

NOAA Data Report ERL AOML-16

DRIFTING BUOY DATA FROM THE EASTERN EQUATORIAL PACIFIC FOR THE PERIOD
JUNE 1, 1985 THROUGH JUNE 30, 1987

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INTRODUCTION

A total of 60 satellite-tracked free drifting buoys were in operation in the eastern tropical Pacific Ocean during the period June 1, 1985 through June 30, 1987. Details of their trajectories and performances are presented and discussed in this data report.

BUOY CONSTRUCTION

With the exception of two buoys (4420 and 4422) that were of the FGGE design constructed by the Polar Research Laboratory, Inc. and two other buoys (6224 and 6230) made by Technocean, these buoys were designed and built at NOAA/AOML (Bitterman and Hansen, 1986).

As a test and to compare their performance, one of the Technocean buoys (6224) was deployed with two AOML mini-buoys (4806 and 4814) and another (6230) with 4807 and 4811. Detailed trajectories of these two sets are shown on pages 15 and 16.

All AOML buoys were deployed with a 10 m length subsurface holey sock drogue on a 10 m long nylon tether and contained a drogue sensor and sea surface temperature and voltage sensors. Buoys 2084 and 2086 did not have drogues, and buoy 2087 had a drogue but no drogue sensor. The FGGE-type buoys carried 2 m x 10 m windowshade drogues on a 10 m long tether, and the full set of sensors. The Technocean buoys used a TRISTAR drogue, but were released without a drogue-loss sensor.

DATA ACQUISITION AND PROCESSING

Messages transmitted by the buoys are received by the satellites and relayed to the ground stations, then sent to the Argos Global Processing Centers, where they convert buoy message into location and/or sensor data, and finally distributed to the owners.

Once a month a tape was sent to AOML where the data were edited and interpolated (Pazos, 1988).

DATA DISPLAY

Table 1 shows a complete history for each buoy. Table 2 shows conversion from Julian Days (taking January 1, 1979 as day 1) to day, month and year. Bar charts are presented in Figures 1-4 to illustrate time of deployments and length of buoy lives. A spaghetti diagram is displayed on page 14, where beginning of each track is marked with a star, and ending of the track is marked with a closed circle. Monthly displacement of buoys can be found from pages 17 to 25. Trajectory and time series plots for each buoy are displayed from pages 26 to 254. The first part of the track of buoys 2084, 2086 and

2087 were discussed and presented in a previous data report. Trajectory plots show the tracks from beginning to end of life, but time series plots show only the section after June 1, 1985. For all other buoys, the entire track and time series plots are displayed even if it continues after June 30, 1987. On each trajectory, the deployment position is marked with a star, a closed circle indicates end of track and an asterisk shows where the drogue was lost, if the buoy ends with its drogue on, an asterisk will not show up at all.

The temperature sensor record of some buoys is shorter than the trajectory because the sensor failed before the end of the buoy life (2982, 2984, 3141, 3134).

The trajectory of buoy 2280 shows a divided track because a ship picked it up for some time and then re-deployed it. The trajectory while it was on the ship was deleted.

BIBLIOGRAPHY

Bitterman, D. S., and D. V. Hansen (1986). Proceedings, NDS '86 Marine Data Systems International Symposium, April 30-May 2, 1986, New Orleans, LA, pp. 575-581.

Pazos, M. C. (1988). Drifting buoy data from the equatorial Pacific Ocean for the period January 1, 1984 through May 31, 1985. NOAA Data Report ERL AOML-11.

Table 1. Drift Buoy History

ID	DEP. TIME			DEP LAT	DEP LON	END TIME			DROG LOST			DEATH CODE	NO. DAYS	
	M	D	Y			M	D	Y	M	D	Y		LIFE/DROGUED	
2084	6	29.00	84	0.02	85.04	10	30.00	85	6	29.00	84	3	488	0
2086	6	27.00	84	-4.50	85.00	10	11.00	85	6	27.00	84	3	471	0
2087	6	27.00	84	-4.50	85.00	10	29.00	85	10	29.00	85	3	489	489
2091	12	22.00	85	-12.50	78.10	4	11.00	87	10	14.00	86	3	475	296
2092	12	18.00	85	-9.60	79.20	4	6.00	87	4	6.00	87	3	474	474
2093	9	18.00	85	-1.90	85.00	10	25.00	86	10	25.00	86	3	402	402
2094	4	1.00	86	-12.80	79.78	5	18.00	87	5	18.00	87	3	412	412
2095	10	13.00	85	6.99	143.79	12	26.00	85	12	26.00	85	3	74	74
2096	9	25.00	85	2.95	88.52	11	22.00	85	10	25.00	85	2	58	30
2097	11	22.00	85	-14.99	89.99	7	6.00	86	7	6.00	86	3	226	226
2098	11	23.00	85	-15.00	85.00	1	1.00	87	7	20.00	86	3	404	239
2099	12	6.00	85	0.00	85.00	1	3.00	86	1	3.00	86	1	28	28
2243	3	31.19	86	-2.11	83.90	12	20.00	86	12	20.00	86	3	264	264
2244	9	19.00	85	-1.43	83.50	6	16.00	86	4	9.00	86	3	270	202
2245	6	17.00	85	-0.01	95.03	7	30.00	86	1	7.00	86	3	408	204
2246	7	1.14	85	0.31	139.89	9	7.95	85	9	7.00	85	3	69	69
2247	6	26.00	85	-0.08	124.60	10	22.00	86	11	29.00	85	3	483	156
2249	6	20.00	85	0.00	105.58	7	29.00	86	7	29.00	86	3	404	404
2280	9	29.00	85	0.05	96.66	10	23.00	86	1	17.00	86	3	389	110
2281	11	7.30	85	7.00	115.00	12	24.00	86	2	20.00	86	3	412	105
2282	11	11.00	85	0.00	110.00	1	13.00	87	2	5.00	86	3	428	86
2283	11	16.50	85	-15.00	110.00	1	5.00	87	12	11.00	85	3	415	25
2284	11	19.50	85	-14.90	100.00	3	8.00	87	4	19.00	86	3	474	151
2285	10	7.00	85	0.00	134.00	10	27.69	86	11	25.00	85	3	386	49
2286	10	4.00	85	0.00	120.00	11	29.65	86	12	4.00	85	3	422	61
2287	9	29.00	85	-0.16	105.90	9	16.00	86	6	19.00	86	3	352	263
2970	4	23.00	86	0.60	109.60	6	14.00	86	6	14.00	86	3	52	52
2971	4	22.00	86	0.40	109.90	7	18.00	86	7	18.00	86	3	87	87
2972	5	7.00	86	-10.80	80.06	5	12.00	86	5	12.00	86	3	5	5
2973	5	11.00	86	-4.90	82.40	2	25.00	87	2	25.00	87	3	290	290
2975	5	12.00	86	-2.00	84.90	7	20.00	86	7	20.00	86	3	69	69
2976	5	13.80	86	1.50	84.90	6	12.00	86	6	12.00	86	1	29	29
2980	5	24.89	86	-0.06	94.90	1	6.00	87	1	6.00	87	1	226	226
2981	5	26.30	86	-0.03	100.90	3	7.00	87	2	7.00	87	3	285	257
2982	5	28.39	86	-0.05	107.80	5	4.00	87	5	4.00	87	3	341	341
2983	6	3.89	86	0.20	114.50	6	19.00	87	9	1.00	86	3	380	90
2984	6	7.39	86	0.60	118.70	3	27.00	87	3	27.00	87	3	293	293
2985	6	9.89	86	0.00	129.80	8	24.00	87	9	20.00	86	3	440	103
3130	10	1.00	86	-12.40	77.80	10	18.00	87	10	18.00	87	3	382	382
3131	11	18.00	86	-4.80	82.00	8	25.00	87	8	25.00	87	3	280	280
3134	8	7.39	86	7.00	124.00	5	6.06	87	12	9.00	86	3	272	124
3135	8	9.97	86	-0.77	125.01	7	7.54	87	12	7.00	86	3	332	120
3136	10	8.00	86	4.40	87.10	11	4.00	86	11	4.00	86	3	27	27
3137	8	17.39	86	7.00	117.50	2	15.42	87	12	29.00	86	1	182	134
3138	9	16.00	86	-0.20	109.80	1	11.00	88	4	9.00	87	3	482	205
3139	9	23.00	86	0.80	103.50	2	17.00	88	12	27.00	86	3	512	95
3140	9	21.80	86	5.90	95.40	7	10.00	87	1	4.00	87	3	291	105
3141	11	27.00	86	7.80	124.30	7	31.00	87	7	31.00	87	3	245	245
4420	5	7.00	85	0.00	119.57	7	2.00	85	7	2.00	85	3	56	56
4422	5	9.00	85	0.09	110.00	3	9.00	86	9	15.00	85	3	304	129

Table 1. Drift Buoy History (Cont)

ID	DEP. TIME			DEP LAT	DEP LON	END TIME			DROG LOST			DEATH CODE	NO. DAYS LIFE/DROGUED
	M	D	Y			M	D	Y	M	D	Y		
4806	11	19.00	86	0.00	109.90	1	21.00	88	1	21.00	88	3	428 428
4807	12	10.51	86	0.00	85.00	2	21.00	88	2	21.00	88	3	437 437
4808	11	2.50	86	0.00	124.90	5	13.00	87	12	4.00	86	3	192 32
4809	10	29.60	86	0.00	140.10	11	17.20	87	2	9.00	87	3	384 103
4811	12	10.58	86	-0.03	85.01	3	14.00	88	3	14.00	88	3	459 459
4812	11	21.60	86	-4.90	109.90	7	22.00	87	7	22.00	87	3	242 242
4813	11	6.39	86	0.00	110.10	12	20.31	87	2	7.00	87	3	409 93
4814	11	19.00	86	0.00	109.90	11	4.00	87	4	11.00	87	3	350 143
6224	11	20.00	86	-0.08	110.00	8	18.31	87	8	18.00	87	3	271 271
6230	12	10.52	86	-0.03	85.01	3	2.00	87	3	2.00	87	3	81 81

Death Code:

1. Buoy hit land and stayed grounded.
2. Buoy was picked up by a ship and carried on board.
3. Buoy quit transmitting by itself.

Table 2. Julian Day Conversion

2344	1 JUN 85	2400	27 JUL 85	2456	21 SEP 85
2345	2 JUN 85	2401	28 JUL 85	2457	22 SEP 85
2346	3 JUN 85	2402	29 JUL 85	2458	23 SEP 85
2347	4 JUN 85	2403	30 JUL 85	2459	24 SEP 85
2348	5 JUN 85	2404	31 JUL 85	2460	25 SEP 85
2349	6 JUN 85	2405	1 AUG 85	2461	26 SEP 85
2350	7 JUN 85	2406	2 AUG 85	2462	27 SEP 85
2351	8 JUN 85	2407	3 AUG 85	2463	28 SEP 85
2352	9 JUN 85	2408	4 AUG 85	2464	29 SEP 85
2353	10 JUN 85	2409	5 AUG 85	2465	30 SEP 85
2354	11 JUN 85	2410	6 AUG 85	2466	1 OCT 85
2355	12 JUN 85	2411	7 AUG 85	2467	2 OCT 85
2356	13 JUN 85	2412	8 AUG 85	2468	3 OCT 85
2357	14 JUN 85	2413	9 AUG 85	2469	4 OCT 85
2358	15 JUN 85	2414	10 AUG 85	2470	5 OCT 85
2359	16 JUN 85	2415	11 AUG 85	2471	6 OCT 85
2360	17 JUN 85	2416	12 AUG 85	2472	7 OCT 85
2361	18 JUN 85	2417	13 AUG 85	2473	8 OCT 85
2362	19 JUN 85	2418	14 AUG 85	2474	9 OCT 85
2363	20 JUN 85	2419	15 AUG 85	2475	10 OCT 85
2364	21 JUN 85	2420	16 AUG 85	2476	11 OCT 85
2365	22 JUN 85	2421	17 AUG 85	2477	12 OCT 85
2366	23 JUN 85	2422	18 AUG 85	2478	13 OCT 85
2367	24 JUN 85	2423	19 AUG 85	2479	14 OCT 85
2368	25 JUN 85	2424	20 AUG 85	2480	15 OCT 85
2369	26 JUN 85	2425	21 AUG 85	2481	16 OCT 85
2370	27 JUN 85	2426	22 AUG 85	2482	17 OCT 85
2371	28 JUN 85	2427	23 AUG 85	2483	18 OCT 85
2372	29 JUN 85	2428	24 AUG 85	2484	19 OCT 85
2373	30 JUN 85	2429	25 AUG 85	2485	20 OCT 85
2374	1 JUL 85	2430	26 AUG 85	2486	21 OCT 85
2375	2 JUL 85	2431	27 AUG 85	2487	22 OCT 85
2376	3 JUL 85	2432	28 AUG 85	2488	23 OCT 85
2377	4 JUL 85	2433	29 AUG 85	2489	24 OCT 85
2378	5 JUL 85	2434	30 AUG 85	2490	25 OCT 85
2379	6 JUL 85	2435	31 AUG 85	2491	26 OCT 85
2380	7 JUL 85	2436	1 SEP 85	2492	27 OCT 85
2381	8 JUL 85	2437	2 SEP 85	2493	28 OCT 85
2382	9 JUL 85	2438	3 SEP 85	2494	29 OCT 85
2383	10 JUL 85	2439	4 SEP 85	2495	30 OCT 85
2384	11 JUL 85	2440	5 SEP 85	2496	31 OCT 85
2385	12 JUL 85	2441	6 SEP 85	2497	1 NOV 85
2386	13 JUL 85	2442	7 SEP 85	2498	2 NOV 85
2387	14 JUL 85	2443	8 SEP 85	2499	3 NOV 85
2388	15 JUL 85	2444	9 SEP 85	2500	4 NOV 85
2389	16 JUL 85	2445	10 SEP 85	2501	5 NOV 85
2390	17 JUL 85	2446	11 SEP 85	2502	6 NOV 85
2391	18 JUL 85	2447	12 SEP 85	2503	7 NOV 85
2392	19 JUL 85	2448	13 SEP 85	2504	8 NOV 85
2393	20 JUL 85	2449	14 SEP 85	2505	9 NOV 85
2394	21 JUL 85	2450	15 SEP 85	2506	10 NOV 85
2395	22 JUL 85	2451	16 SEP 85	2507	11 NOV 85
2396	23 JUL 85	2452	17 SEP 85	2508	12 NOV 85
2397	24 JUL 85	2453	18 SEP 85	2509	13 NOV 85
2398	25 JUL 85	2454	19 SEP 85	2510	14 NOV 85
2399	26 JUL 85	2455	20 SEP 85	2511	15 NOV 85

Table 2. Julian Day Conversion (Cont.)

2512	16	NOV	85	2568	11	JAN	86	2624	8	MAR	86
2513	17	NOV	85	2569	12	JAN	86	2625	9	MAR	86
2514	18	NOV	85	2570	13	JAN	86	2626	10	MAR	86
2515	19	NOV	85	2571	14	JAN	86	2627	11	MAR	86
2516	20	NOV	85	2572	15	JAN	86	2628	12	MAR	86
2517	21	NOV	85	2573	16	JAN	86	2629	13	MAR	86
2518	22	NOV	85	2574	17	JAN	86	2630	14	MAR	86
2519	23	NOV	85	2575	18	JAN	86	2631	15	MAR	86
2520	24	NOV	85	2576	19	JAN	86	2632	16	MAR	86
2521	25	NOV	85	2577	20	JAN	86	2633	17	MAR	86
2522	26	NOV	85	2578	21	JAN	86	2634	18	MAR	86
2523	27	NOV	85	2579	22	JAN	86	2635	19	MAR	86
2524	28	NOV	85	2580	23	JAN	86	2636	20	MAR	86
2525	29	NOV	85	2581	24	JAN	86	2637	21	MAR	86
2526	30	NOV	85	2582	25	JAN	86	2638	22	MAR	86
2527	1	DEC	85	2583	26	JAN	86	2639	23	MAR	86
2528	2	DEC	85	2584	27	JAN	86	2640	24	MAR	86
2529	3	DEC	85	2585	28	JAN	86	2641	25	MAR	86
2530	4	DEC	85	2586	29	JAN	86	2642	26	MAR	86
2531	5	DEC	85	2587	30	JAN	86	2643	27	MAR	86
2532	6	DEC	85	2588	31	JAN	86	2644	28	MAR	86
2533	7	DEC	85	2589	1	FEB	86	2645	29	MAR	86
2534	8	DEC	85	2590	2	FEB	86	2646	30	MAR	86
2535	9	DEC	85	2591	3	FEB	86	2647	31	MAR	86
2536	10	DEC	85	2592	4	FEB	86	2648	1	APR	86
2537	11	DEC	85	2593	5	FEB	86	2649	2	APR	86
2538	12	DEC	85	2594	6	FEB	86	2650	3	APR	86
2539	13	DEC	85	2595	7	FEB	86	2651	4	APR	86
2540	14	DEC	85	2596	8	FEB	86	2652	5	APR	86
2541	15	DEC	85	2597	9	FEB	86	2653	6	APR	86
2542	16	DEC	85	2598	10	FEB	86	2654	7	APR	86
2543	17	DEC	85	2599	11	FEB	86	2655	8	APR	86
2544	18	DEC	85	2600	12	FEB	86	2656	9	APR	86
2545	19	DEC	85	2601	13	FEB	86	2657	10	APR	86
2546	20	DEC	85	2602	14	FEB	86	2658	11	APR	86
2547	21	DEC	85	2603	15	FEB	86	2659	12	APR	86
2548	22	DEC	85	2604	16	FEB	86	2660	13	APR	86
2549	23	DEC	85	2605	17	FEB	86	2661	14	APR	86
2550	24	DEC	85	2606	18	FEB	86	2662	15	APR	86
2551	25	DEC	85	2607	19	FEB	86	2663	16	APR	86
2552	26	DEC	85	2608	20	FEB	86	2664	17	APR	86
2553	27	DEC	85	2609	21	FEB	86	2665	18	APR	86
2554	28	DEC	85	2610	22	FEB	86	2666	19	APR	86
2555	29	DEC	85	2611	23	FEB	86	2667	20	APR	86
2556	30	DEC	85	2612	24	FEB	86	2668	21	APR	86
2557	31	DEC	85	2613	25	FEB	86	2669	22	APR	86
2558	1	JAN	86	2614	26	FEB	86	2670	23	APR	86
2559	2	JAN	86	2615	27	FEB	86	2671	24	APR	86
2560	3	JAN	86	2616	28	FEB	86	2672	25	APR	86
2561	4	JAN	86	2617	1	MAR	86	2673	26	APR	86
2562	5	JAN	86	2618	2	MAR	86	2674	27	APR	86
2563	6	JAN	86	2619	3	MAR	86	2675	28	APR	86
2564	7	JAN	86	2620	4	MAR	86	2676	29	APR	86
2565	8	JAN	86	2621	5	MAR	86	2677	30	APR	86
2566	9	JAN	86	2622	6	MAR	86	2678	1	MAY	86
2567	10	JAN	86	2623	7	MAR	86	2679	2	MAY	86

Table 2. Julian Day Conversion (Cont.)

2680	3	MAY	86	2736	28	JUN	86	2792	23	AUG	86
2681	4	MAY	86	2737	29	JUN	86	2793	24	AUG	86
2682	5	MAY	86	2738	30	JUN	86	2794	25	AUG	86
2683	6	MAY	86	2739	1	JUL	86	2795	26	AUG	86
2684	7	MAY	86	2740	2	JUL	86	2796	27	AUG	86
2685	8	MAY	86	2741	3	JUL	86	2797	28	AUG	86
2686	9	MAY	86	2742	4	JUL	86	2798	29	AUG	86
2687	10	MAY	86	2743	5	JUL	86	2799	30	AUG	86
2688	11	MAY	86	2744	6	JUL	86	2800	31	AUG	86
2689	12	MAY	86	2745	7	JUL	86	2801	1	SEP	86
2690	13	MAY	86	2746	8	JUL	86	2802	2	SEP	86
2691	14	MAY	86	2747	9	JUL	86	2803	3	SEP	86
2692	15	MAY	86	2748	10	JUL	86	2804	4	SEP	86
2693	16	MAY	86	2749	11	JUL	86	2805	5	SEP	86
2694	17	MAY	86	2750	12	JUL	86	2806	6	SEP	86
2695	18	MAY	86	2751	13	JUL	86	2807	7	SEP	86
2696	19	MAY	86	2752	14	JUL	86	2808	8	SEP	86
2697	20	MAY	86	2753	15	JUL	86	2809	9	SEP	86
2698	21	MAY	86	2754	16	JUL	86	2810	10	SEP	86
2699	22	MAY	86	2755	17	JUL	86	2811	11	SEP	86
2700	23	MAY	86	2756	18	JUL	86	2812	12	SEP	86
2701	24	MAY	86	2757	19	JUL	86	2813	13	SEP	86
2702	25	MAY	86	2758	20	JUL	86	2814	14	SEP	86
2703	26	MAY	86	2759	21	JUL	86	2815	15	SEP	86
2704	27	MAY	86	2760	22	JUL	86	2816	16	SEP	86
2705	28	MAY	86	2761	23	JUL	86	2817	17	SEP	86
2706	29	MAY	86	2762	24	JUL	86	2818	18	SEP	86
2707	30	MAY	86	2763	25	JUL	86	2819	19	SEP	86
2708	31	MAY	86	2764	26	JUL	86	2820	20	SEP	86
2709	1	JUN	86	2765	27	JUL	86	2821	21	SEP	86
2710	2	JUN	86	2766	28	JUL	86	2822	22	SEP	86
2711	3	JUN	86	2767	29	JUL	86	2823	23	SEP	86
2712	4	JUN	86	2768	30	JUL	86	2824	24	SEP	86
2713	5	JUN	86	2769	31	JUL	86	2825	25	SEP	86
2714	6	JUN	86	2770	1	AUG	86	2826	26	SEP	86
2715	7	JUN	86	2771	2	AUG	86	2827	27	SEP	86
2716	8	JUN	86	2772	3	AUG	86	2828	28	SEP	86
2717	9	JUN	86	2773	4	AUG	86	2829	29	SEP	86
2718	10	JUN	86	2774	5	AUG	86	2830	30	SEP	86
2719	11	JUN	86	2775	6	AUG	86	2831	1	OCT	86
2720	12	JUN	86	2776	7	AUG	86	2832	2	OCT	86
2721	13	JUN	86	2777	8	AUG	86	2833	3	OCT	86
2722	14	JUN	86	2778	9	AUG	86	2834	4	OCT	86
2723	15	JUN	86	2779	10	AUG	86	2835	5	OCT	86
2724	16	JUN	86	2780	11	AUG	86	2836	6	OCT	86
2725	17	JUN	86	2781	12	AUG	86	2837	7	OCT	86
2726	18	JUN	86	2782	13	AUG	86	2838	8	OCT	86
2727	19	JUN	86	2783	14	AUG	86	2839	9	OCT	86
2728	20	JUN	86	2784	15	AUG	86	2840	10	OCT	86
2729	21	JUN	86	2785	16	AUG	86	2841	11	OCT	86
2730	22	JUN	86	2786	17	AUG	86	2842	12	OCT	86
2731	23	JUN	86	2787	18	AUG	86	2843	13	OCT	86
2732	24	JUN	86	2788	19	AUG	86	2844	14	OCT	86
2733	25	JUN	86	2789	20	AUG	86	2845	15	OCT	86
2734	26	JUN	86	2790	21	AUG	86	2846	16	OCT	86
2735	27	JUN	86	2791	22	AUG	86	2847	17	OCT	86

Table 2. Julian Day Conversion (Cont.)

2848	18	OCT	86	2904	13	DEC	86	2960	7	FEB	87
2849	19	OCT	86	2905	14	DEC	86	2961	8	FEB	87
2850	20	OCT	86	2906	15	DEC	86	2962	9	FEB	87
2851	21	OCT	86	2907	16	DEC	86	2963	10	FEB	87
2852	22	OCT	86	2908	17	DEC	86	2964	11	FEB	87
2853	23	OCT	86	2909	18	DEC	86	2965	12	FEB	87
2854	24	OCT	86	2910	19	DEC	86	2966	13	FEB	87
2855	25	OCT	86	2911	20	DEC	86	2967	14	FEB	87
2856	26	OCT	86	2912	21	DEC	86	2968	15	FEB	87
2857	27	OCT	86	2913	22	DEC	86	2969	16	FEB	87
2858	28	OCT	86	2914	23	DEC	86	2970	17	FEB	87
2859	29	OCT	86	2915	24	DEC	86	2971	18	FEB	87
2860	30	OCT	86	2916	25	DEC	86	2972	19	FEB	87
2861	31	OCT	86	2917	26	DEC	86	2973	20	FEB	87
2862	1	NOV	86	2918	27	DEC	86	2974	21	FEB	87
2863	2	NOV	86	2919	28	DEC	86	2975	22	FEB	87
2864	3	NOV	86	2920	29	DEC	86	2976	23	FEB	87
2865	4	NOV	86	2921	30	DEC	86	2977	24	FEB	87
2866	5	NOV	86	2922	31	DEC	86	2978	25	FEB	87
2867	6	NOV	86	2923	1	JAN	87	2979	26	FEB	87
2868	7	NOV	86	2924	2	JAN	87	2980	27	FEB	87
2869	8	NOV	86	2925	3	JAN	87	2981	28	FEB	87
2870	9	NOV	86	2926	4	JAN	87	2982	1	MAR	87
2871	10	NOV	86	2927	5	JAN	87	2983	2	MAR	87
2872	11	NOV	86	2928	6	JAN	87	2984	3	MAR	87
2873	12	NOV	86	2929	7	JAN	87	2985	4	MAR	87
2874	13	NOV	86	2930	8	JAN	87	2986	5	MAR	87
2875	14	NOV	86	2931	9	JAN	87	2987	6	MAR	87
2876	15	NOV	86	2932	10	JAN	87	2988	7	MAR	87
2877	16	NOV	86	2933	11	JAN	87	2989	8	MAR	87
2878	17	NOV	86	2934	12	JAN	87	2990	9	MAR	87
2879	18	NOV	86	2935	13	JAN	87	2991	10	MAR	87
2880	19	NOV	86	2936	14	JAN	87	2992	11	MAR	87
2881	20	NOV	86	2937	15	JAN	87	2993	12	MAR	87
2882	21	NOV	86	2938	16	JAN	87	2994	13	MAR	87
2883	22	NOV	86	2939	17	JAN	87	2995	14	MAR	87
2884	23	NOV	86	2940	18	JAN	87	2996	15	MAR	87
2885	24	NOV	86	2941	19	JAN	87	2997	16	MAR	87
2886	25	NOV	86	2942	20	JAN	87	2998	17	MAR	87
2887	26	NOV	86	2943	21	JAN	87	2999	18	MAR	87
2888	27	NOV	86	2944	22	JAN	87	3000	19	MAR	87
2889	28	NOV	86	2945	23	JAN	87	3001	20	MAR	87
2890	29	NOV	86	2946	24	JAN	87	3002	21	MAR	87
2891	30	NOV	86	2947	25	JAN	87	3003	22	MAR	87
2892	1	DEC	86	2948	26	JAN	87	3004	23	MAR	87
2893	2	DEC	86	2949	27	JAN	87	3005	24	MAR	87
2894	3	DEC	86	2950	28	JAN	87	3006	25	MAR	87
2895	4	DEC	86	2951	29	JAN	87	3007	26	MAR	87
2896	5	DEC	86	2952	30	JAN	87	3008	27	MAR	87
2897	6	DEC	86	2953	31	JAN	87	3009	28	MAR	87
2898	7	DEC	86	2954	1	FEB	87	3010	29	MAR	87
2899	8	DEC	86	2955	2	FEB	87	3011	30	MAR	87
2900	9	DEC	86	2956	3	FEB	87	3012	31	MAR	87
2901	10	DEC	86	2957	4	FEB	87	3013	1	APR	87
2902	11	DEC	86	2958	5	FEB	87	3014	2	APR	87
2903	12	DEC	86	2959	6	FEB	87	3015	3	APR	87

Table 2. Julian Day Conversion (Cont.)

3016	4	APR	87	3072	30	MAY	87	3128	25	JUL	87
3017	5	APR	87	3073	31	MAY	87	3129	26	JUL	87
3018	6	APR	87	3074	1	JUN	87	3130	27	JUL	87
3019	7	APR	87	3075	2	JUN	87	3131	28	JUL	87
3020	8	APR	87	3076	3	JUN	87	3132	29	JUL	87
3021	9	APR	87	3077	4	JUN	87	3133	30	JUL	87
3022	10	APR	87	3078	5	JUN	87	3134	31	JUL	87
3023	11	APR	87	3079	6	JUN	87	3135	1	AUG	87
3024	12	APR	87	3080	7	JUN	87	3136	2	AUG	87
3025	13	APR	87	3081	8	JUN	87	3137	3	AUG	87
3026	14	APR	87	3082	9	JUN	87	3138	4	AUG	87
3027	15	APR	87	3083	10	JUN	87	3139	5	AUG	87
3028	16	APR	87	3084	11	JUN	87	3140	6	AUG	87
3029	17	APR	87	3085	12	JUN	87	3141	7	AUG	87
3030	18	APR	87	3086	13	JUN	87	3142	8	AUG	87
3031	19	APR	87	3087	14	JUN	87	3143	9	AUG	87
3032	20	APR	87	3088	15	JUN	87	3144	10	AUG	87
3033	21	APR	87	3089	16	JUN	87	3145	11	AUG	87
3034	22	APR	87	3090	17	JUN	87	3146	12	AUG	87
3035	23	APR	87	3091	18	JUN	87	3147	13	AUG	87
3036	24	APR	87	3092	19	JUN	87	3148	14	AUG	87
3037	25	APR	87	3093	20	JUN	87	3149	15	AUG	87
3038	26	APR	87	3094	21	JUN	87	3150	16	AUG	87
3039	27	APR	87	3095	22	JUN	87	3151	17	AUG	87
3040	28	APR	87	3096	23	JUN	87	3152	18	AUG	87
3041	29	APR	87	3097	24	JUN	87	3153	19	AUG	87
3042	30	APR	87	3098	25	JUN	87	3154	20	AUG	87
3043	1	MAY	87	3099	26	JUN	87	3155	21	AUG	87
3044	2	MAY	87	3100	27	JUN	87	3156	22	AUG	87
3045	3	MAY	87	3101	28	JUN	87	3157	23	AUG	87
3046	4	MAY	87	3102	29	JUN	87	3158	24	AUG	87
3047	5	MAY	87	3103	30	JUN	87	3159	25	AUG	87
3048	6	MAY	87	3104	1	JUL	87	3160	26	AUG	87
3049	7	MAY	87	3105	2	JUL	87	3161	27	AUG	87
3050	8	MAY	87	3106	3	JUL	87	3162	28	AUG	87
3051	9	MAY	87	3107	4	JUL	87	3163	29	AUG	87
3052	10	MAY	87	3108	5	JUL	87	3164	30	AUG	87
3053	11	MAY	87	3109	6	JUL	87	3165	31	AUG	87
3054	12	MAY	87	3110	7	JUL	87	3166	1	SEP	87
3055	13	MAY	87	3111	8	JUL	87	3167	2	SEP	87
3056	14	MAY	87	3112	9	JUL	87	3168	3	SEP	87
3057	15	MAY	87	3113	10	JUL	87	3169	4	SEP	87
3058	16	MAY	87	3114	11	JUL	87	3170	5	SEP	87
3059	17	MAY	87	3115	12	JUL	87	3171	6	SEP	87
3060	18	MAY	87	3116	13	JUL	87	3172	7	SEP	87
3061	19	MAY	87	3117	14	JUL	87	3173	8	SEP	87
3062	20	MAY	87	3118	15	JUL	87	3174	9	SEP	87
3063	21	MAY	87	3119	16	JUL	87	3175	10	SEP	87
3064	22	MAY	87	3120	17	JUL	87	3176	11	SEP	87
3065	23	MAY	87	3121	18	JUL	87	3177	12	SEP	87
3066	24	MAY	87	3122	19	JUL	87	3178	13	SEP	87
3067	25	MAY	87	3123	20	JUL	87	3179	14	SEP	87
3068	26	MAY	87	3124	21	JUL	87	3180	15	SEP	87
3069	27	MAY	87	3125	22	JUL	87	3181	16	SEP	87
3070	28	MAY	87	3126	23	JUL	87	3182	17	SEP	87
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DRIFT BUOY LIFETIMES

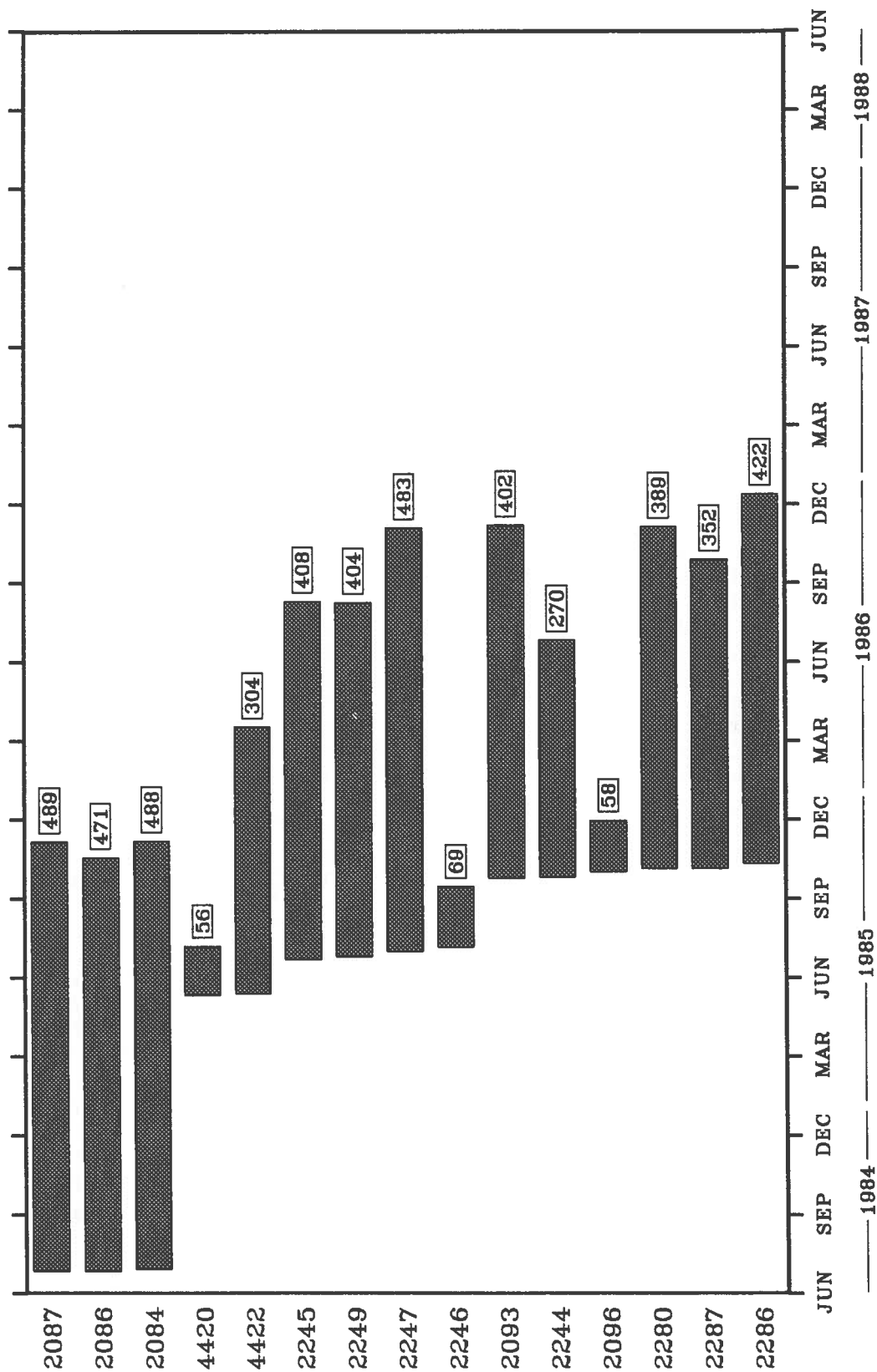


Figure 1. Time span of data from drifting buoys included in this report.

DRIFT BUOY LIFETIMES

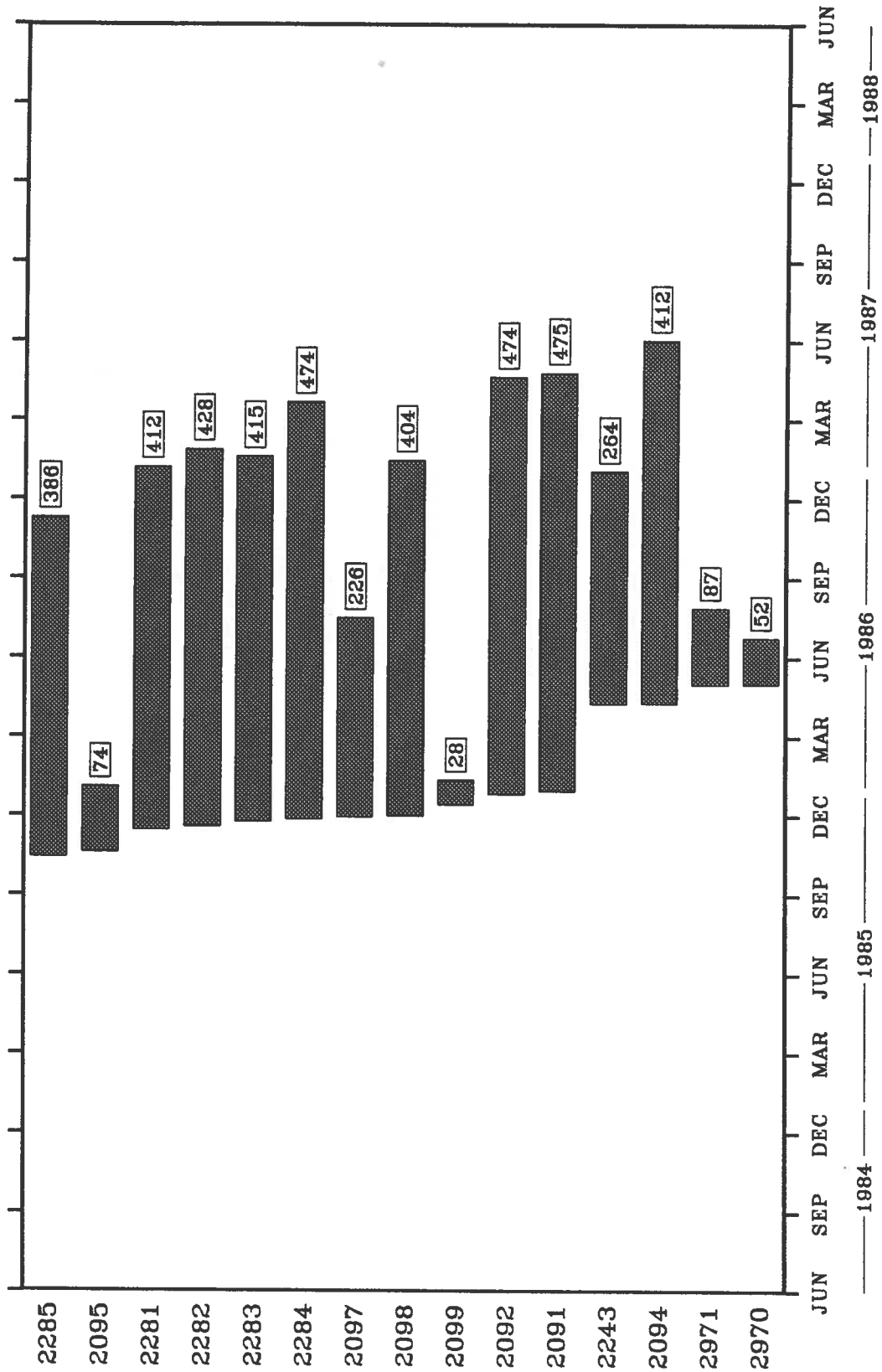


Figure 2. Time span of data from drifting buoys included in this report.

DRIFT BUOY LIFETIMES

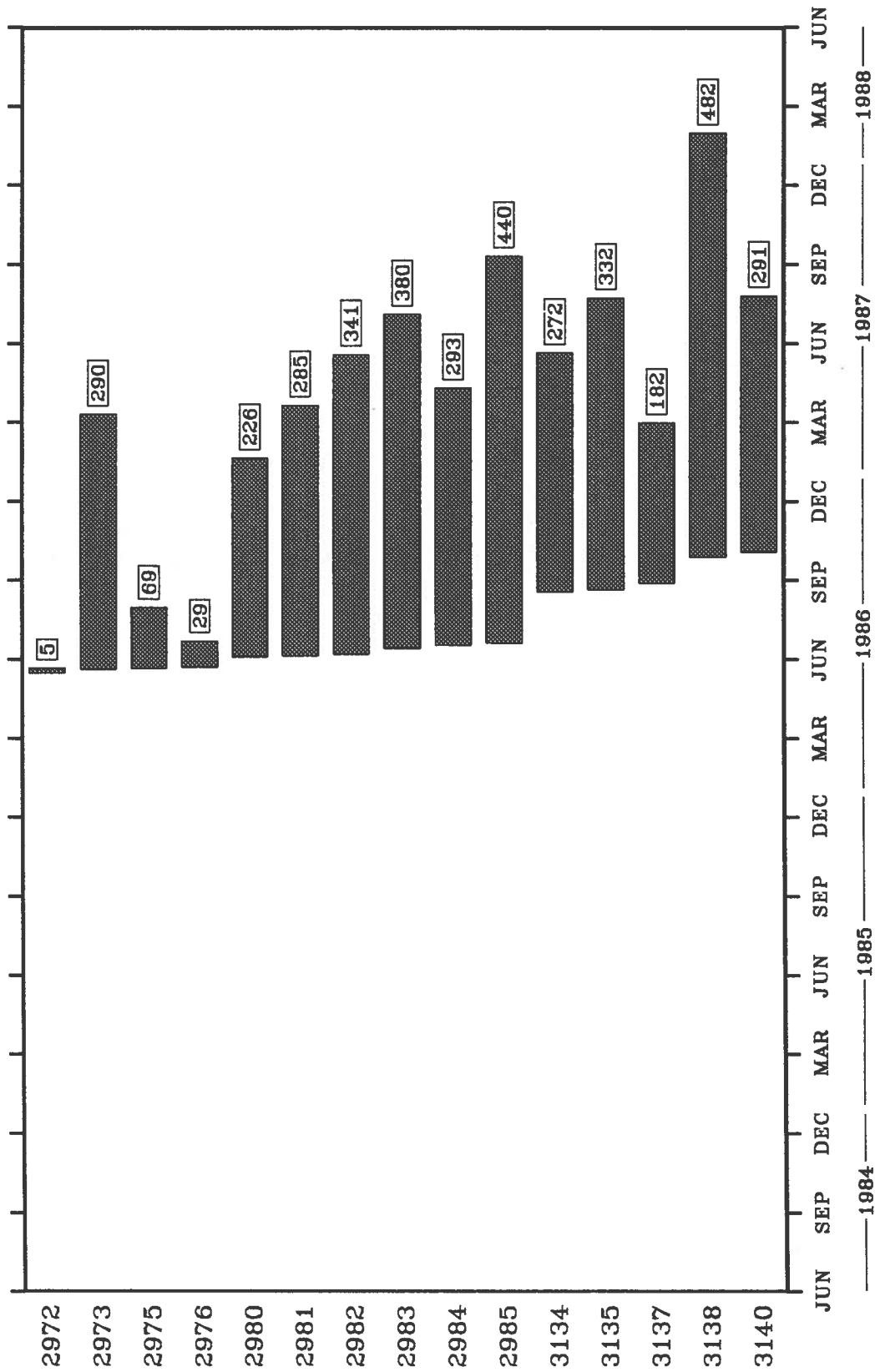


Figure 3. Time span of data from drifting buoys included in this report.

