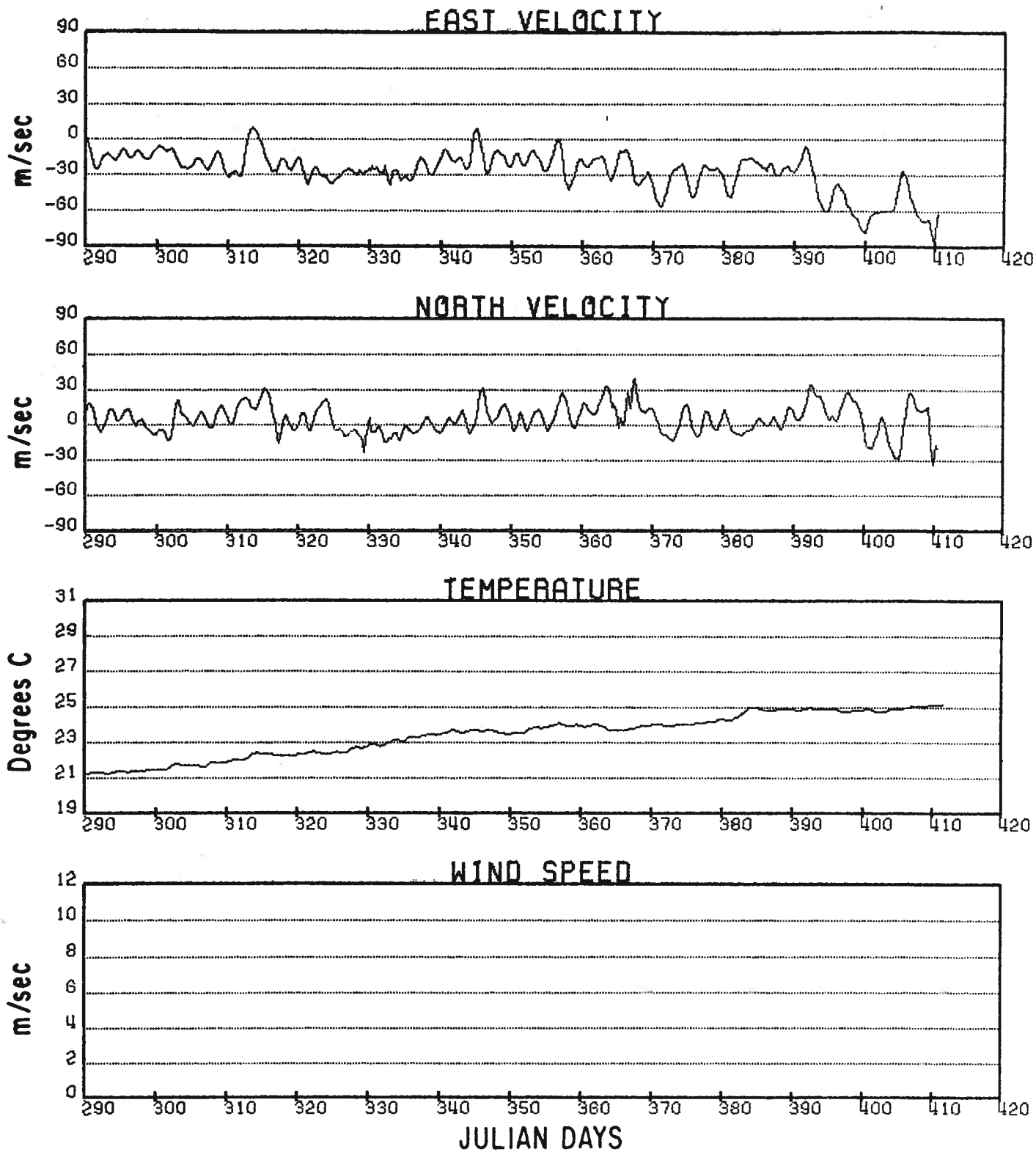


Figure 62. (Continued).

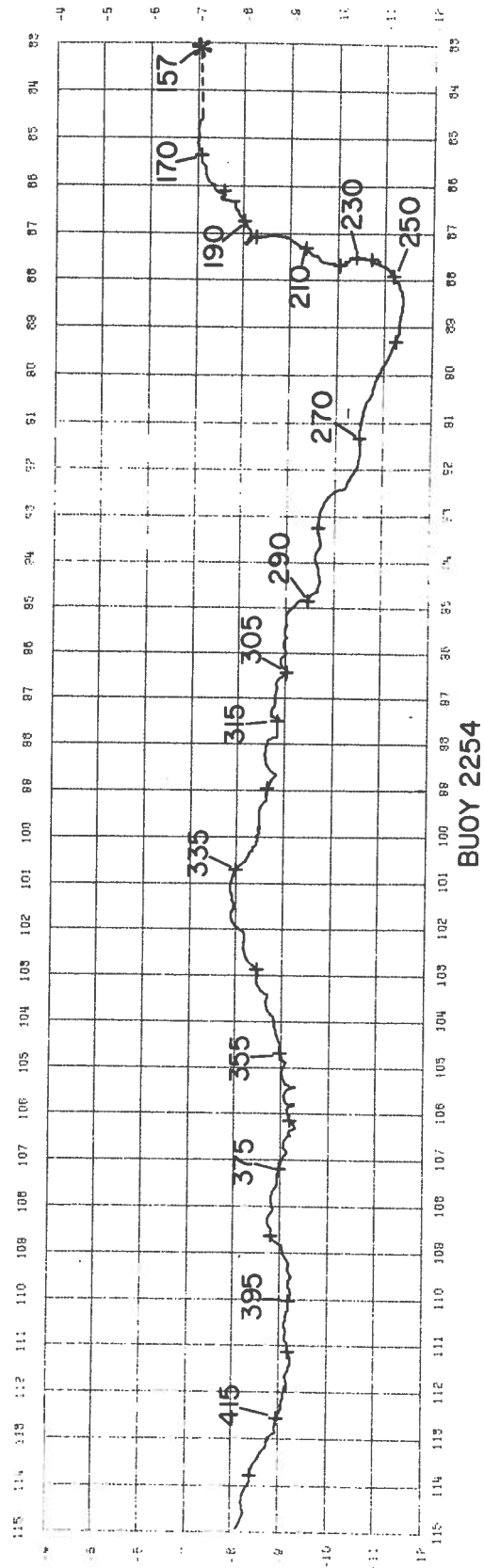


Figure 63. Trajectory of drifting buoy 2254.

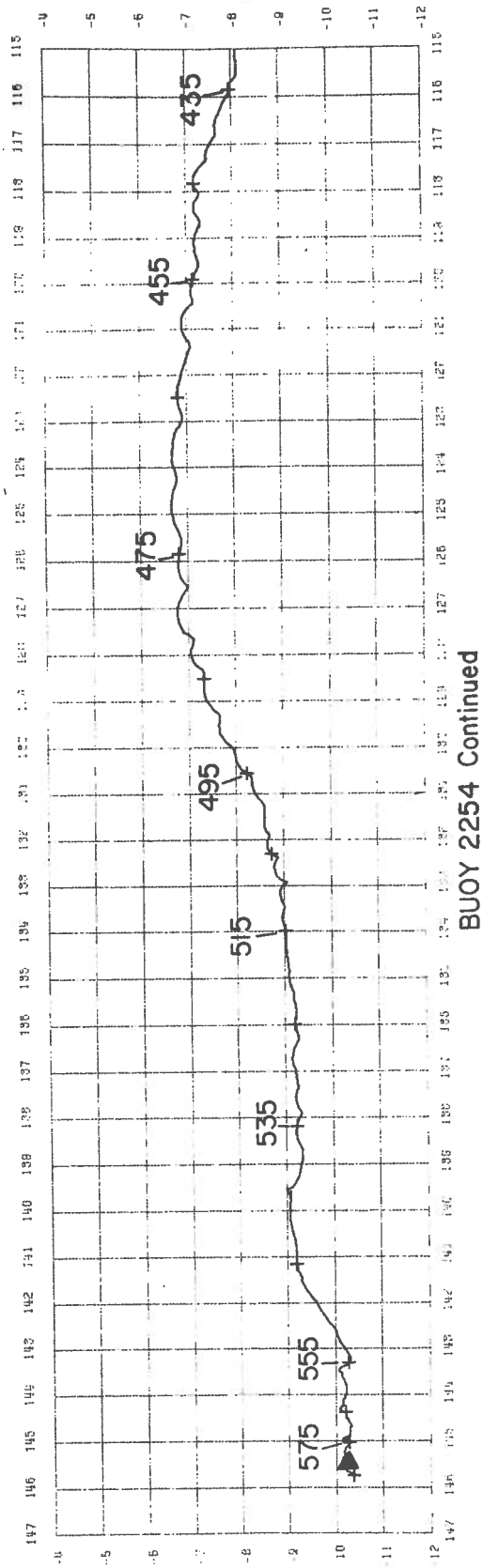
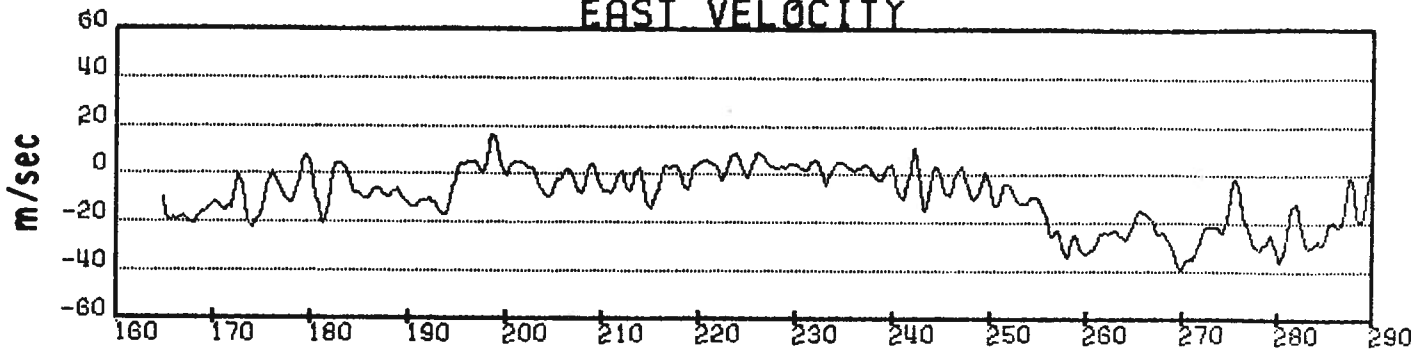


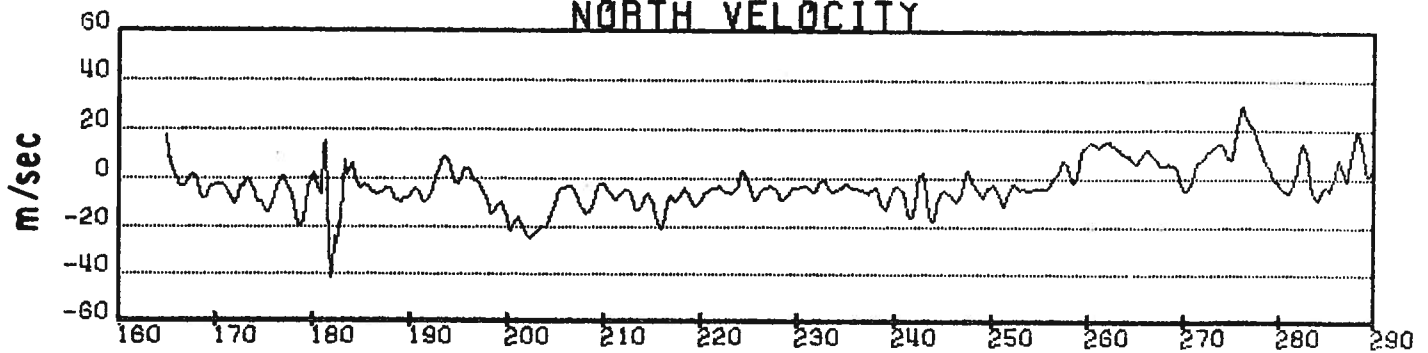
Figure 63. (Continued).