DRIFT BUOY LIFETIMES

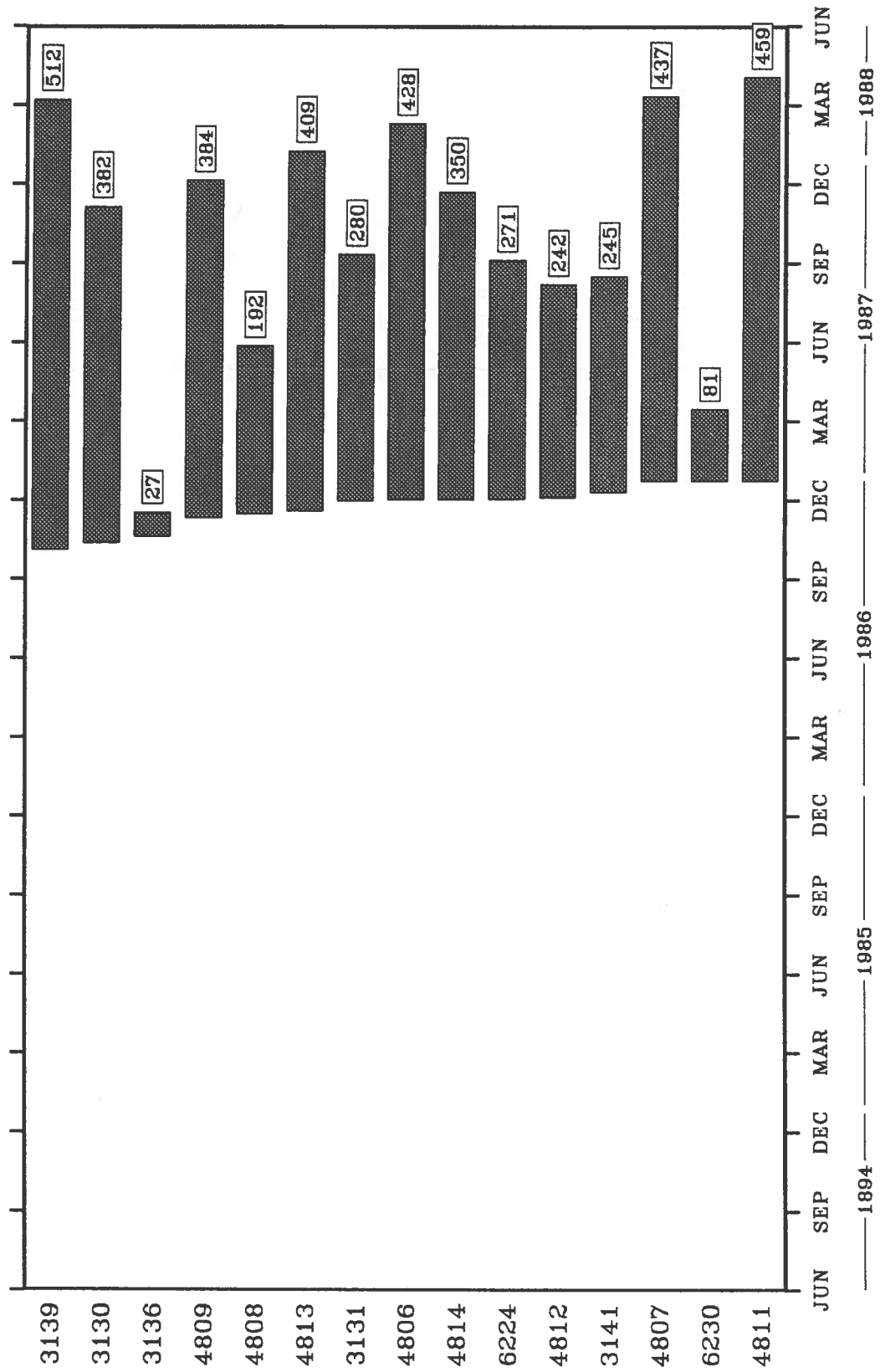
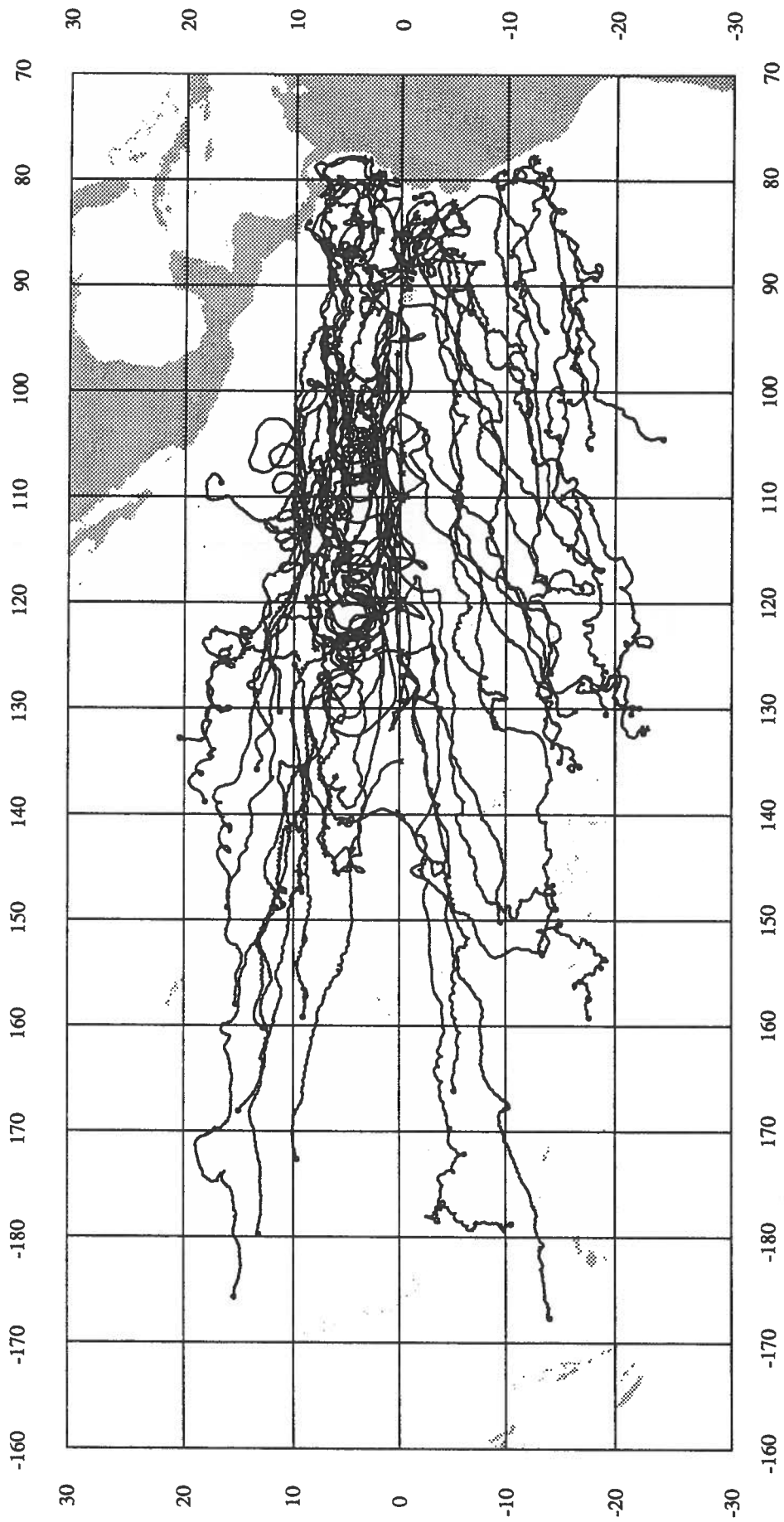
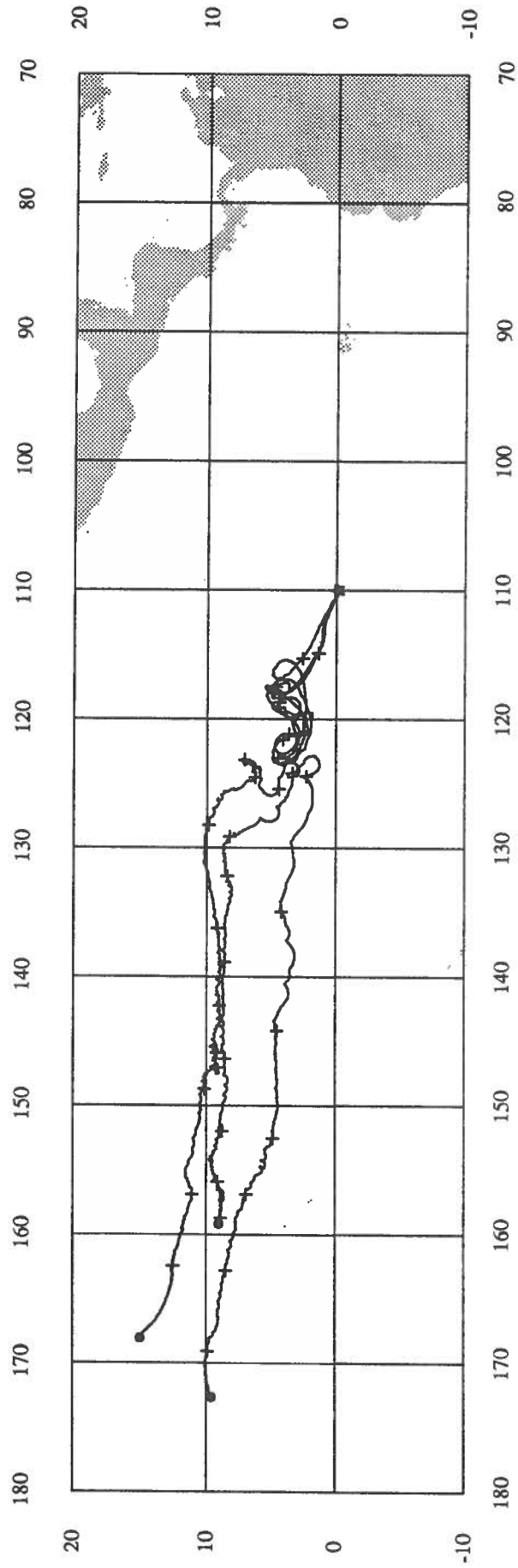


Figure 4. Time span of data from drifting buoys included in this report.

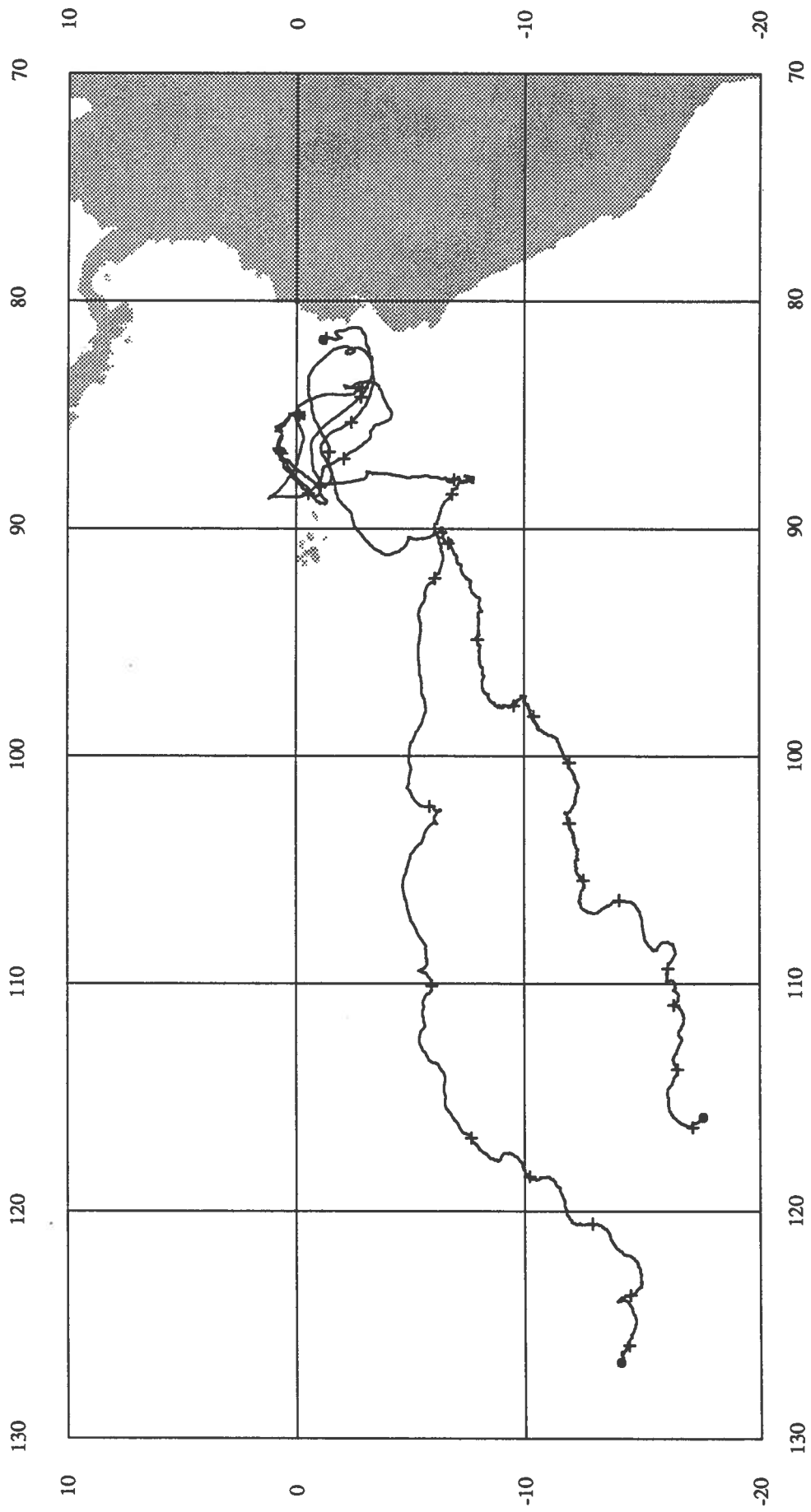
Composite plot of all trajectories from June 1, 1985 thru June 30, 1987

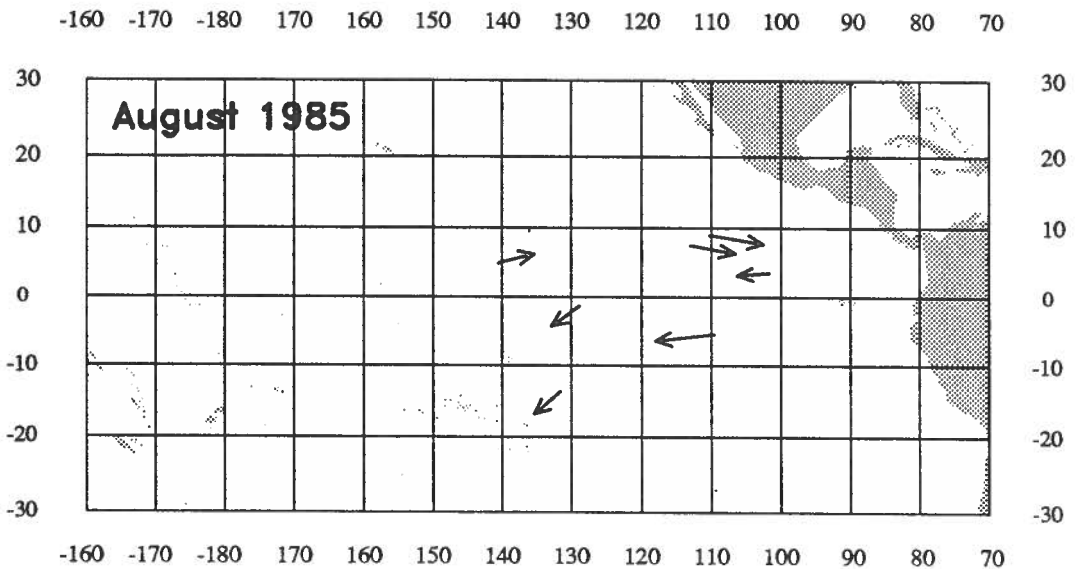
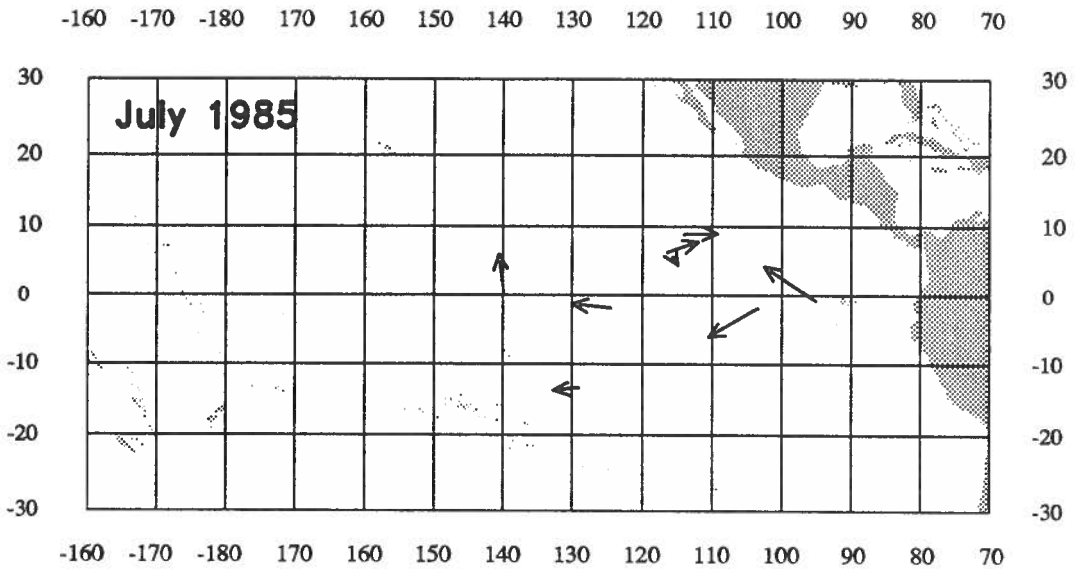
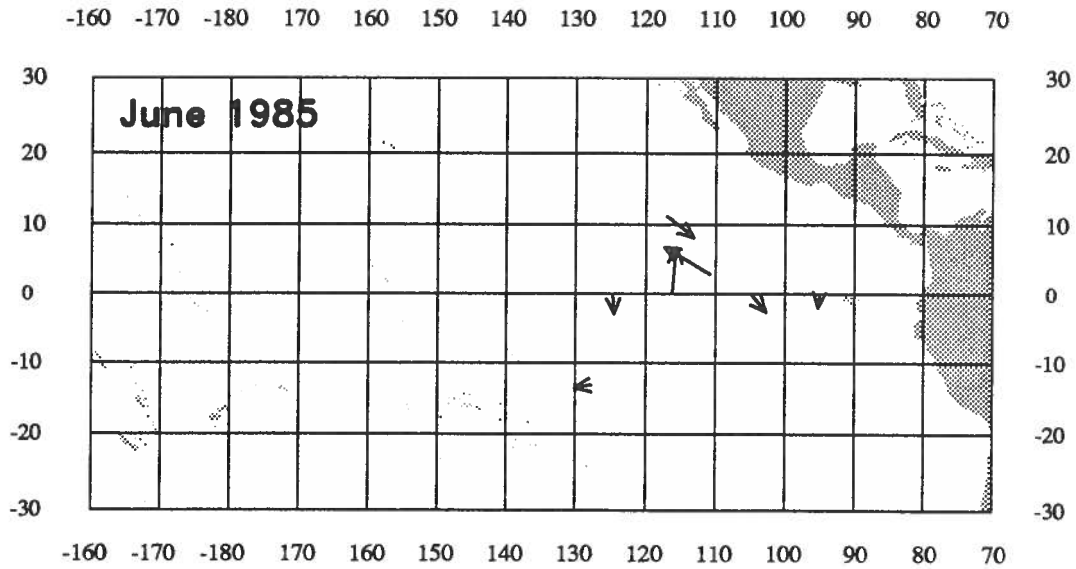


BUOYS 4806, 4814 AND 6224

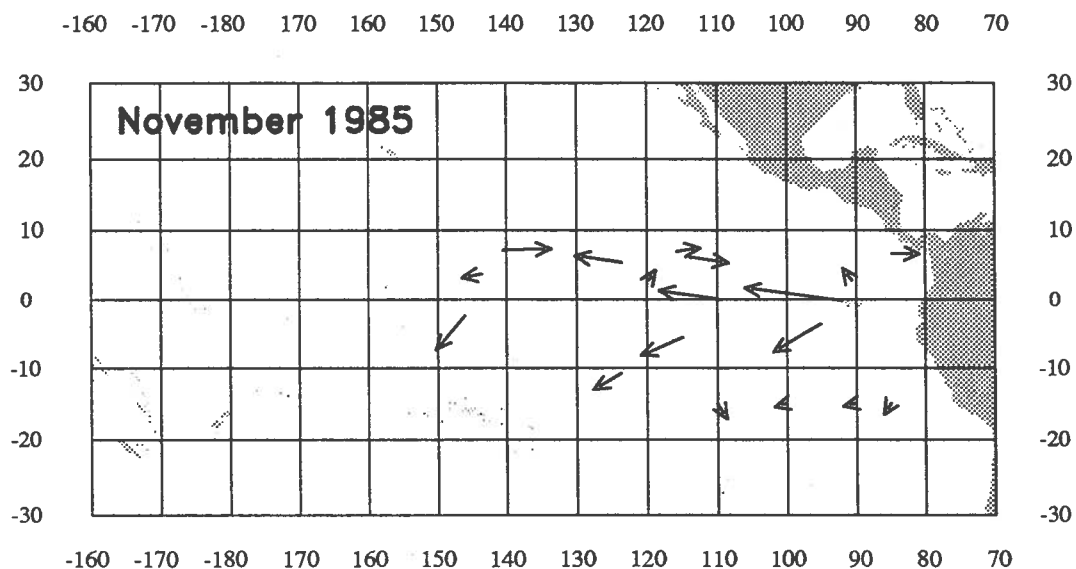
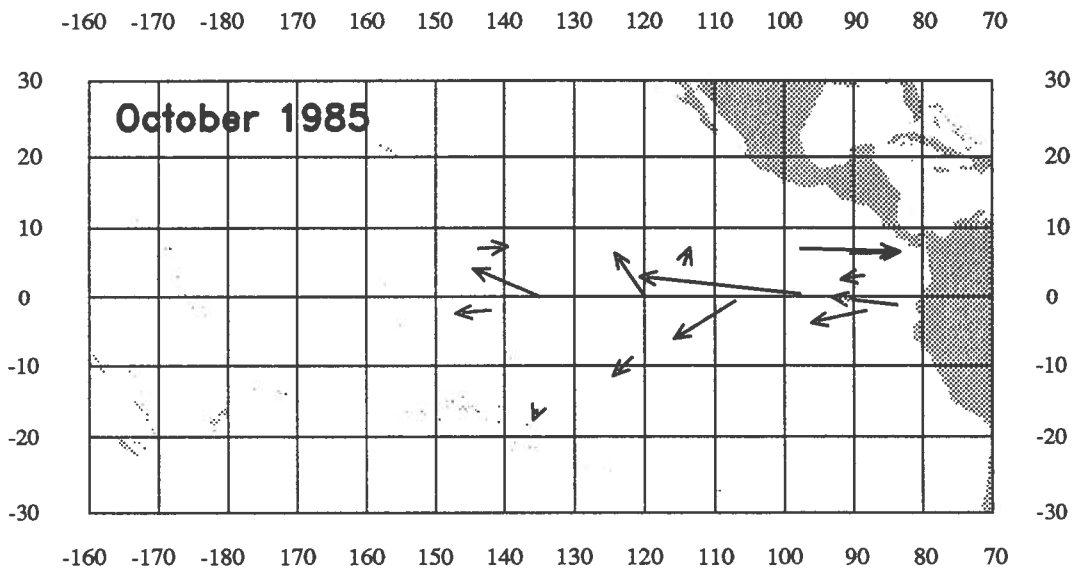
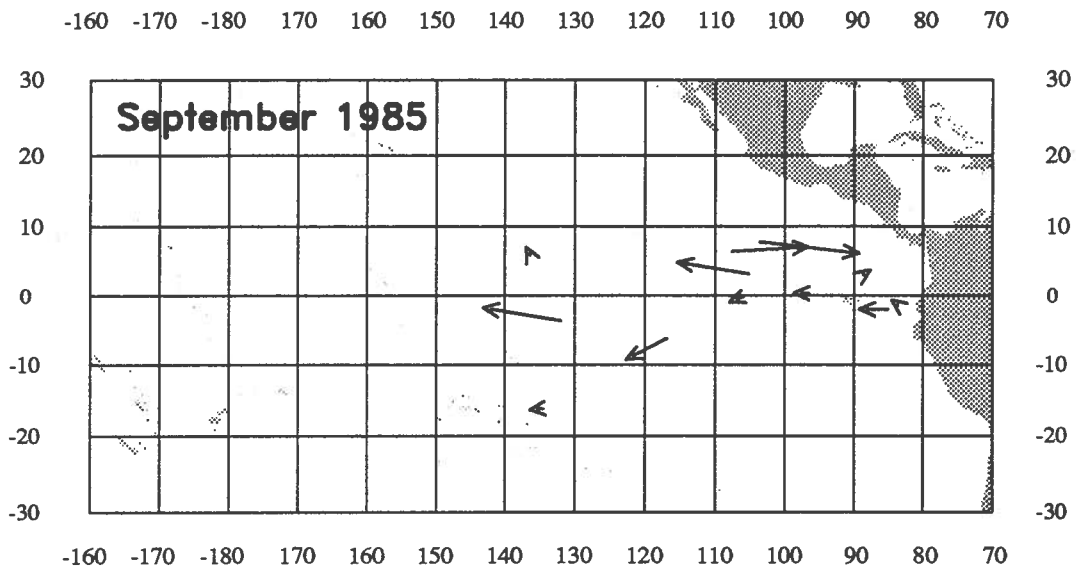


BUOYS 4807, 4811 AND 6230

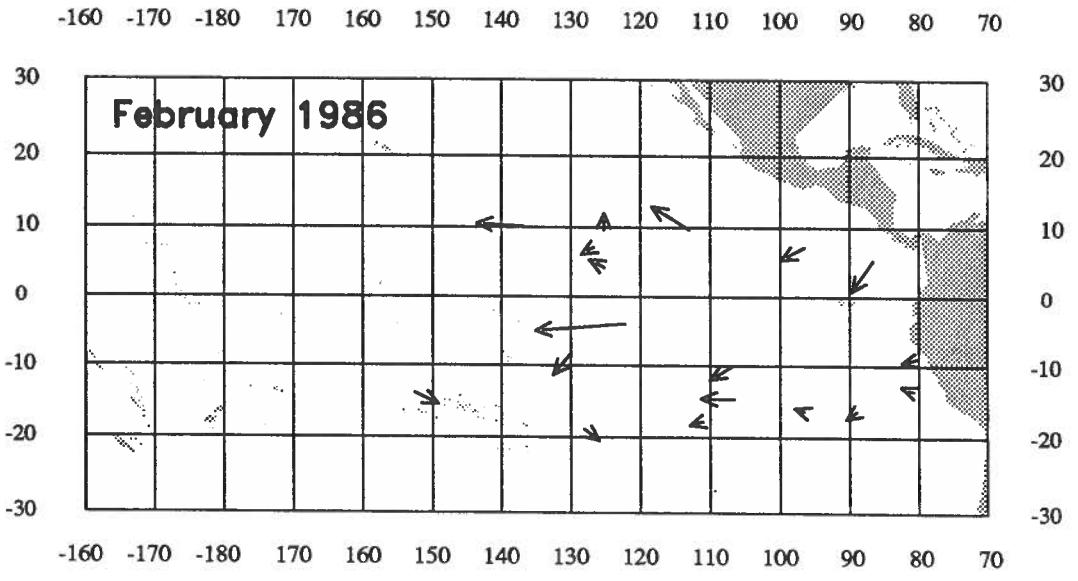
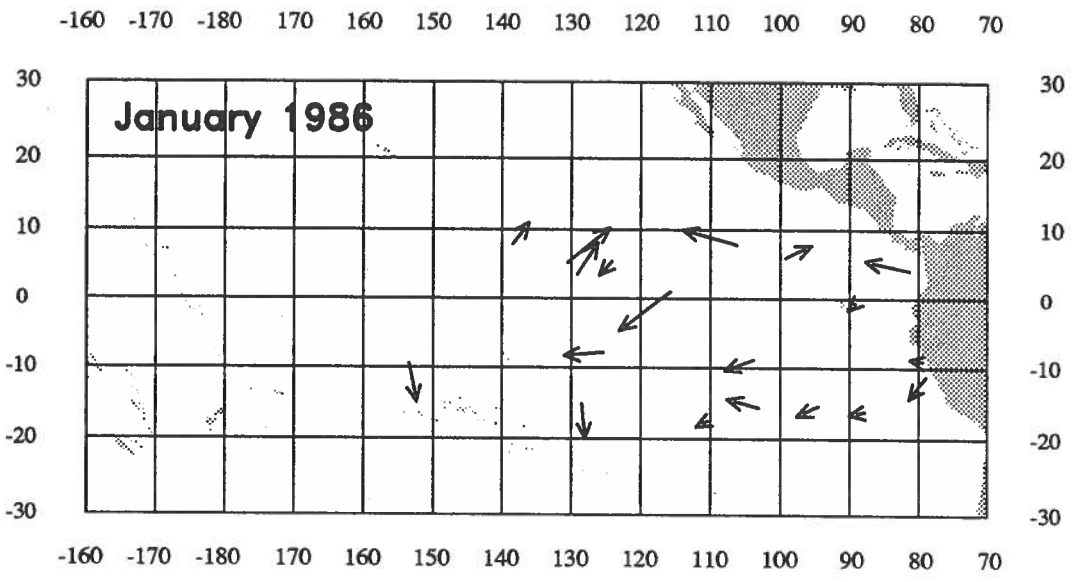
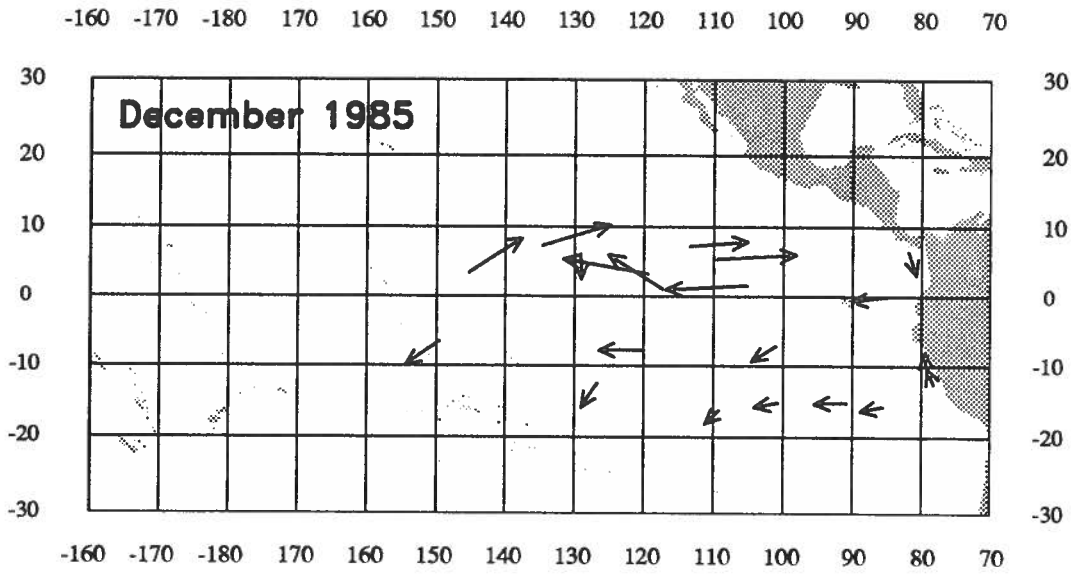




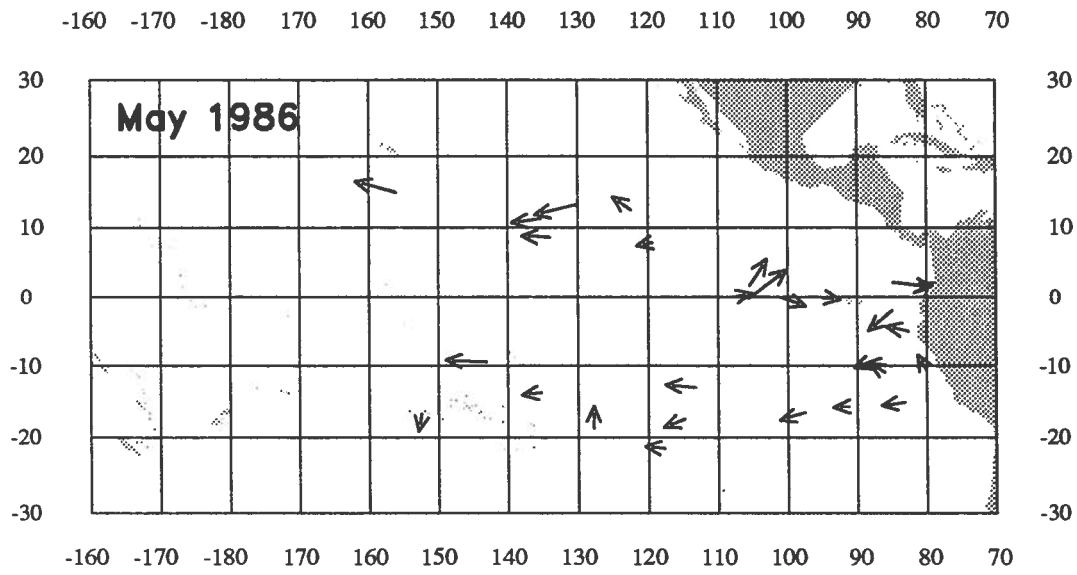
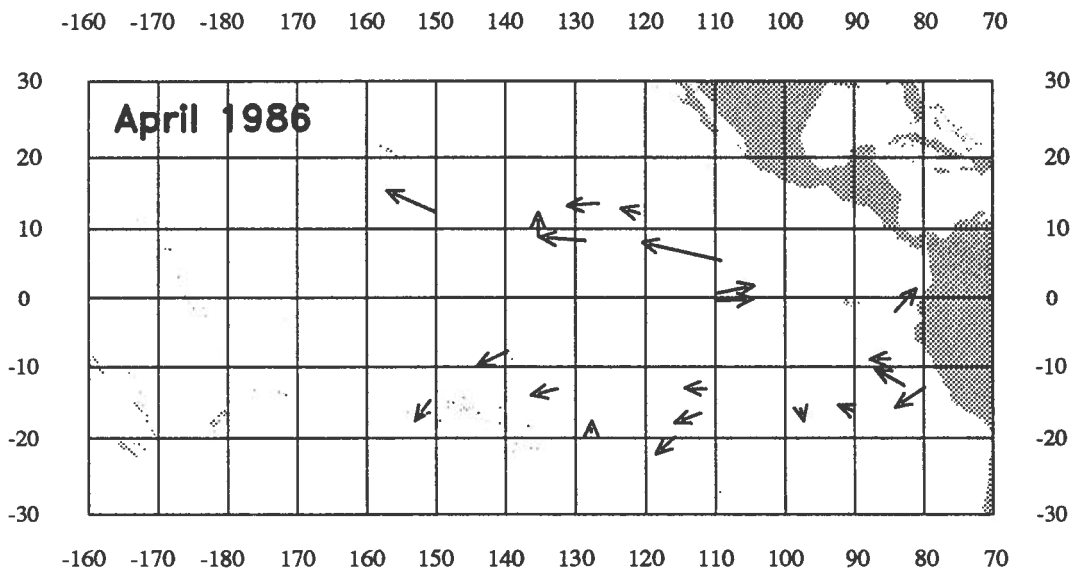
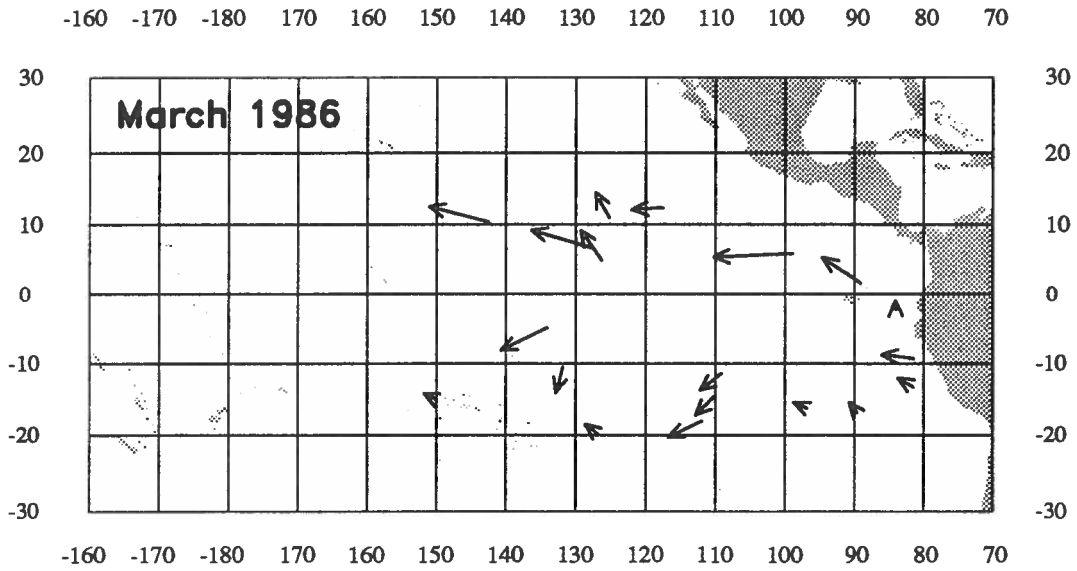
MONTHLY DISPLACEMENT OF BUOYS