BUOY 2254

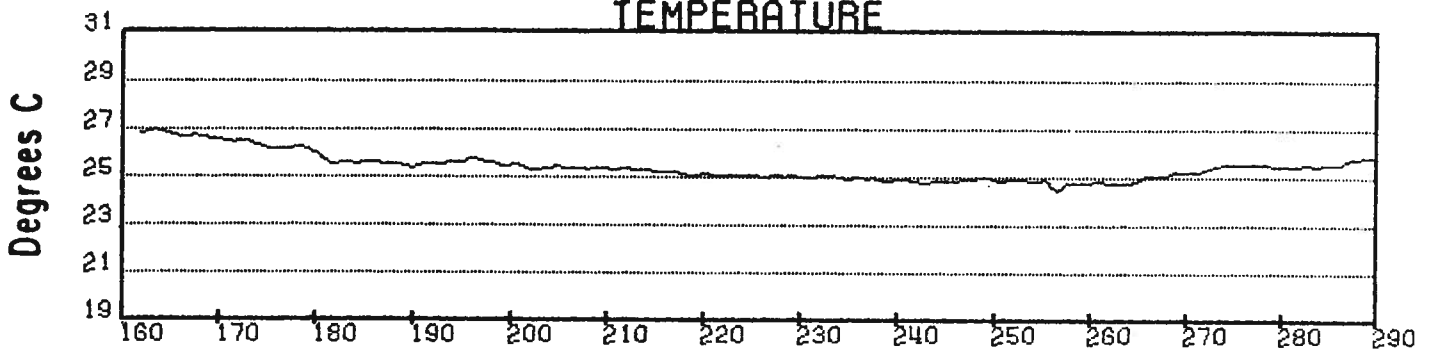
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

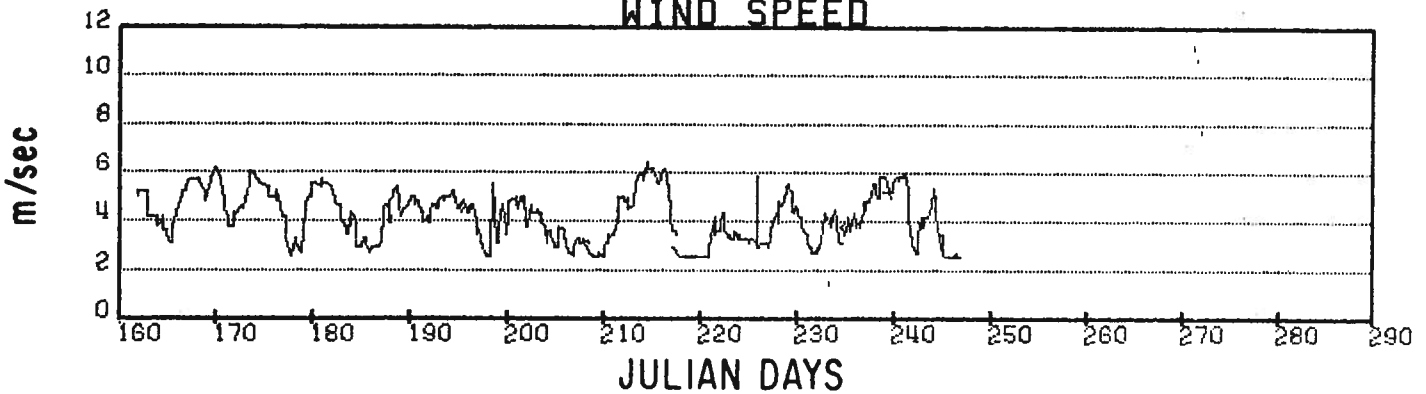


Figure 64. Time series of velocity and sensor data for drifting buoy 2254.

BUOY 2254

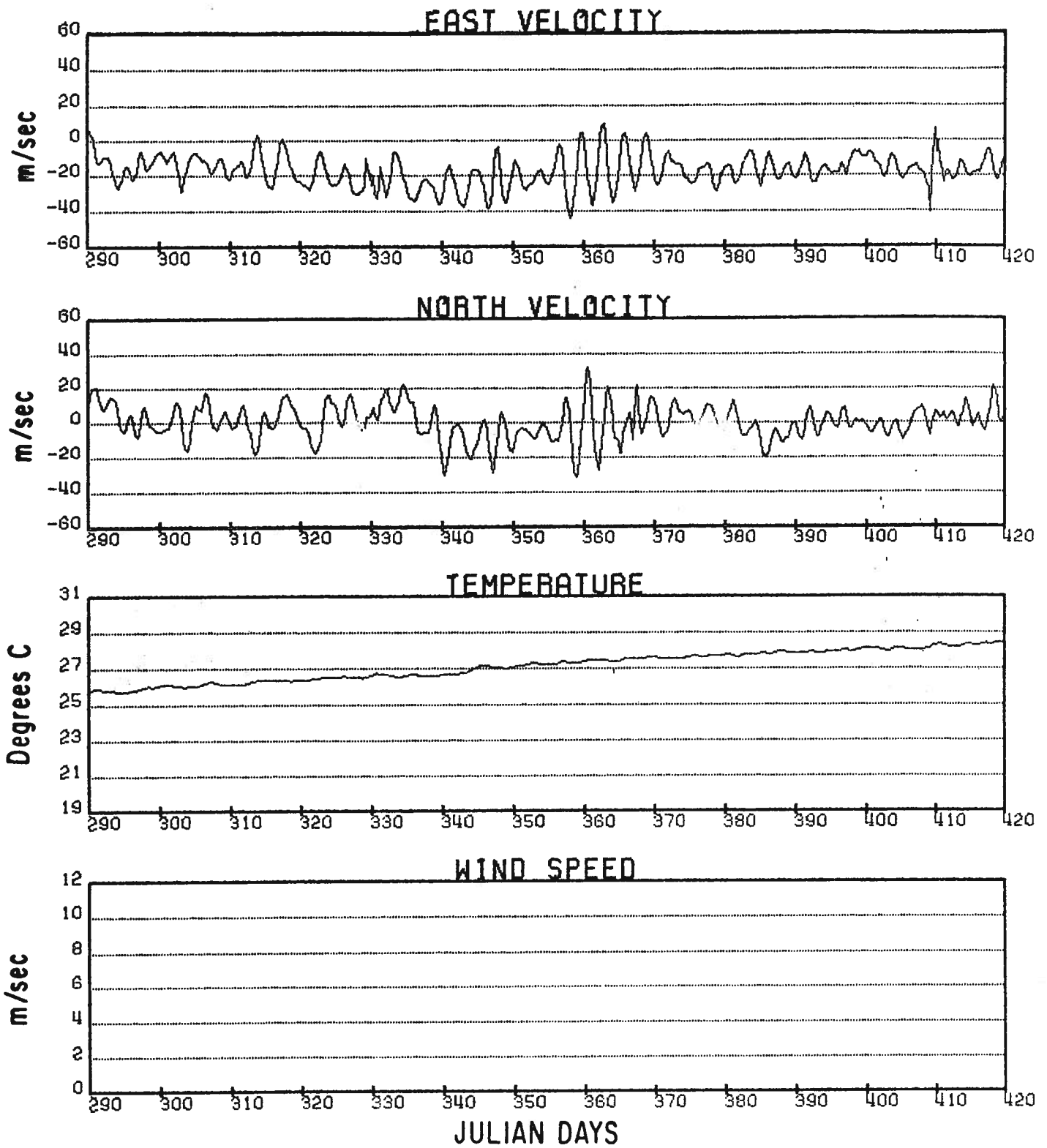


Figure 64. (Continued).

BUOY 2254

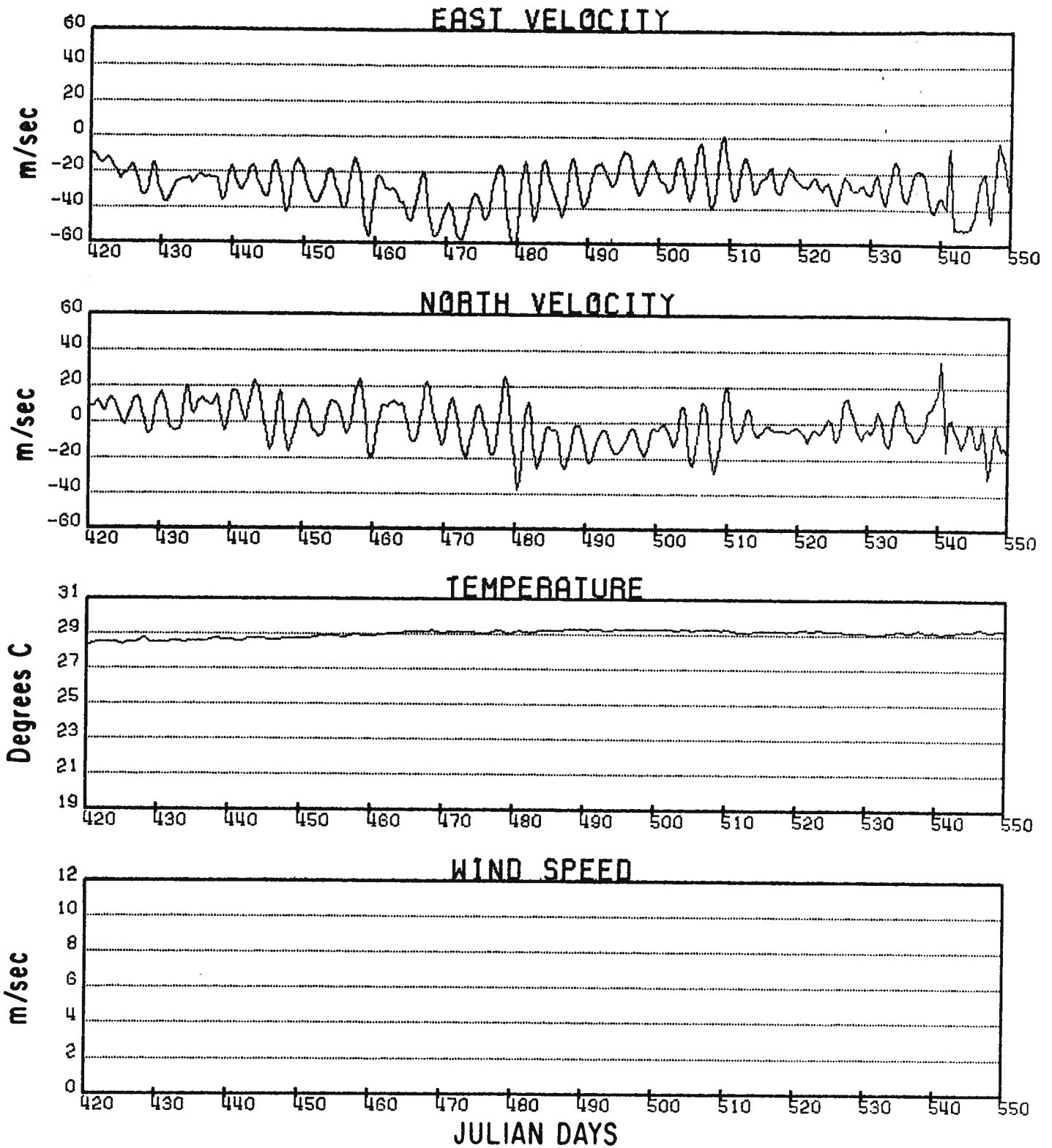
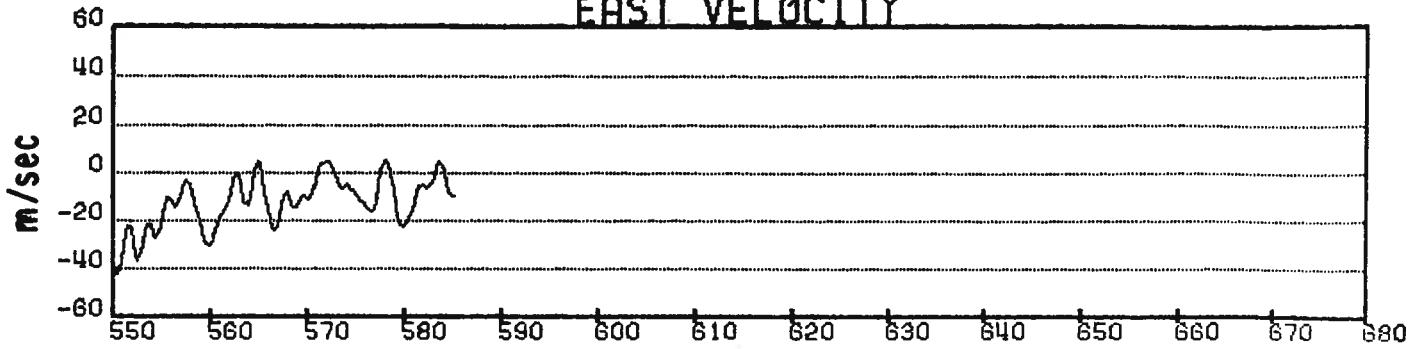


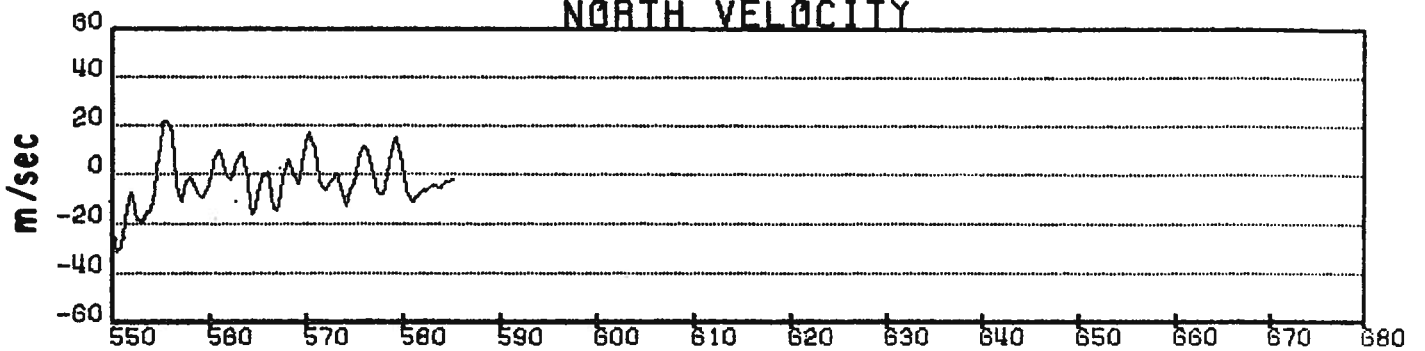
Figure 64. (Continued).

BUOY 2254

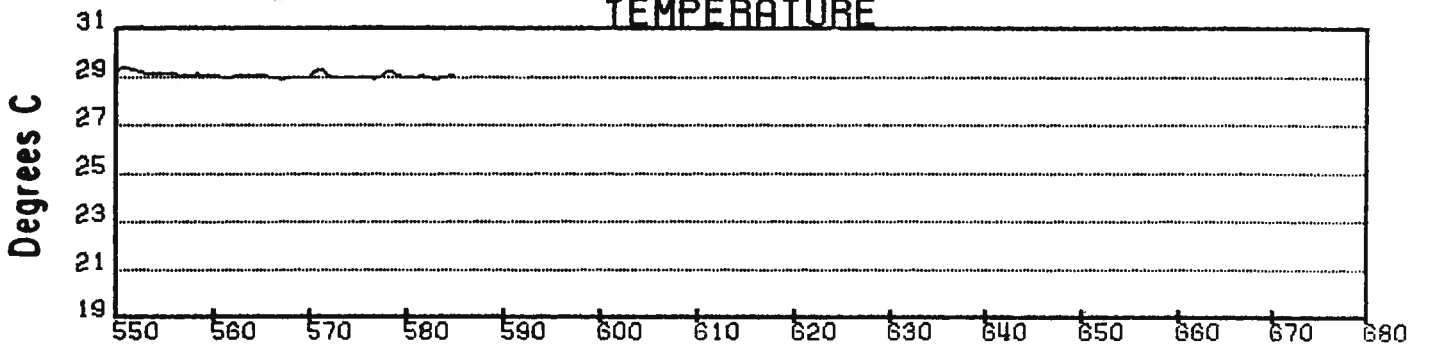
EAST VELOCITY



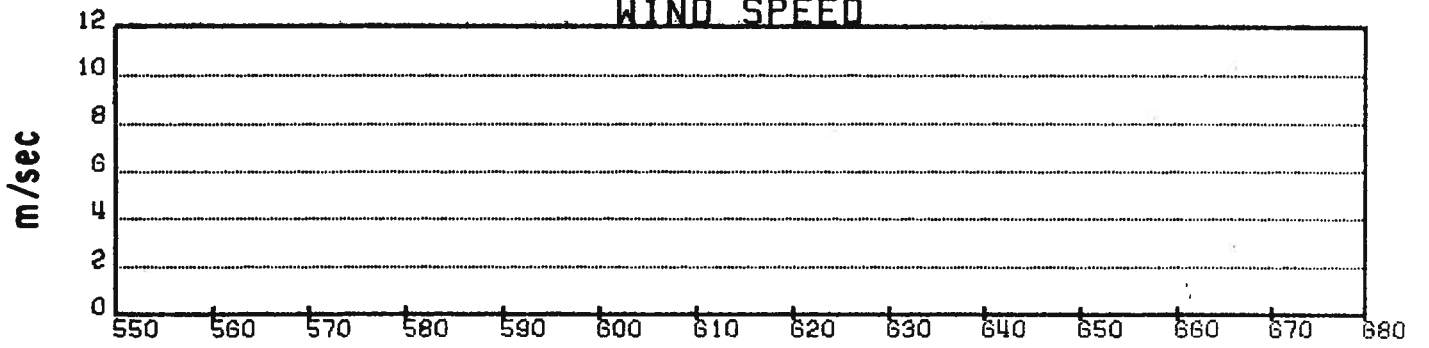
NORTH VELOCITY



TEMPERATURE

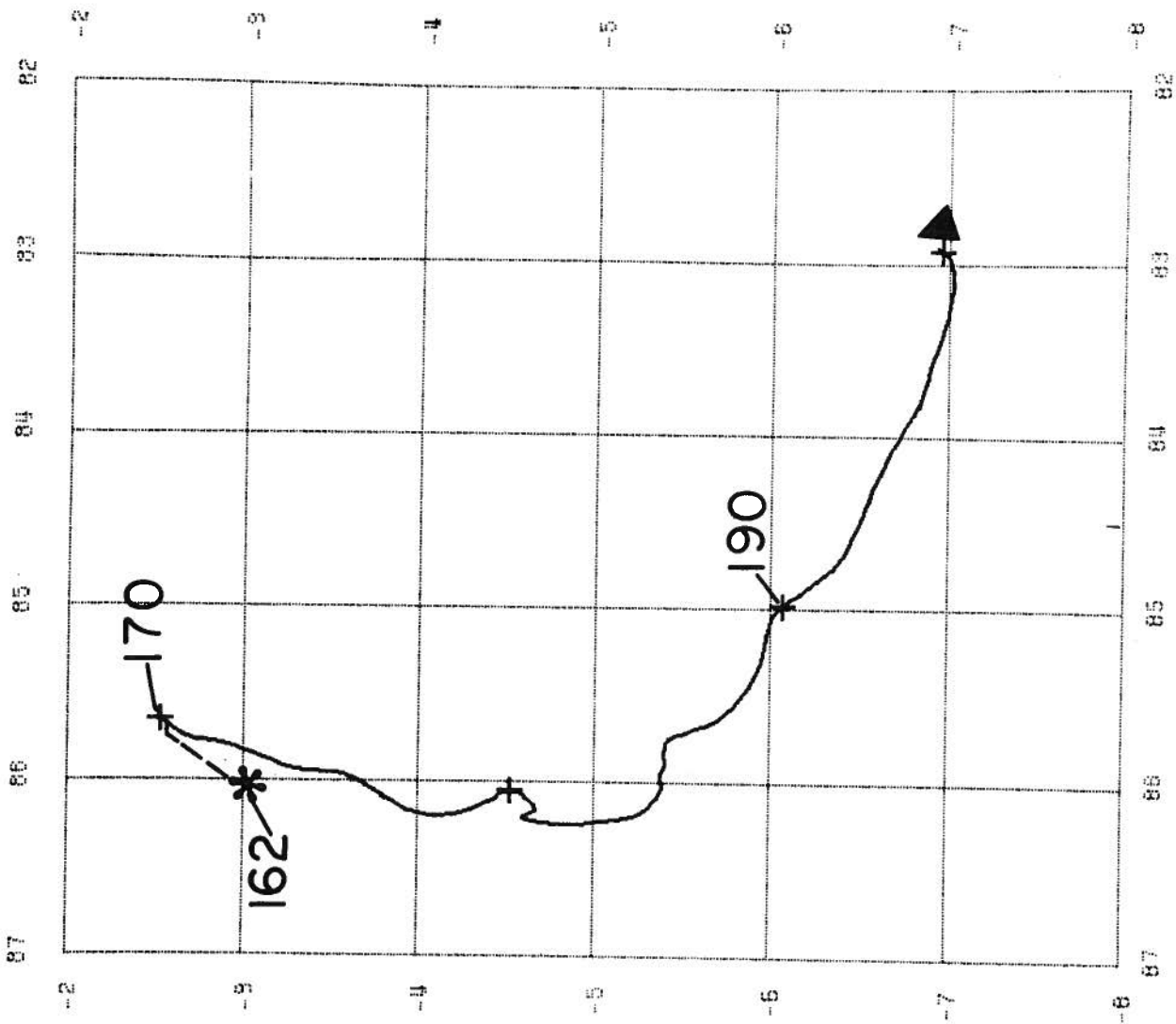


WIND SPEED



JULIAN DAYS

Figure 64. (Continued).



BUOY 2255

Figure 65. Trajectory of drifting buoy 2255.