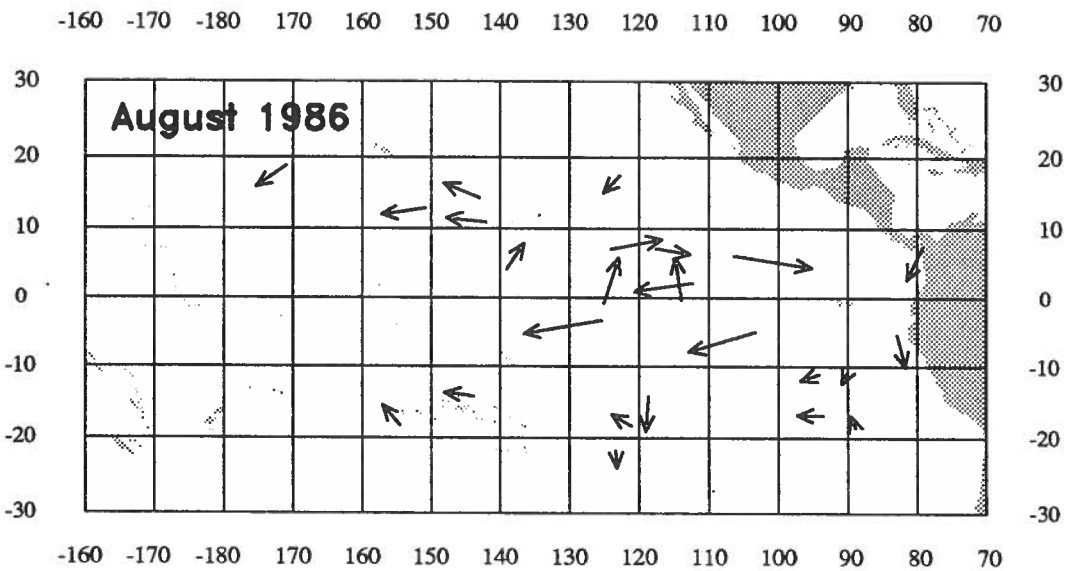
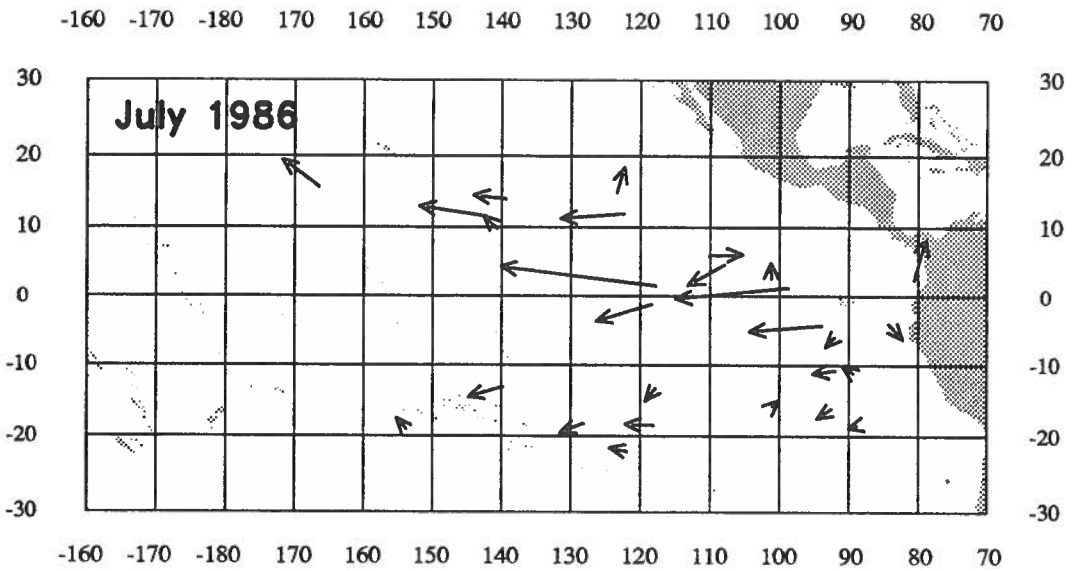
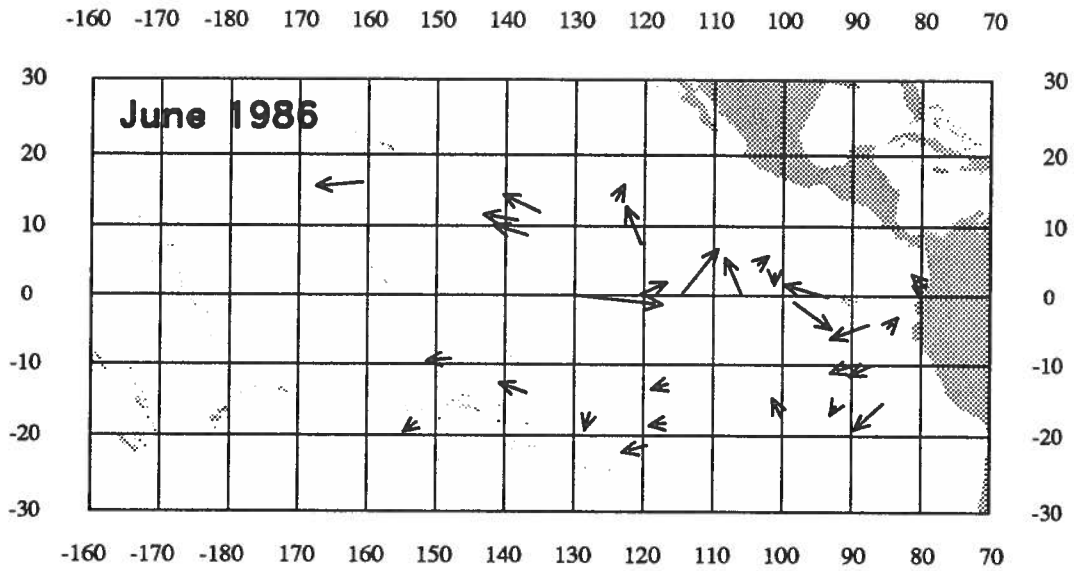
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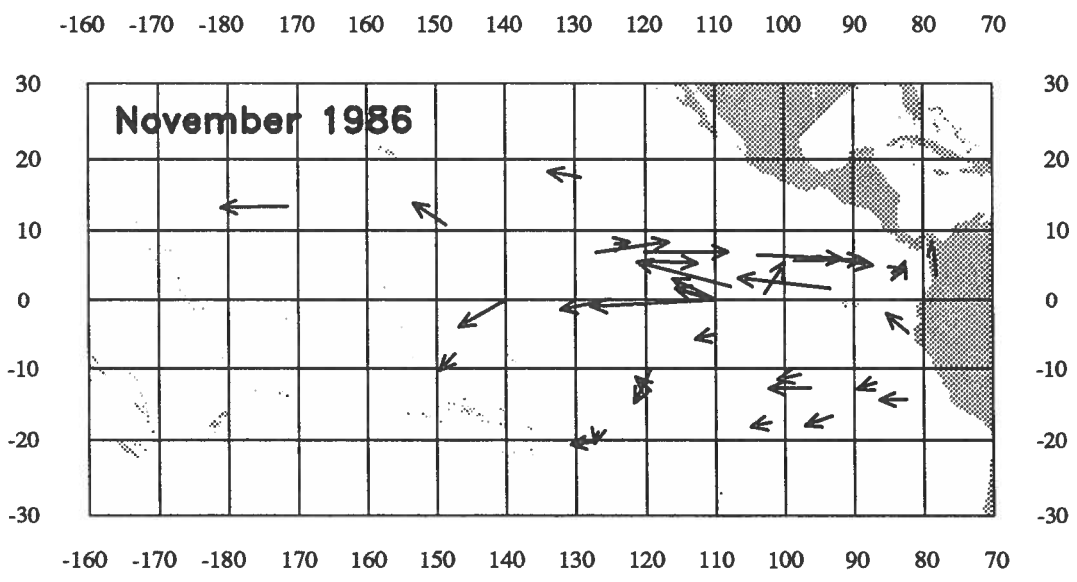
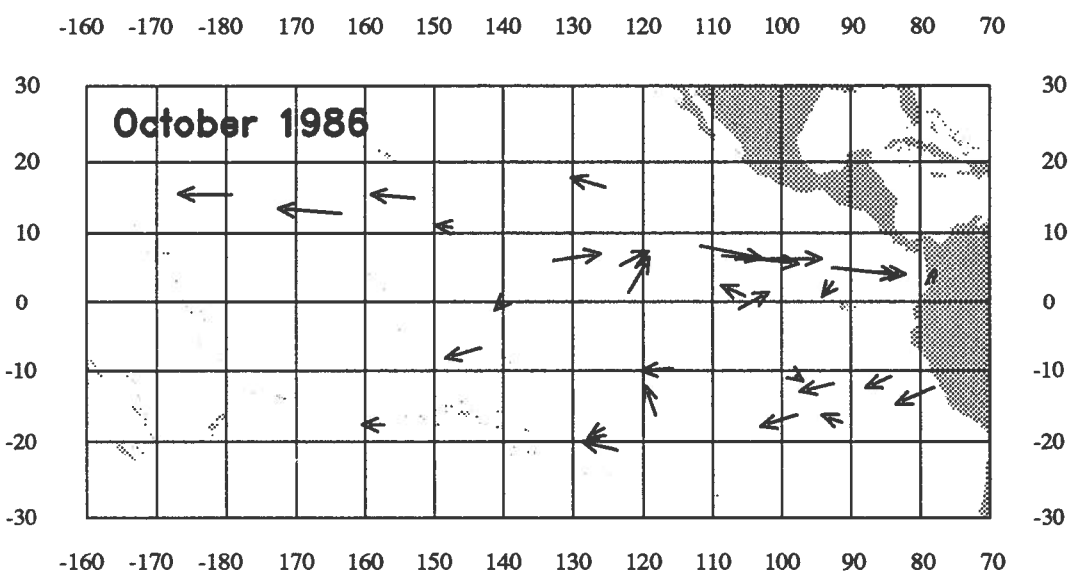
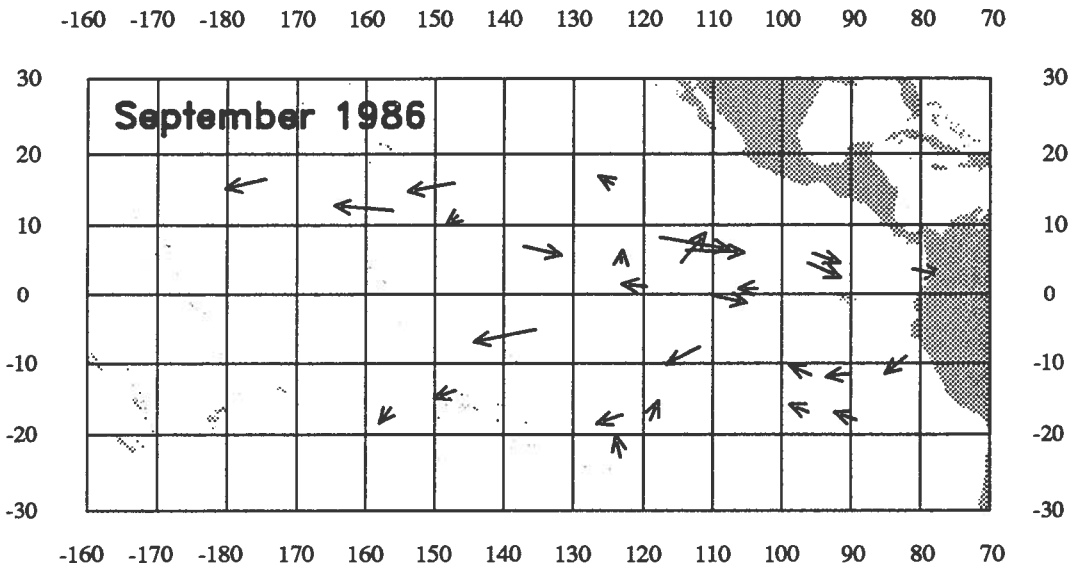
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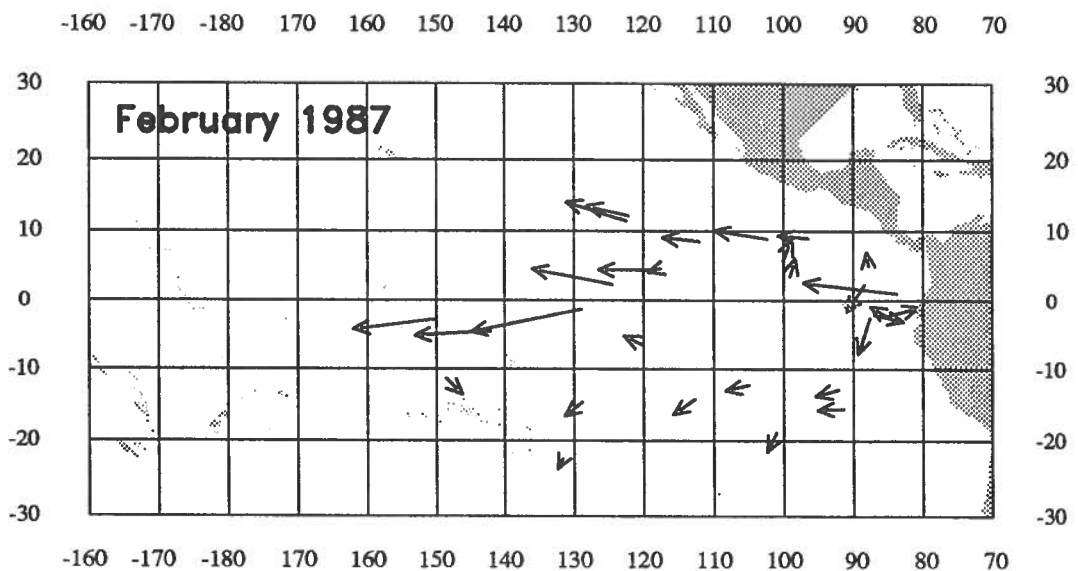
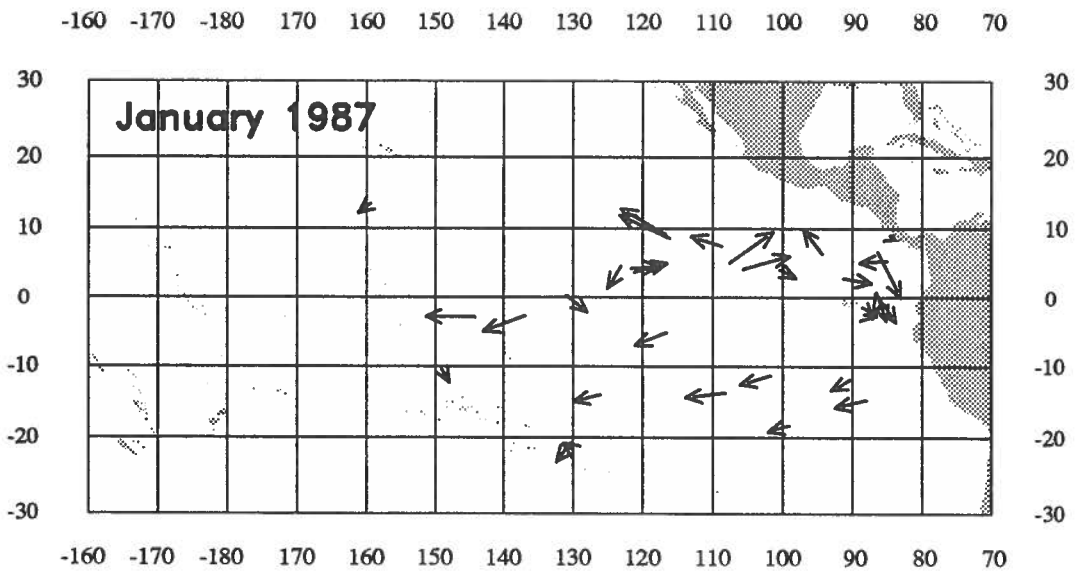
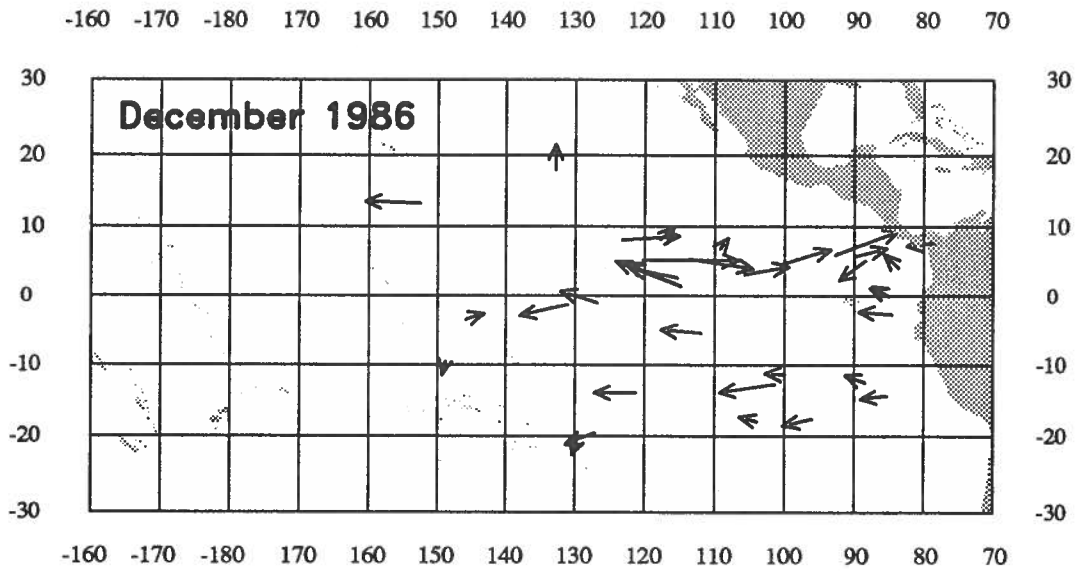
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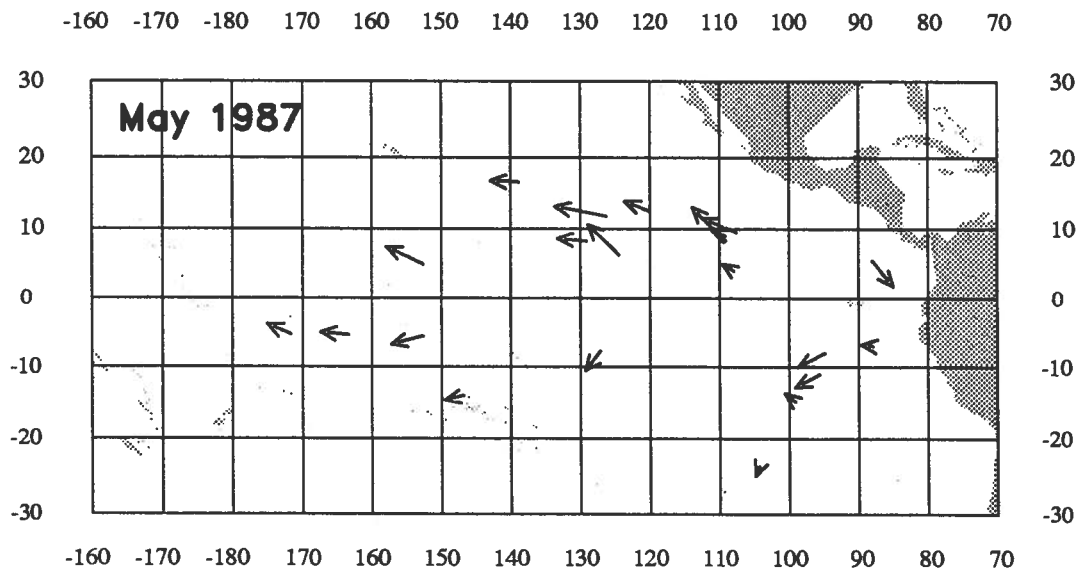
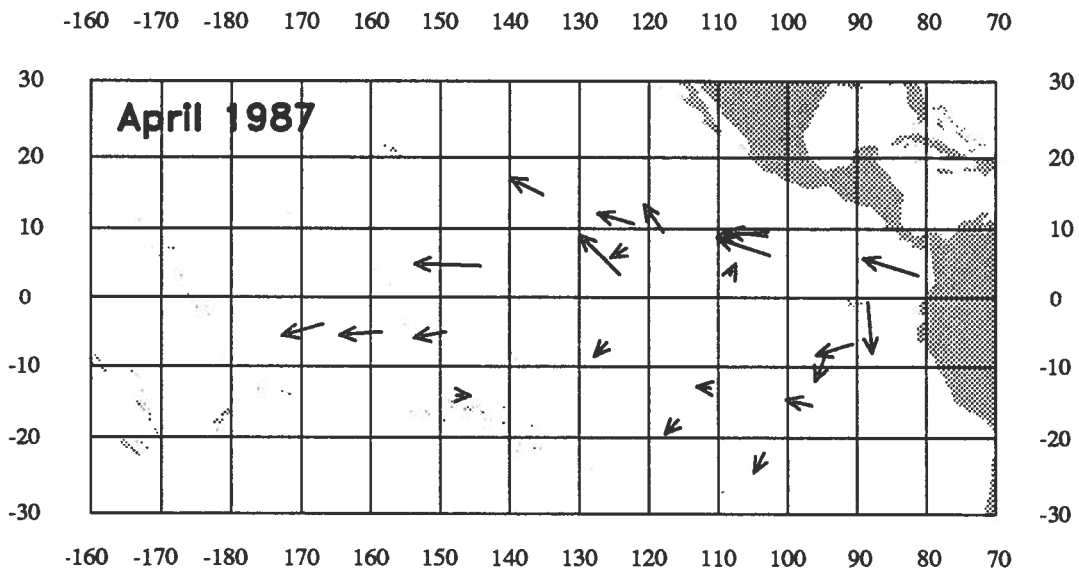
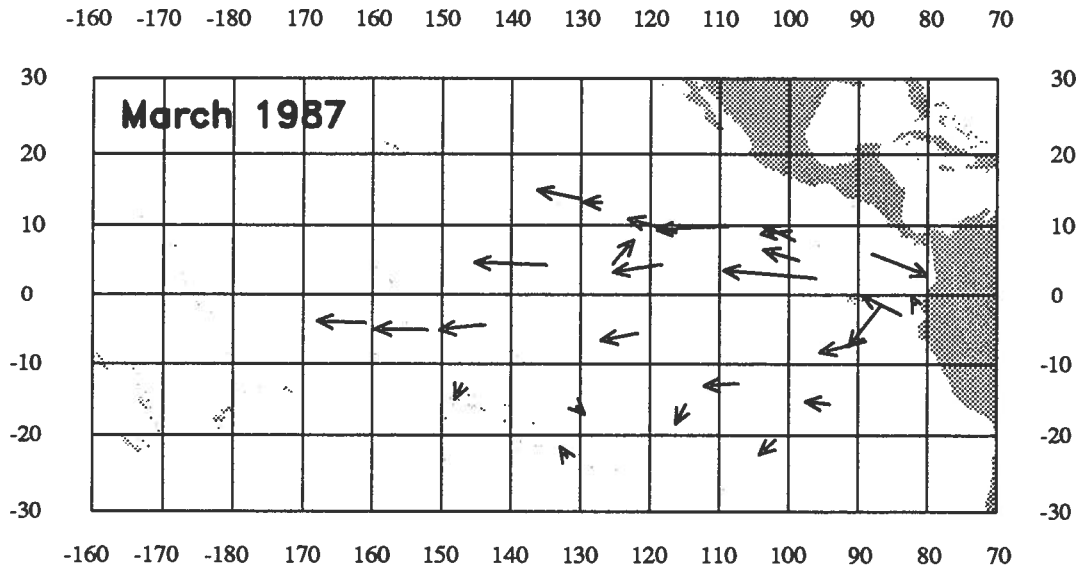
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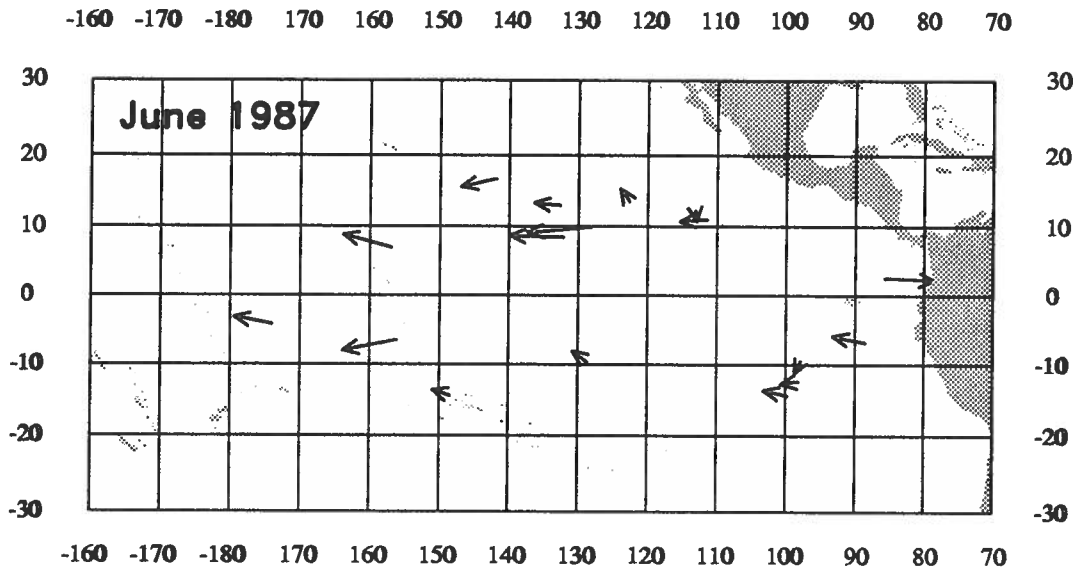
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MONTHLY DISPLACEMENT OF BUOYS

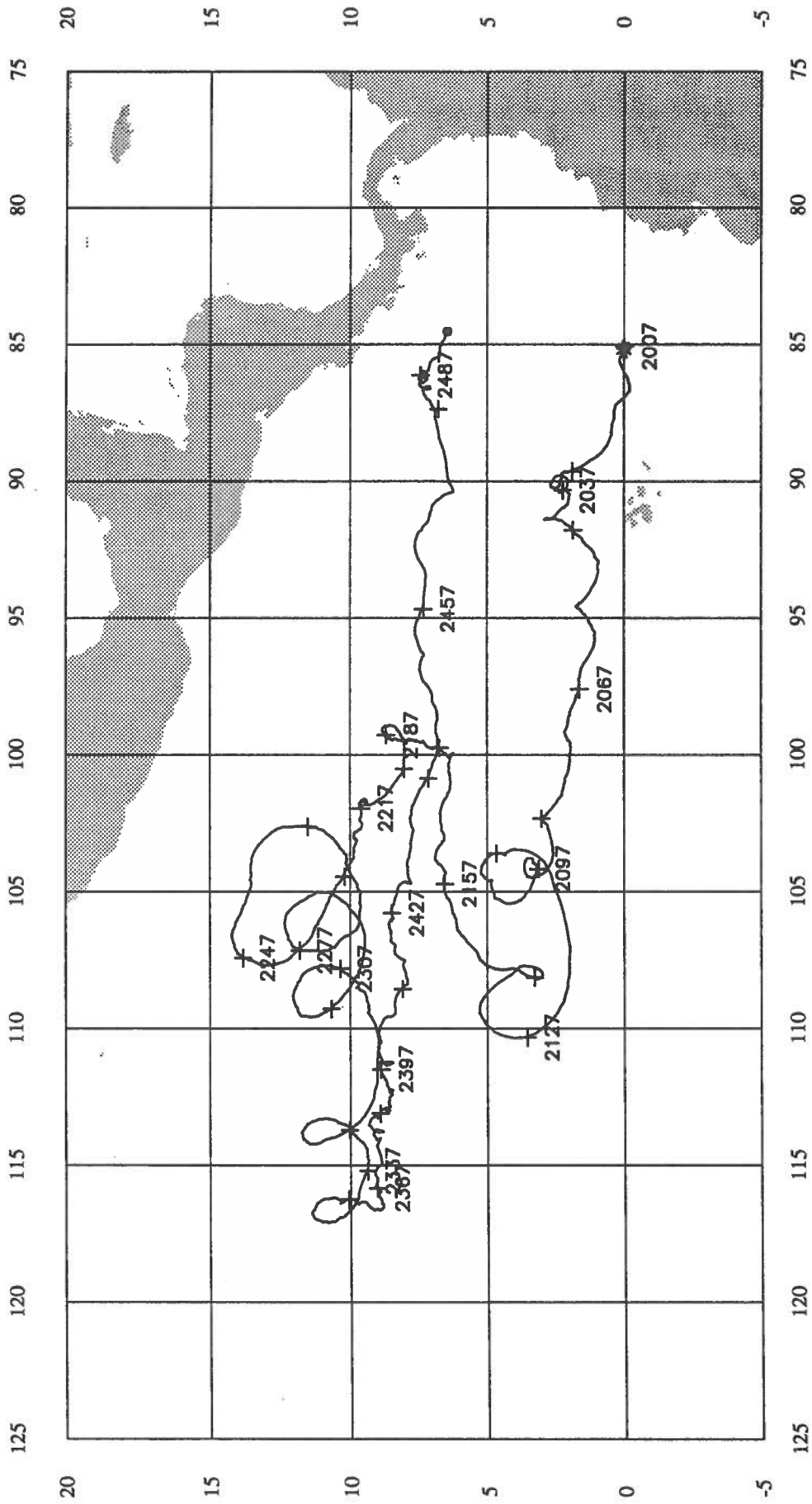


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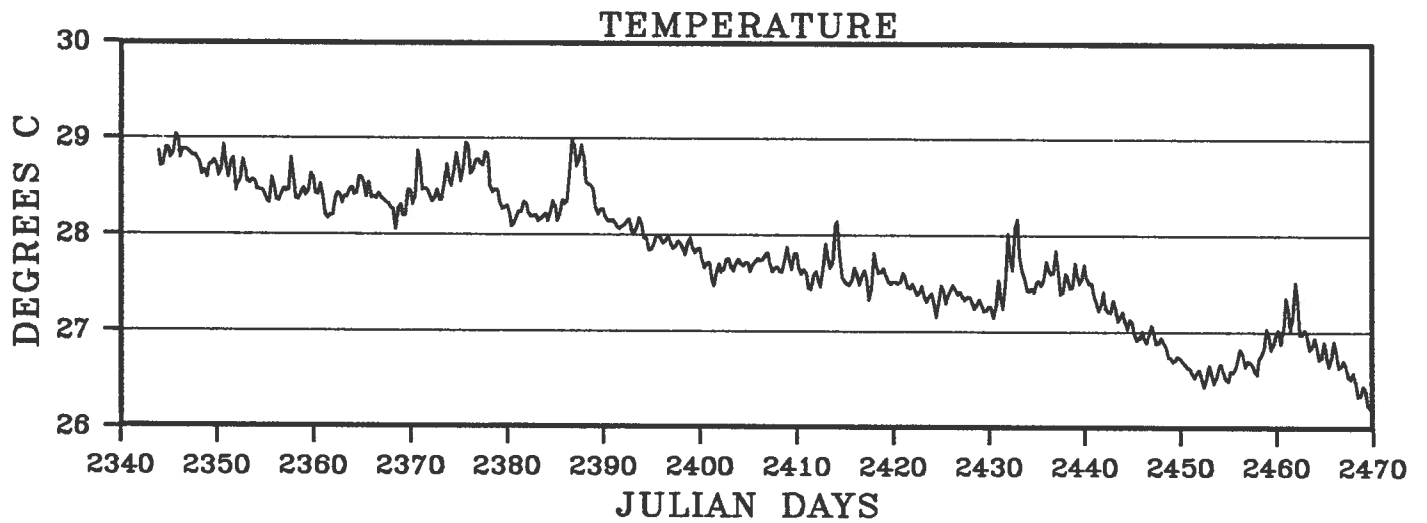
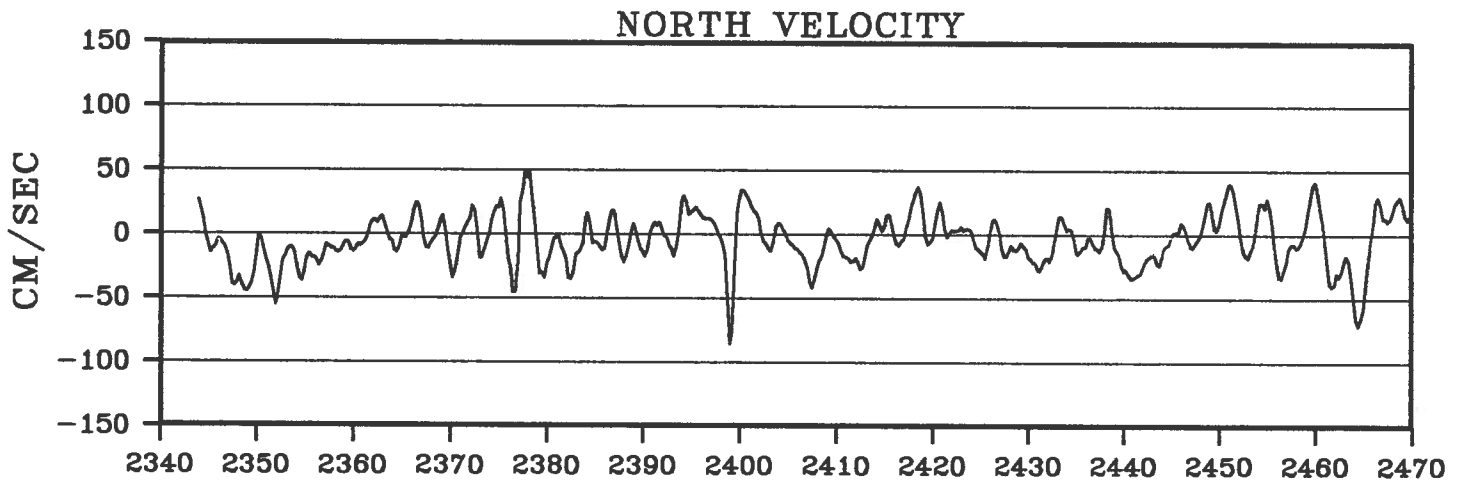
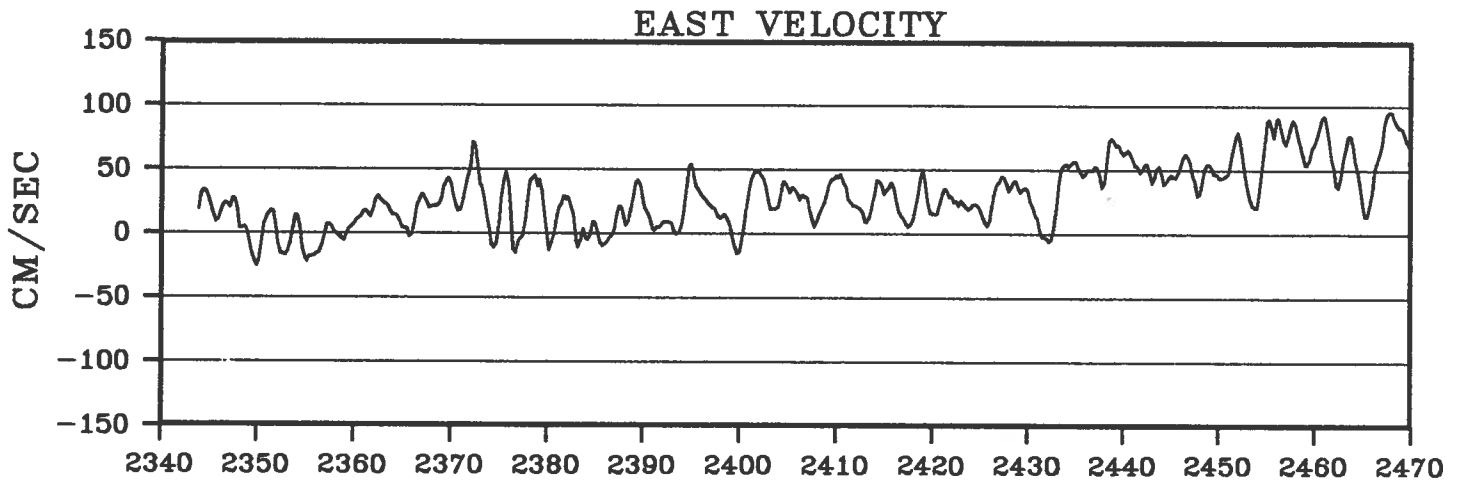


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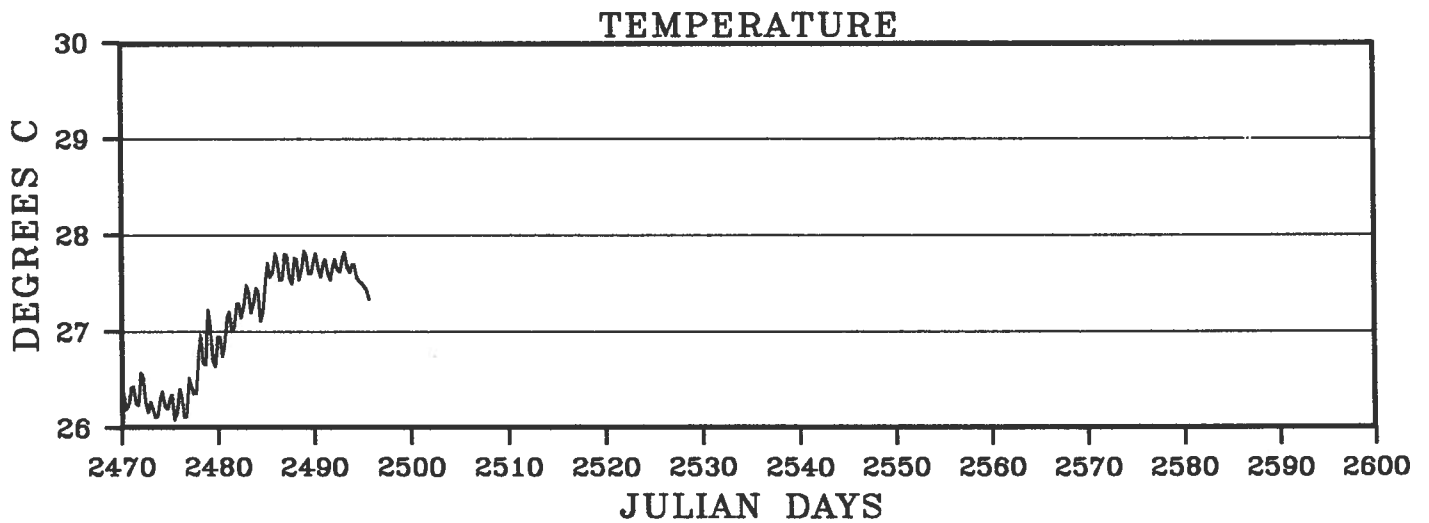
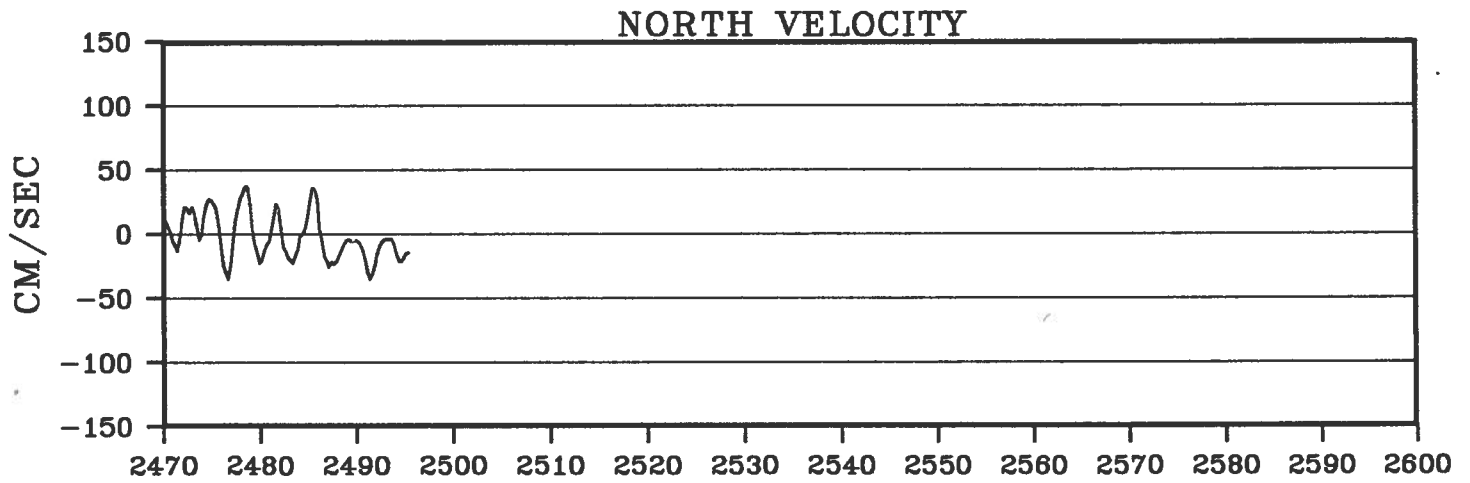
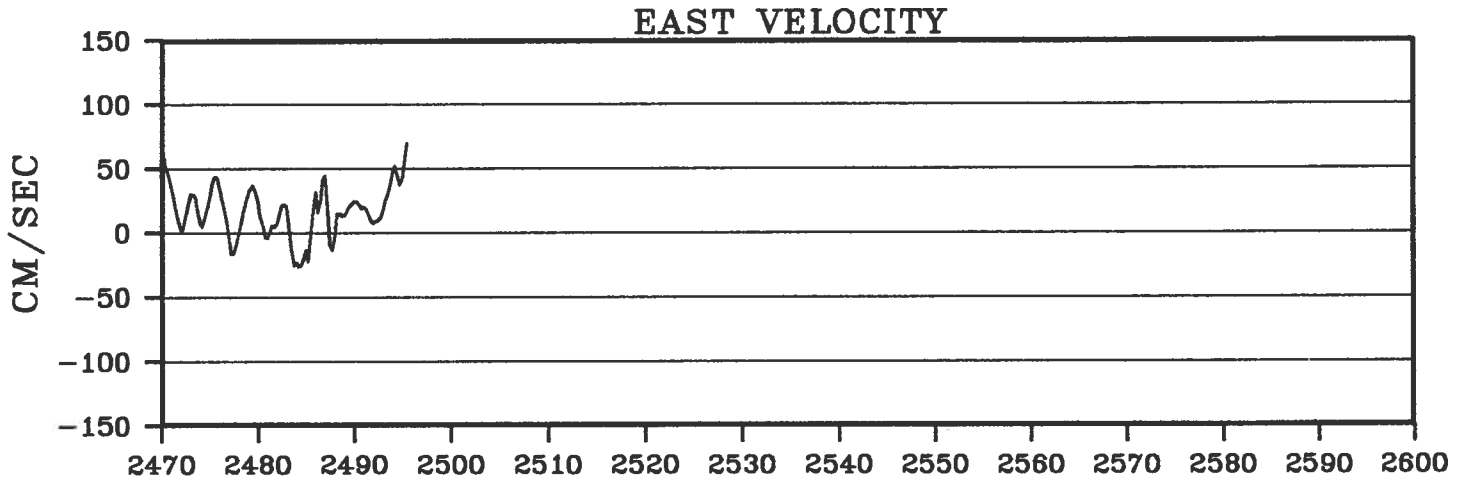
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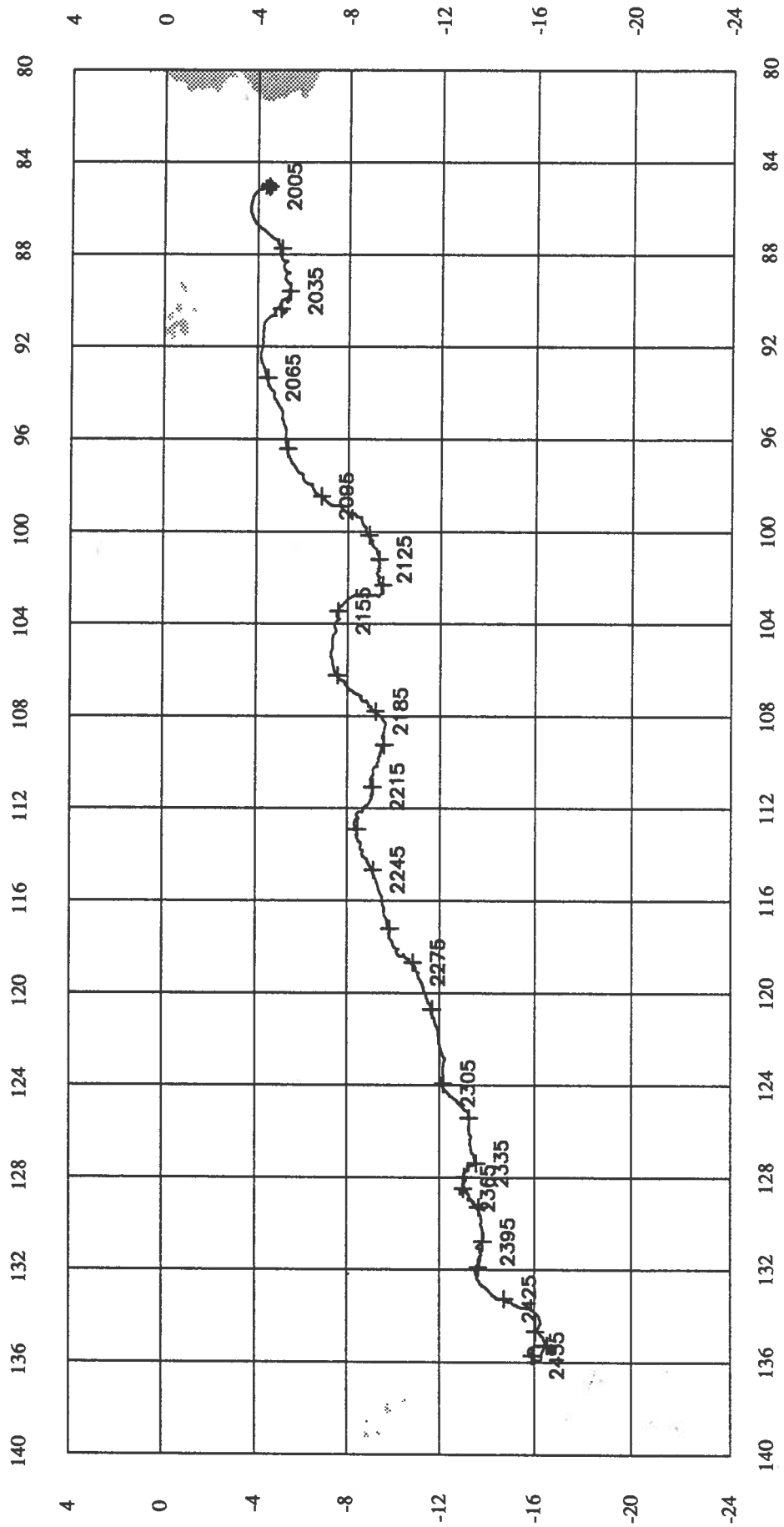
BUOY 2084



BUOY 2084

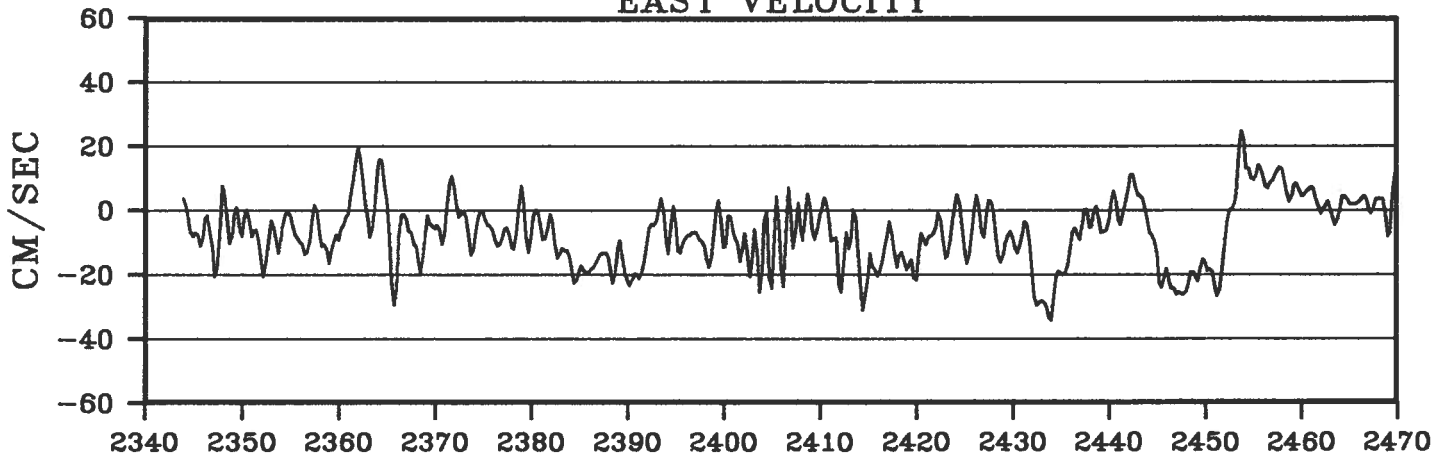


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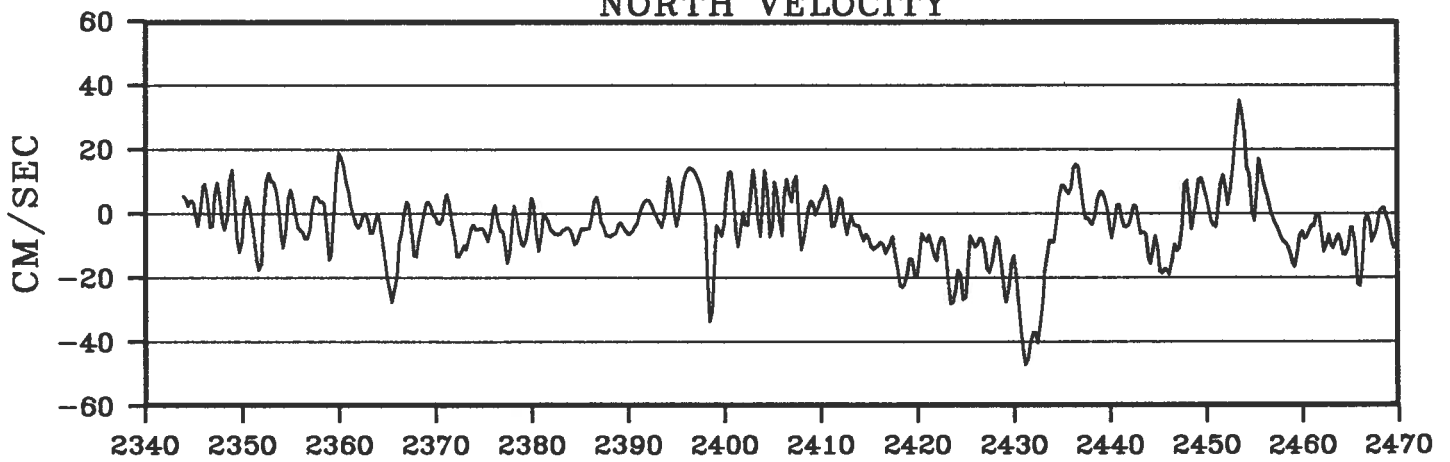


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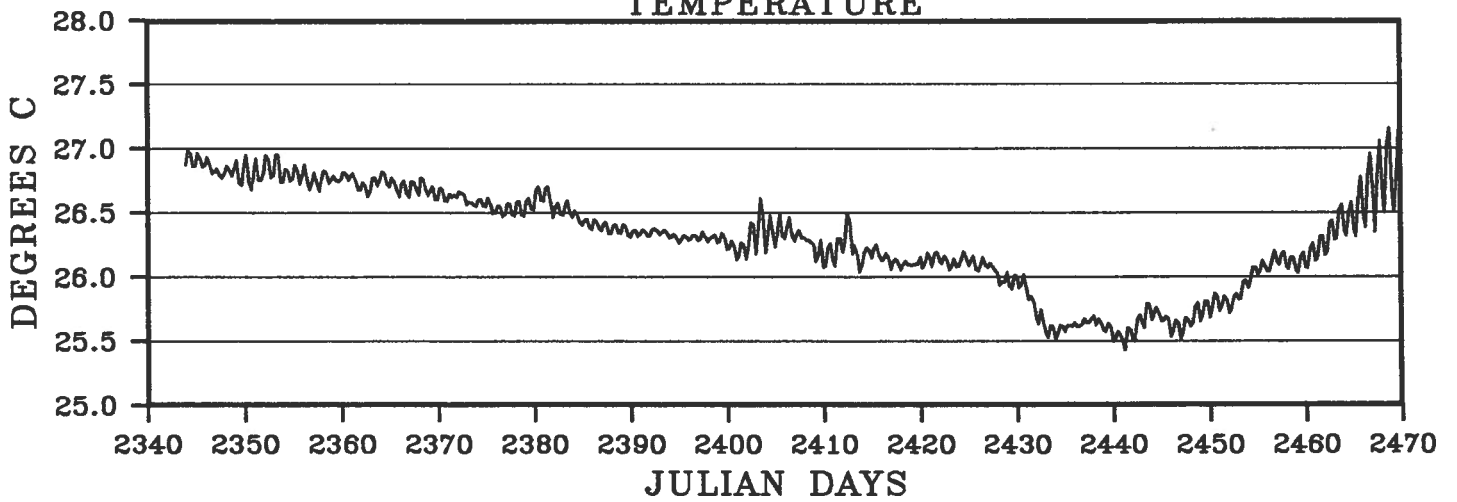
EAST VELOCITY



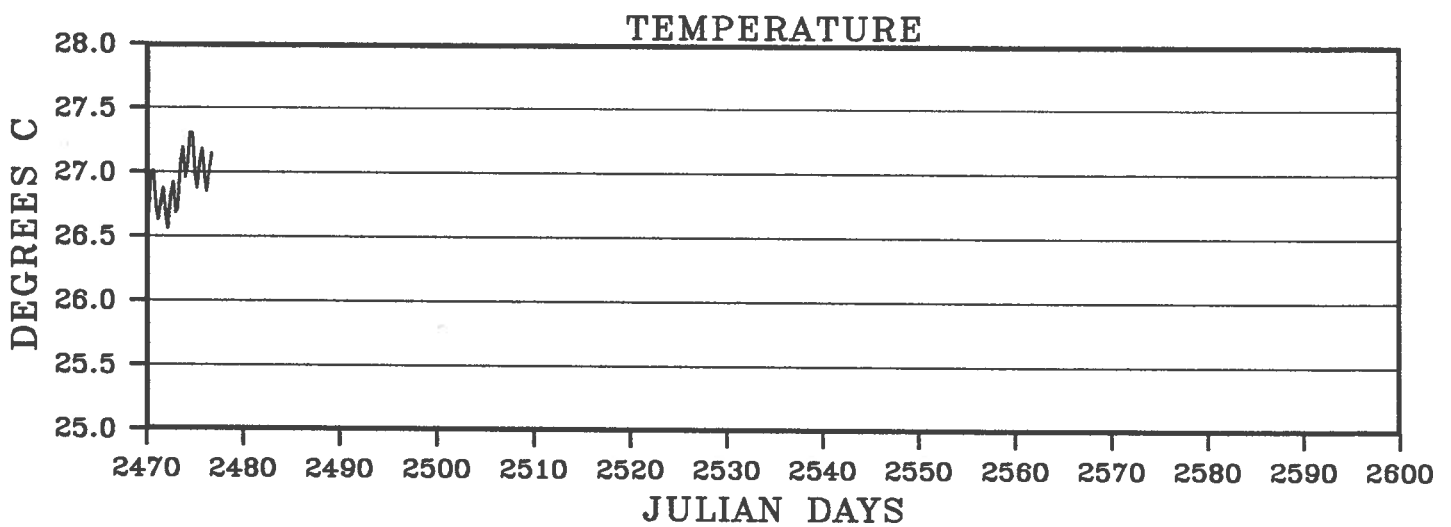
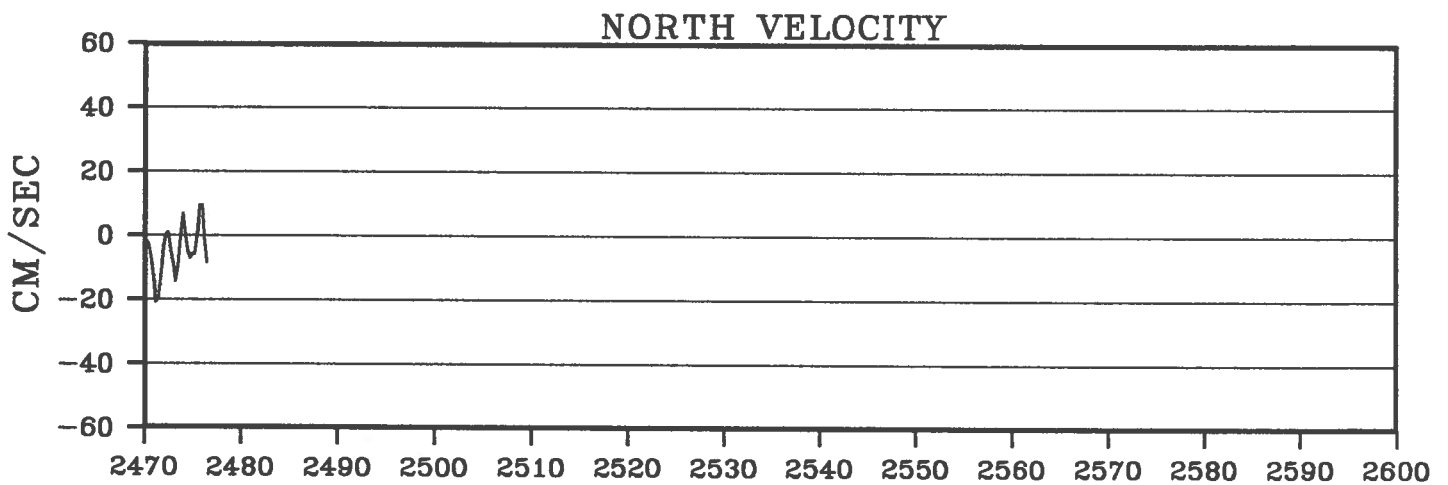
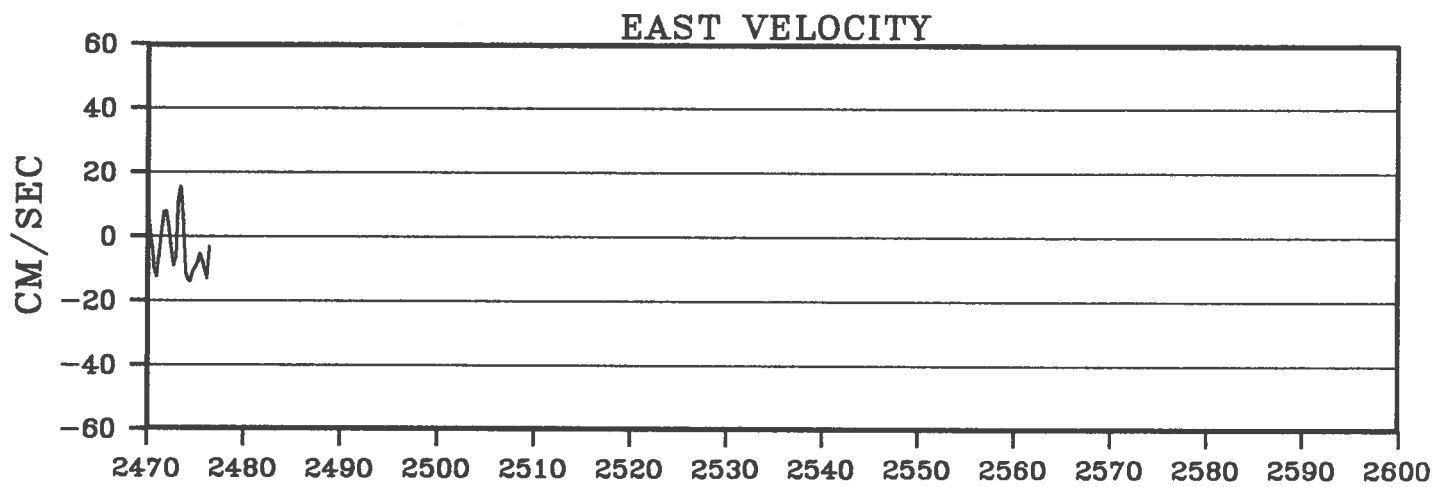
NORTH VELOCITY



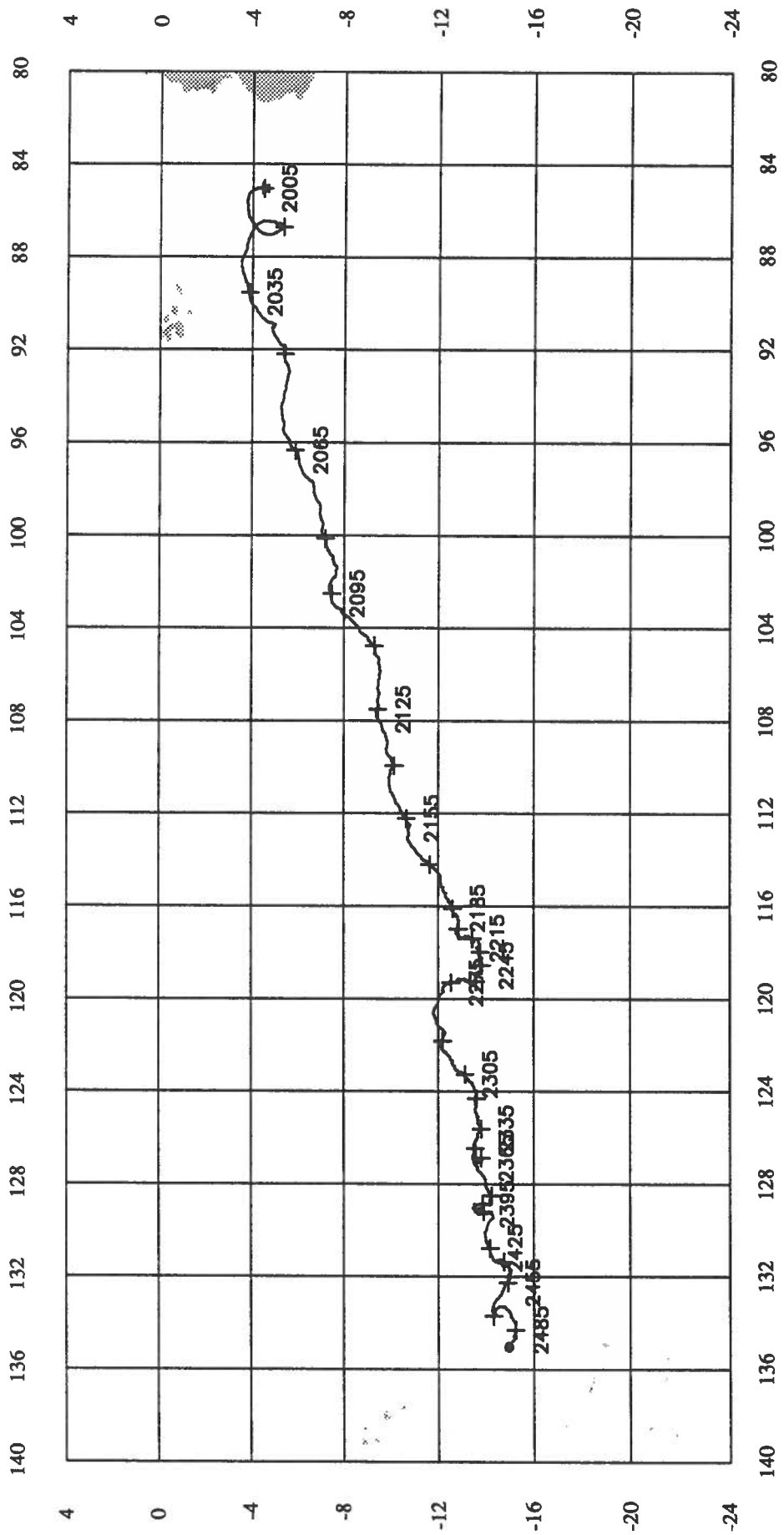
TEMPERATURE



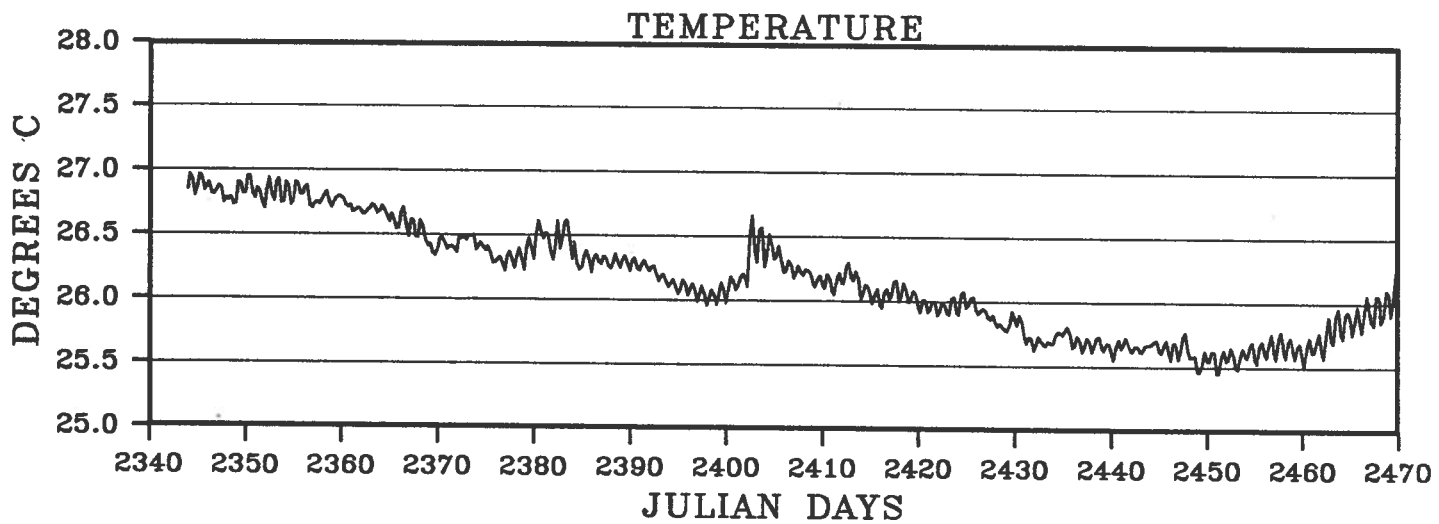
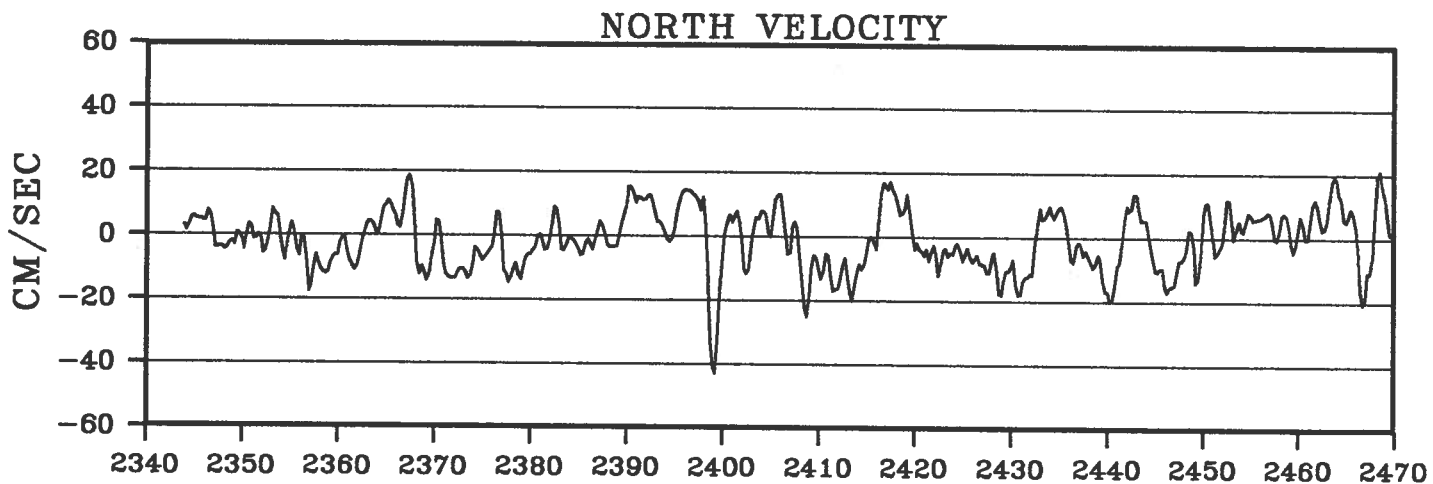
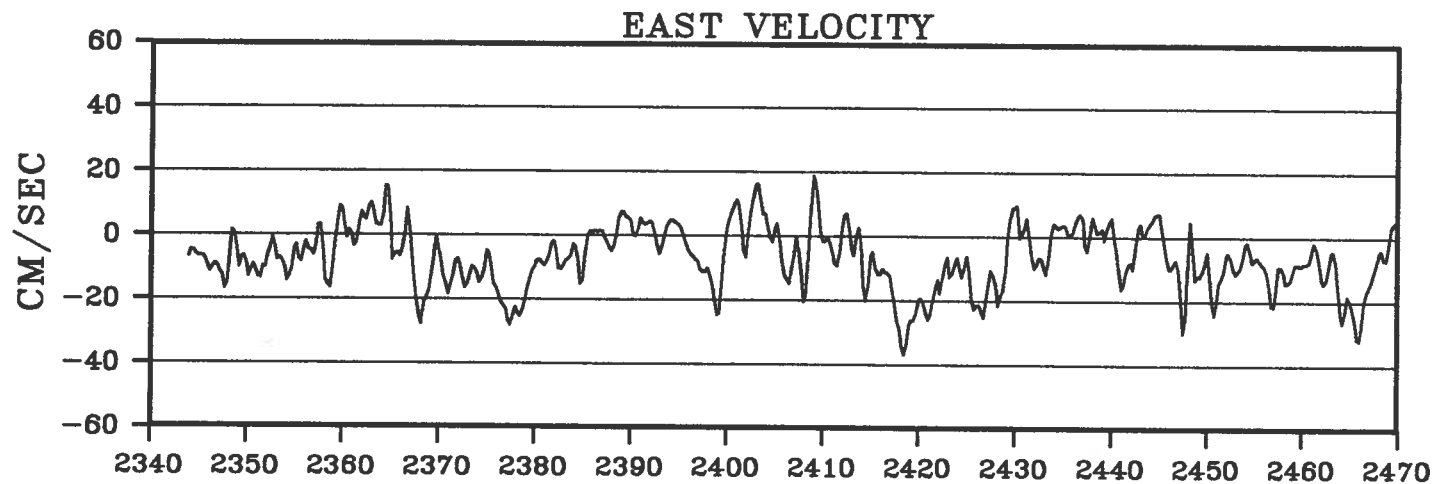
BUOY 2086



BUOY 2087

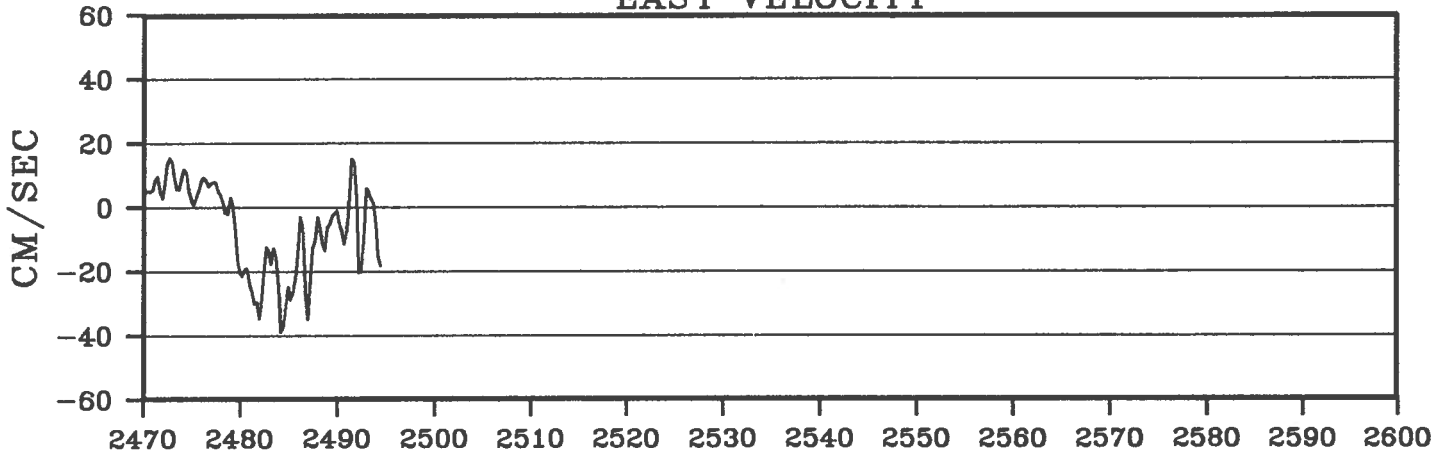


BUOY 2087

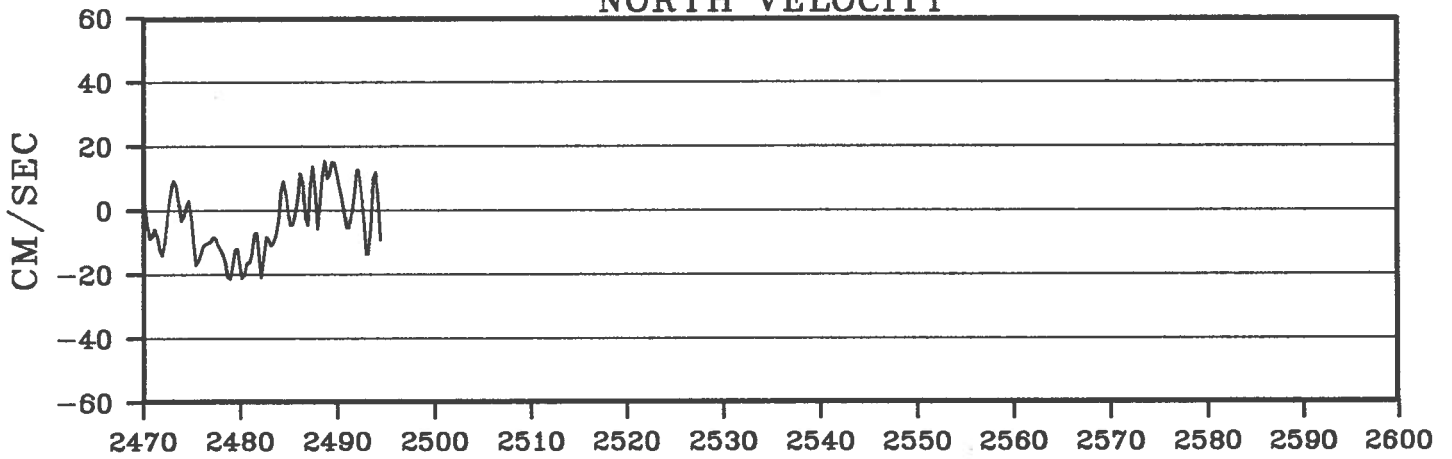


BUOY 2087

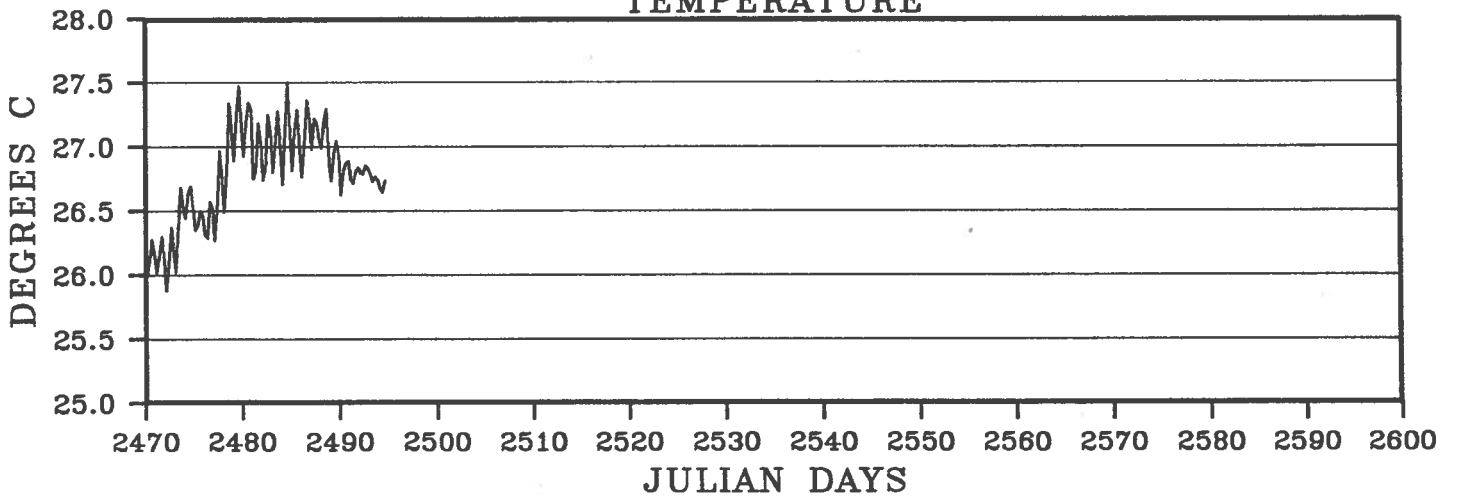
EAST VELOCITY



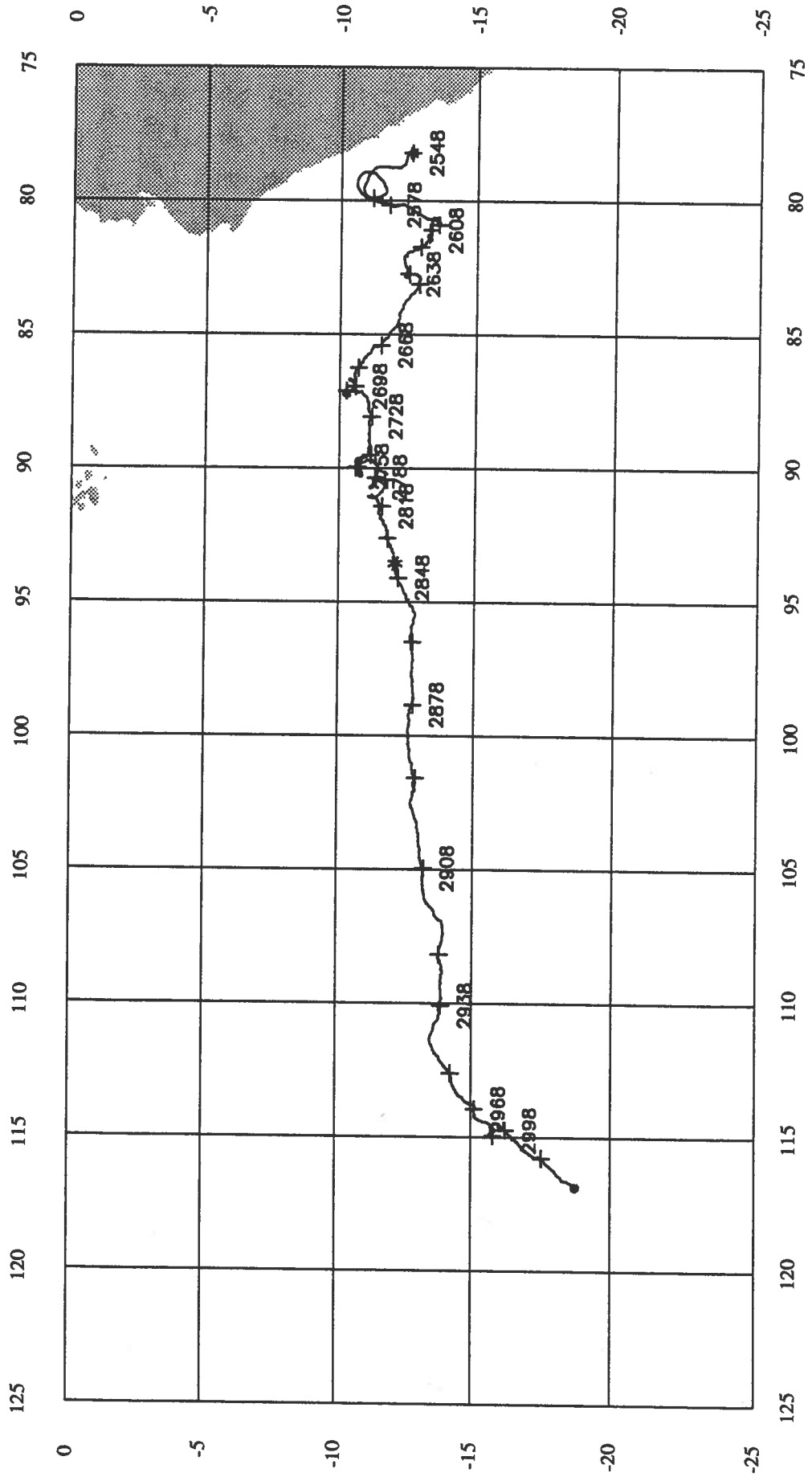
NORTH VELOCITY



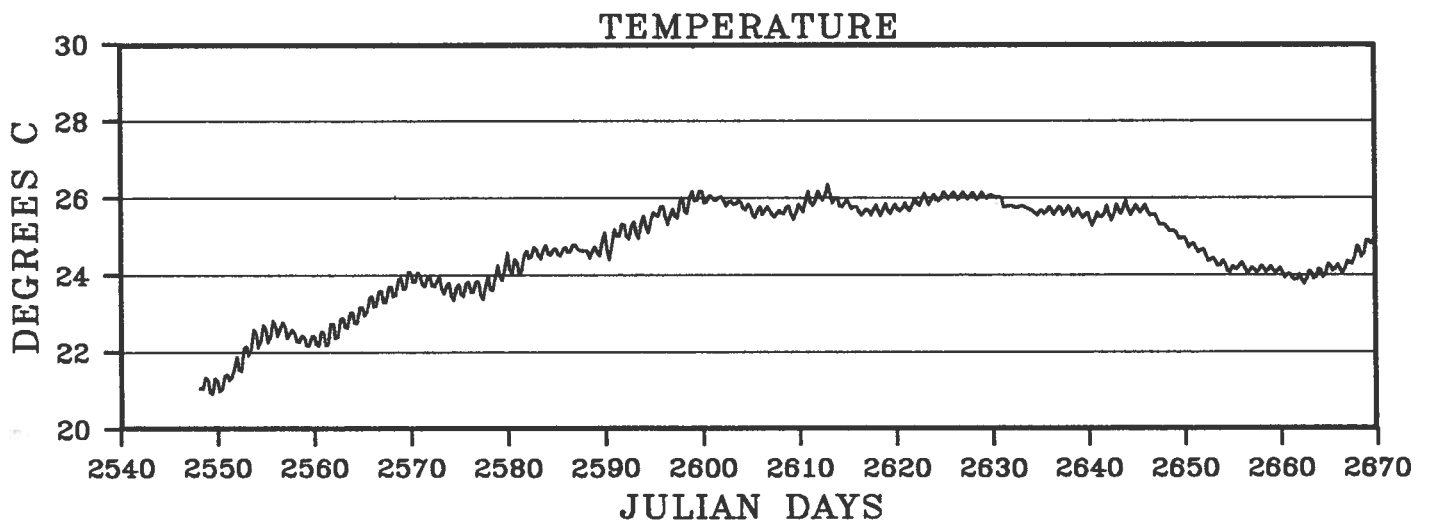
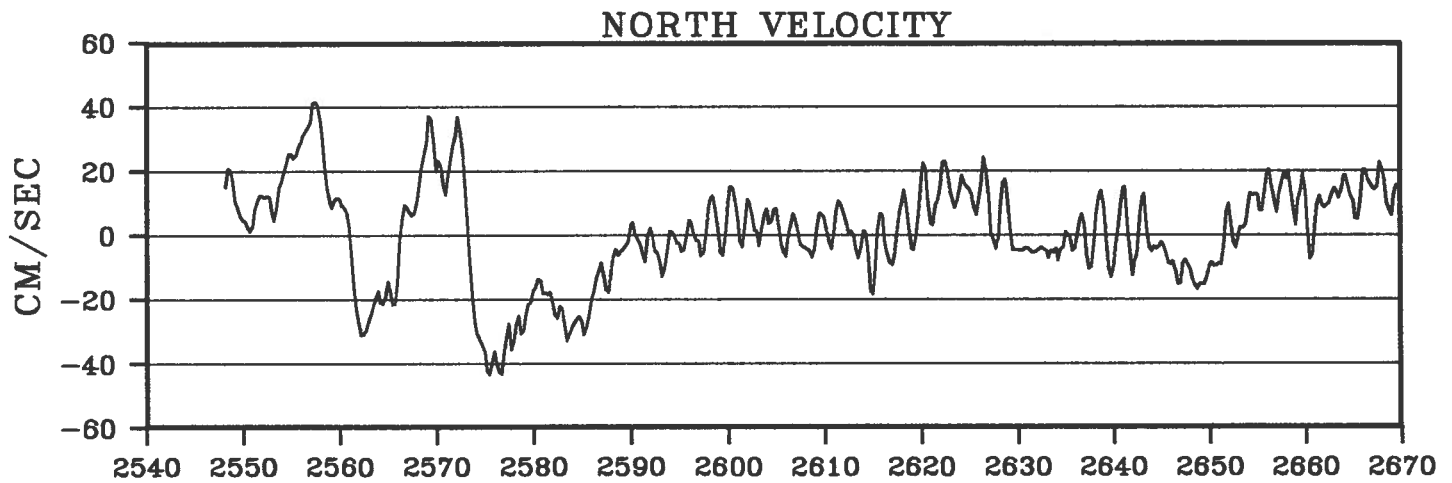
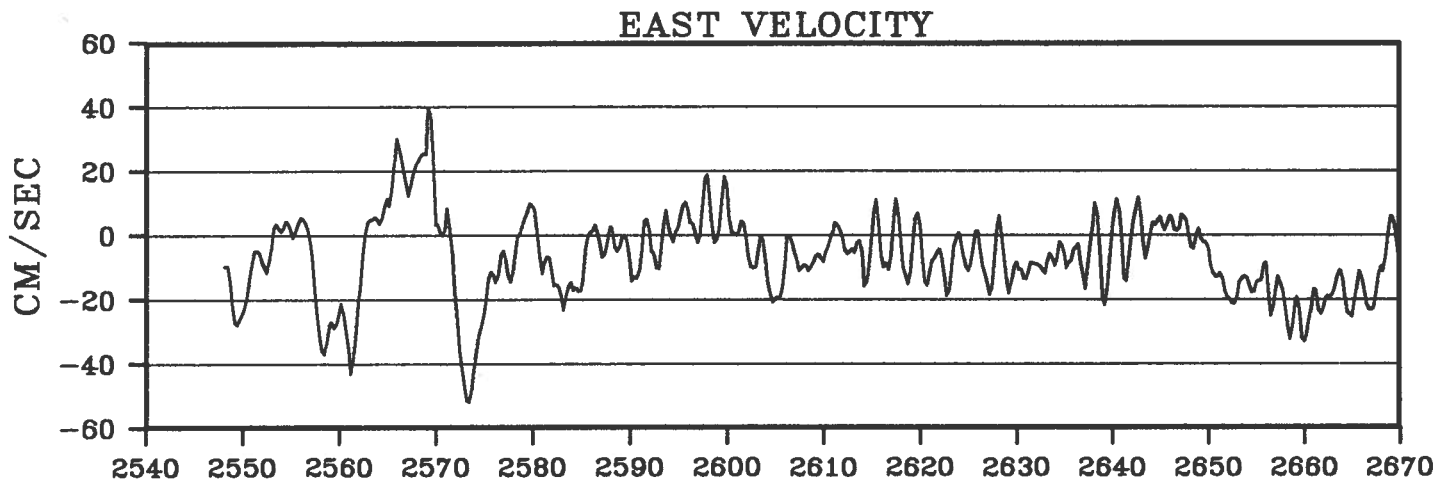
TEMPERATURE



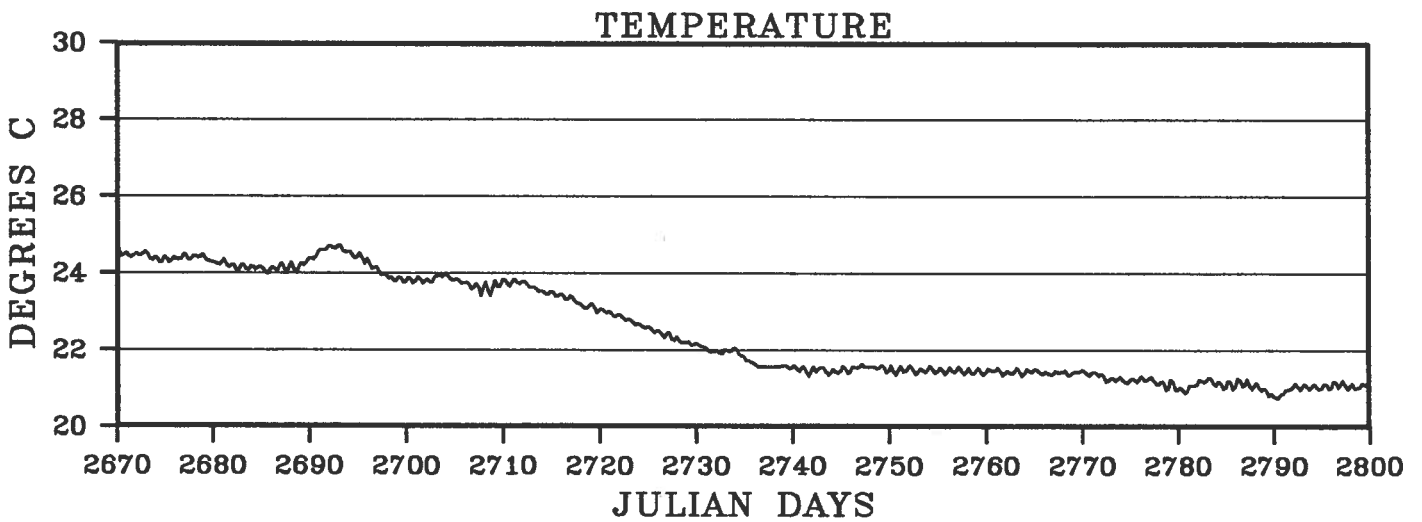
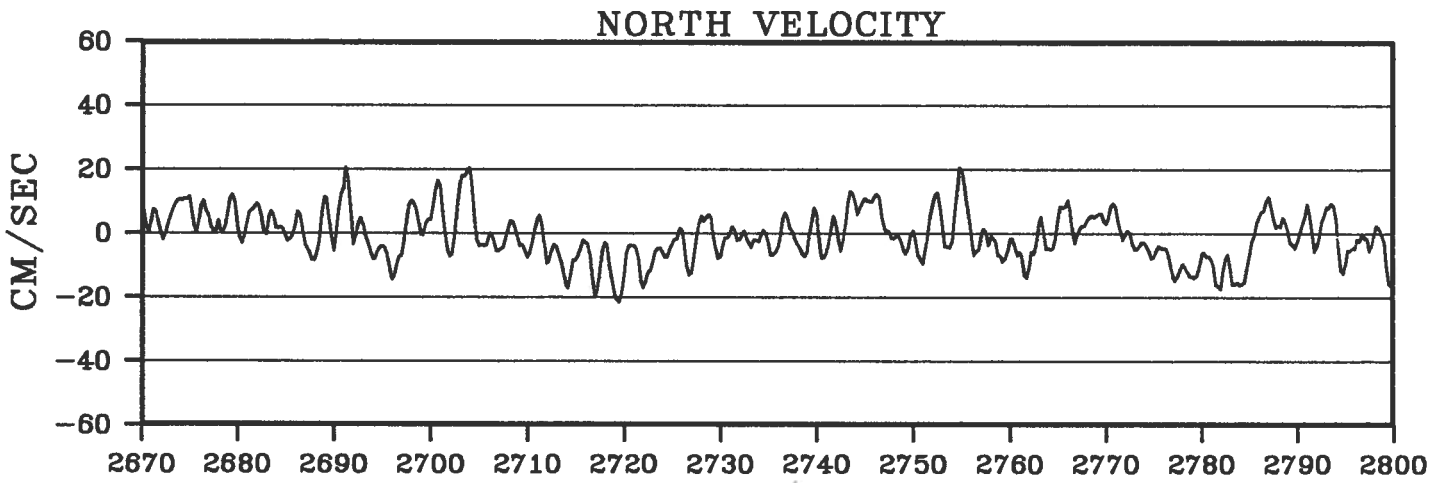
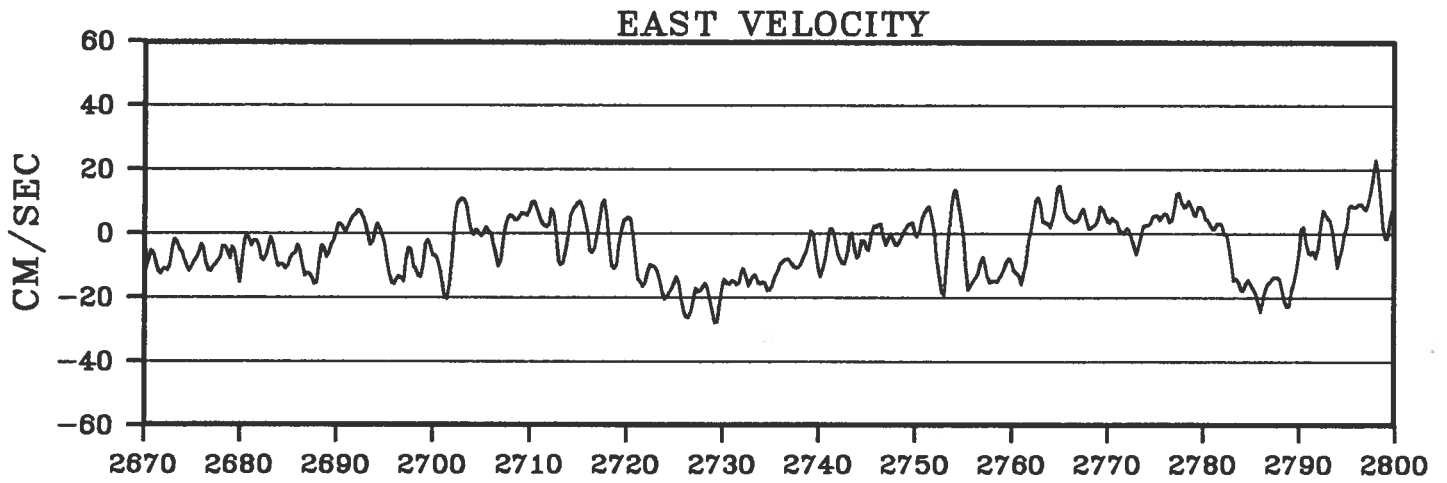
BUOY 2091



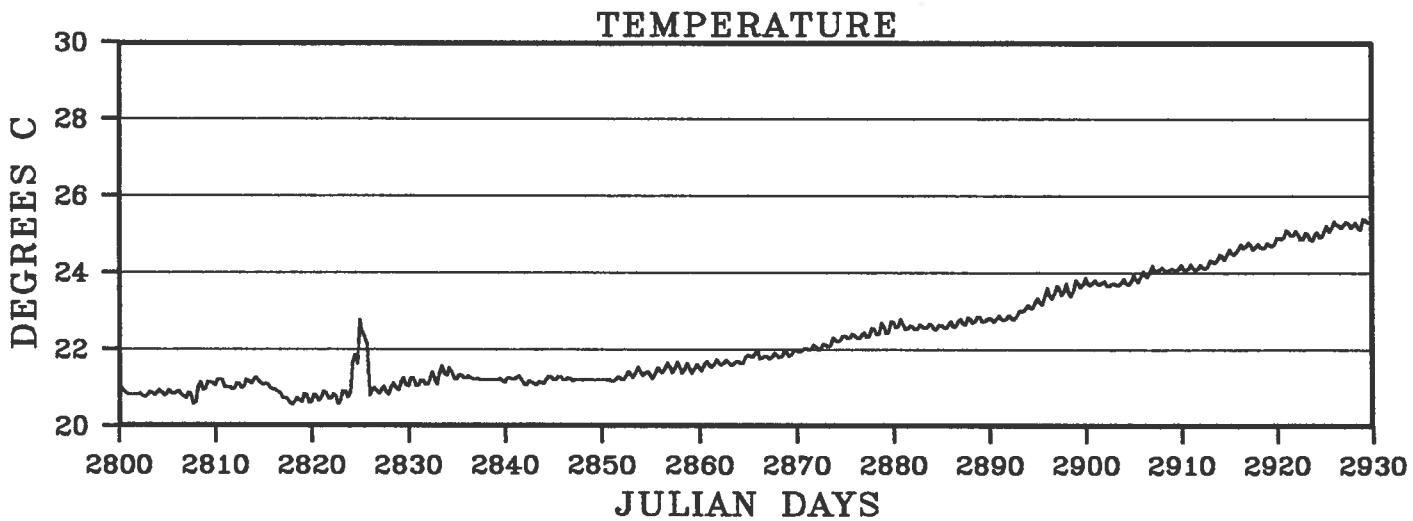
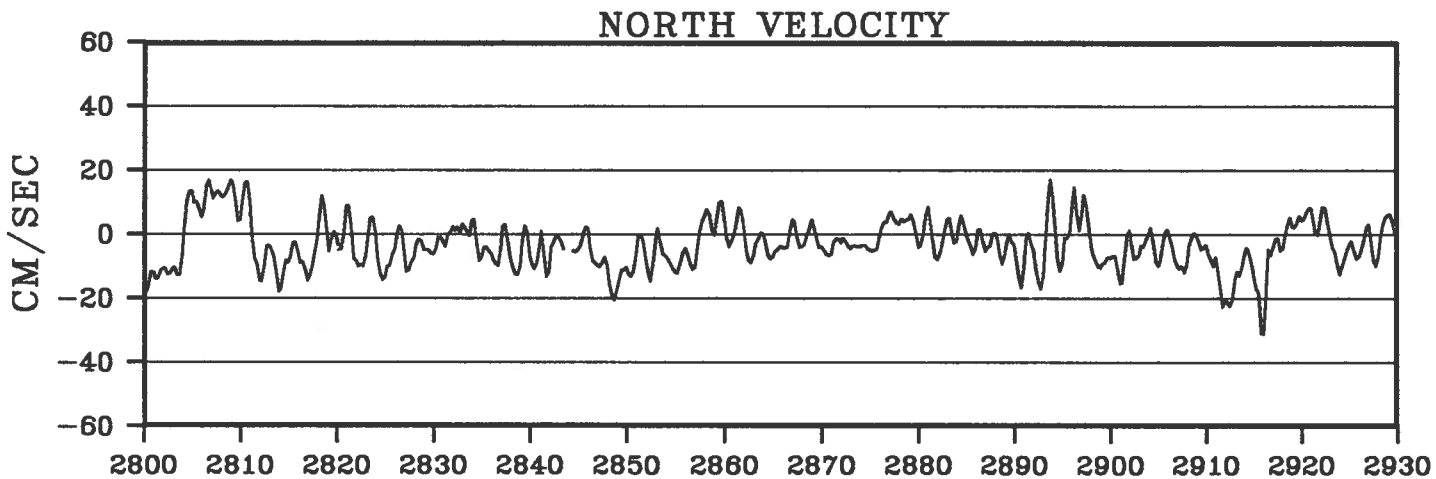
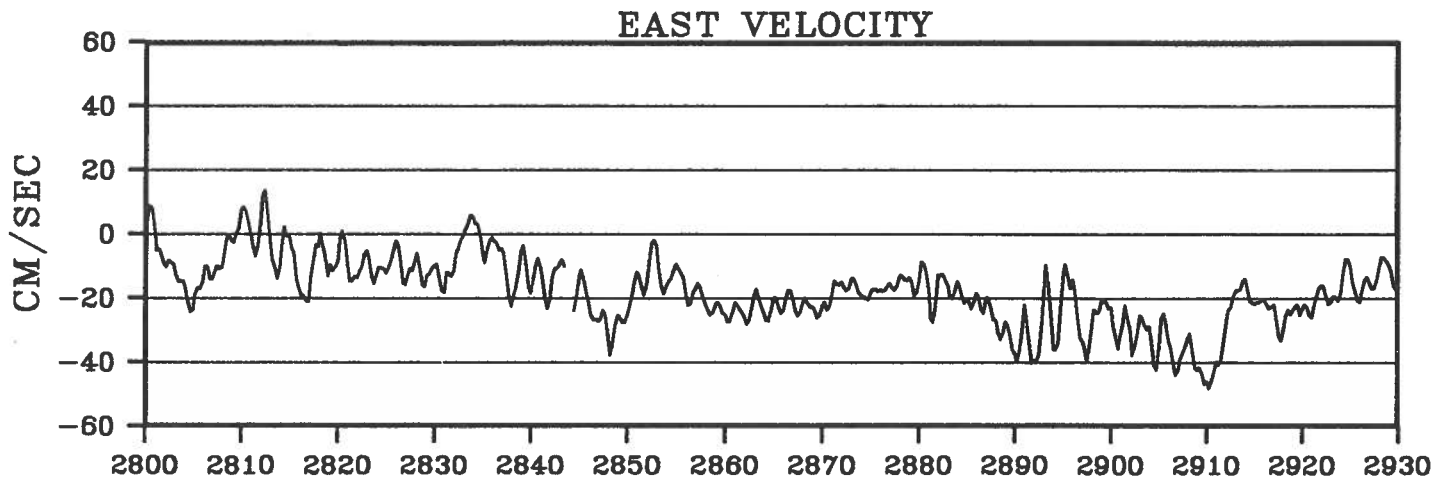
BUOY 2091