BUOY 2255

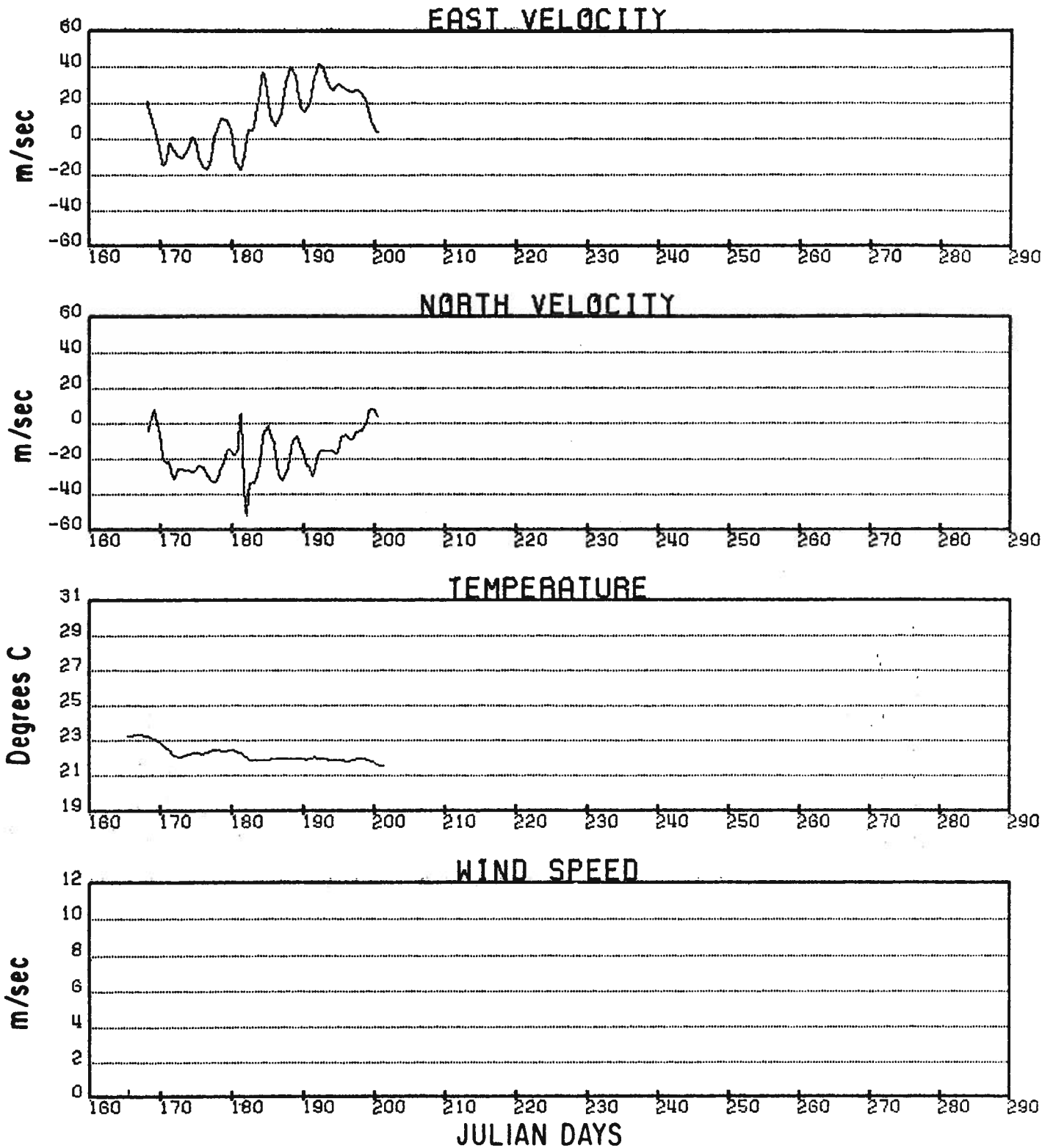
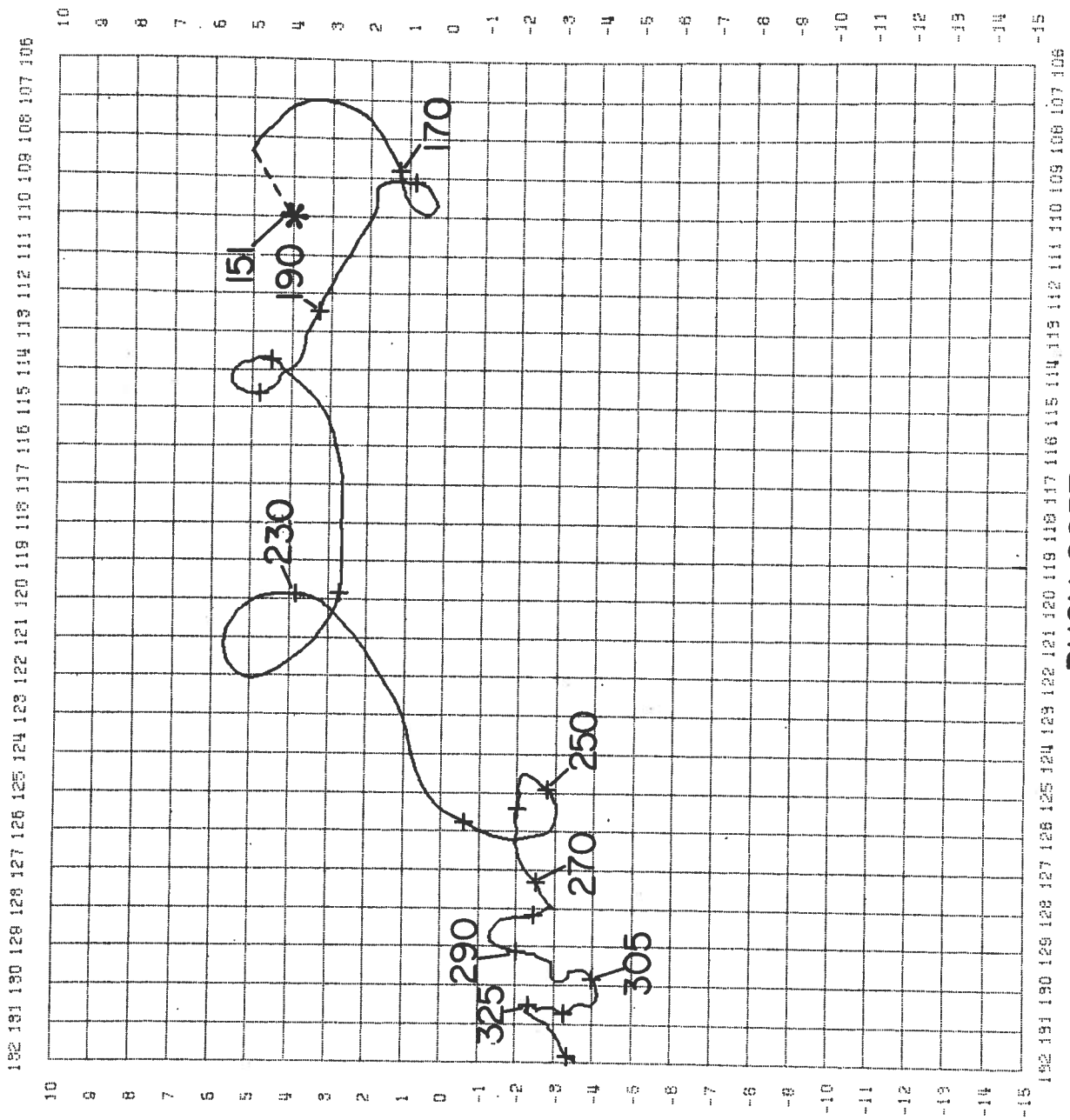
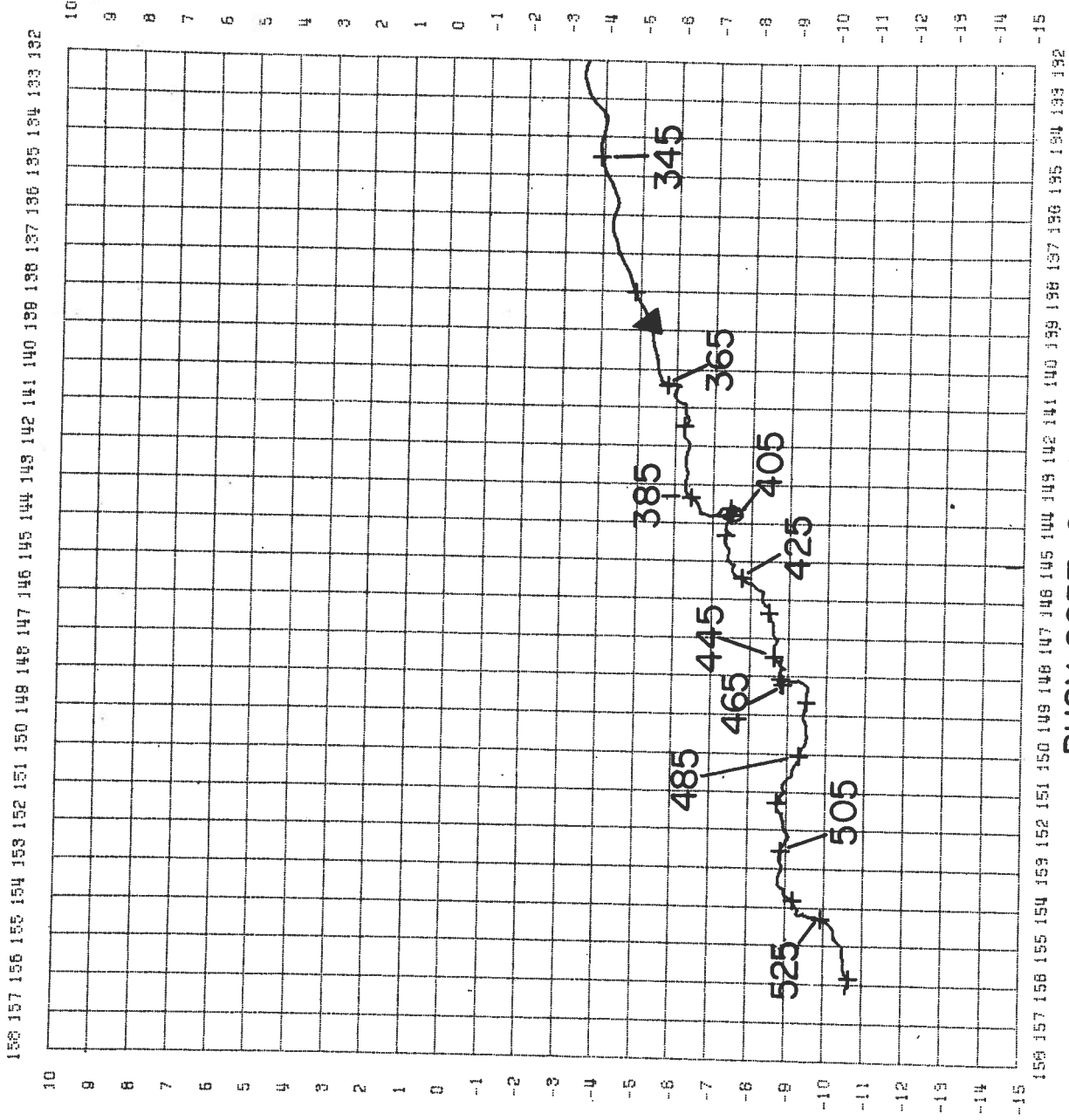


Figure 66. Time series of velocity and sensor data for drifting buoy 2255.



BUOY 2257

Figure 67. Trajectory of drifting buoy 2257.

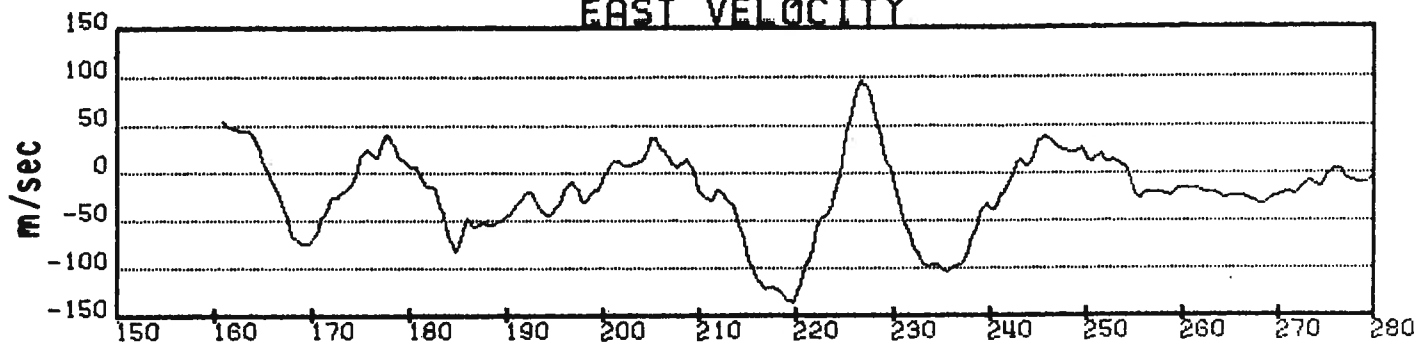


BUOY 2257 Continued

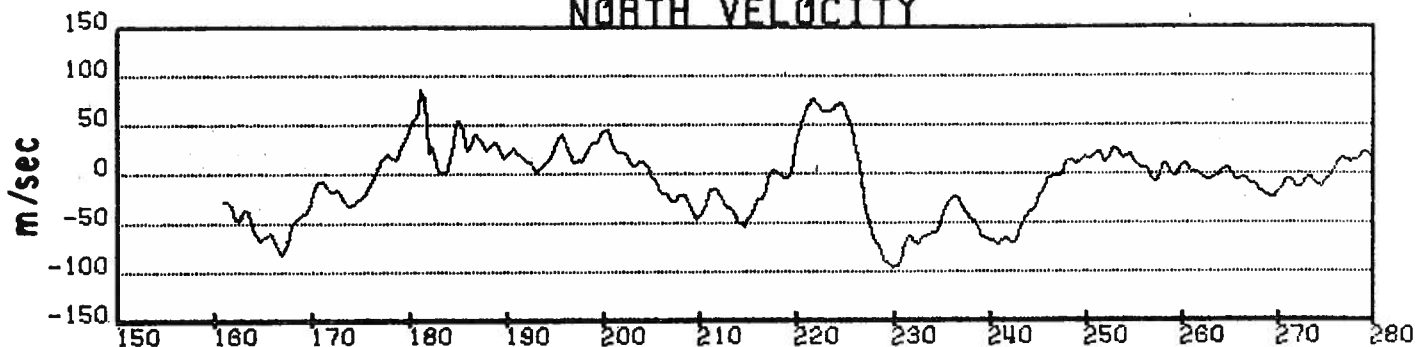
Figure 67. (Continued).

BUOY 2257

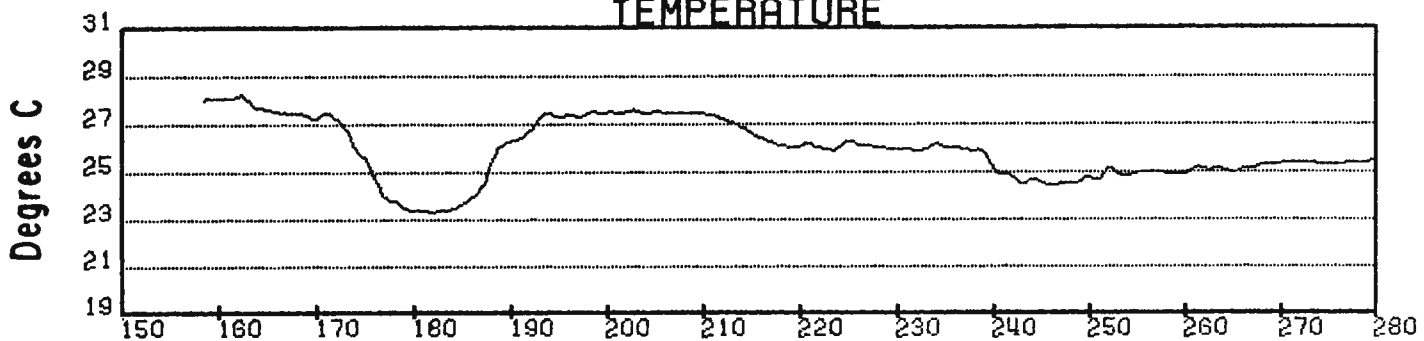
EAST VELOCITY



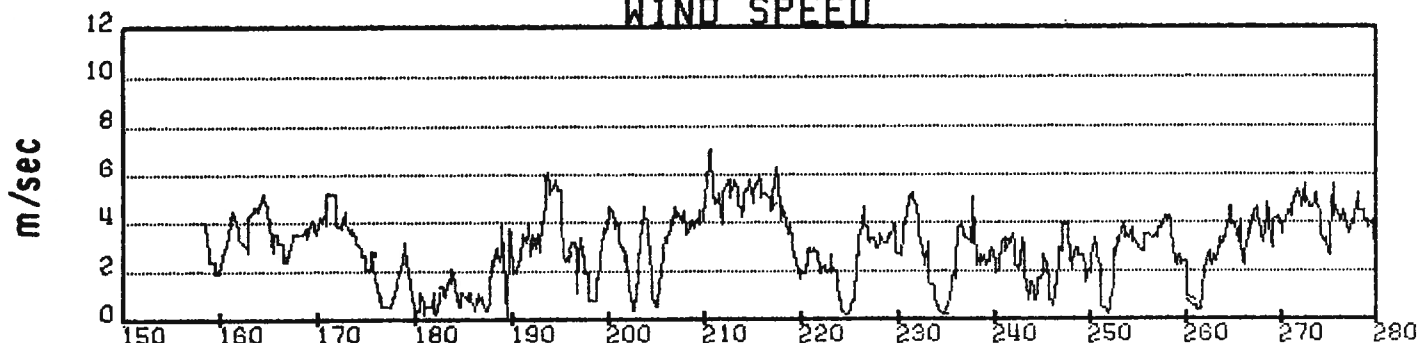
NORTH VELOCITY



TEMPERATURE



WIND SPEED

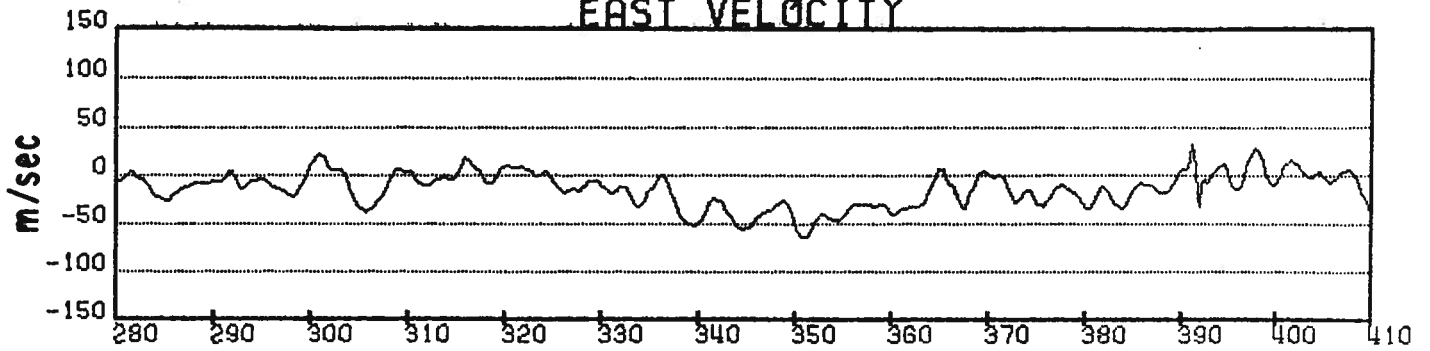


JULIAN DAYS

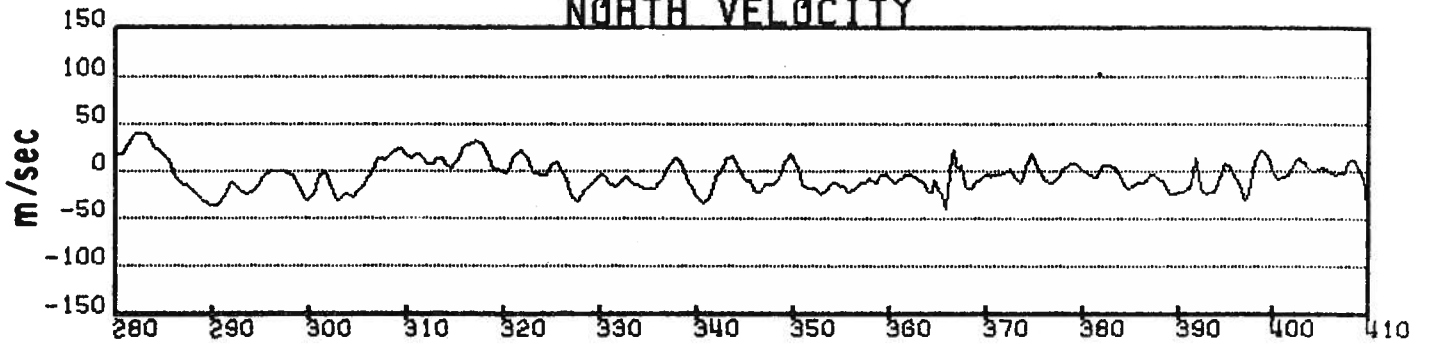
Figure 68. Time series of velocity and sensor data for drifting buoy 2257.

BUOY 2257

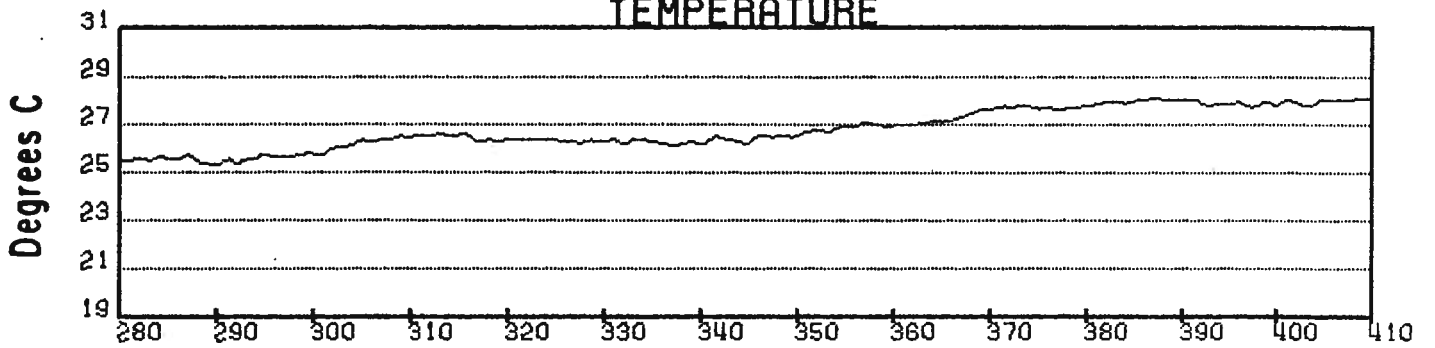
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

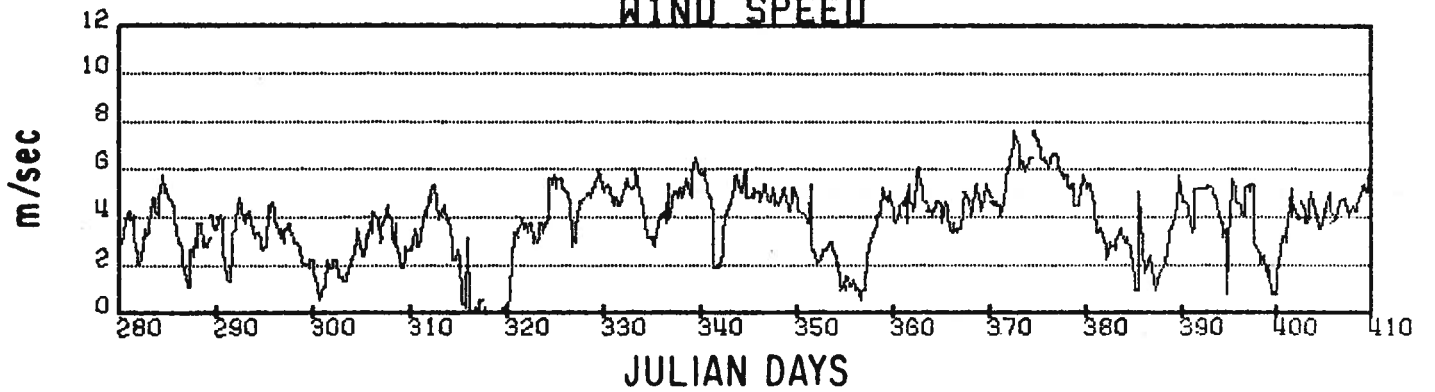
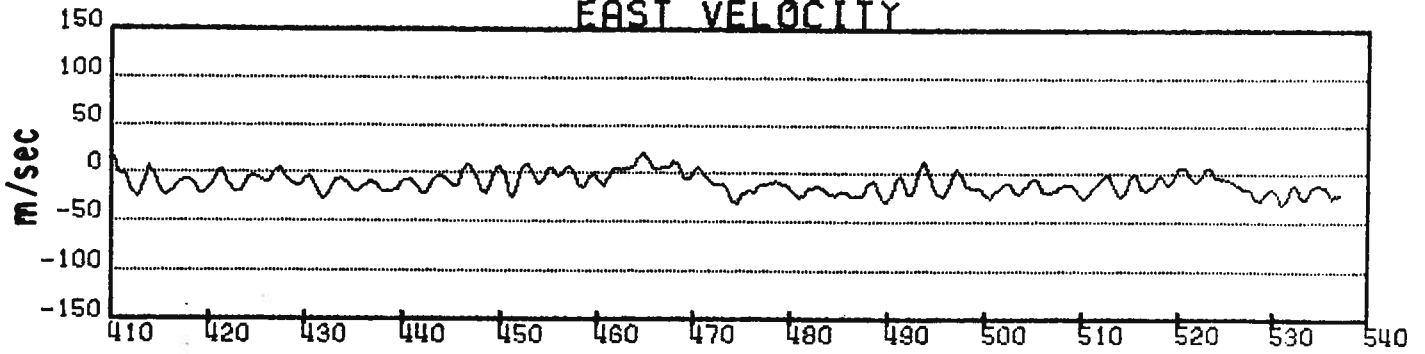