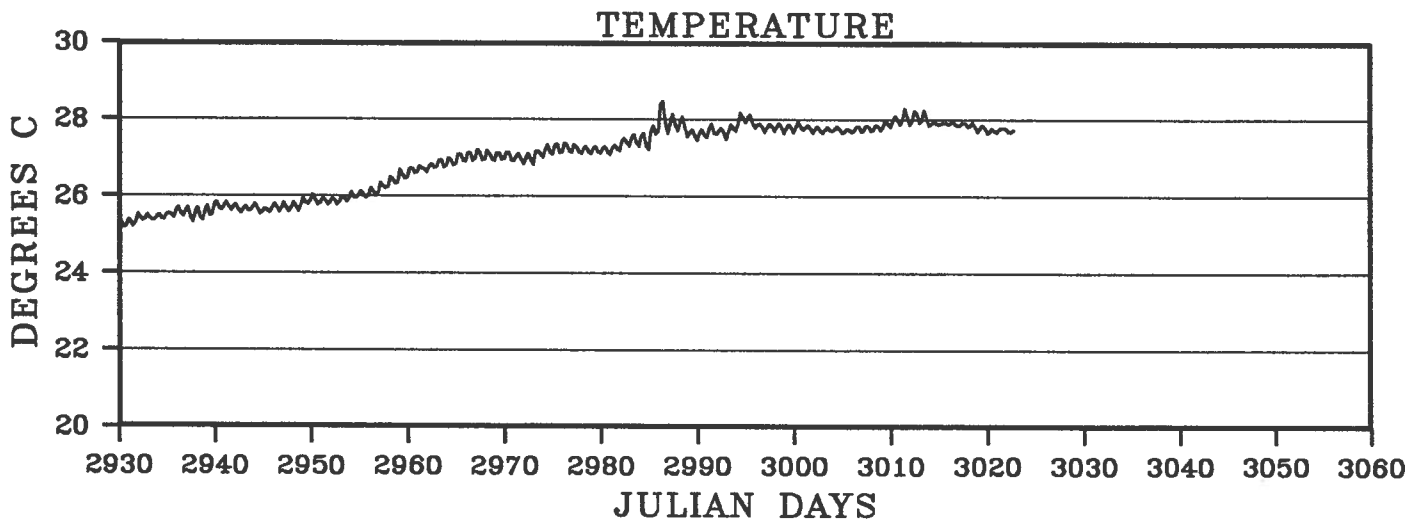
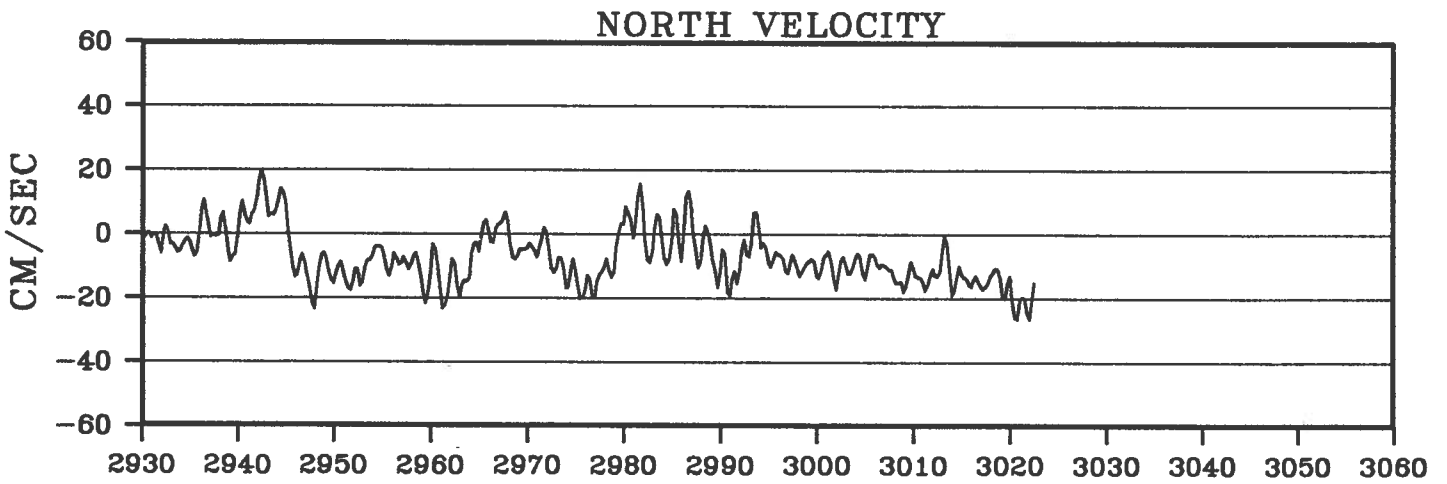
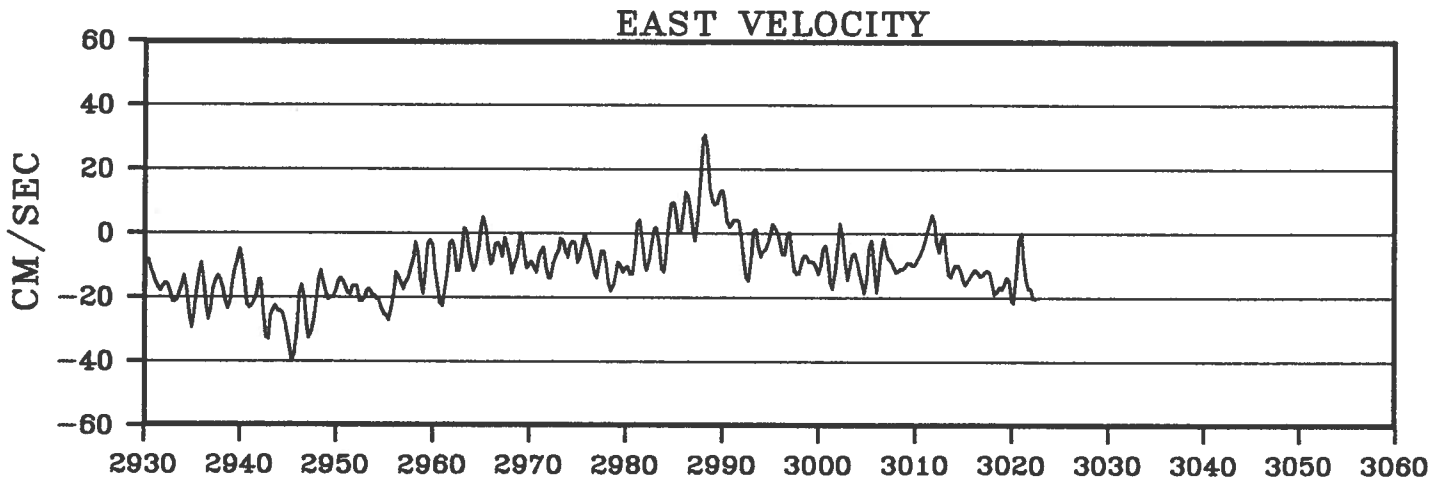
BUOY 2091



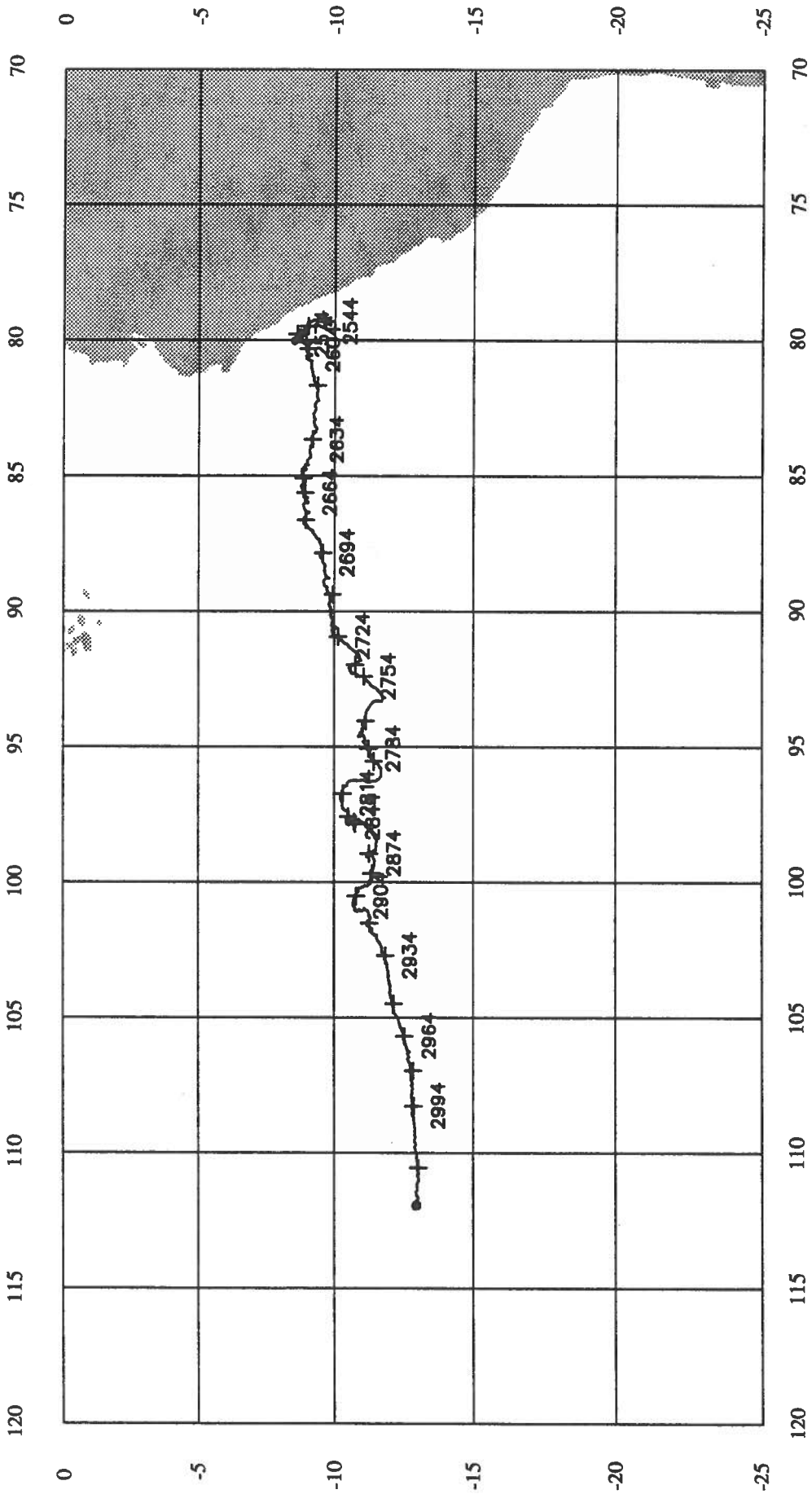
BUOY 2091



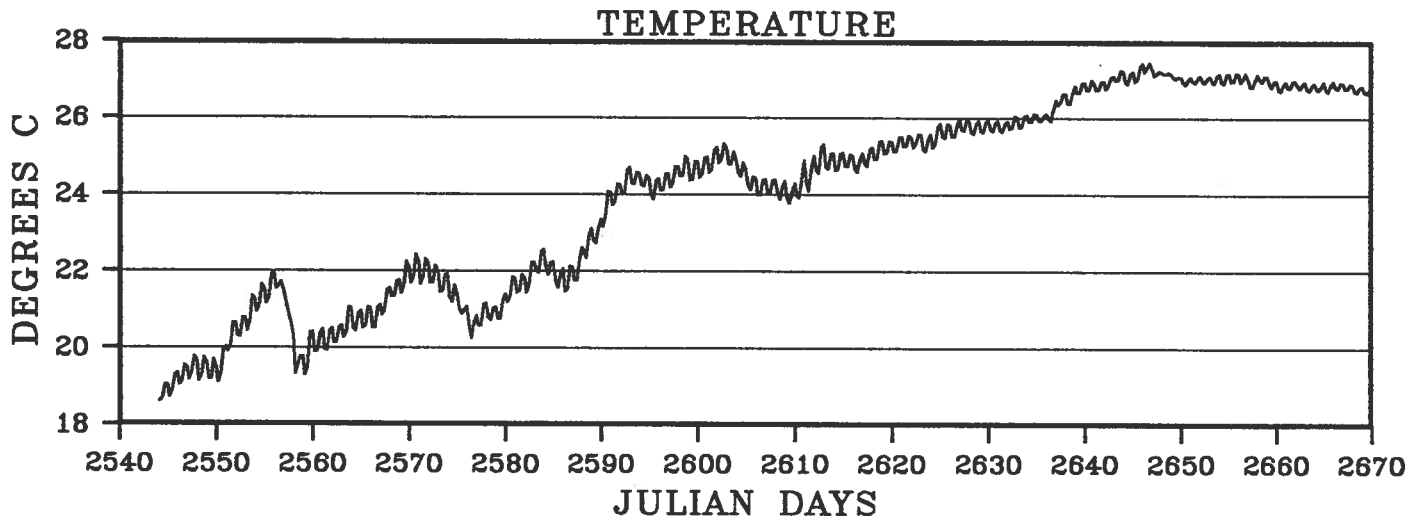
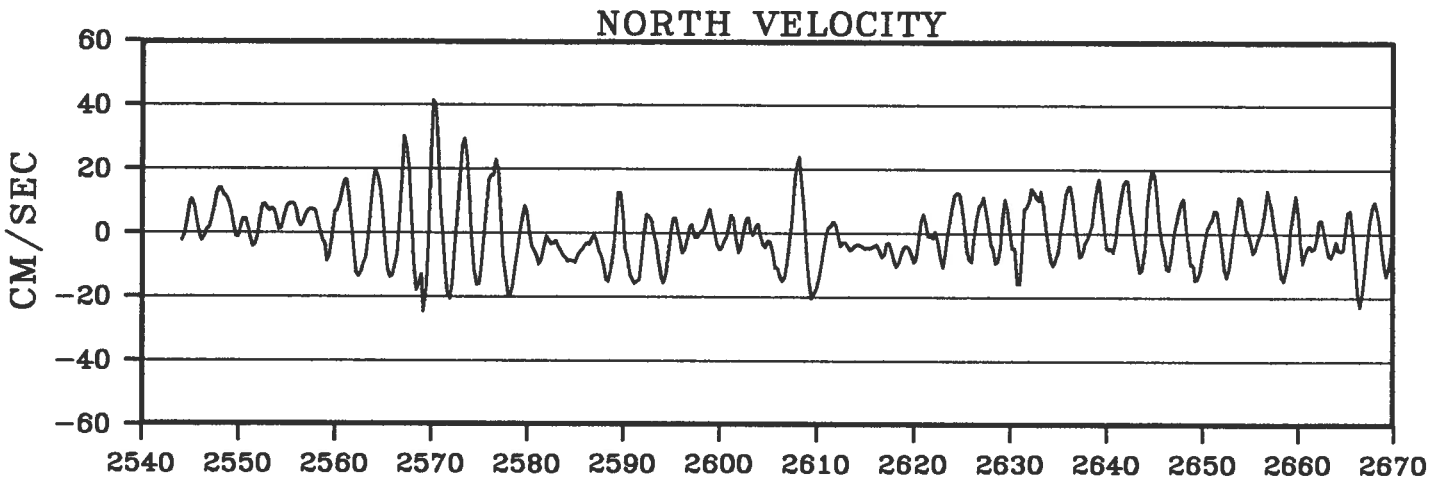
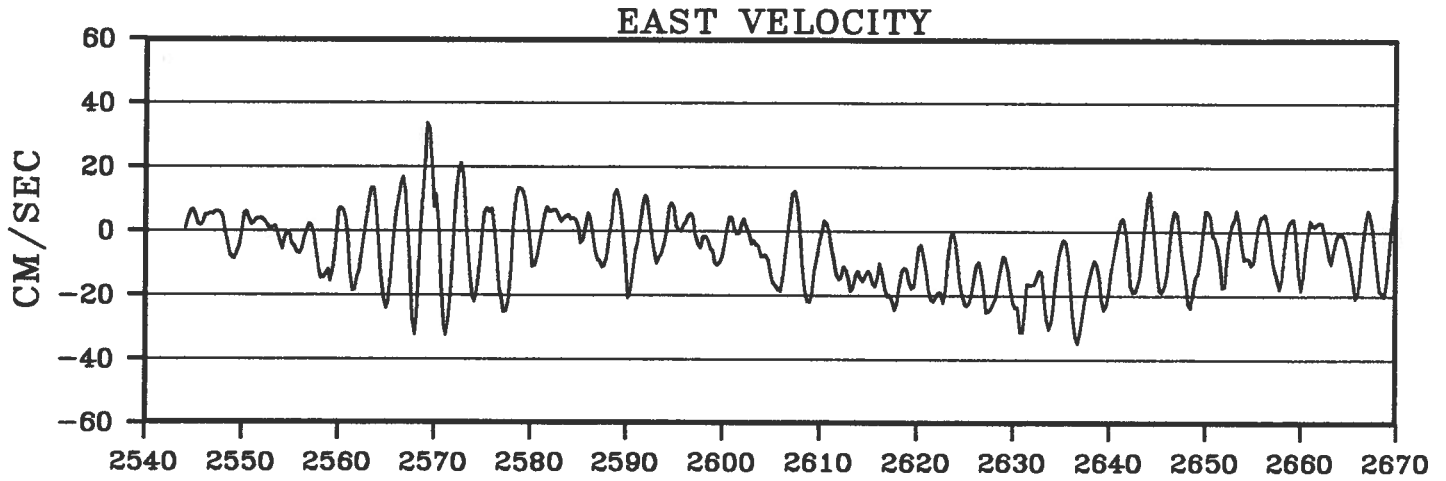
BUOY 2091



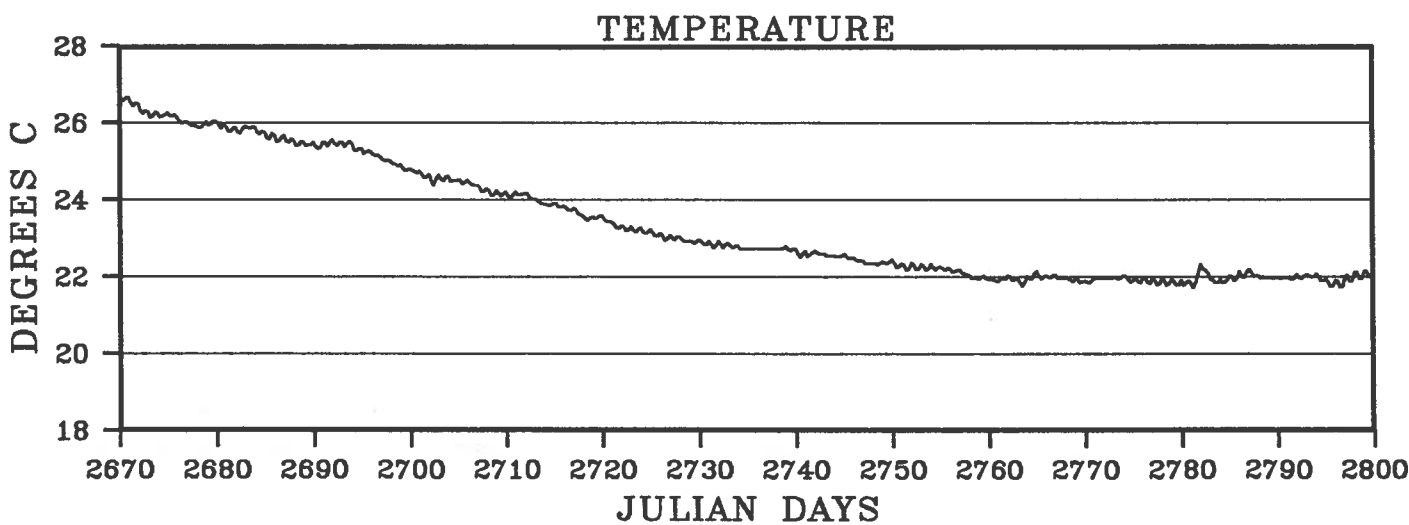
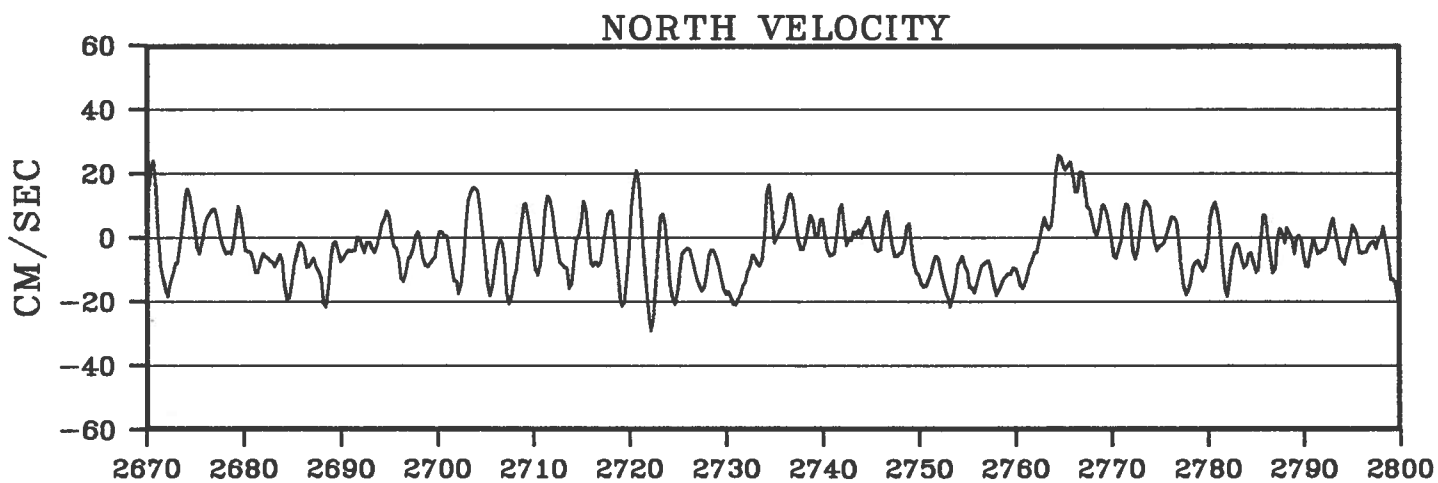
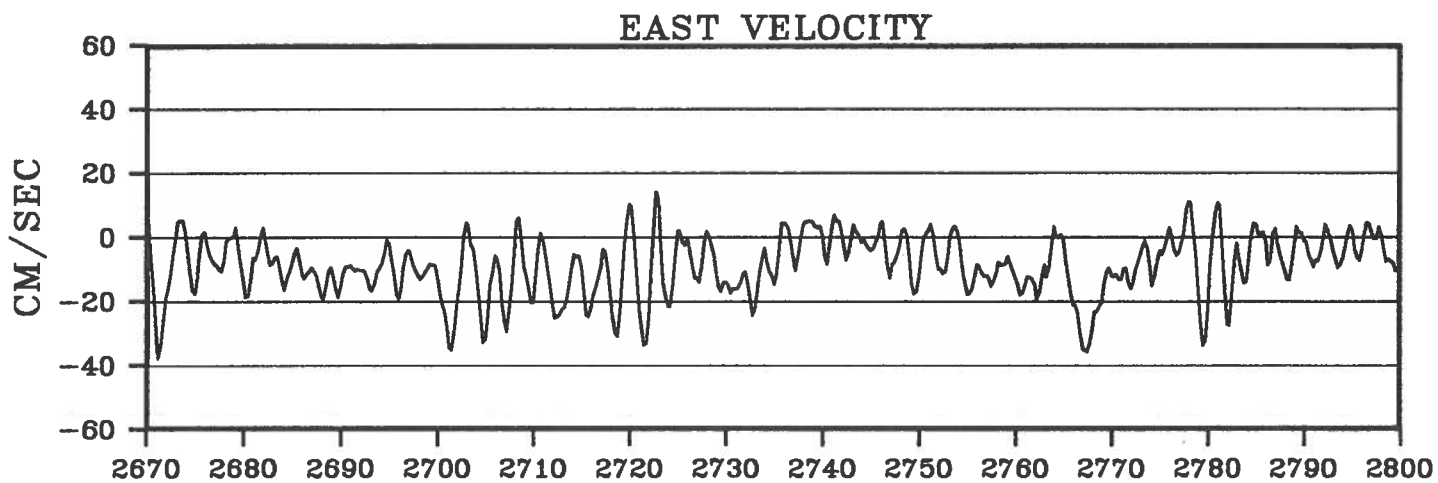
BUOY 2092



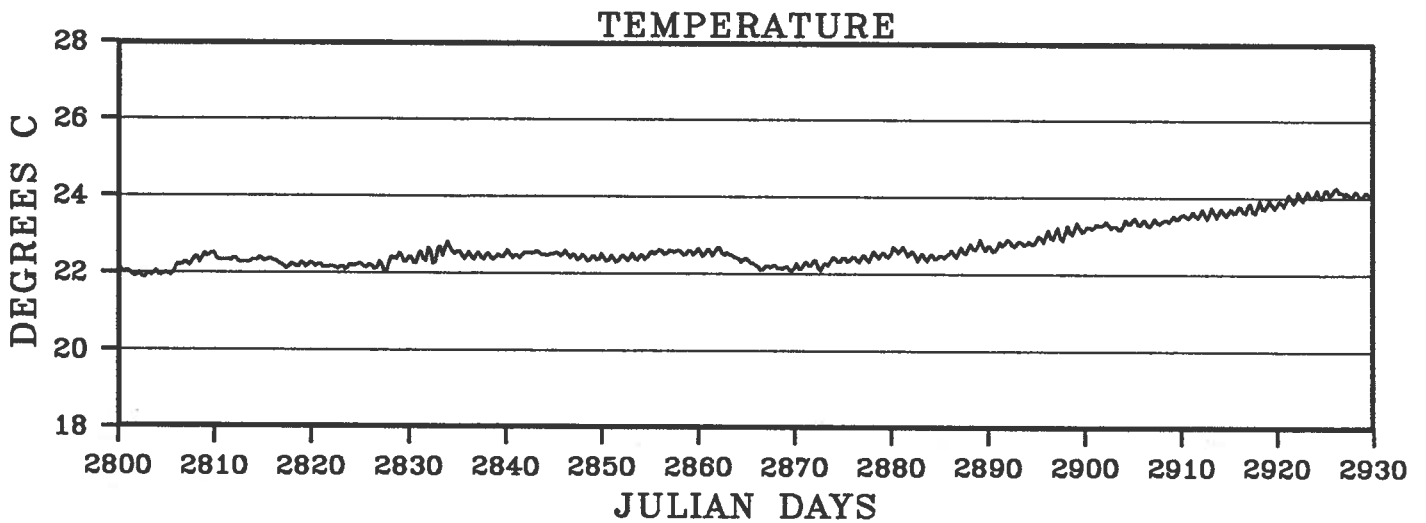
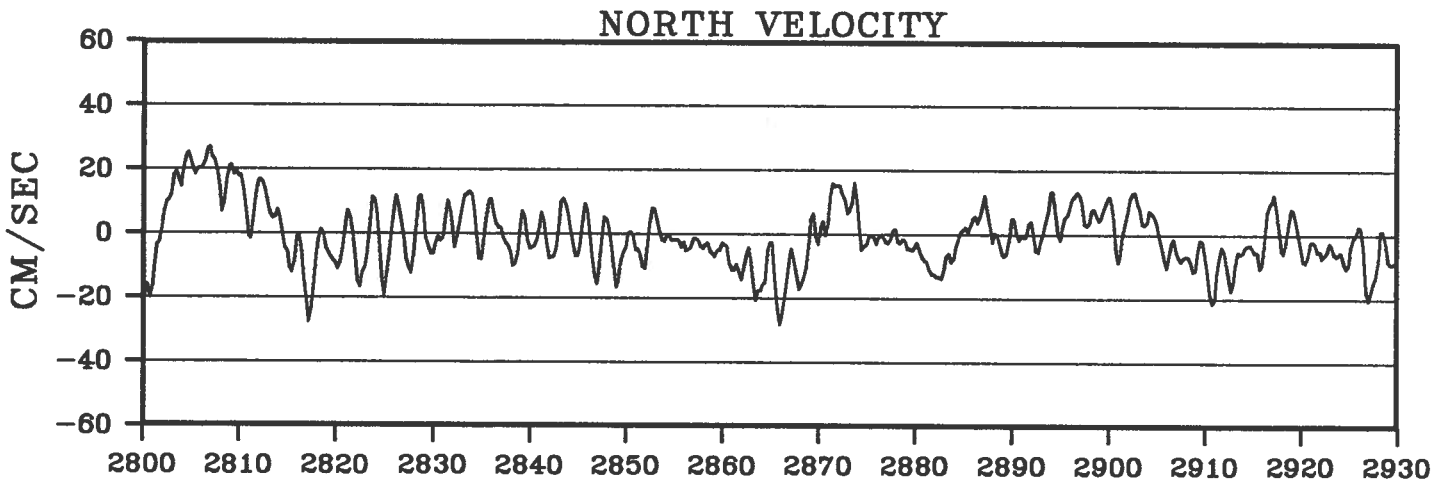
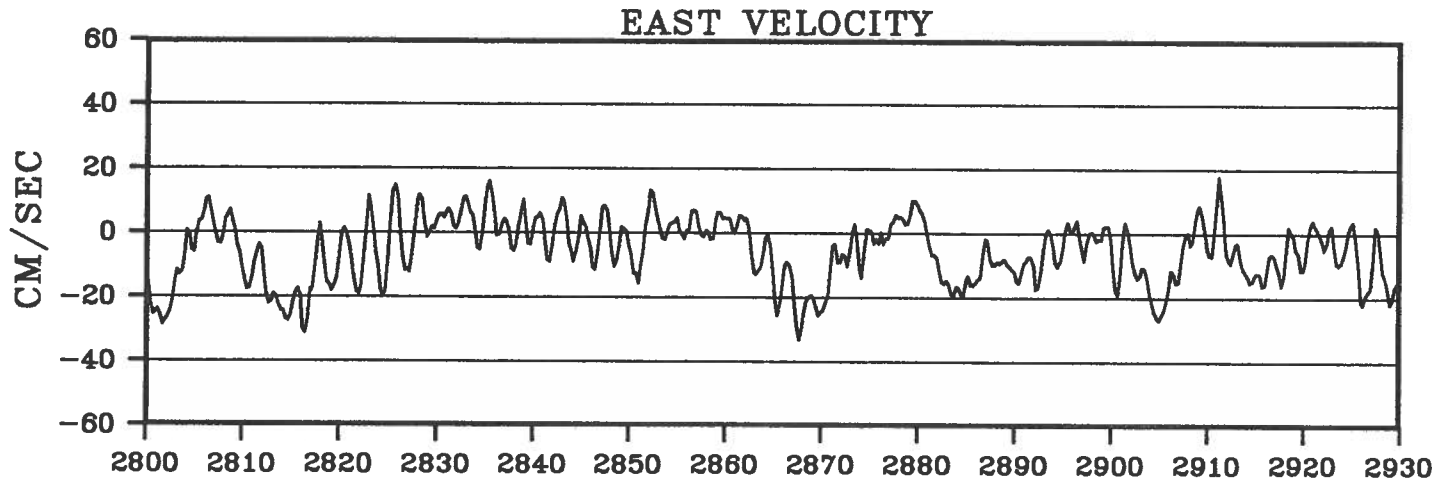
BUOY 2092



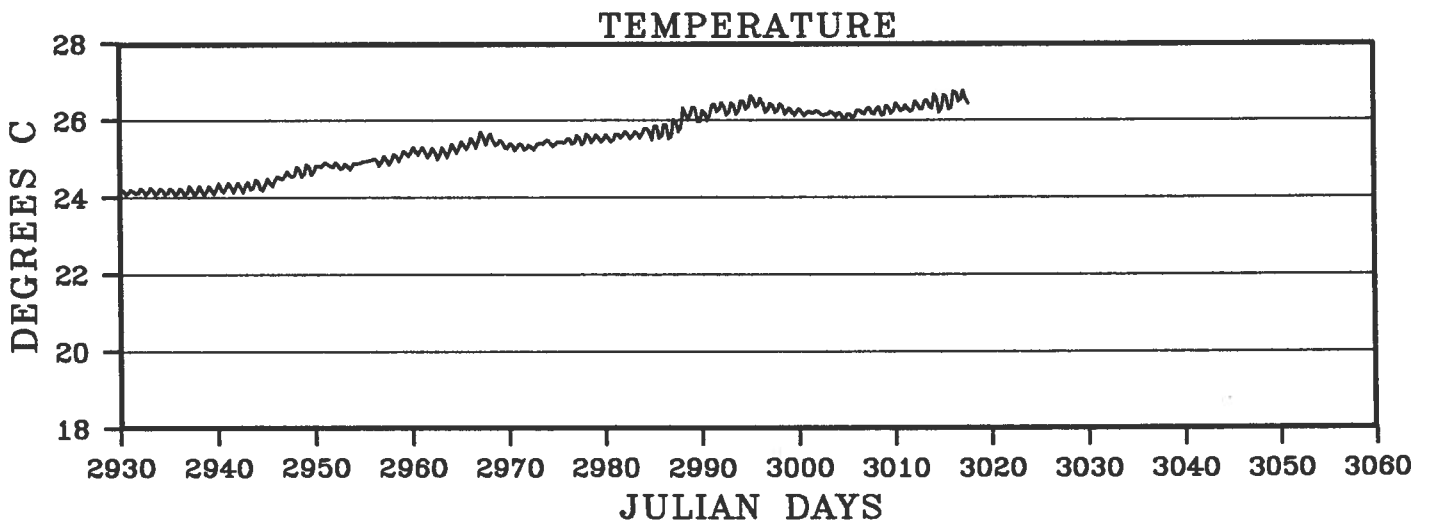
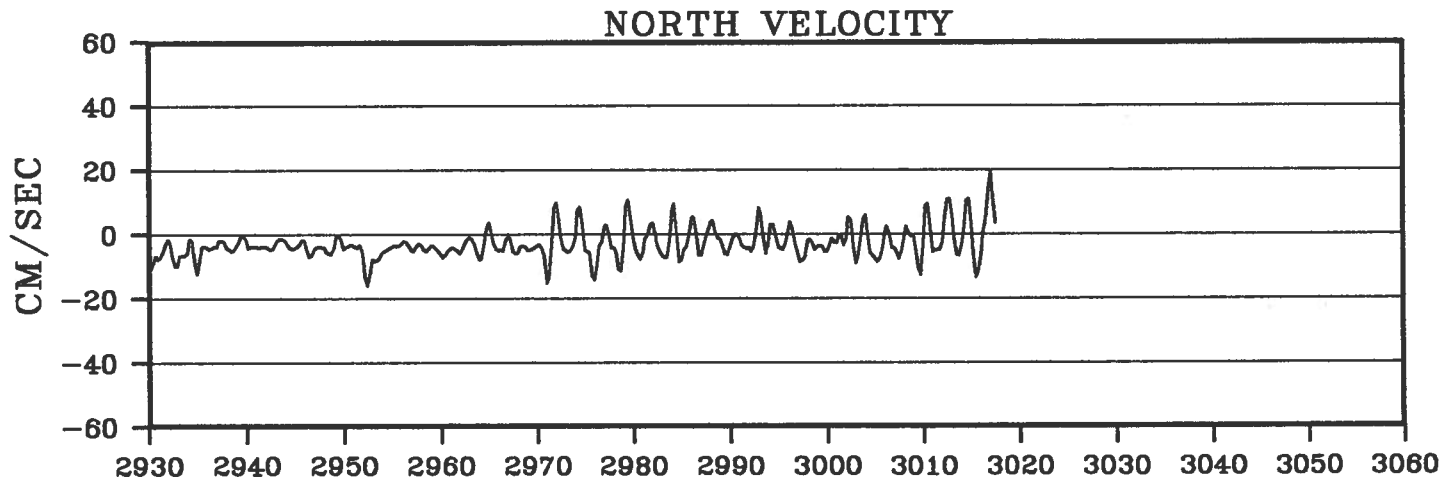
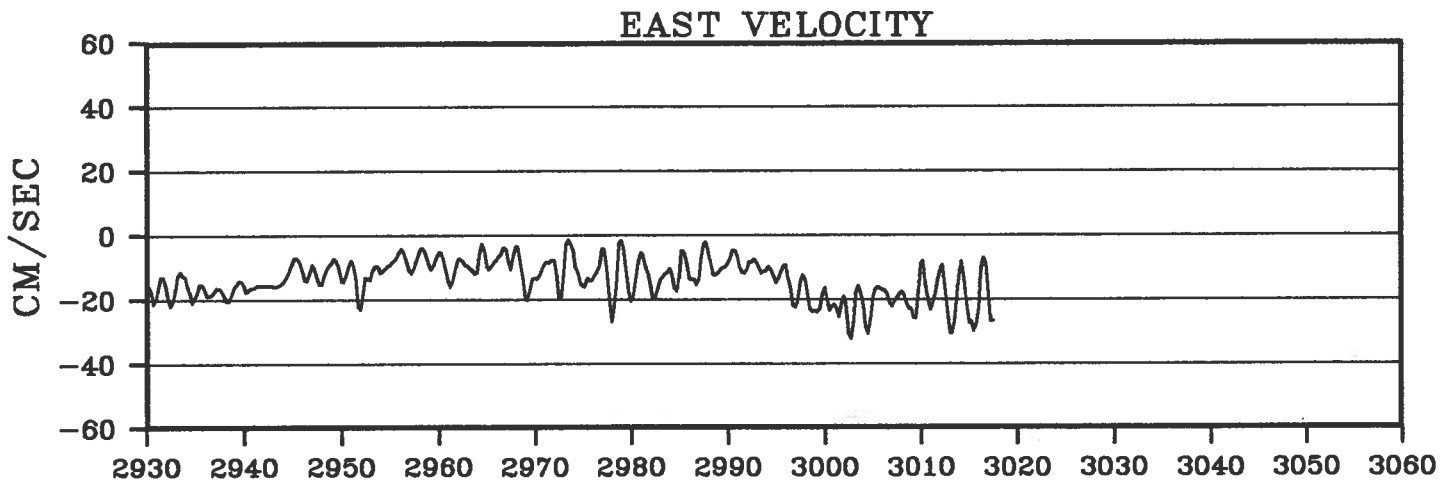
BUOY 2092



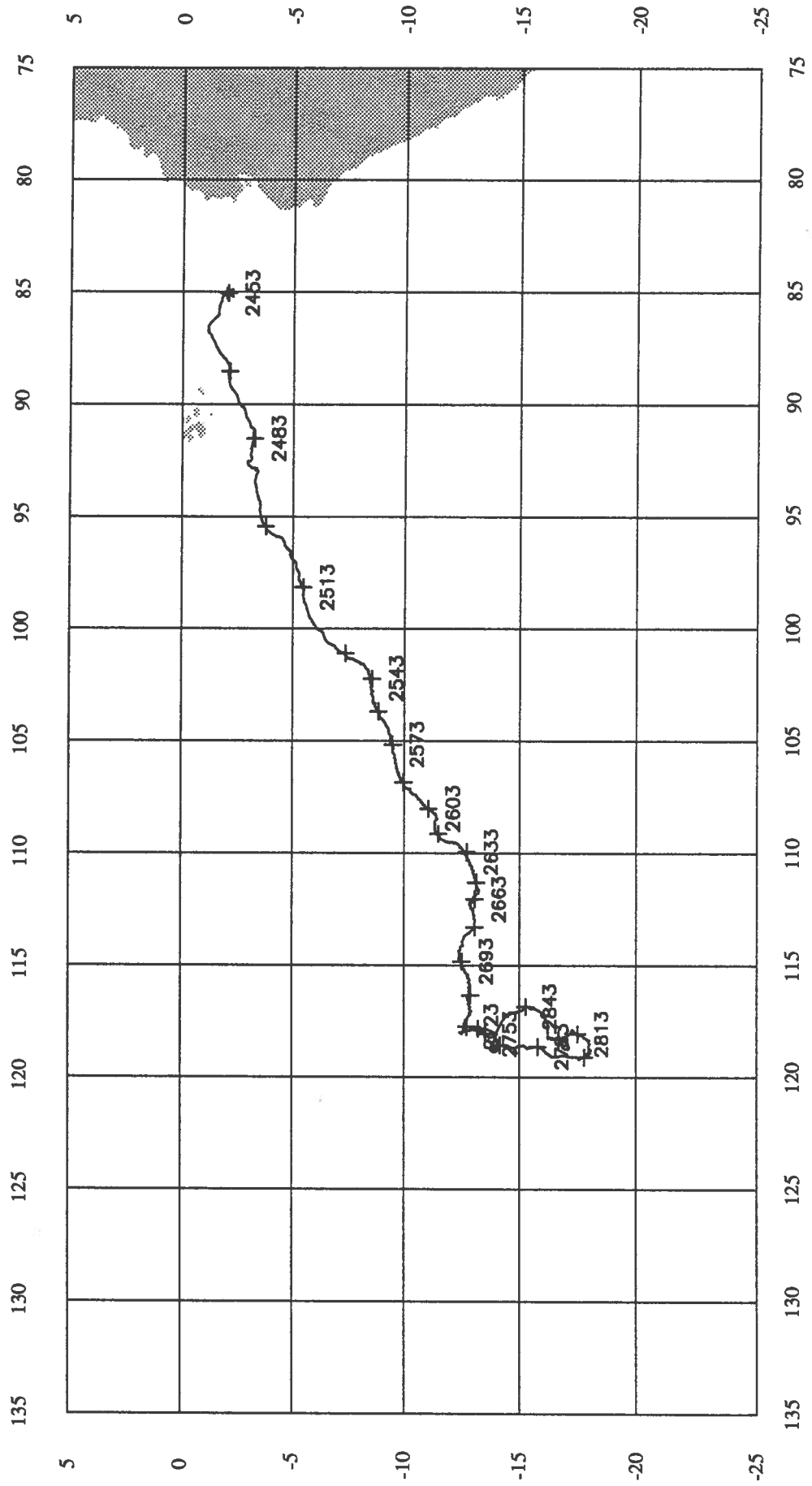
BUOY 2092



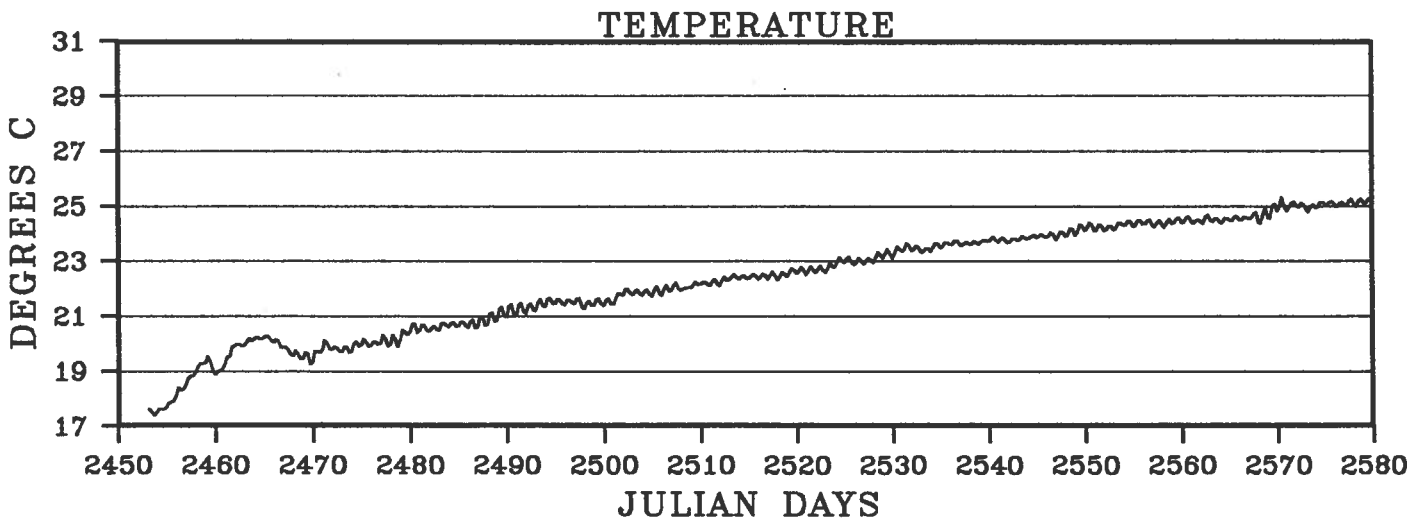
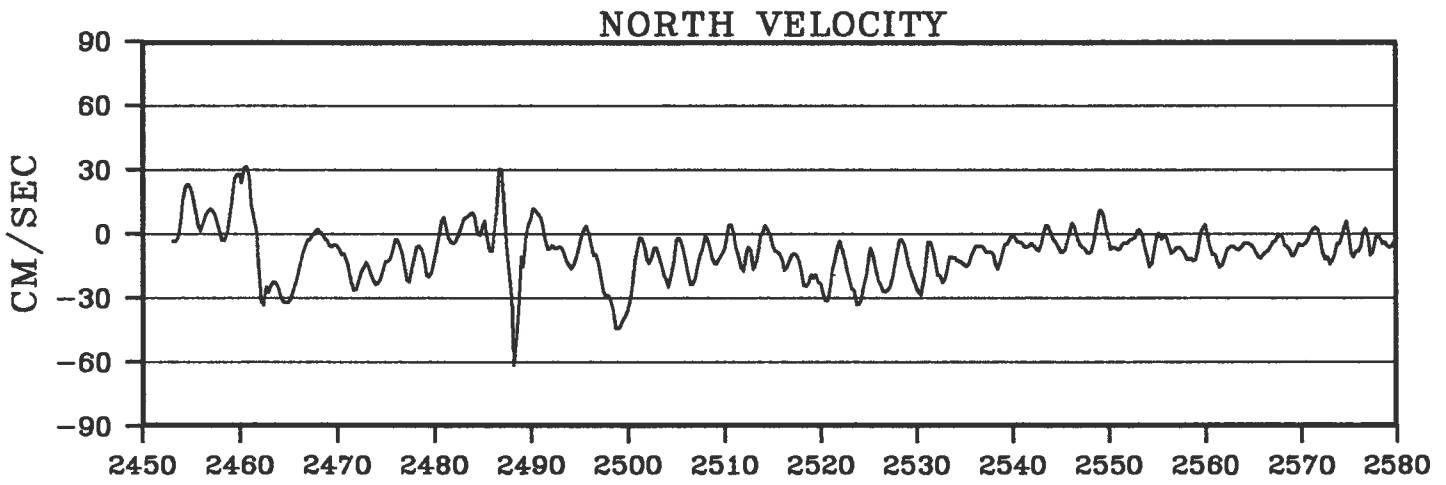
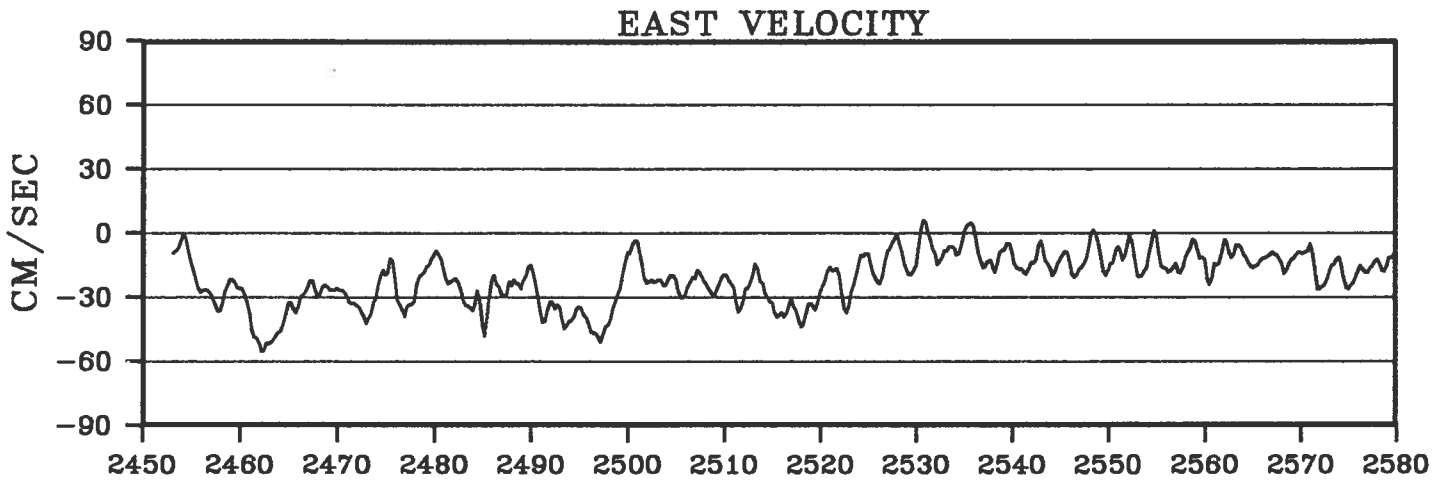
BUOY 2092



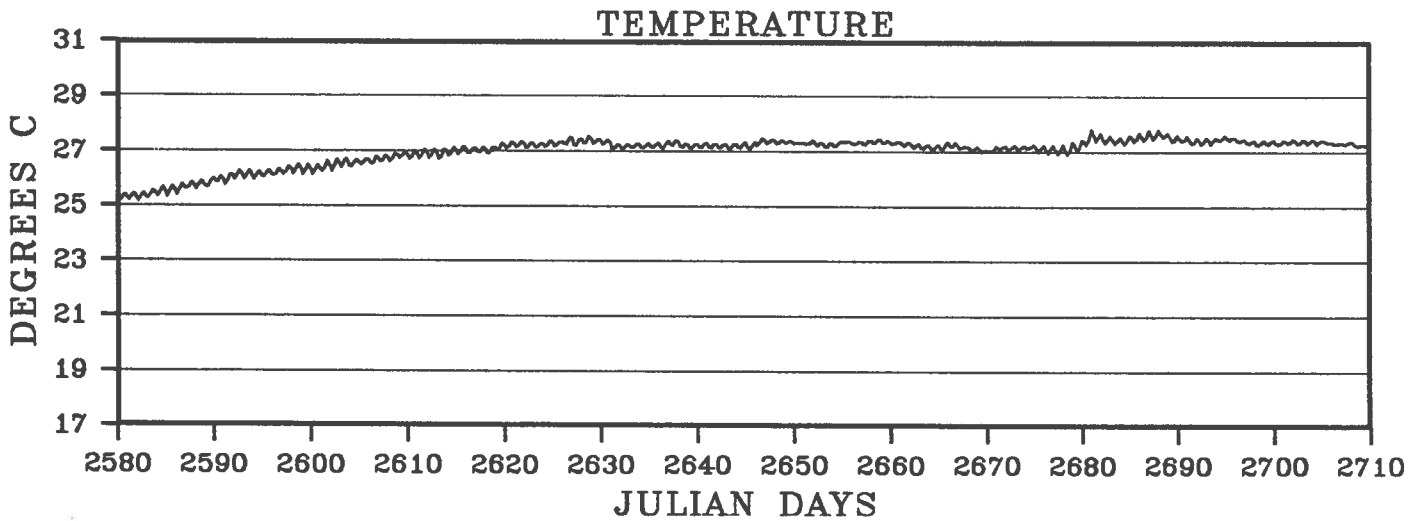
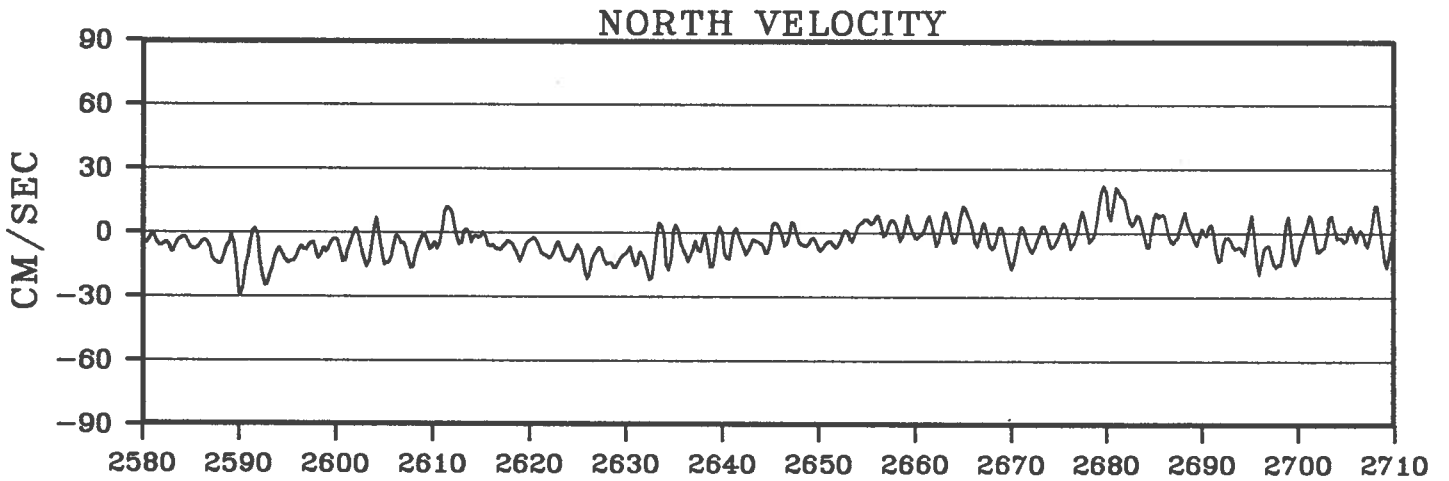
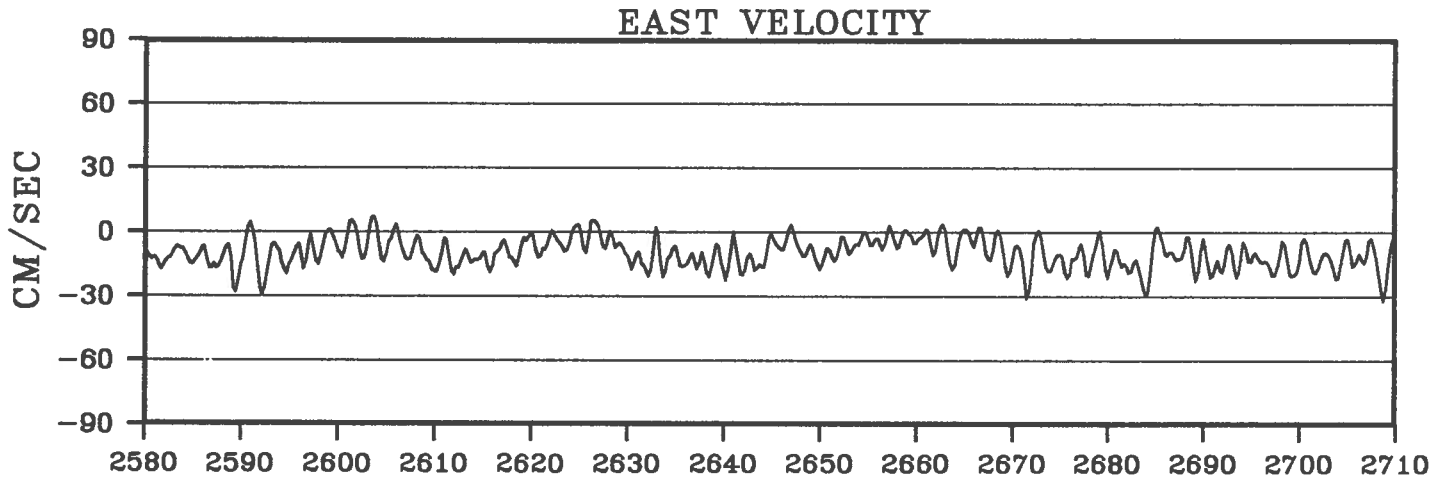
BUOY 2093



BUOY 2093

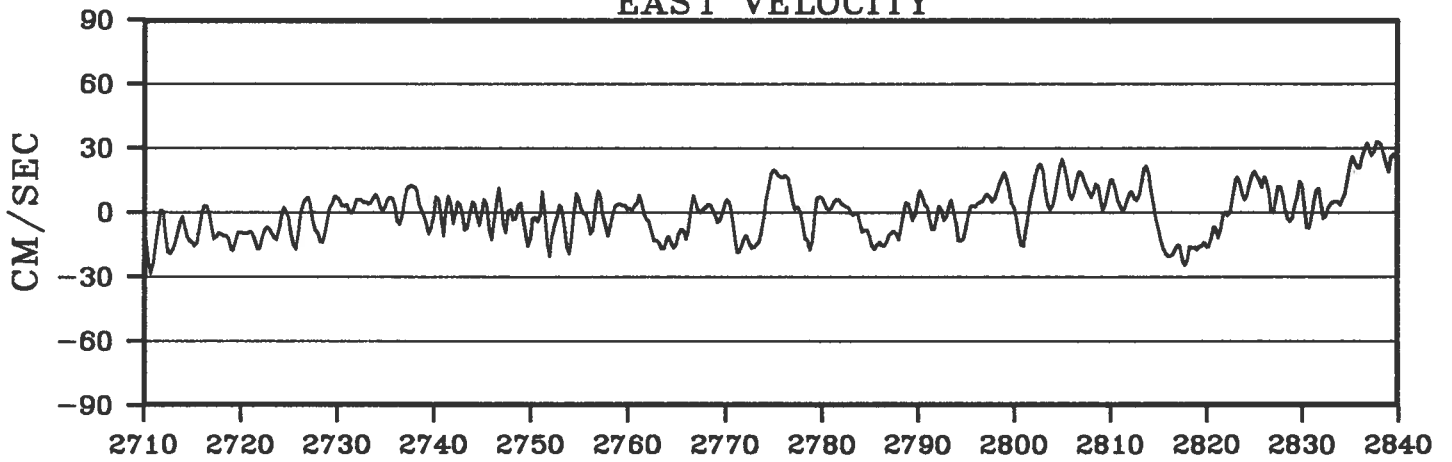


BUOY 2093

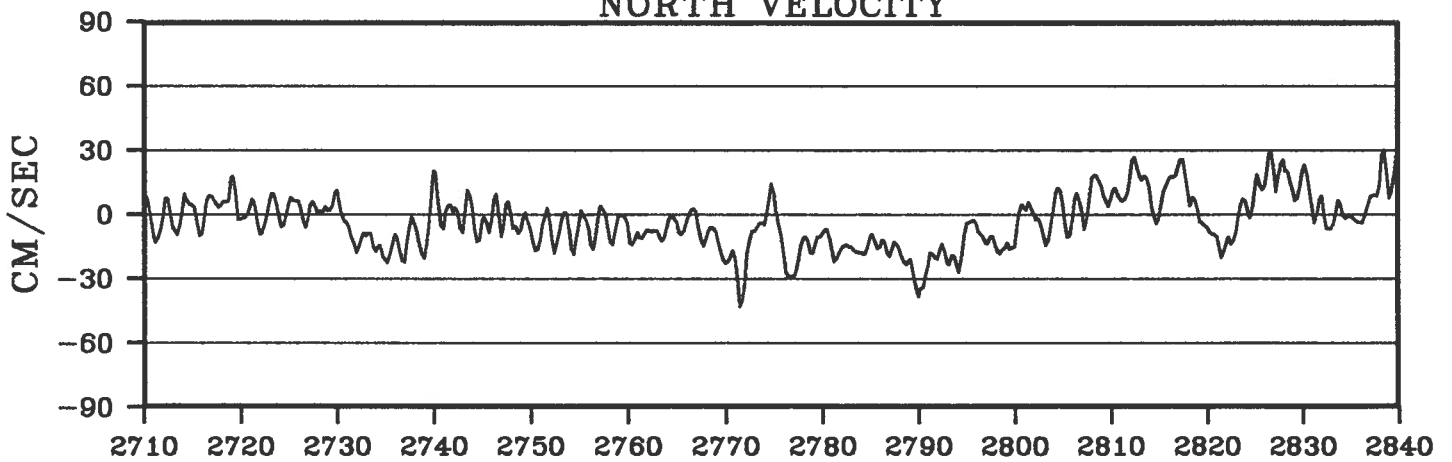


BUOY 2093

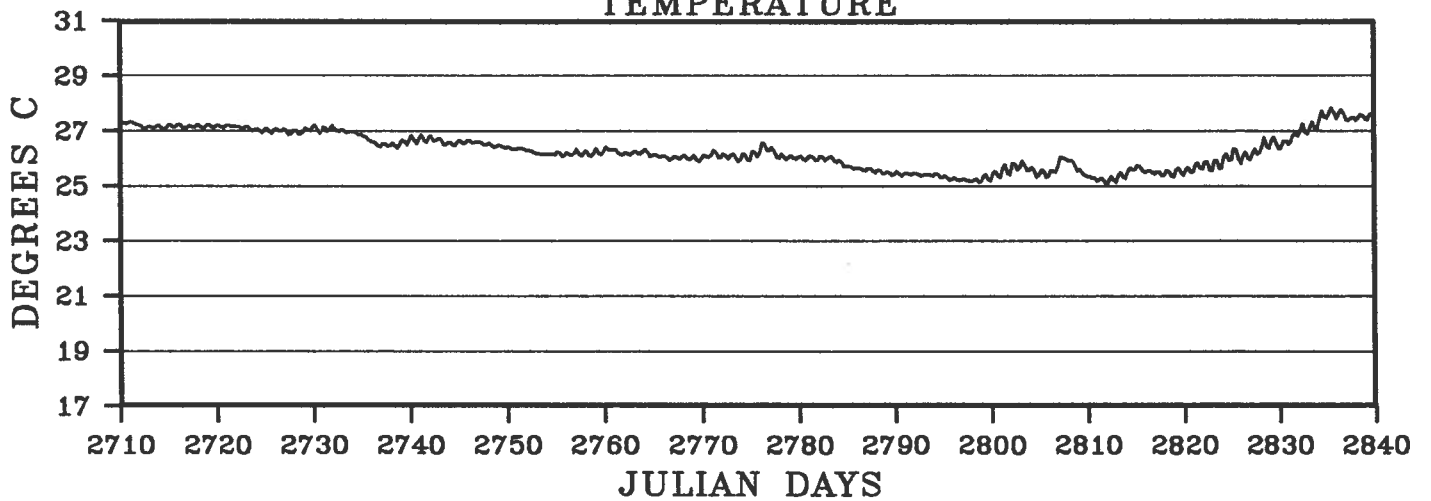
EAST VELOCITY



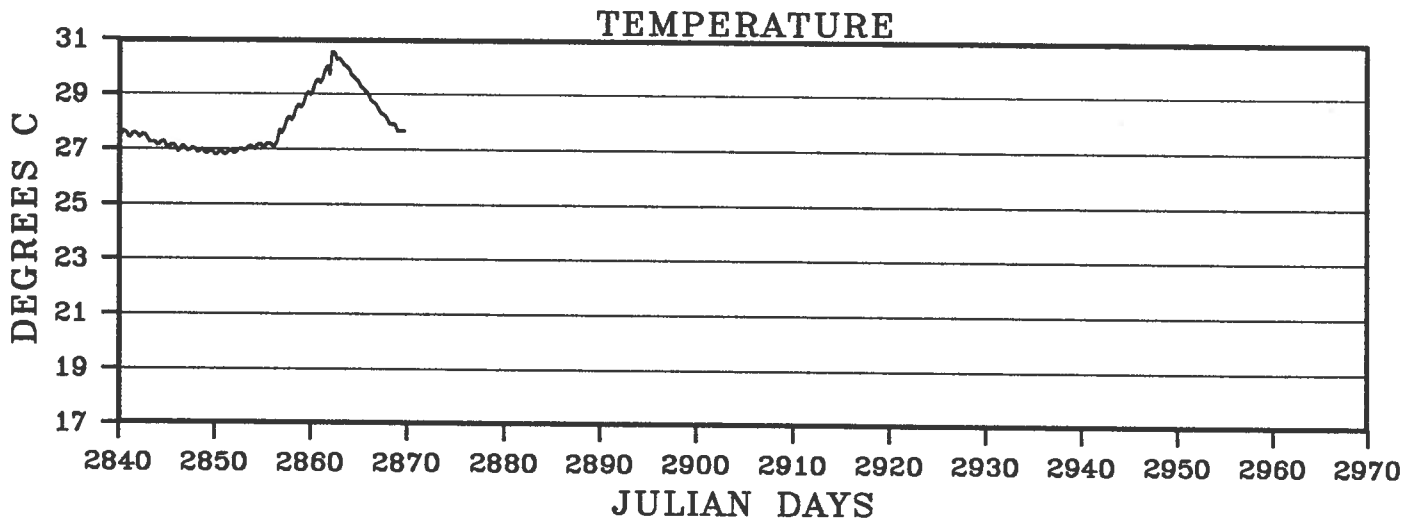
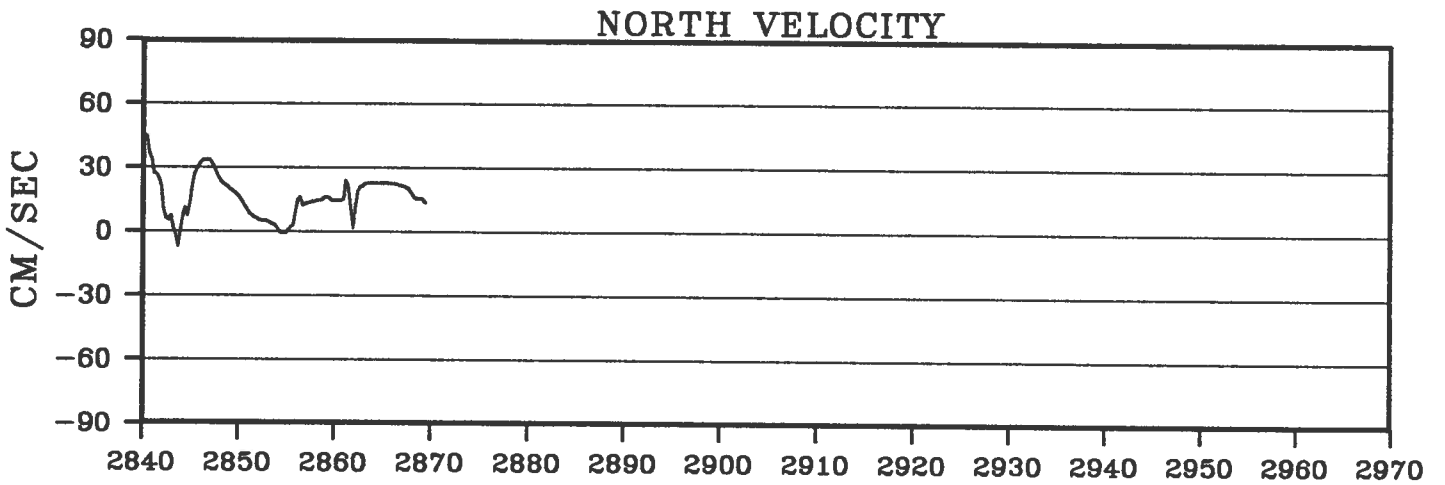
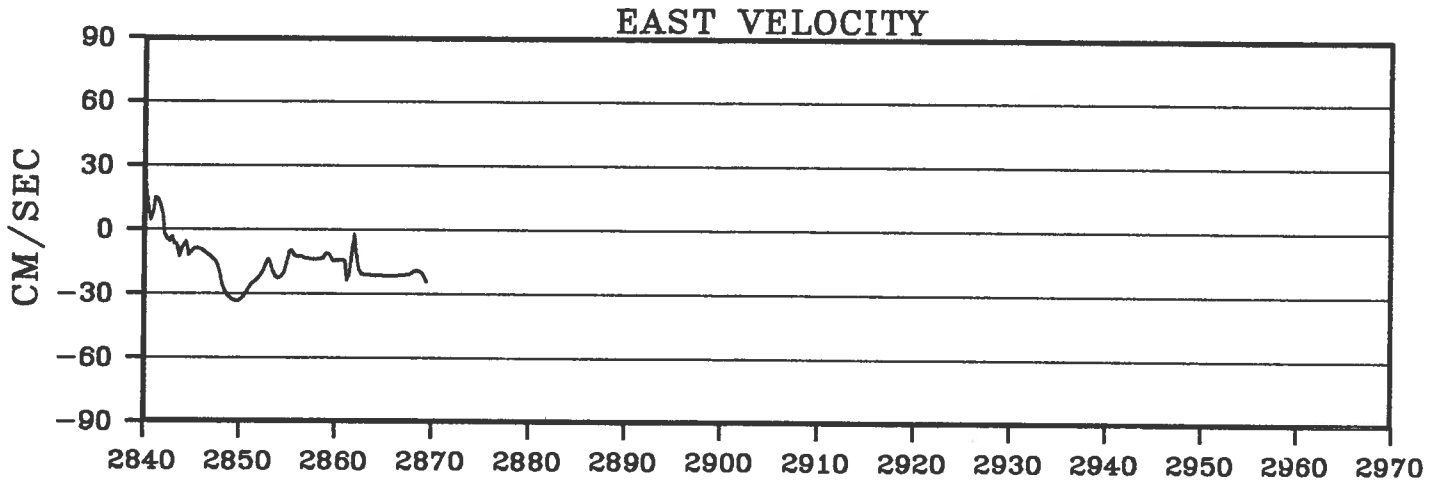
NORTH VELOCITY



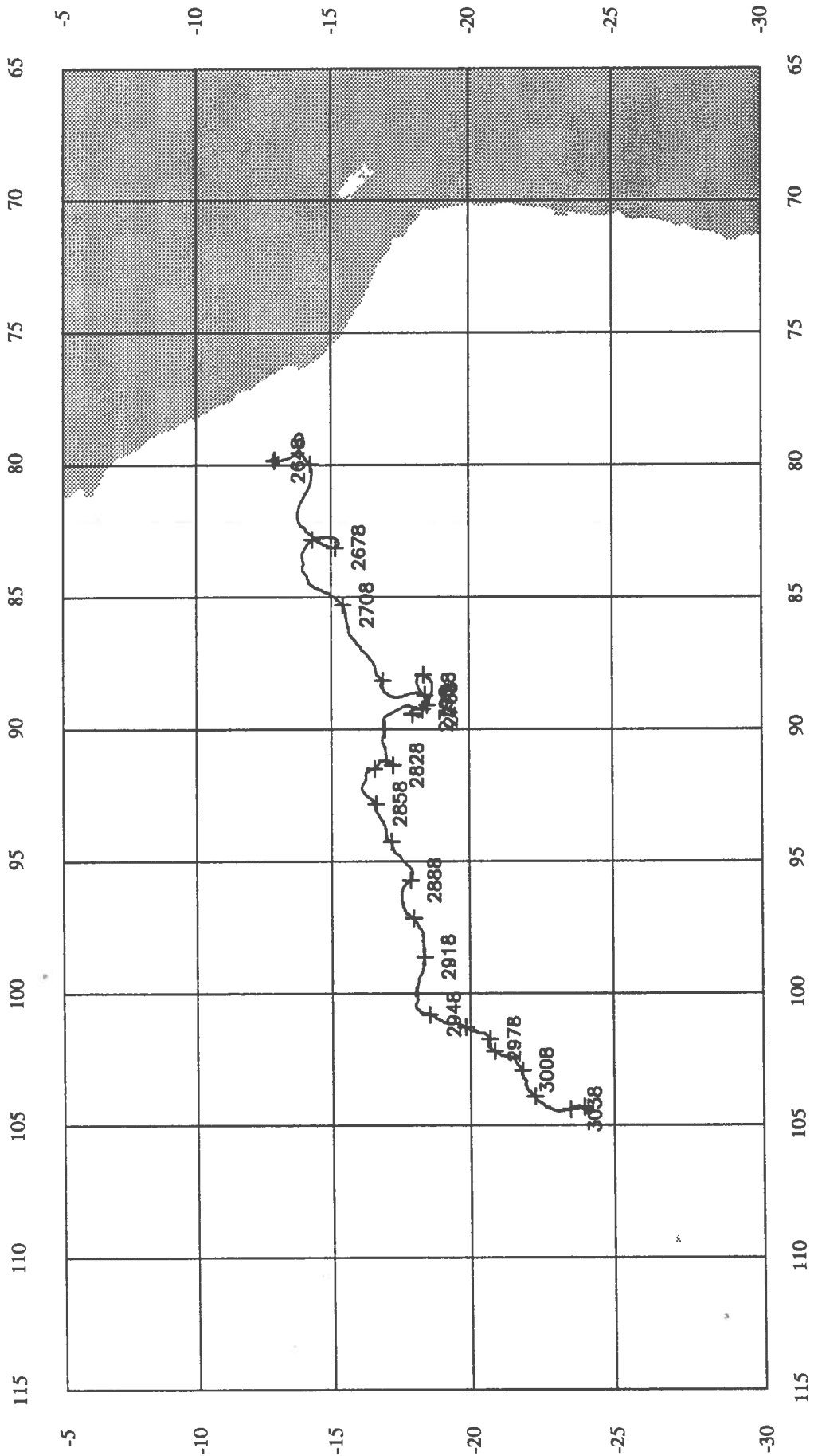
TEMPERATURE



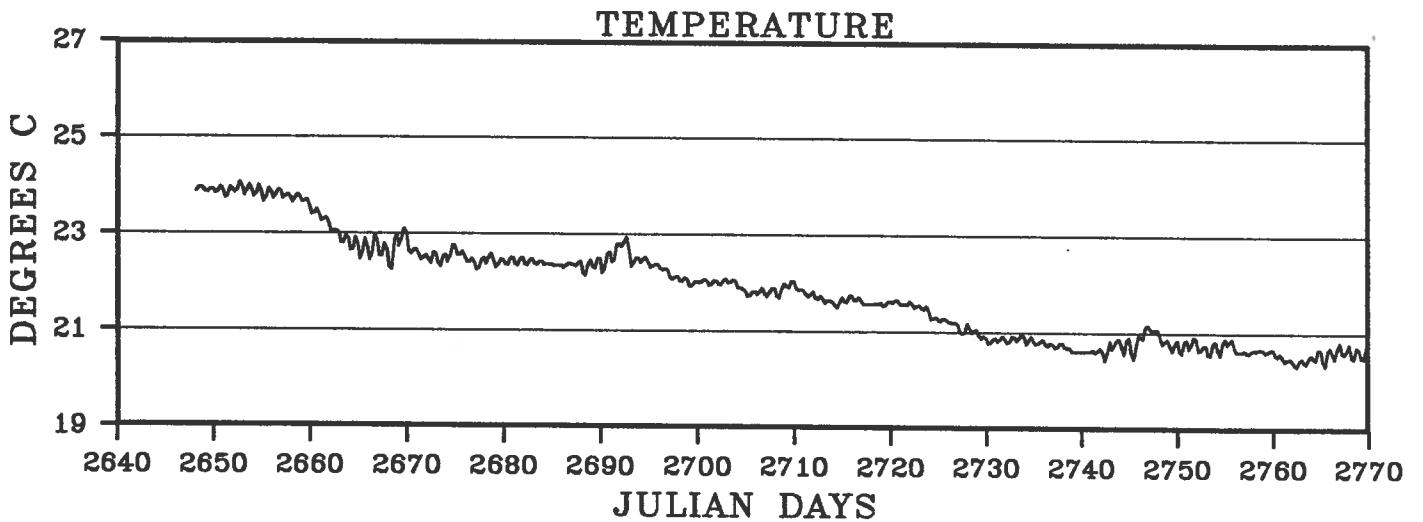
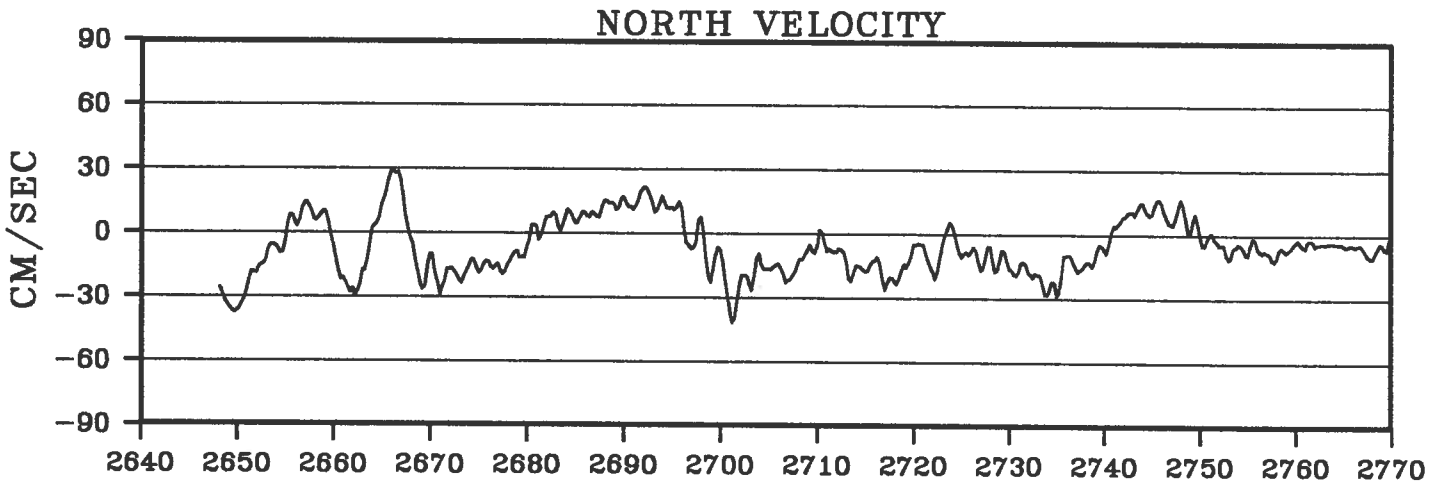
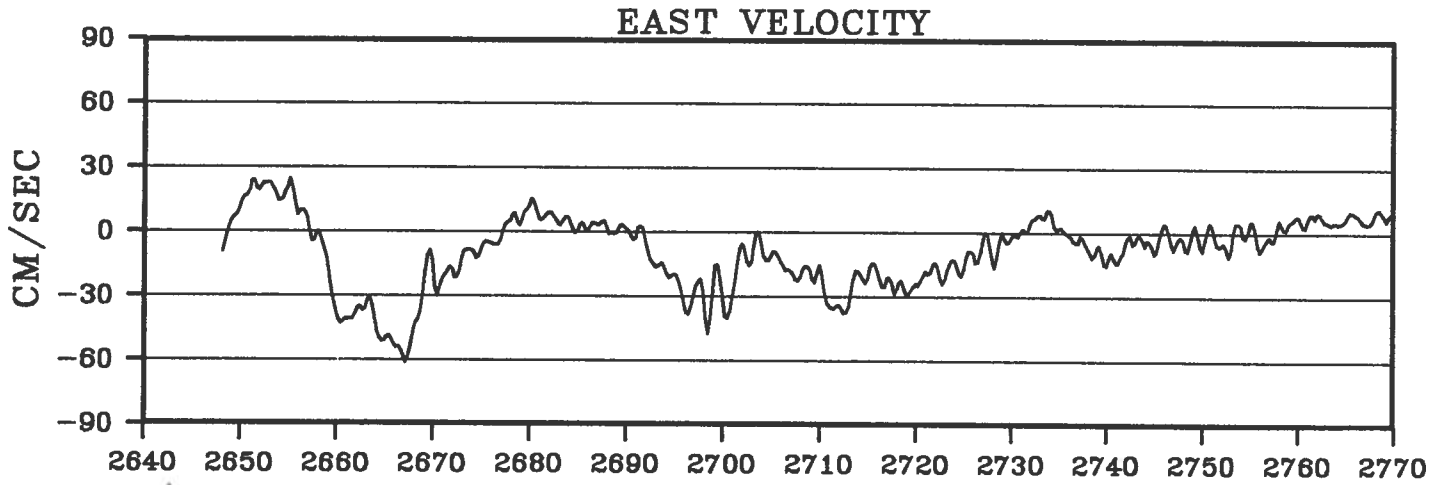
BUOY 2093



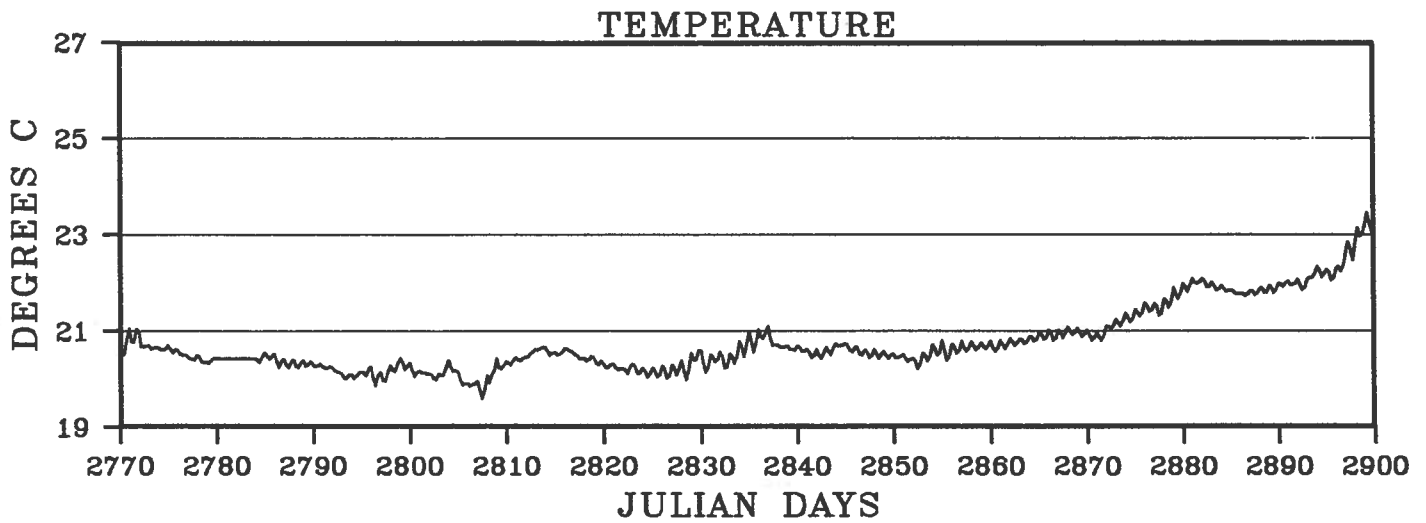
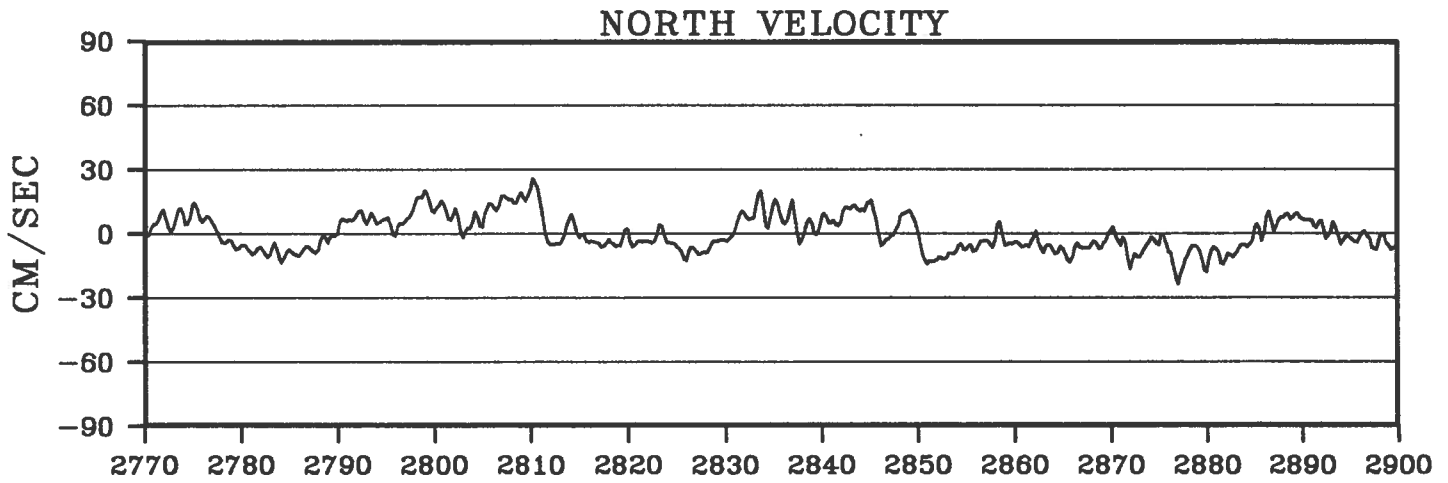
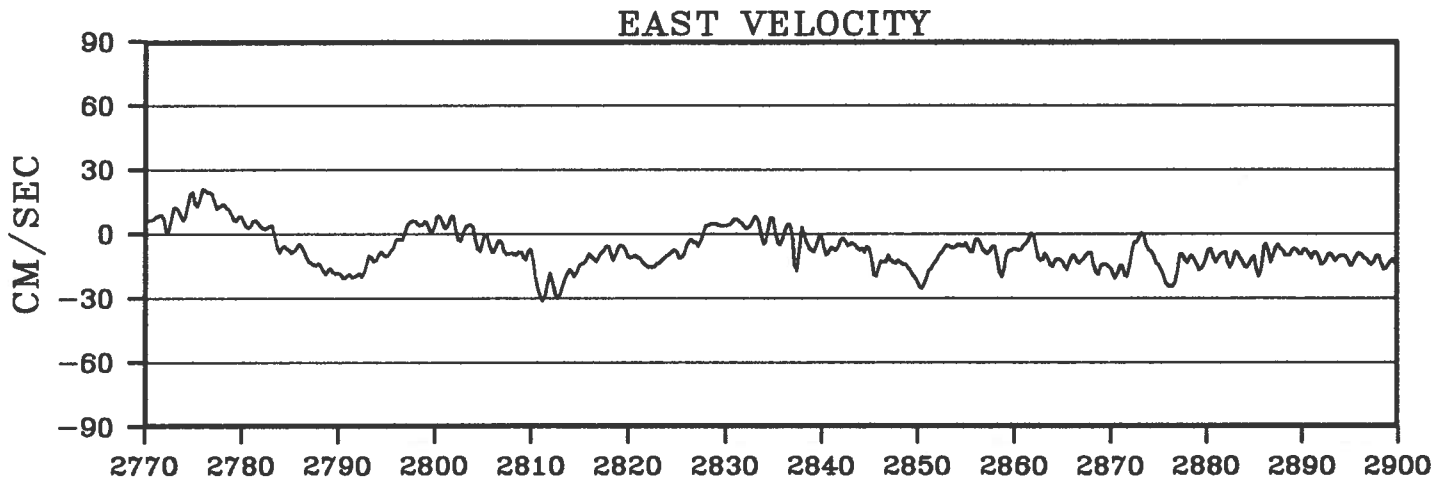
BUOY 2094