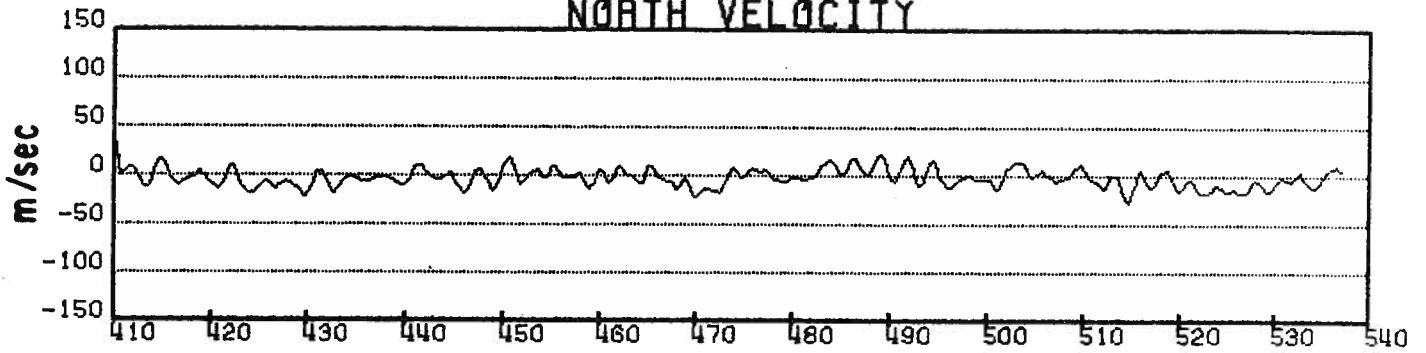
Figure 68. (Continued).

BUOY 2257

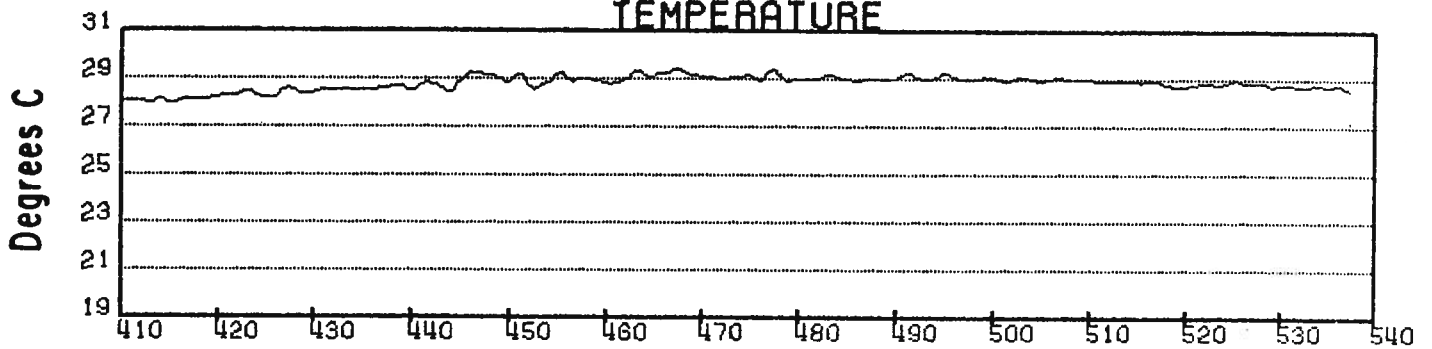
EAST VELOCITY



NORTH VELOCITY



TEMPERATURE



WIND SPEED

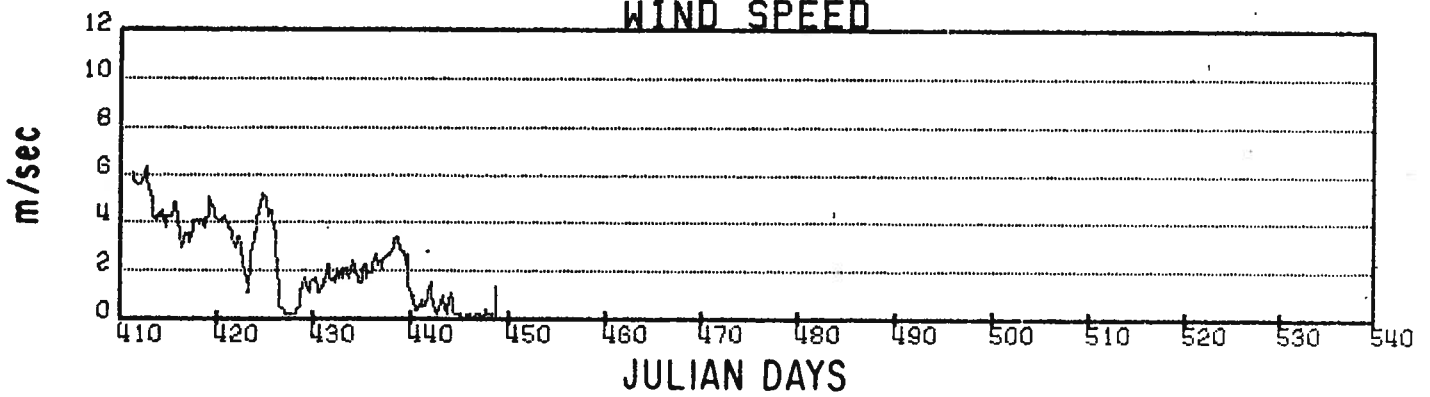


Figure 68. (Continued).

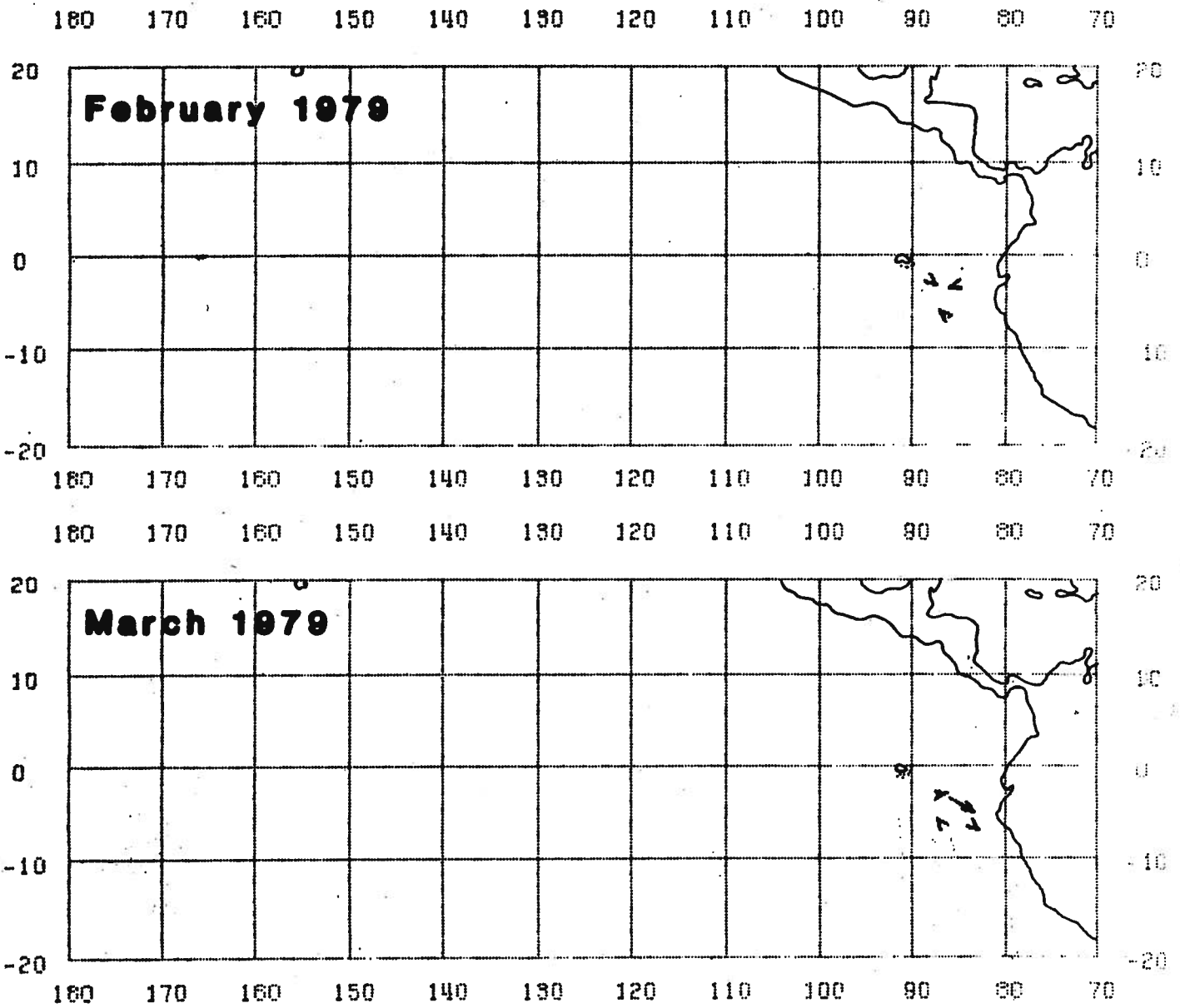


Figure 69.

Arrows indicate position of buoy at beginning and end of month and direction of travel.

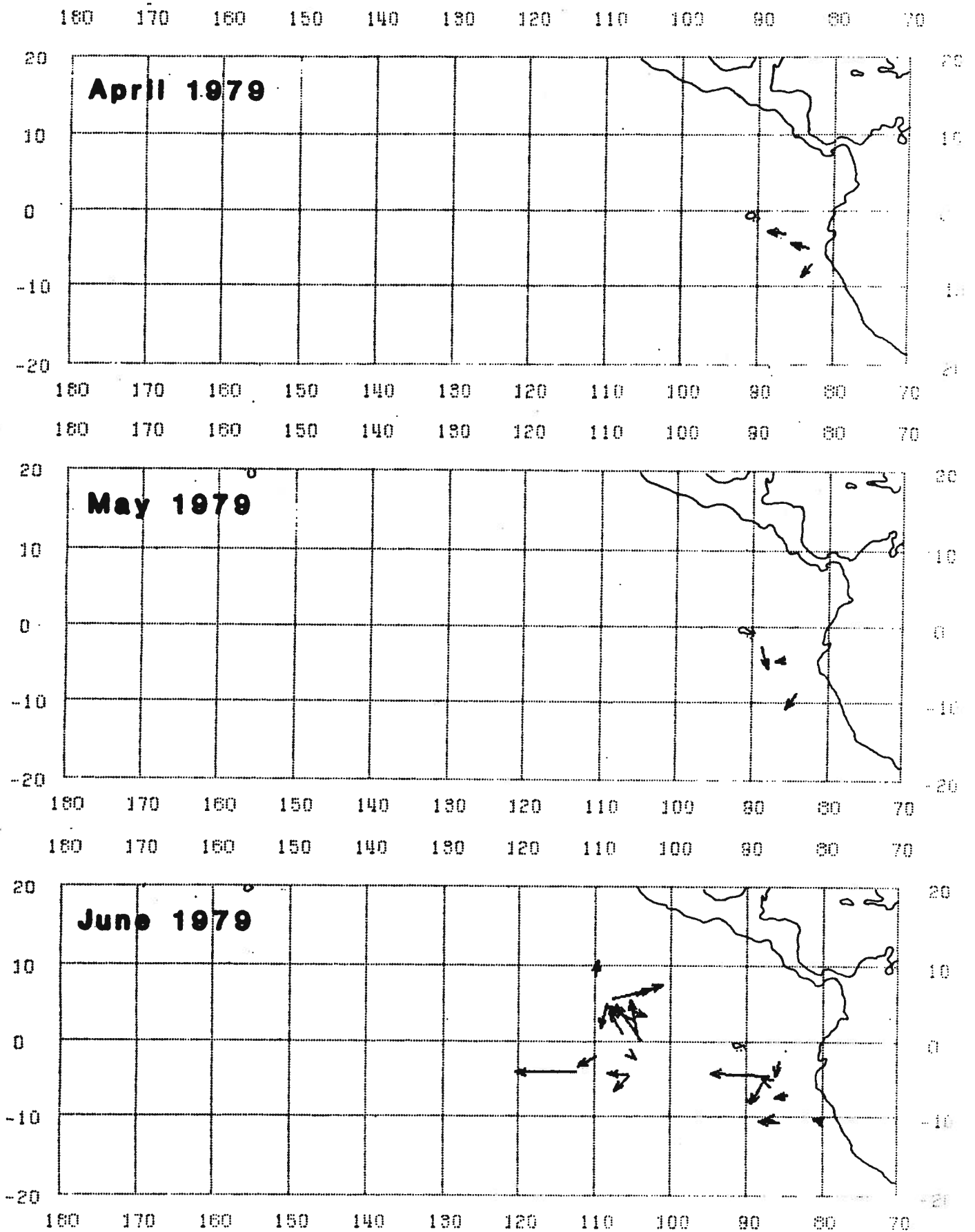


Figure 70.
Arrows indicate position of buoy at beginning and end of month and direction of travel.

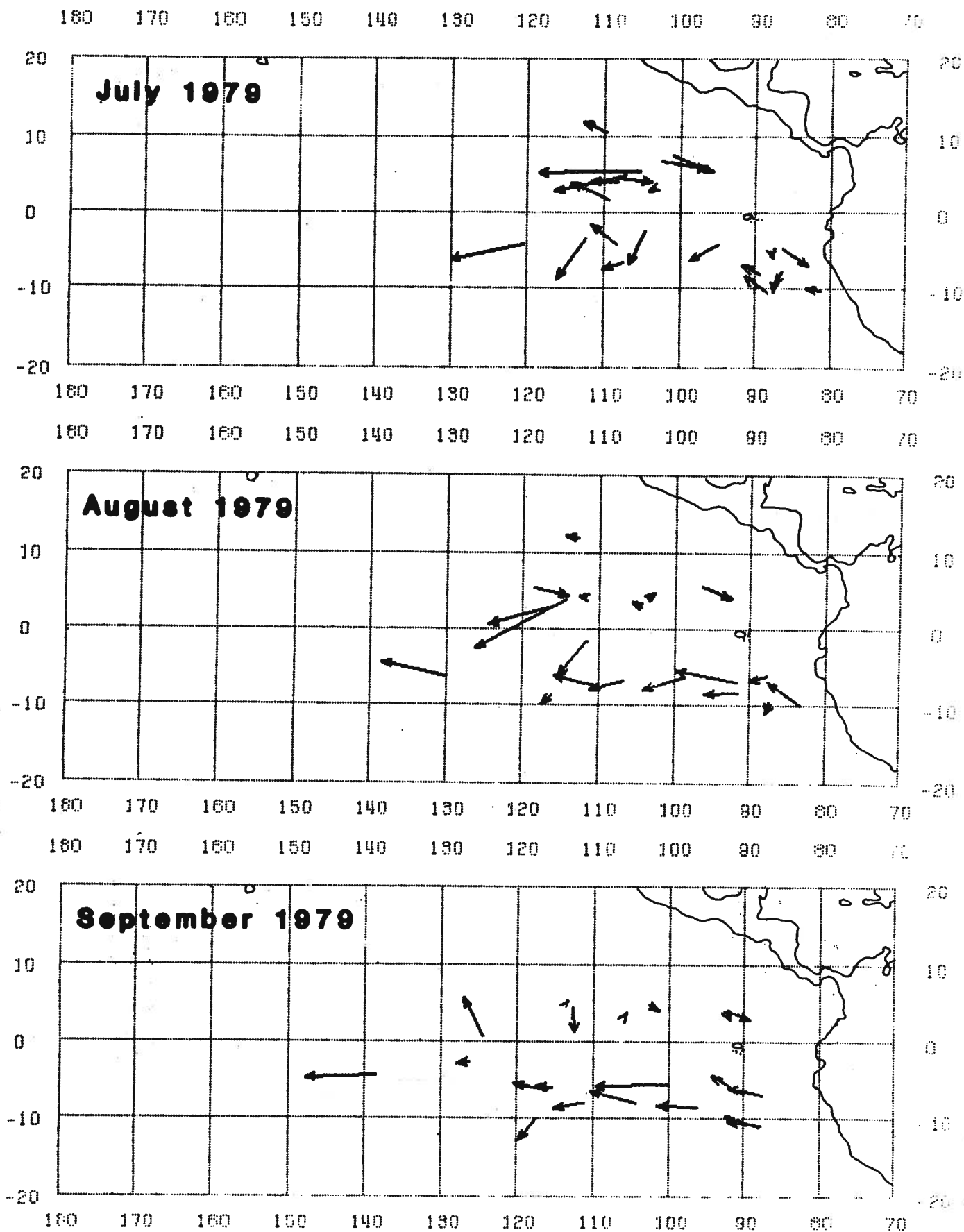


Figure 71.
Arrows indicate position of buoy at beginning and end of month and direction of travel.

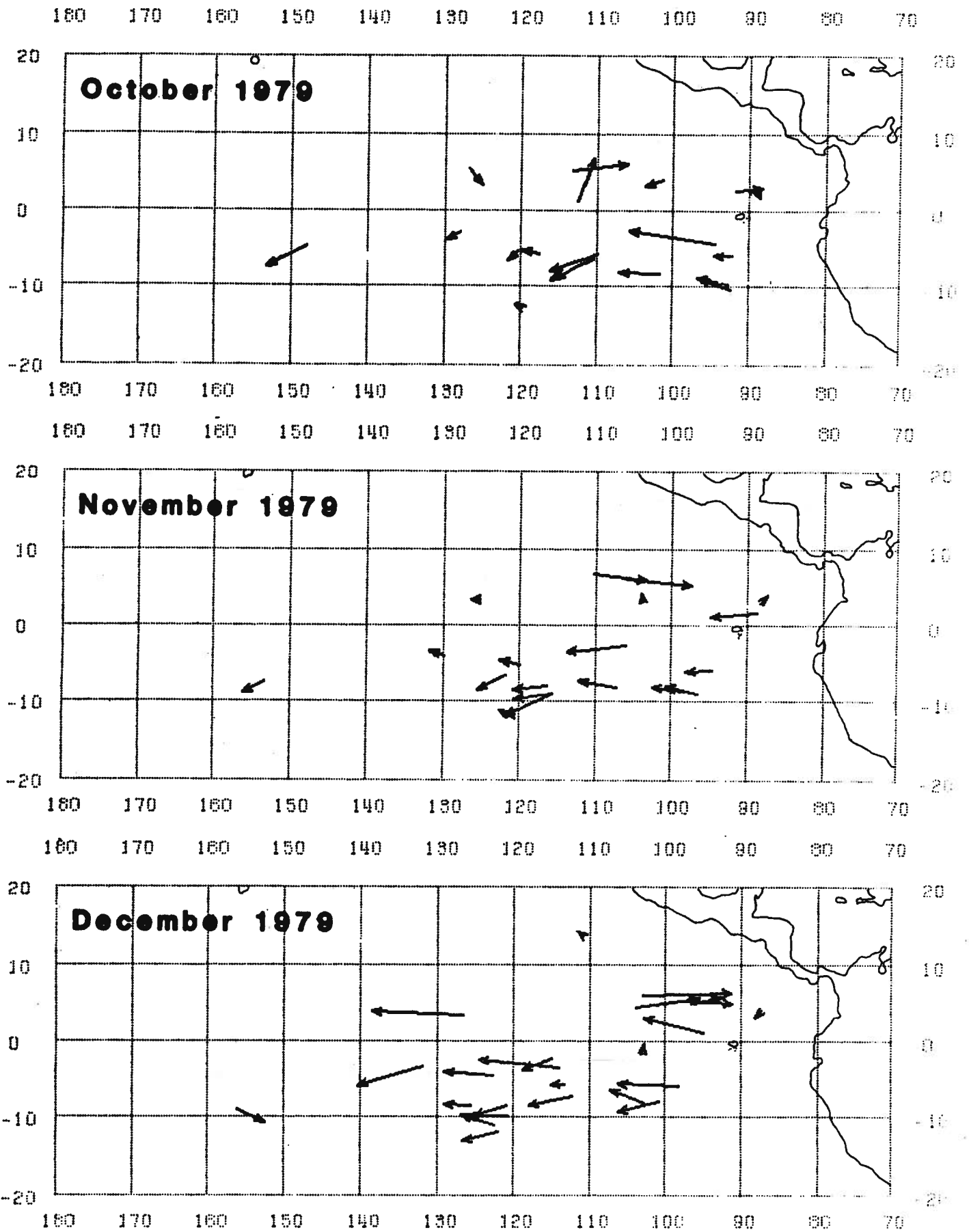


Figure 72.
Arrows indicate position of buoy at beginning and end of month and direction of travel.