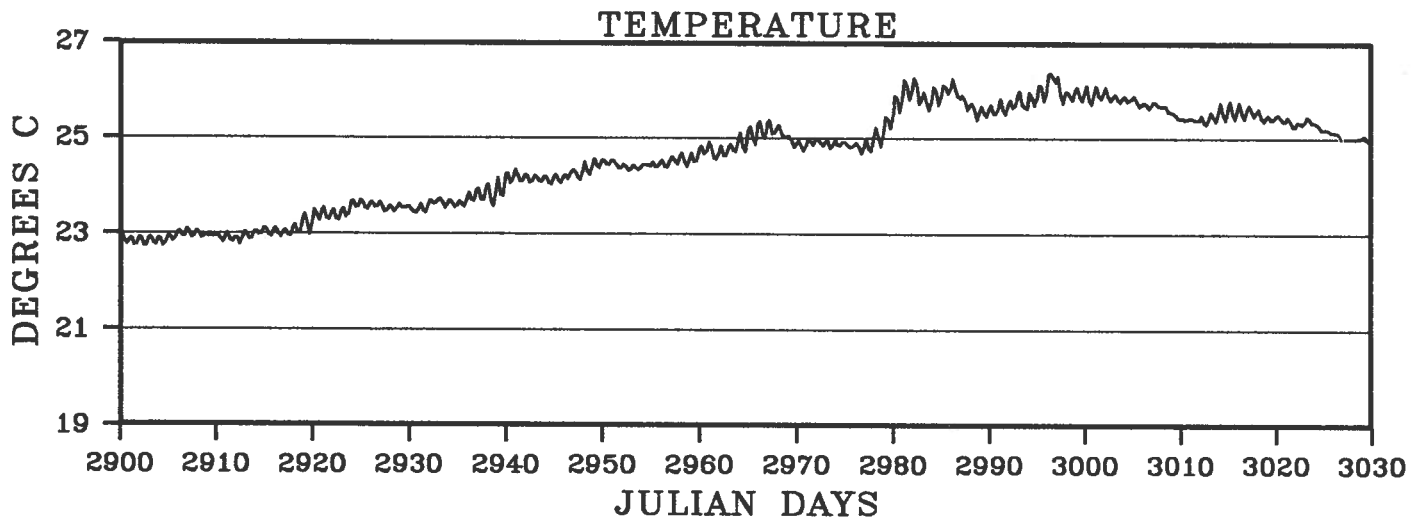
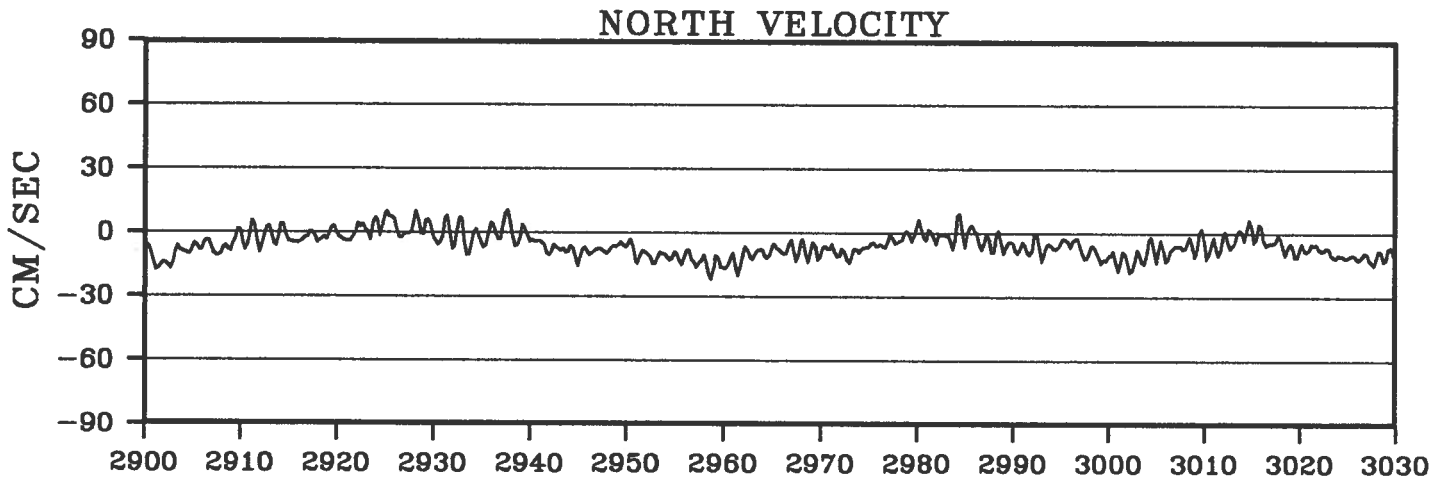
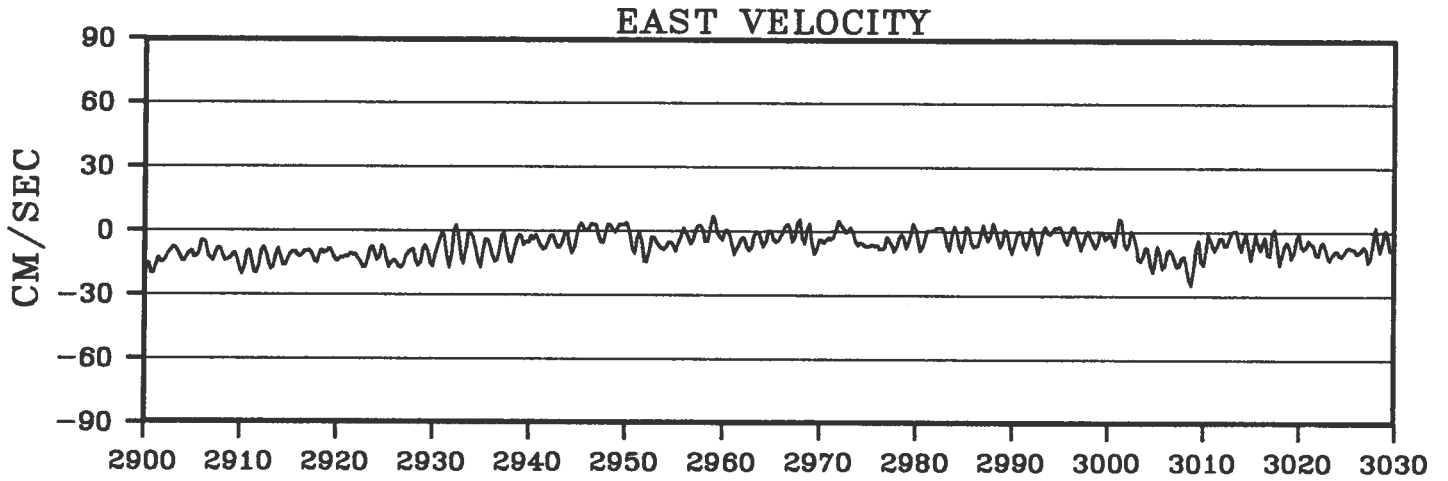
BUOY 2094



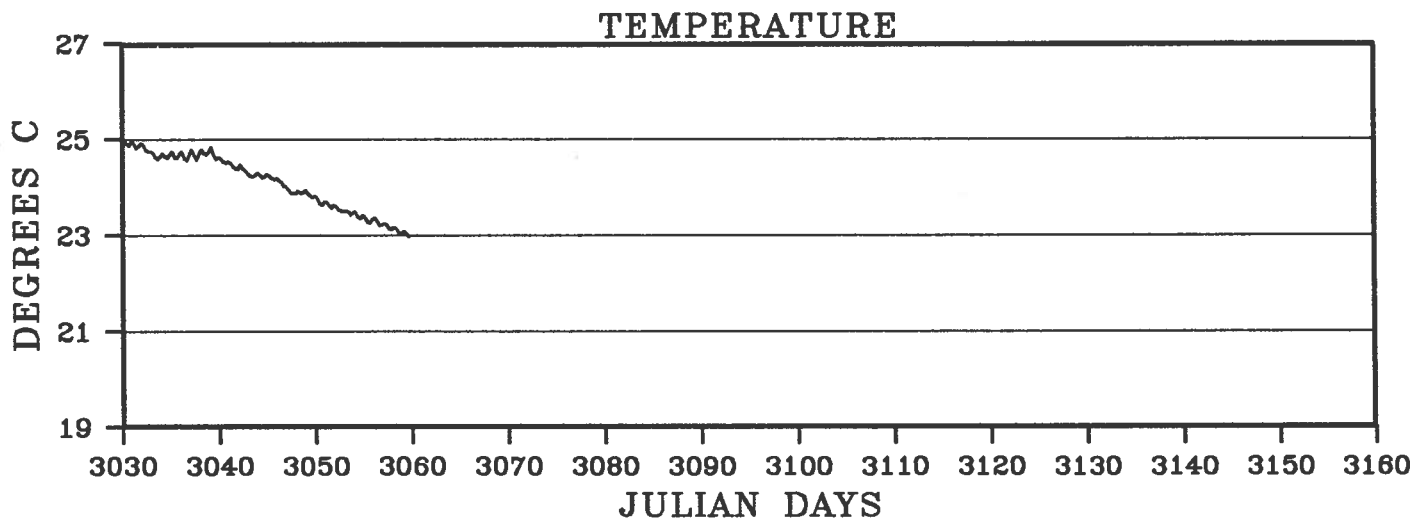
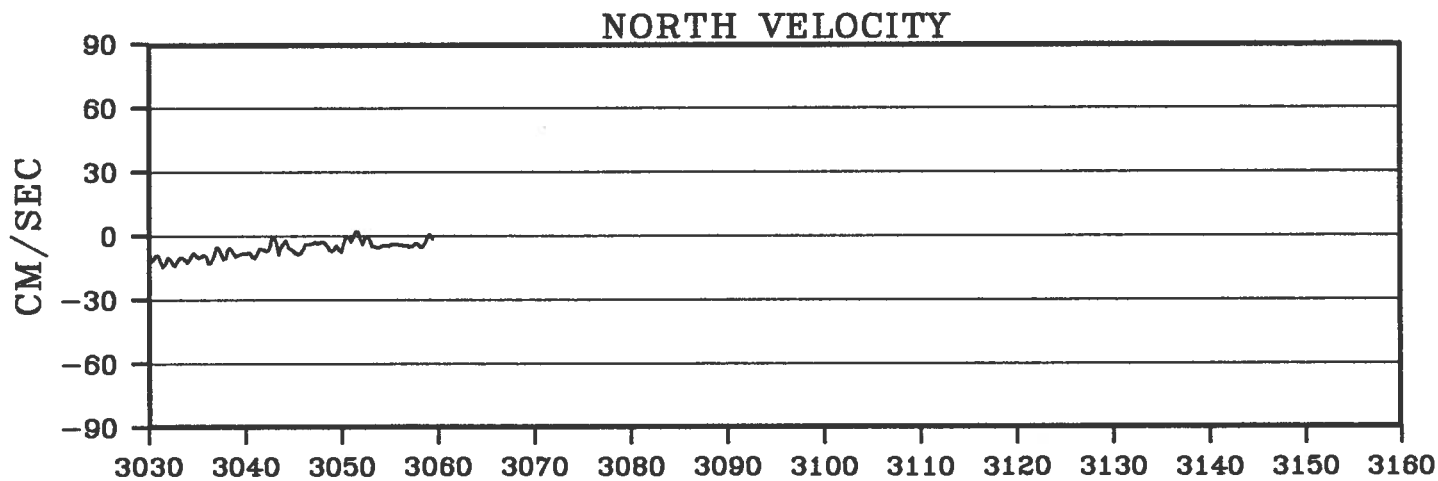
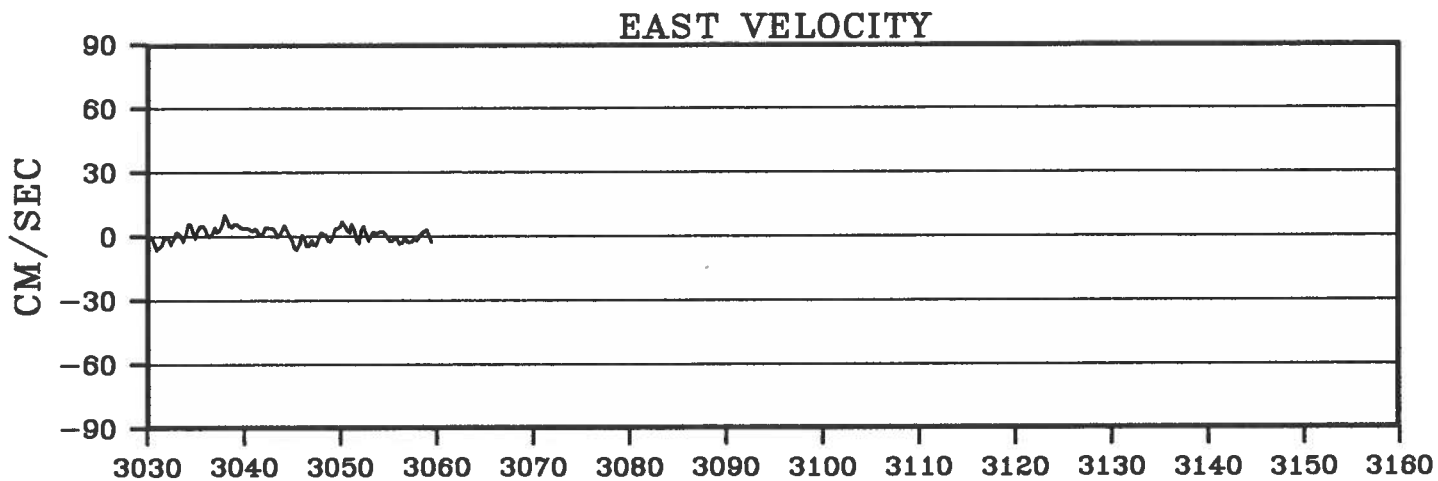
BUOY 2094



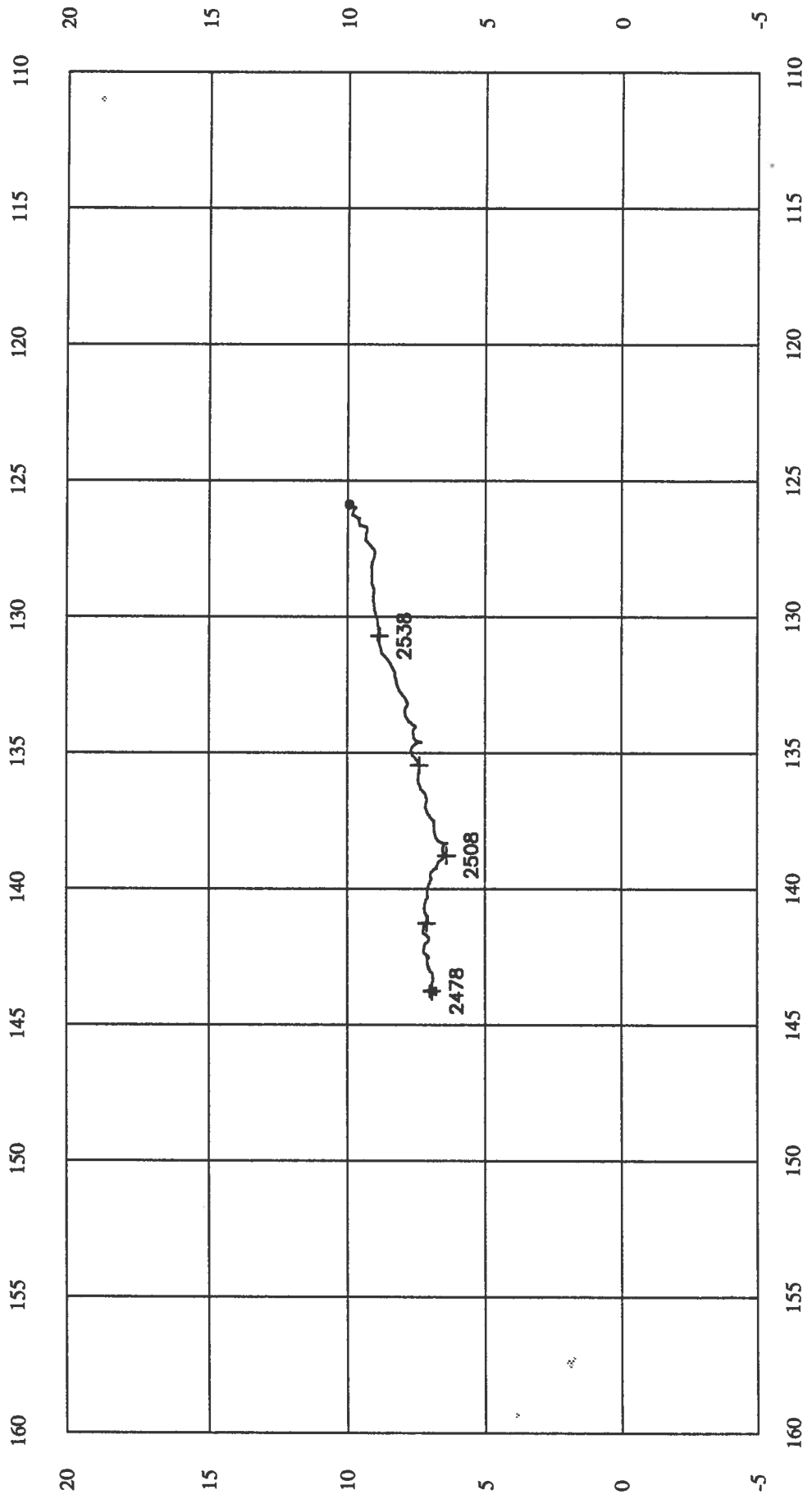
BUOY 2094



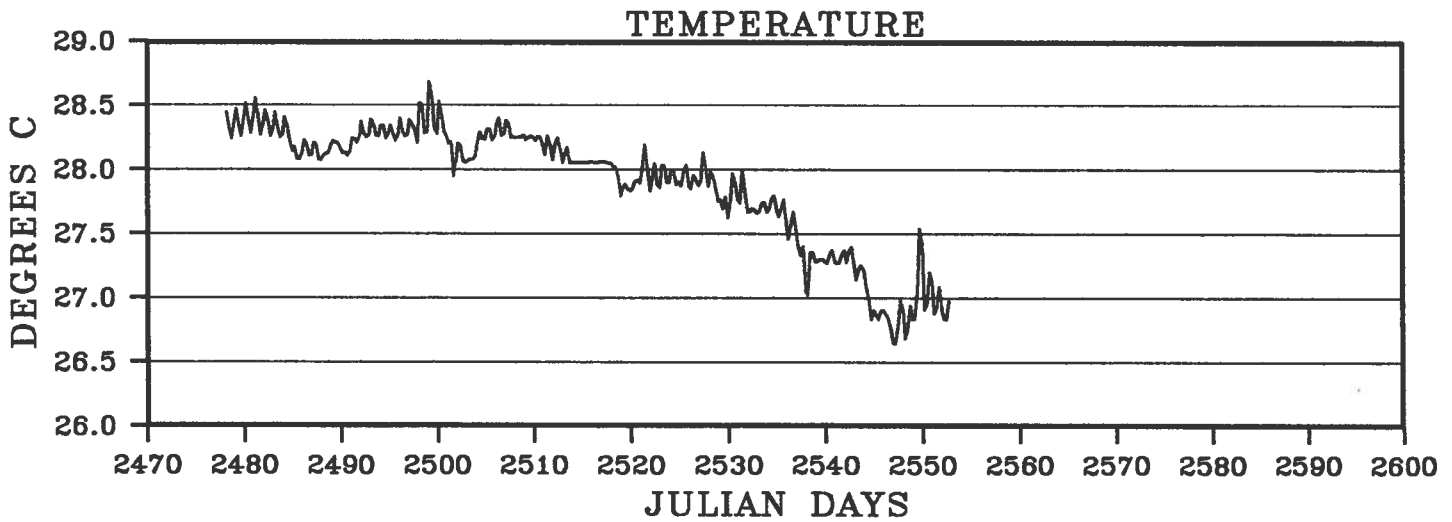
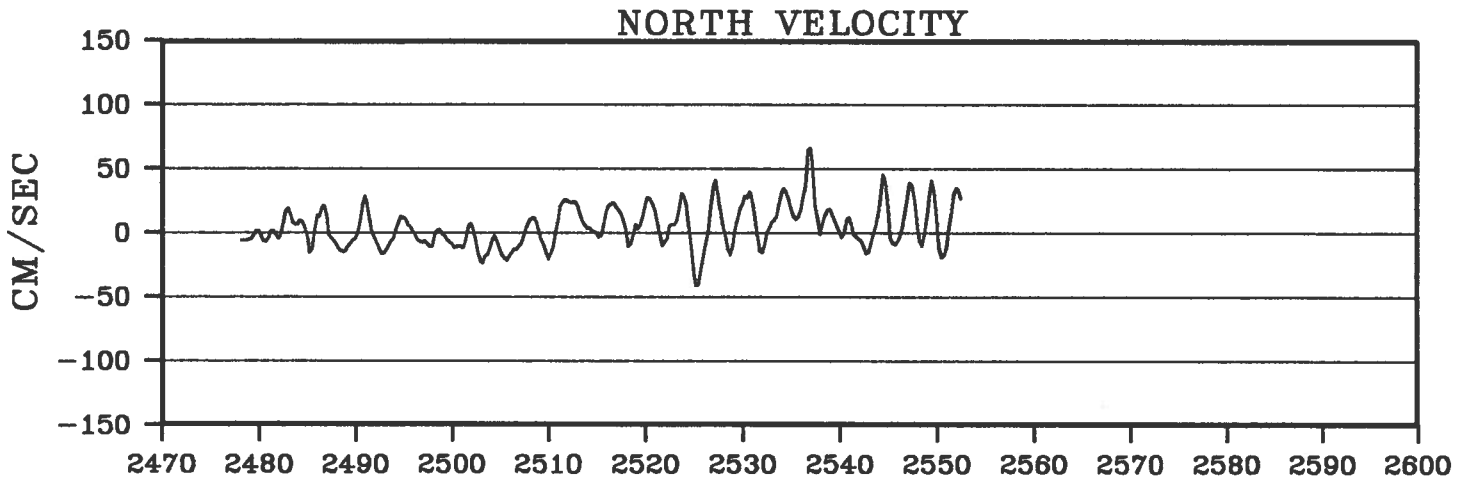
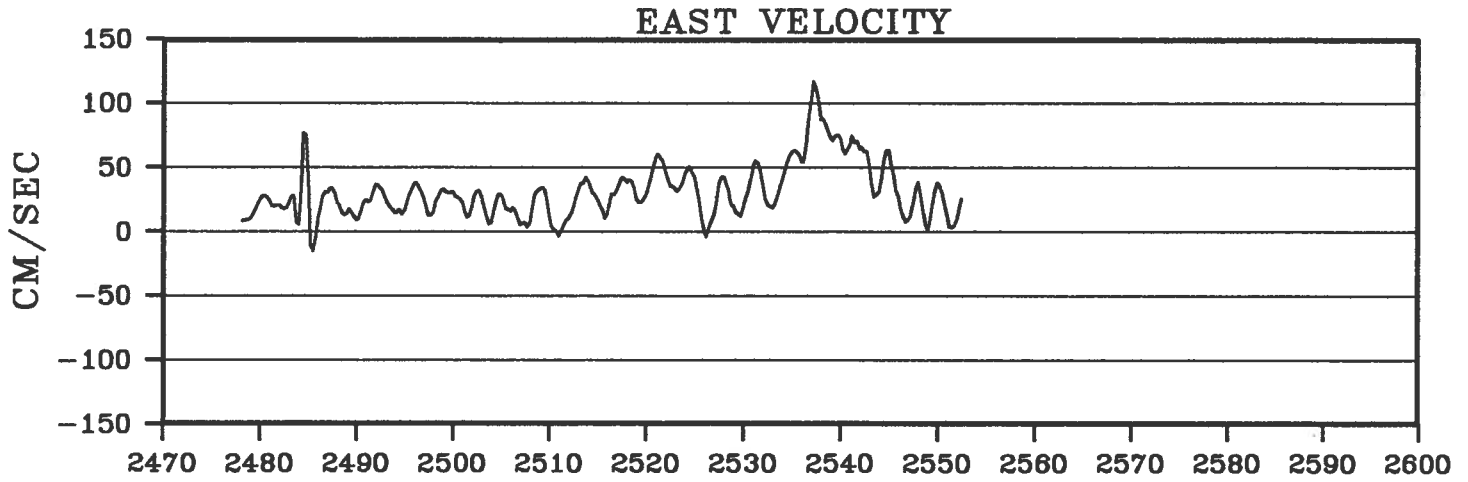
BUOY 2094



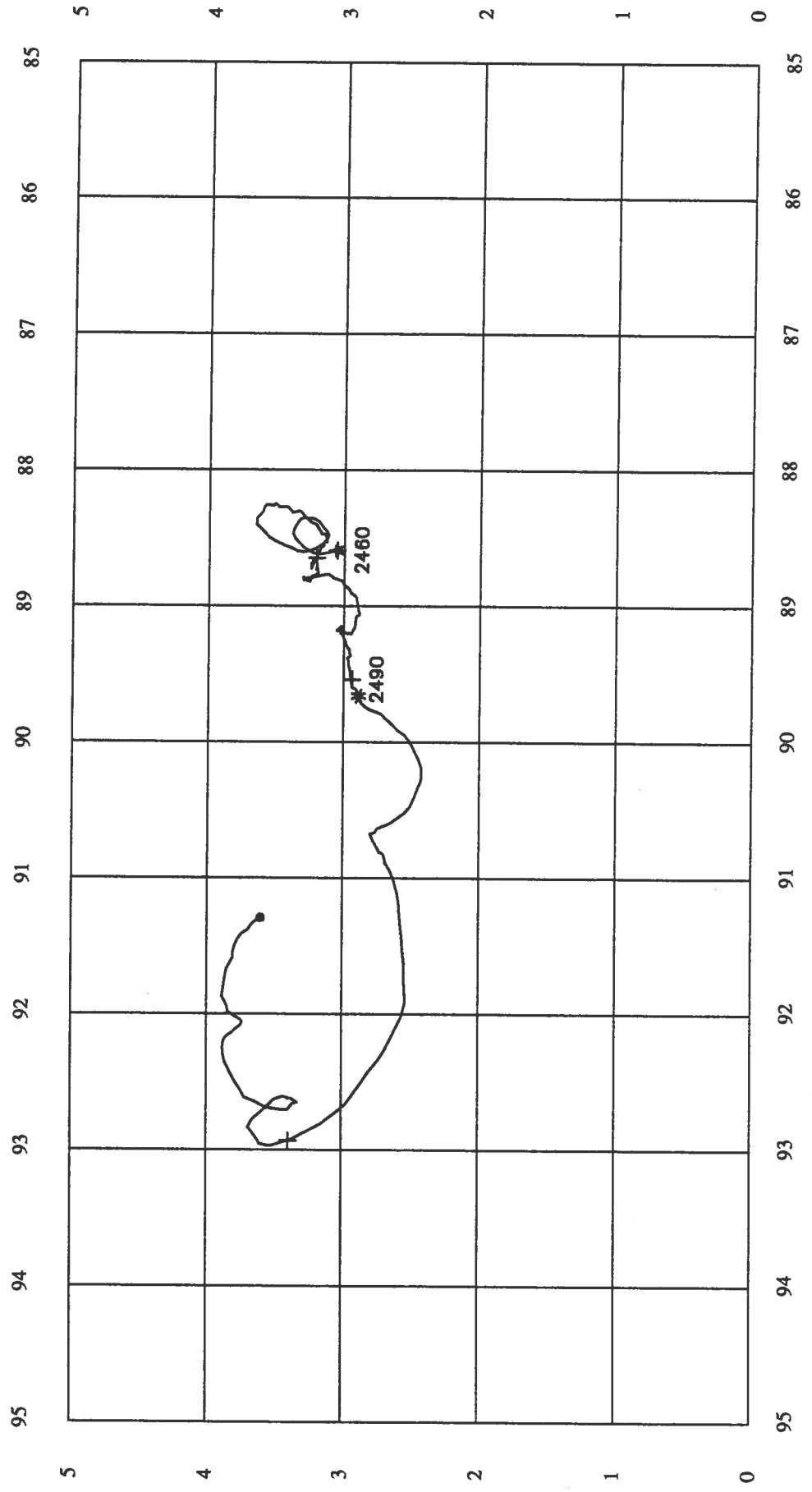
BUOY 2095



BUOY 2095

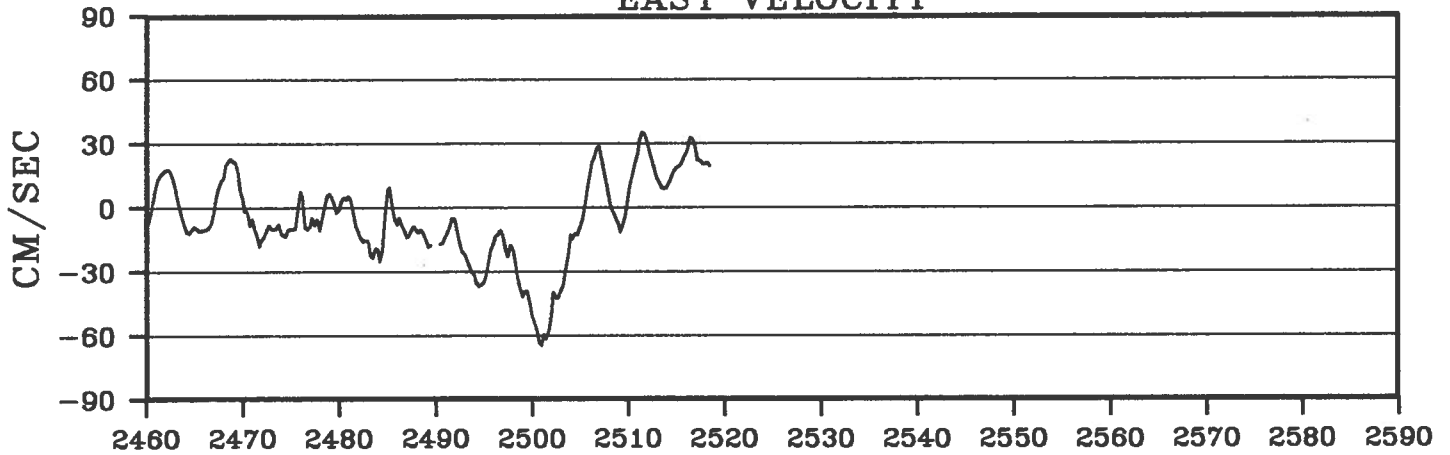


BUOY 2096

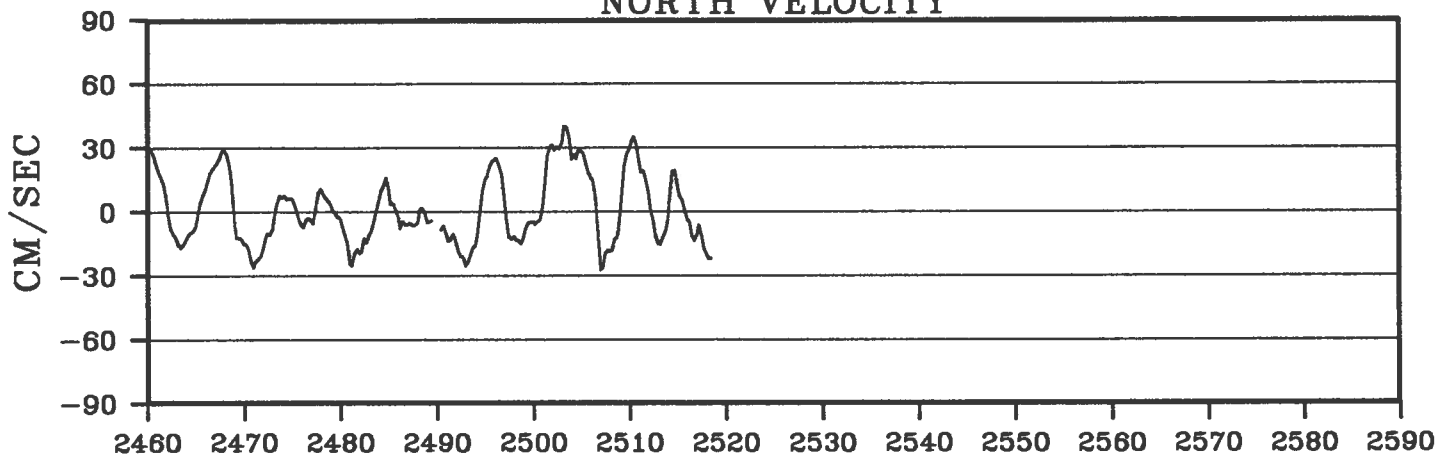


BUOY 2096

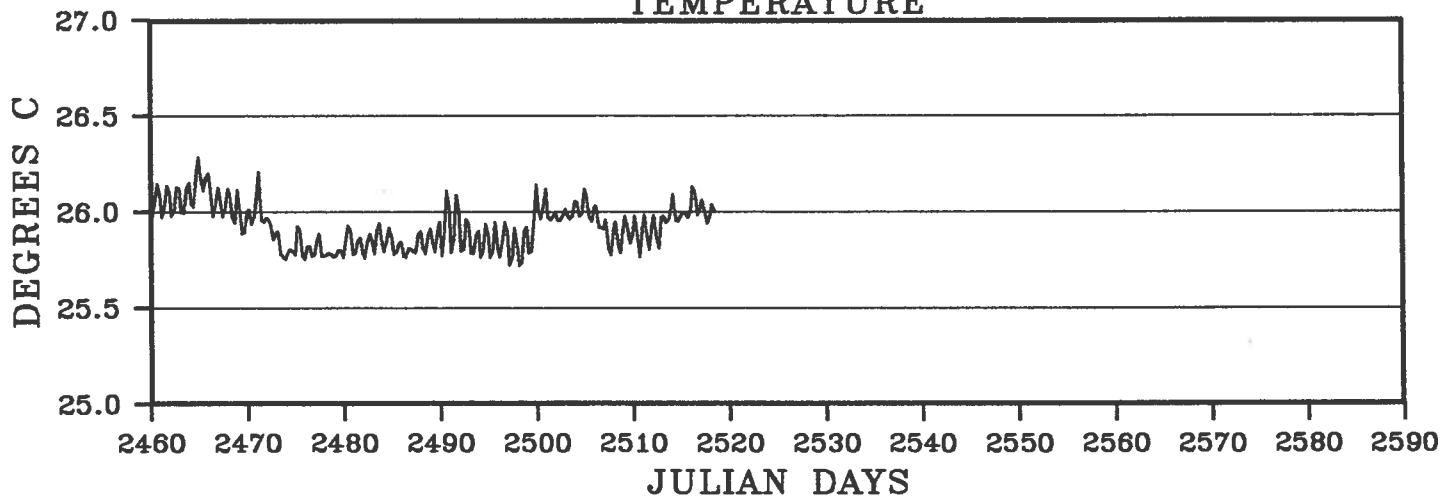
EAST VELOCITY



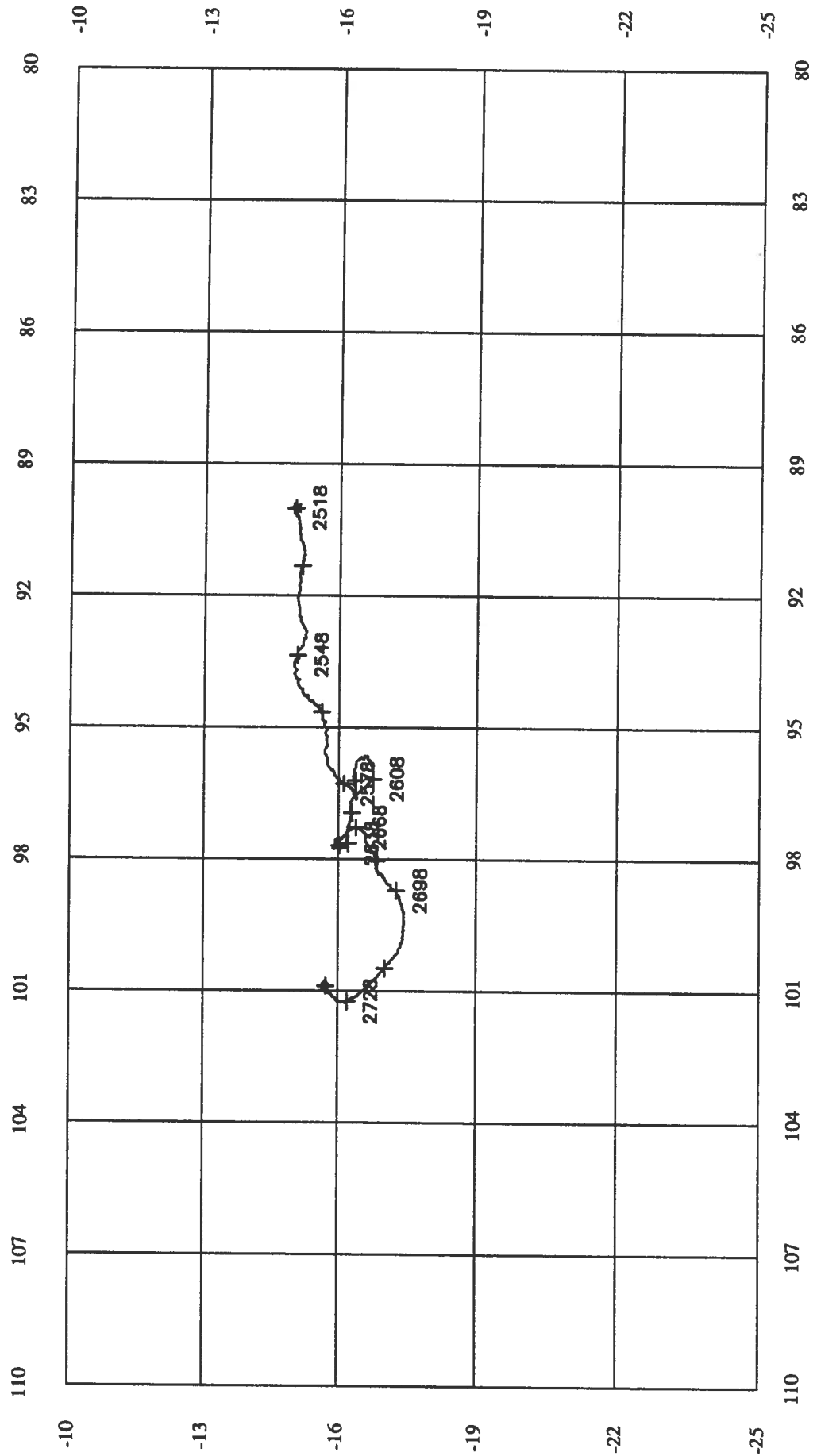
NORTH VELOCITY



TEMPERATURE

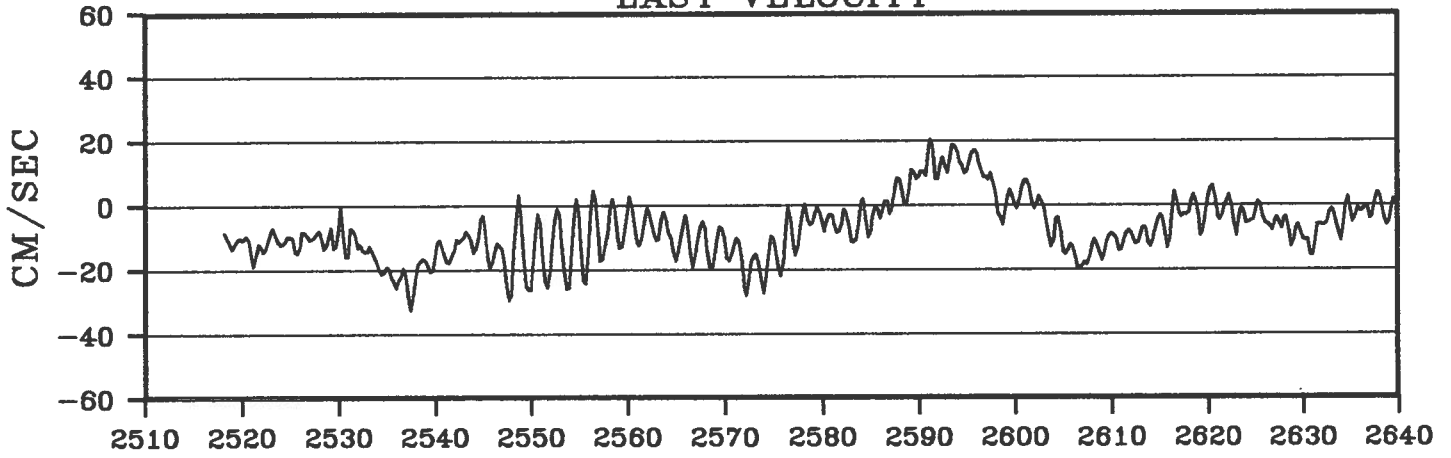


BUOY 2097

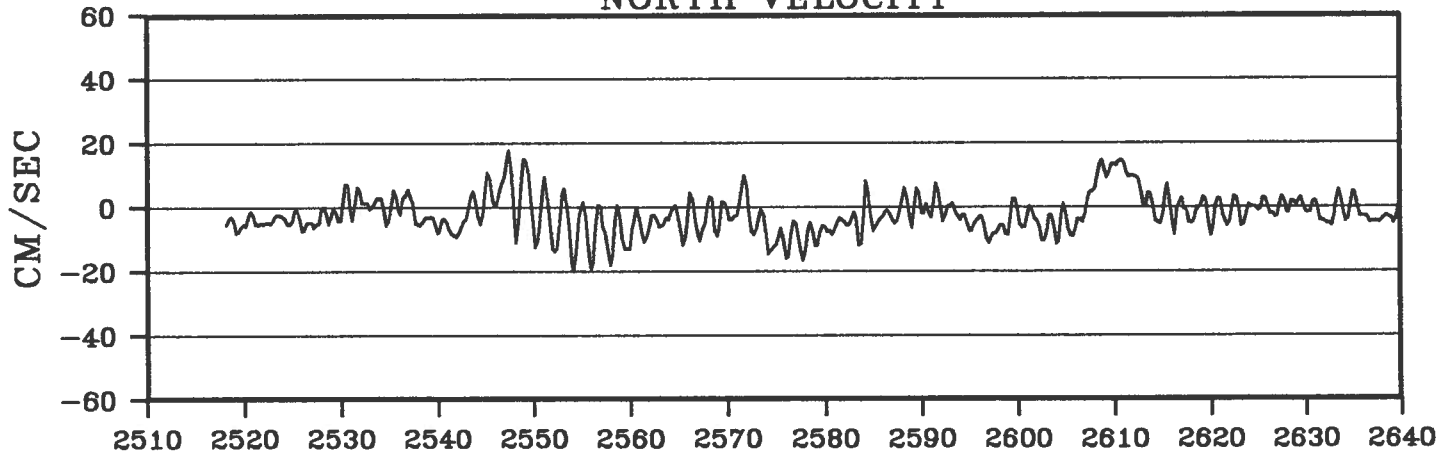


BUOY 2097

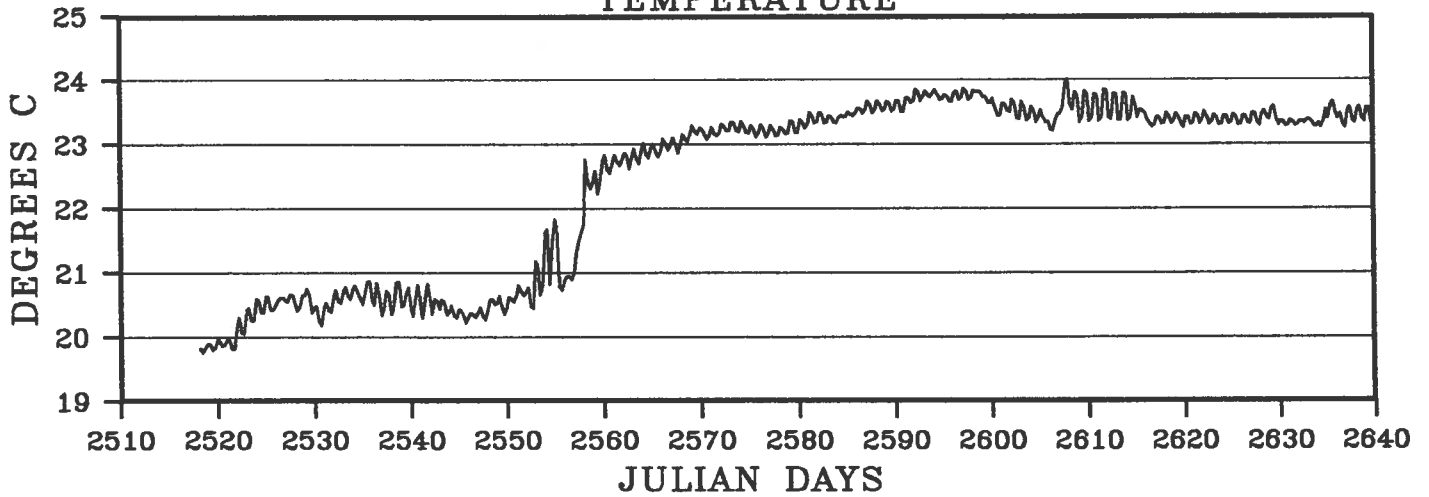
EAST VELOCITY



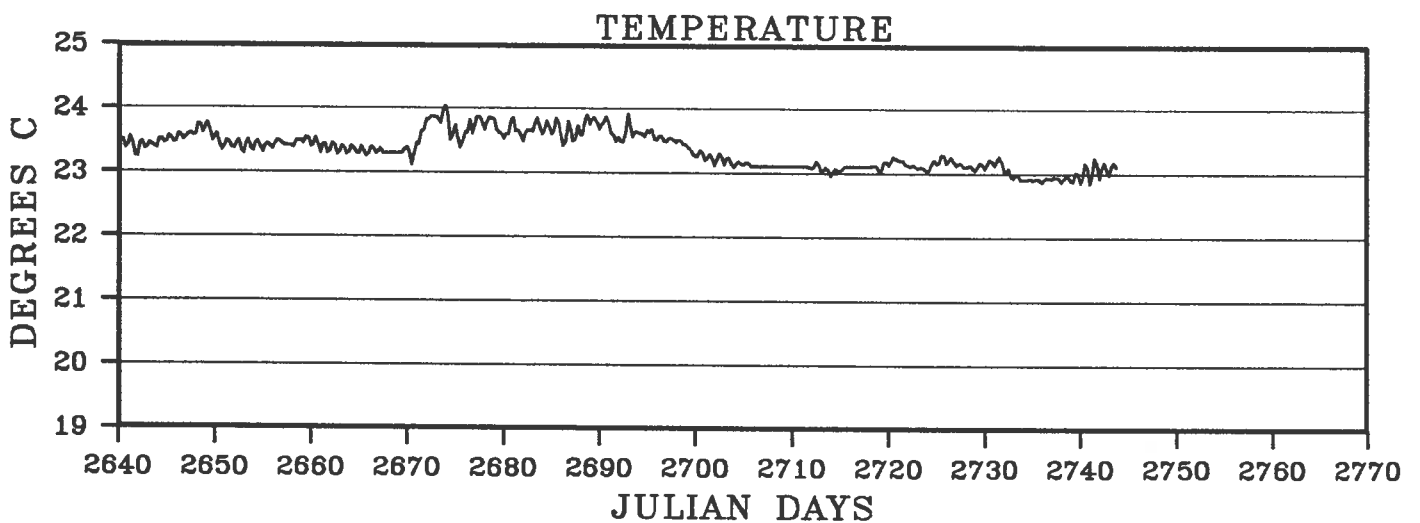
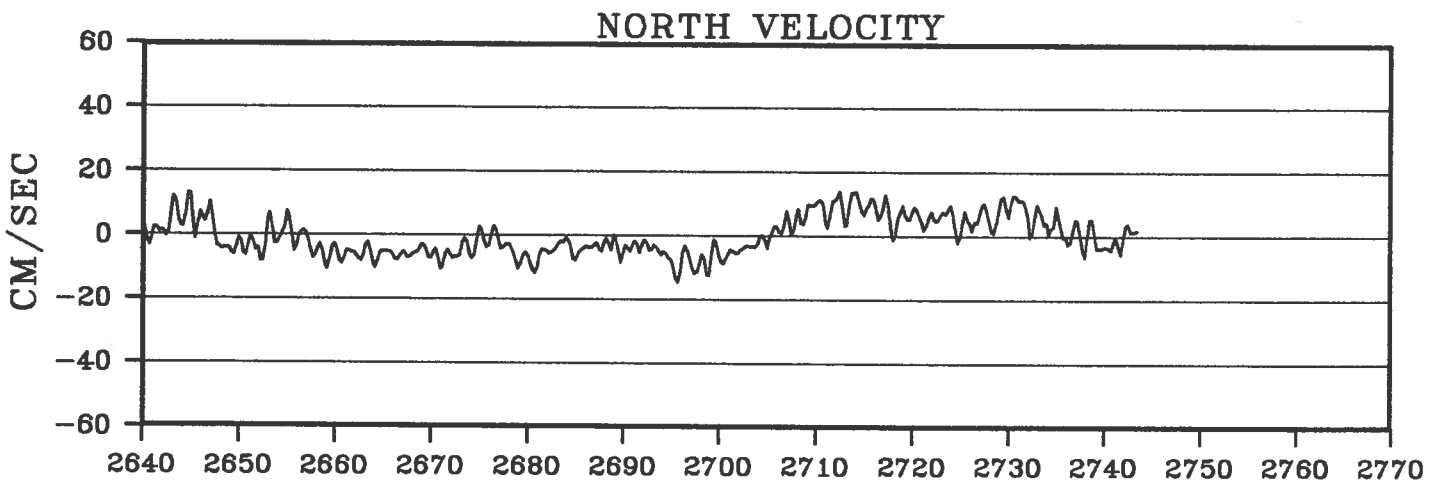
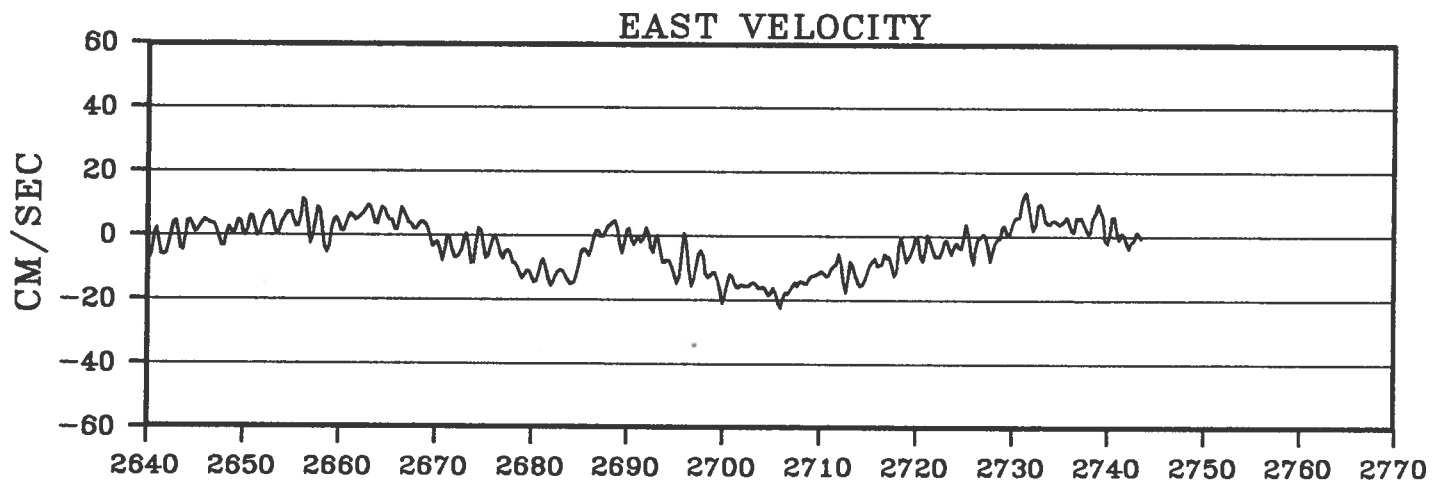
NORTH VELOCITY