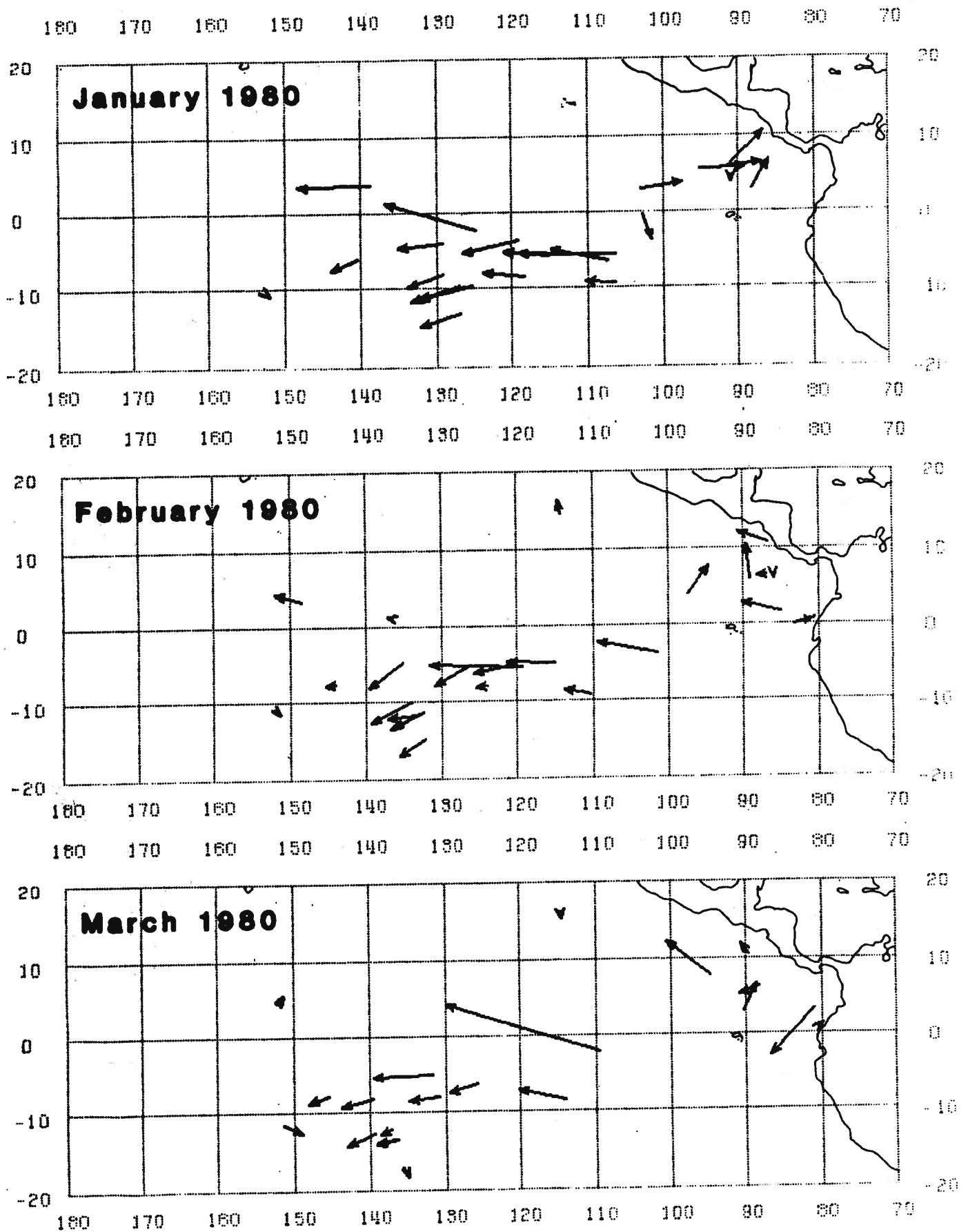
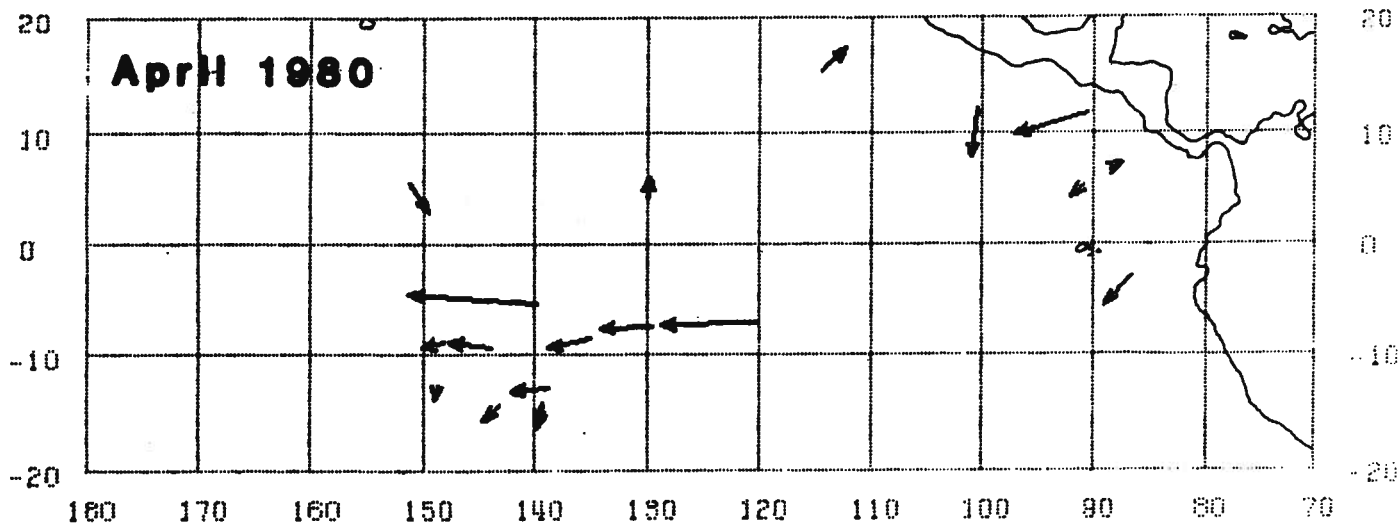
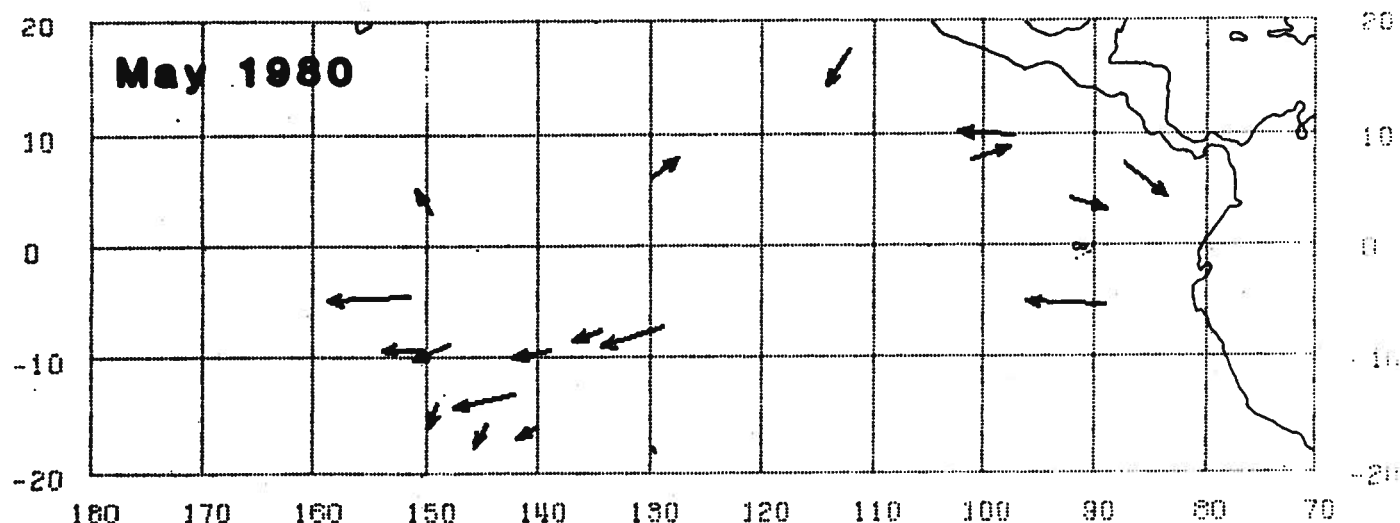


Figure 73.
Arrows indicate position of buoy at beginning and end of month and direction of travel.

180 170 160 150 140 130 120 110 100 90 80 70



180 170 160 150 140 130 120 110 100 90 80 70



180 170 160 150 140 130 120 110 100 90 80 70

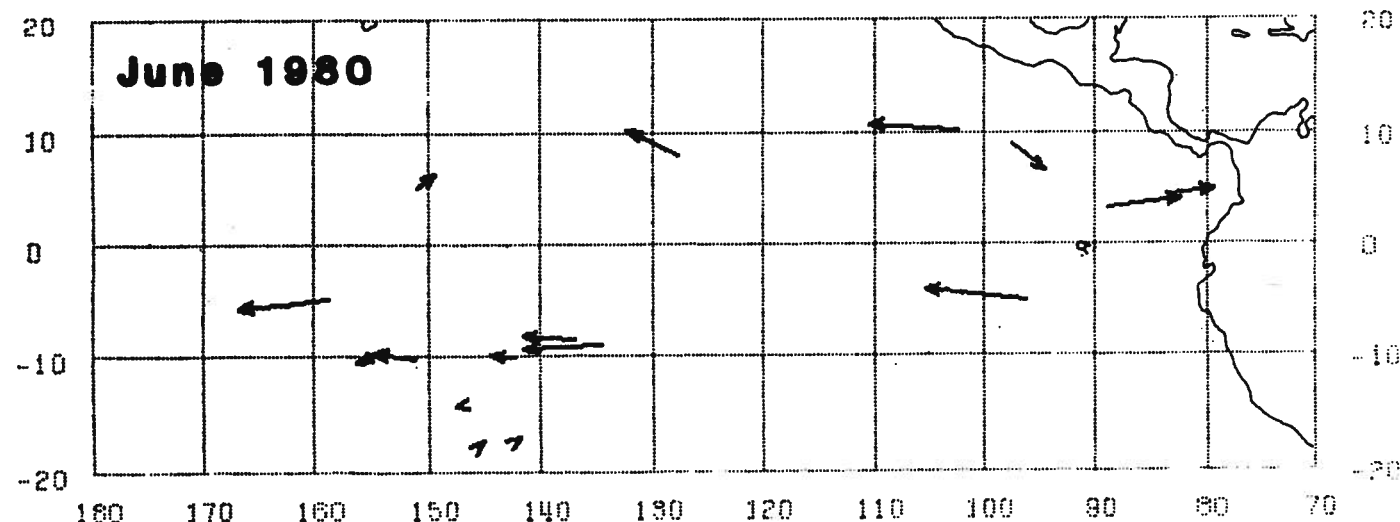


Figure 74.

Arrows indicate position of buoy at beginning and end

of month and direction of travel.

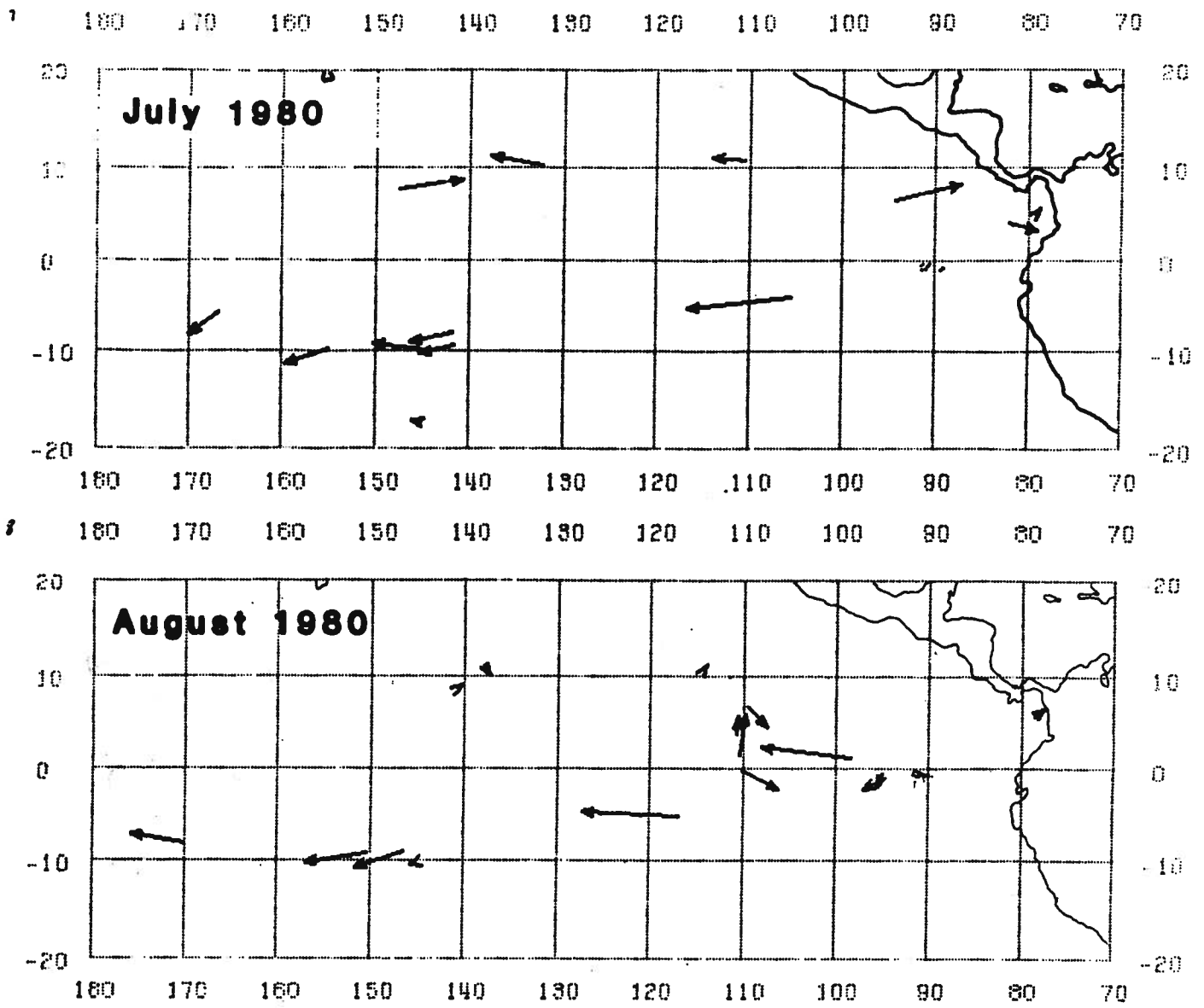


Figure 75.

Arrows indicate position of buoy at beginning and end of month and direction of travel.