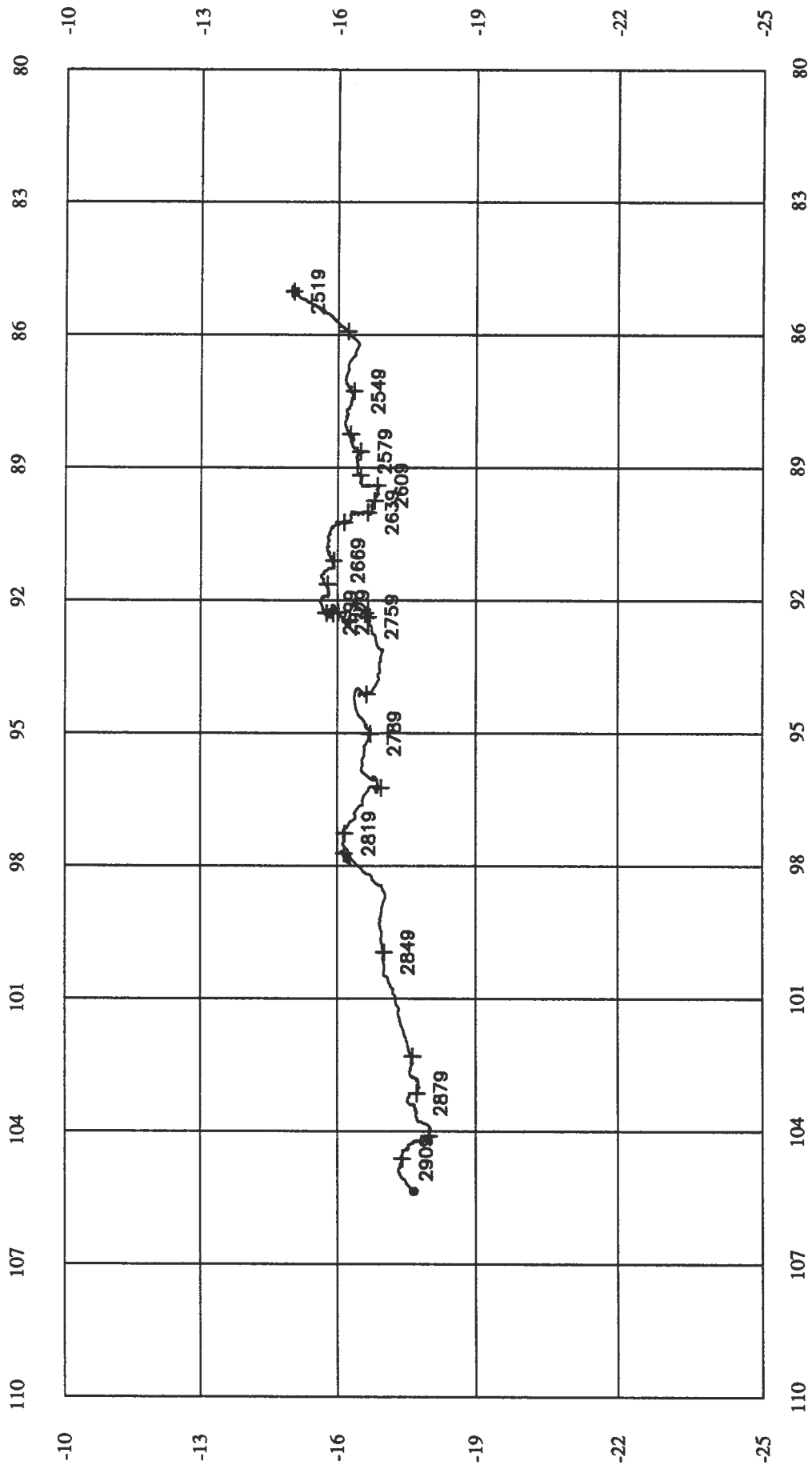
TEMPERATURE



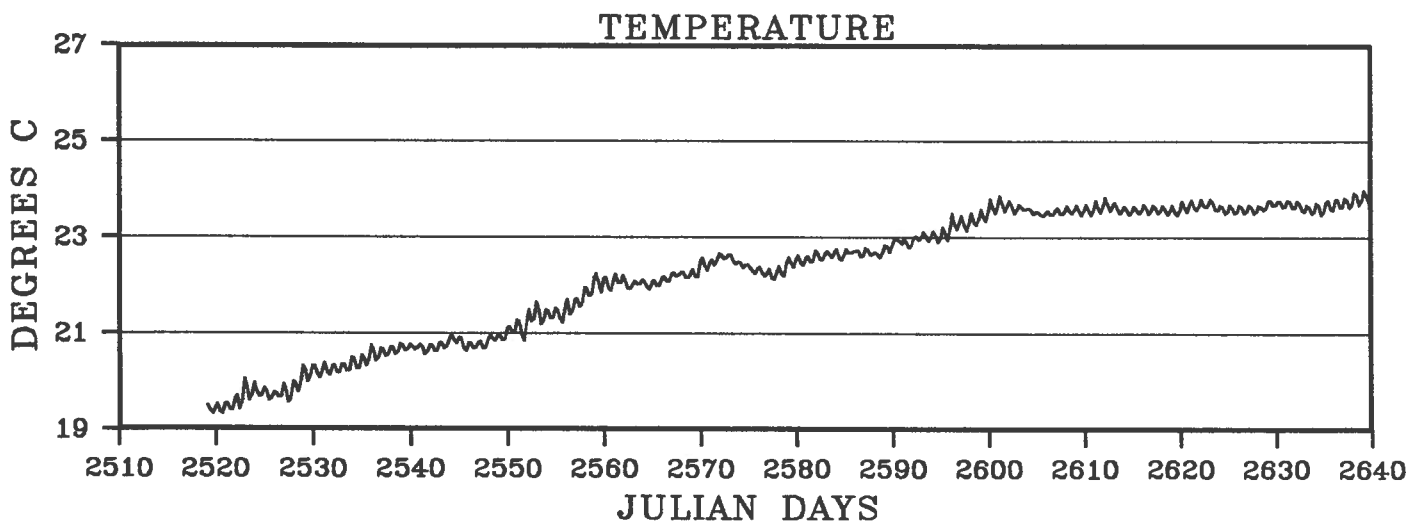
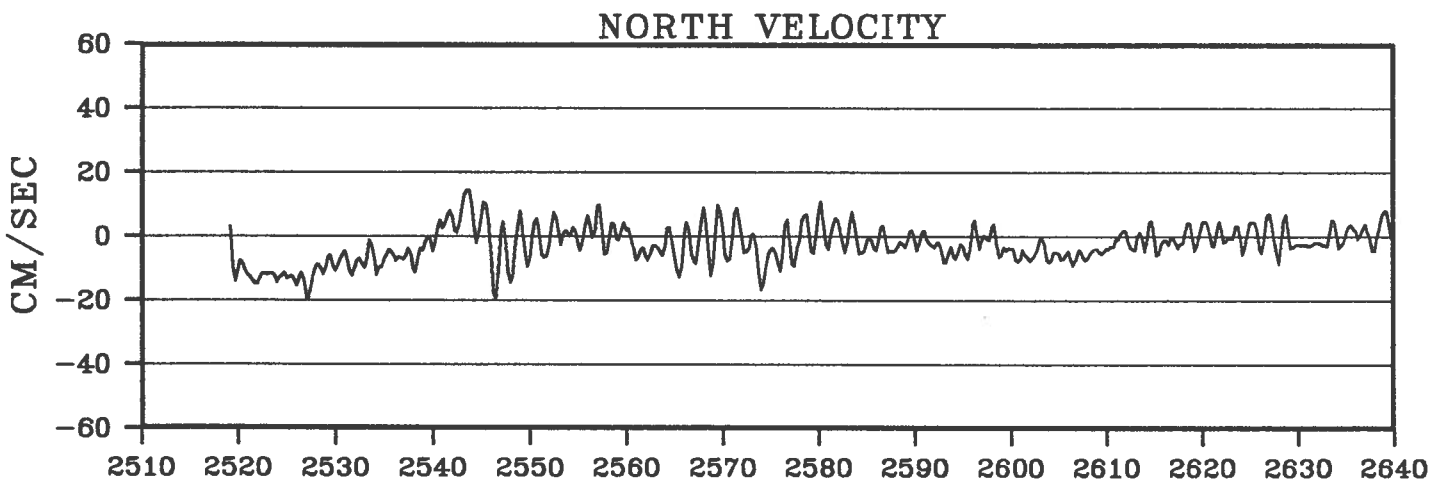
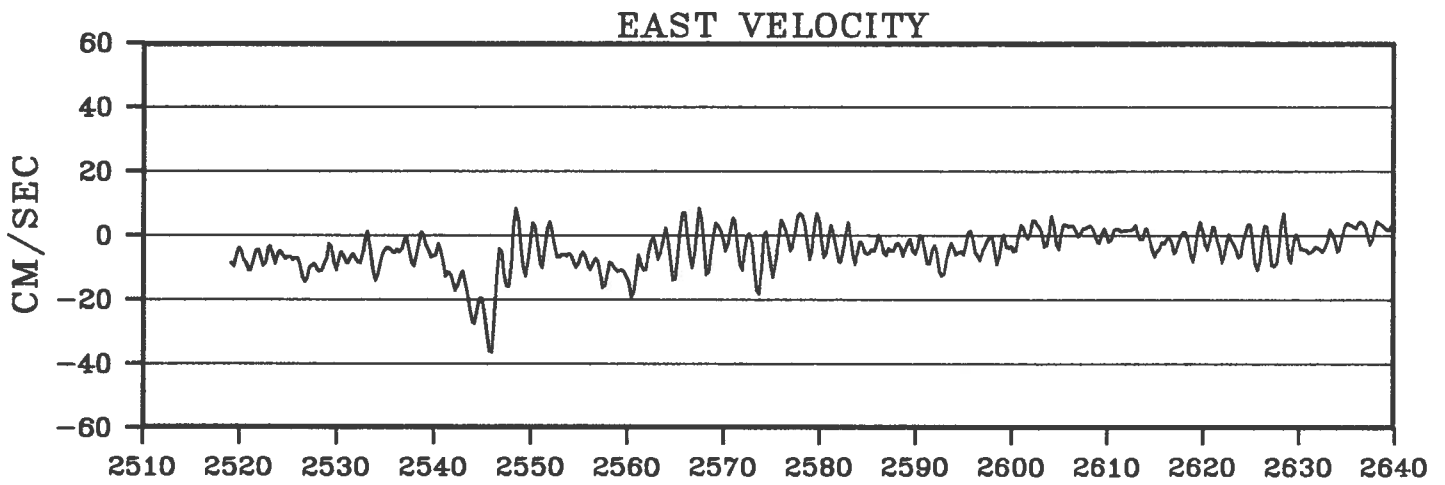
BUOY 2097



BUOY 2098

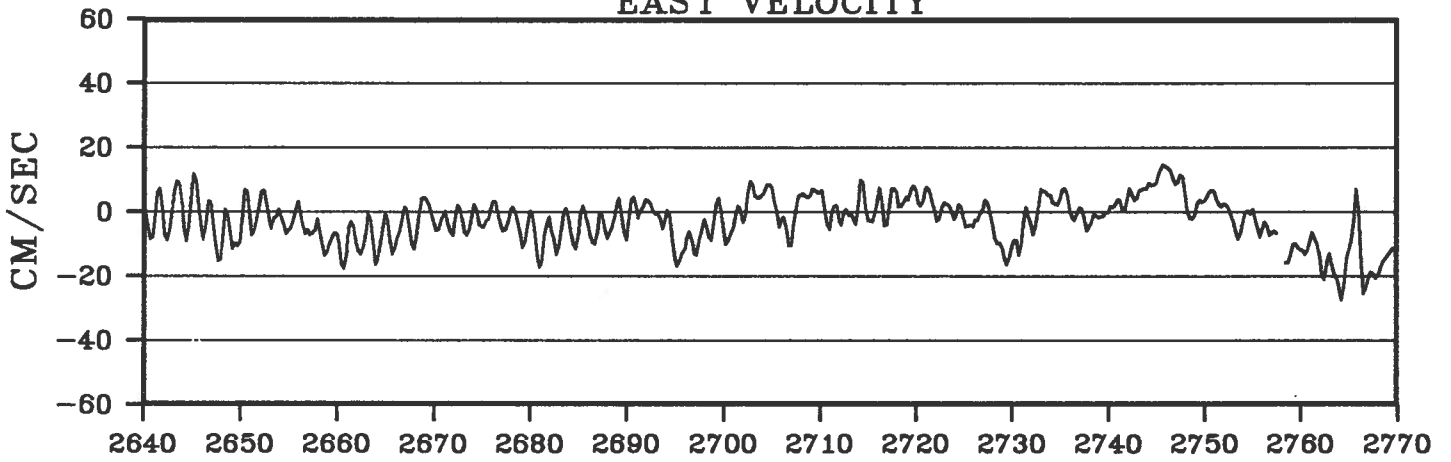


BUOY 2098

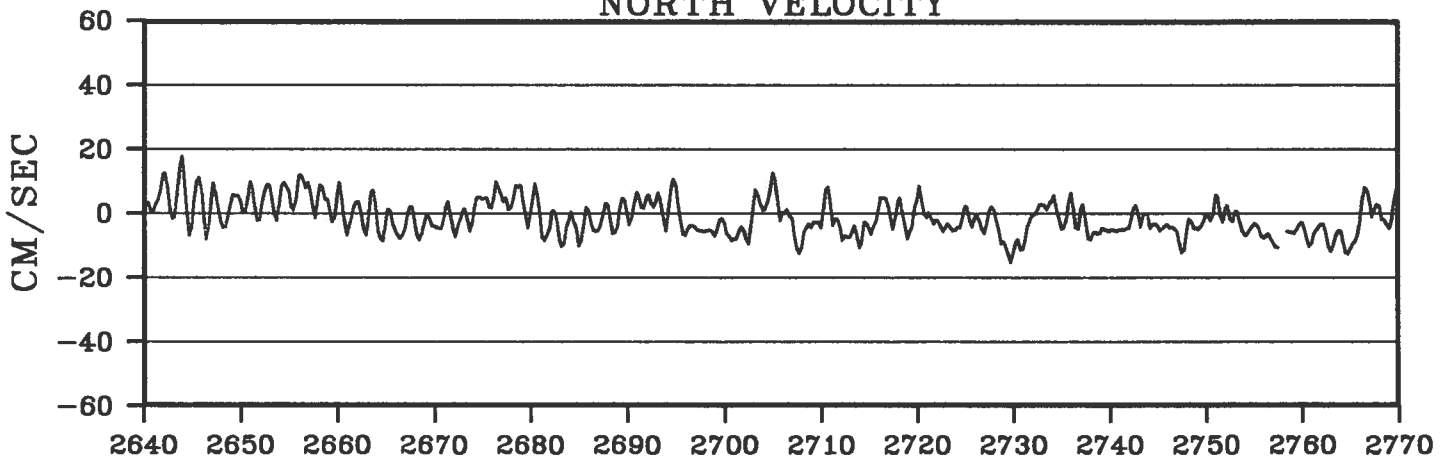


BUOY 2098

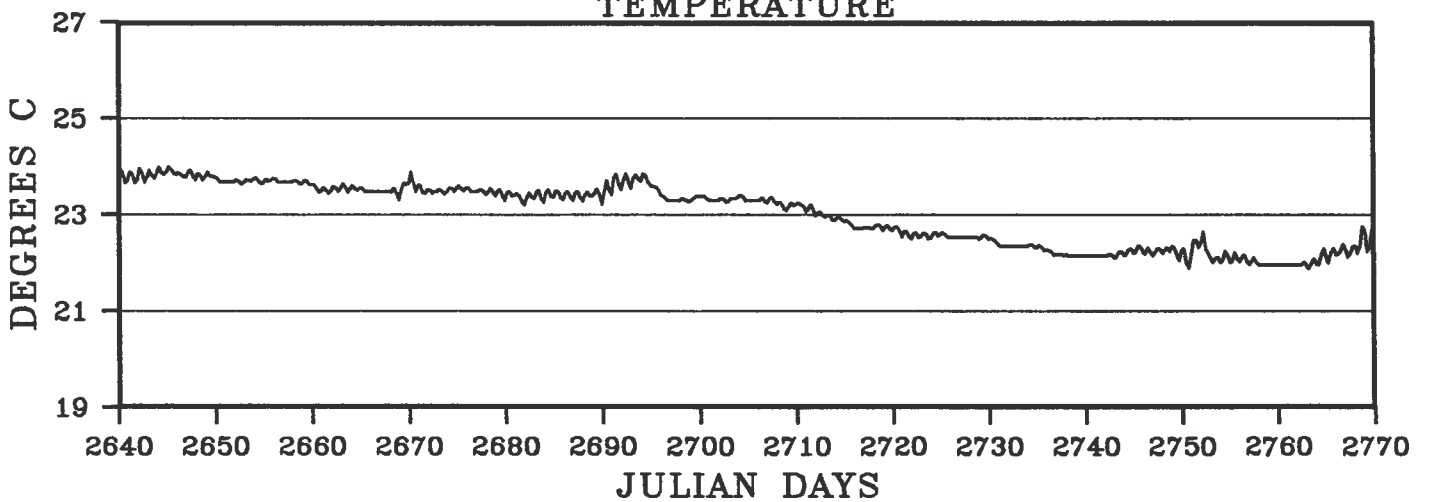
EAST VELOCITY



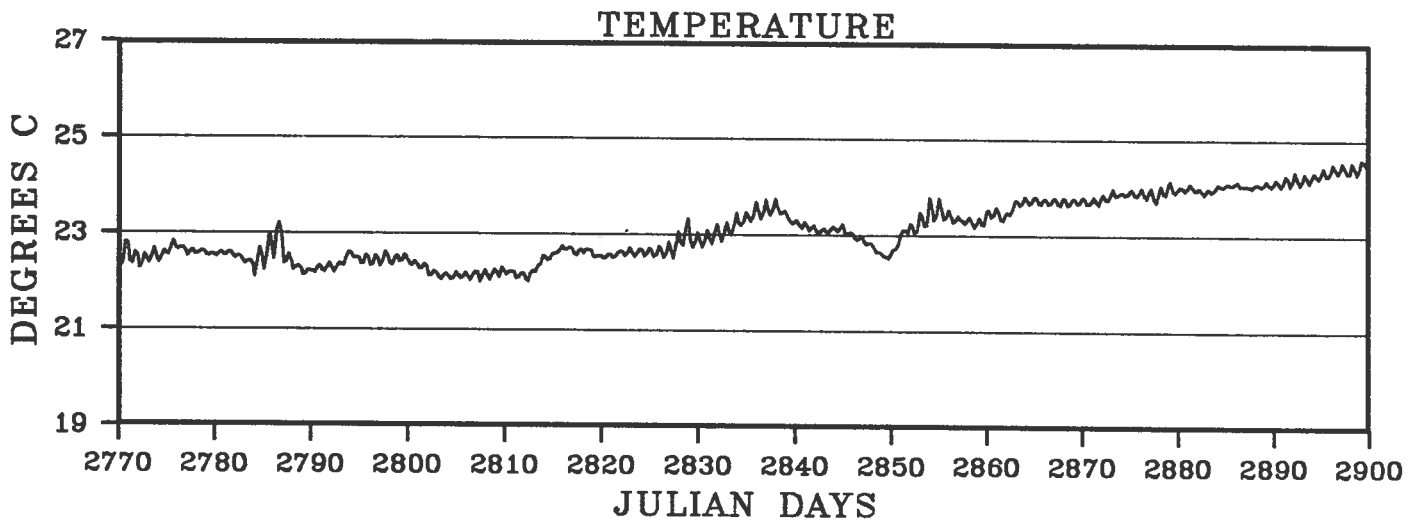
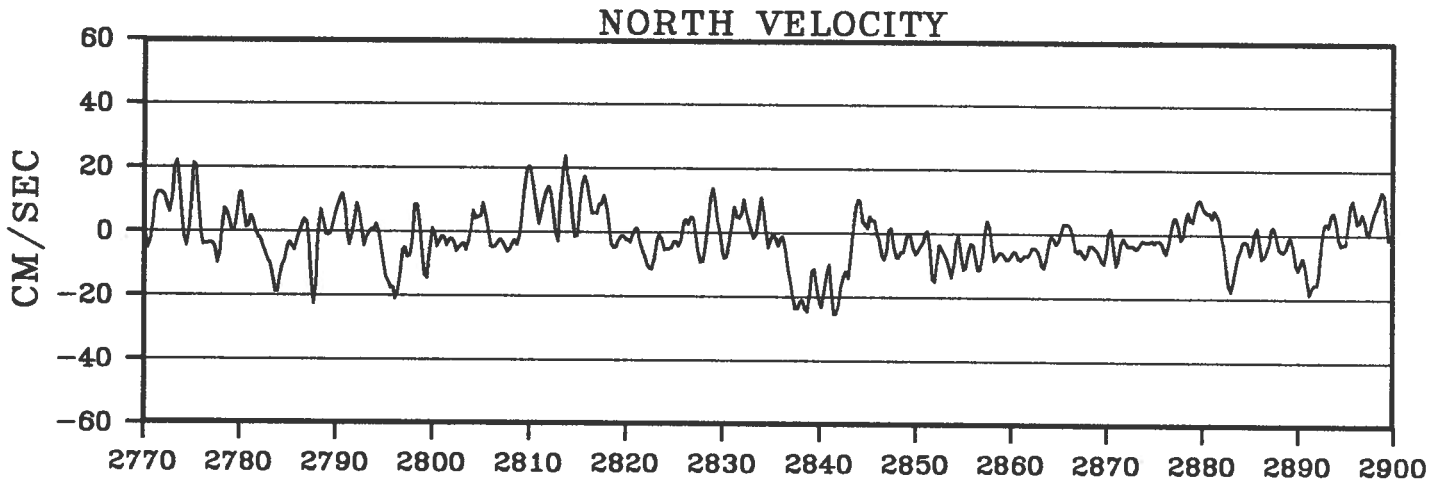
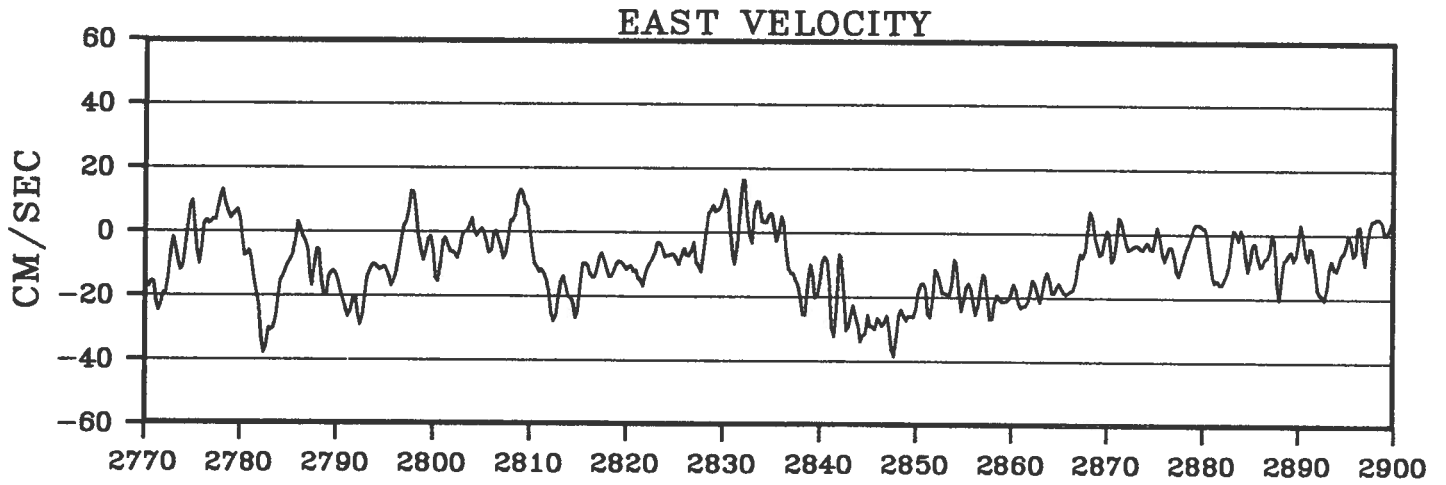
NORTH VELOCITY



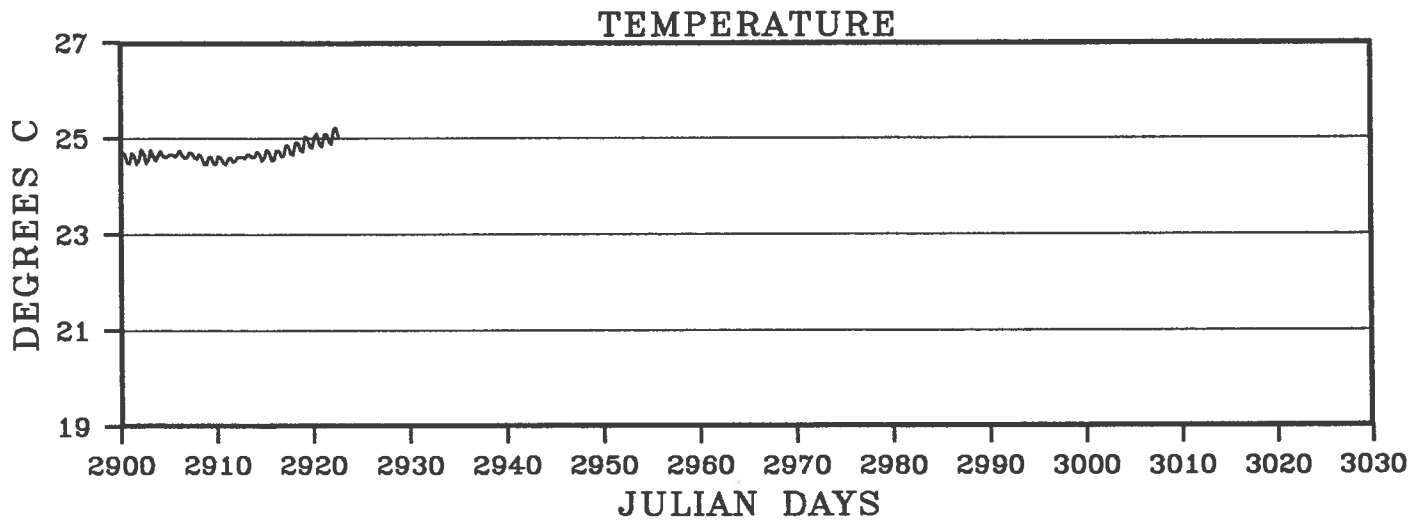
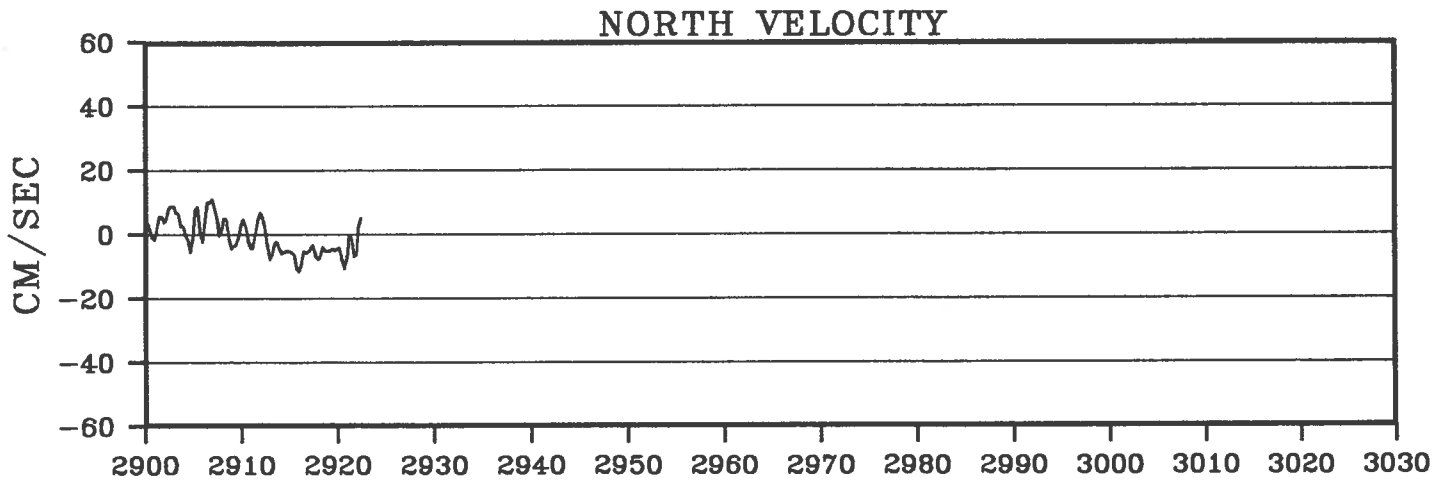
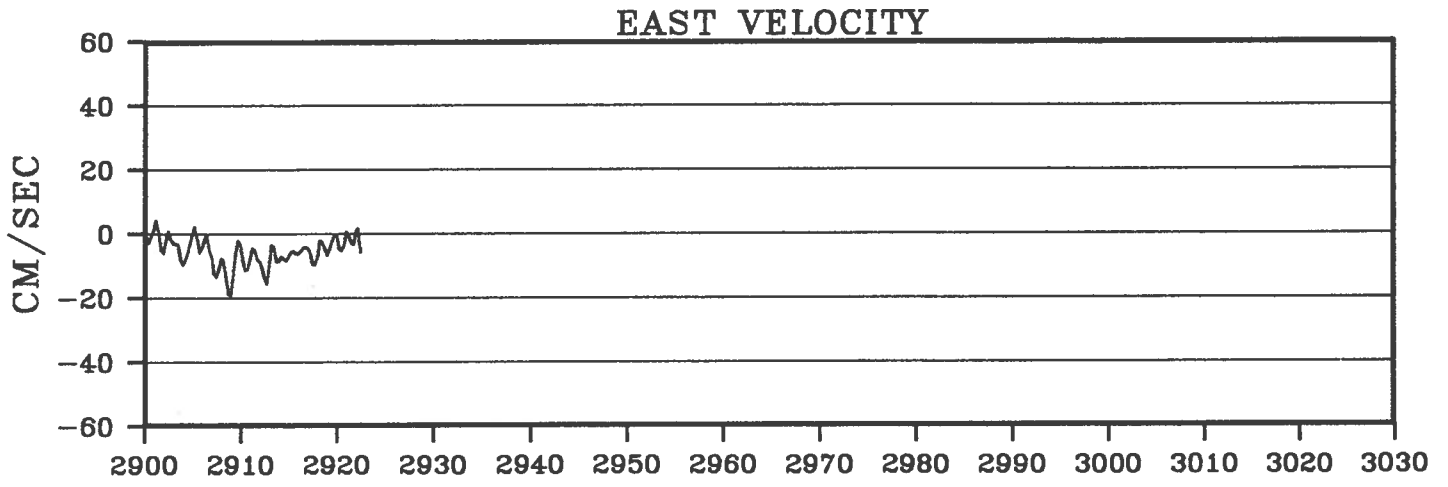
TEMPERATURE



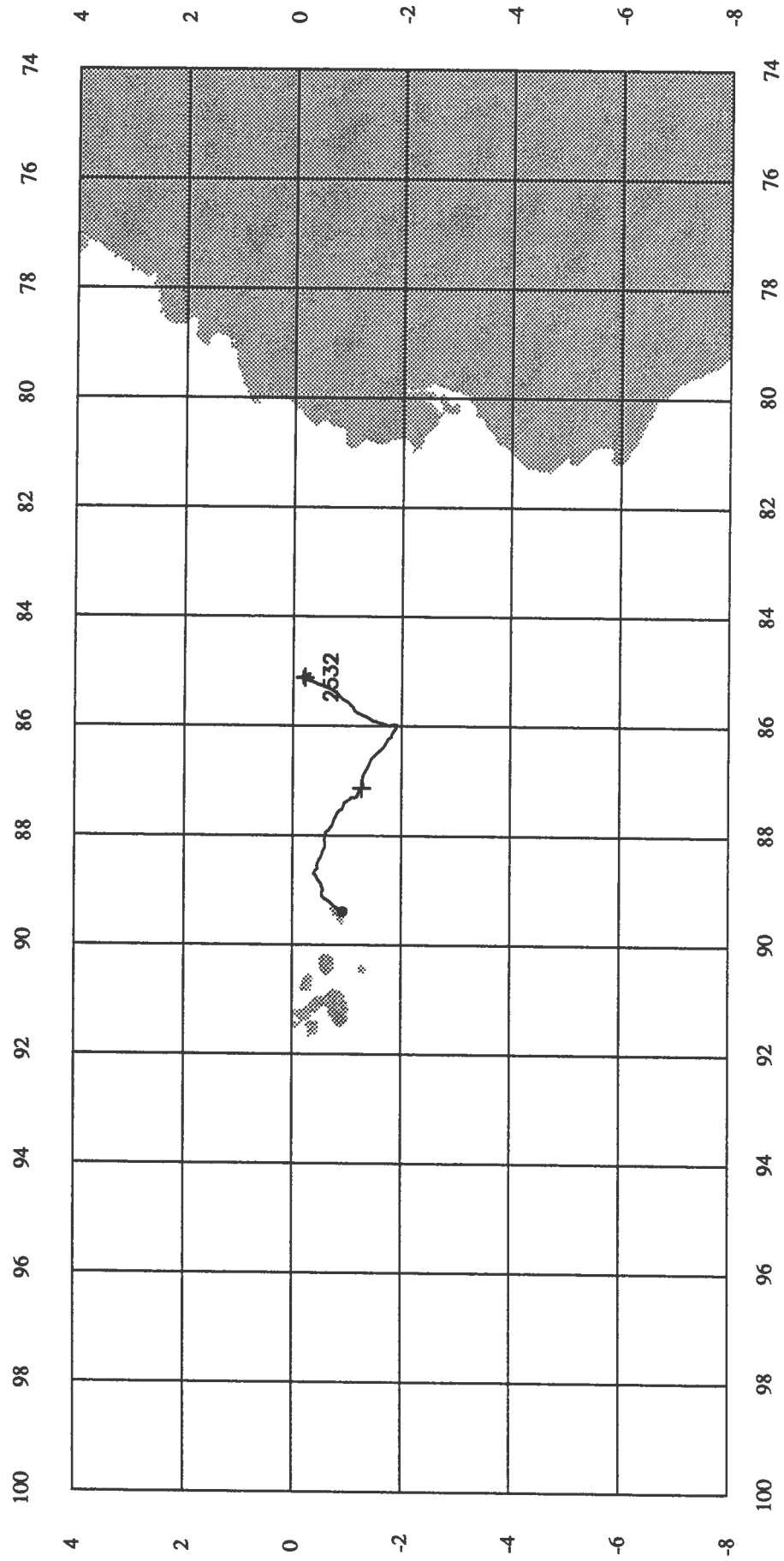
BUOY 2098



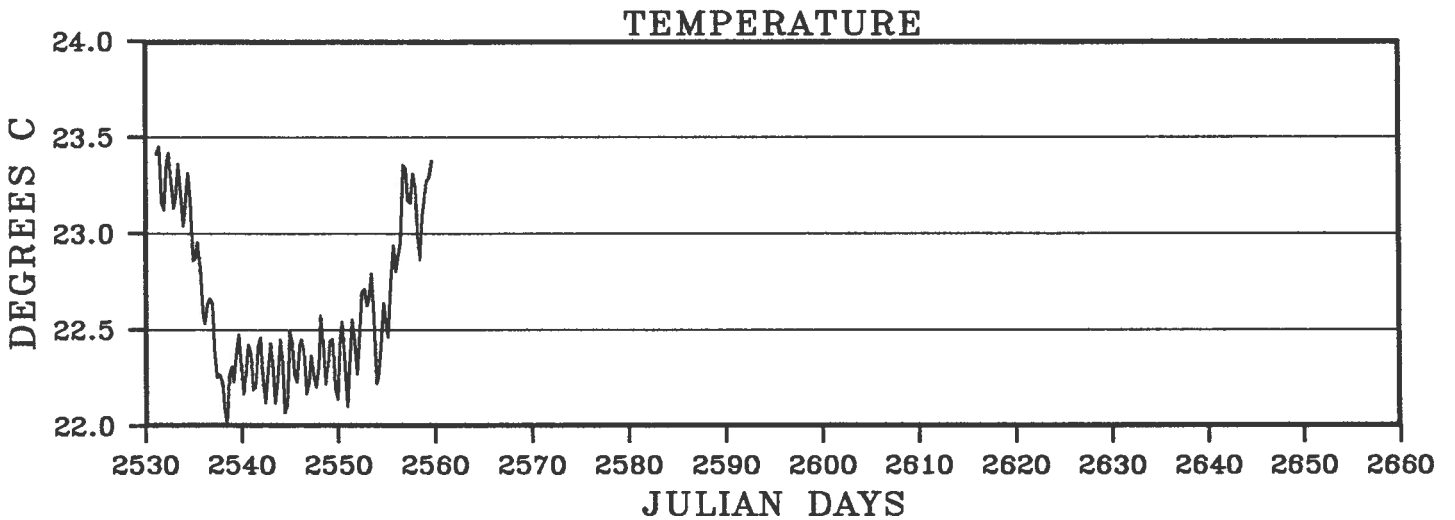
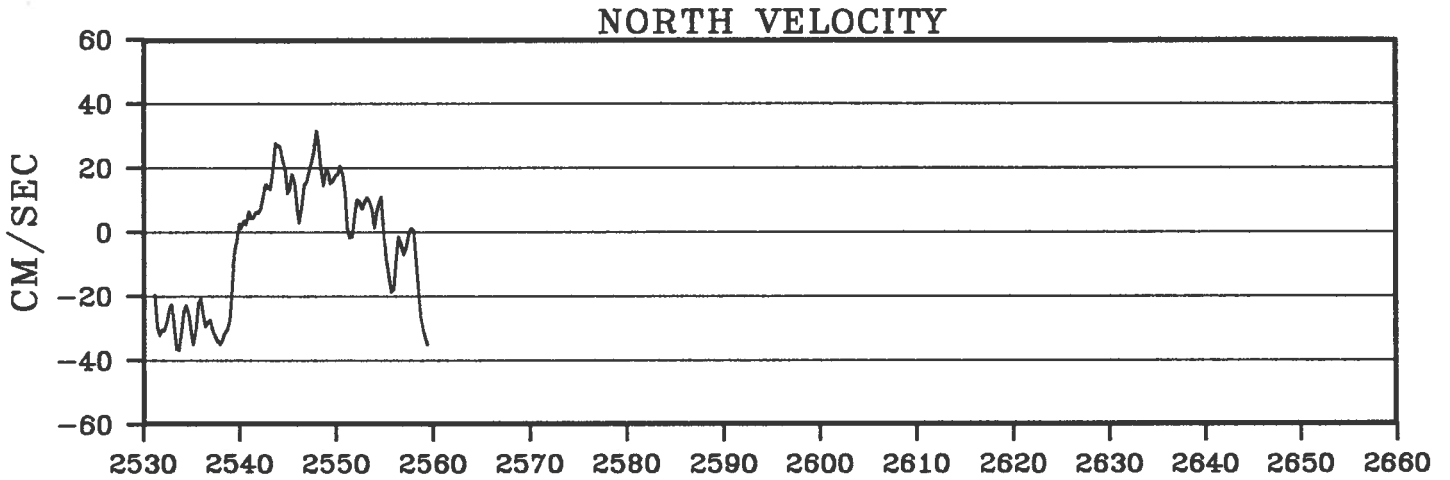
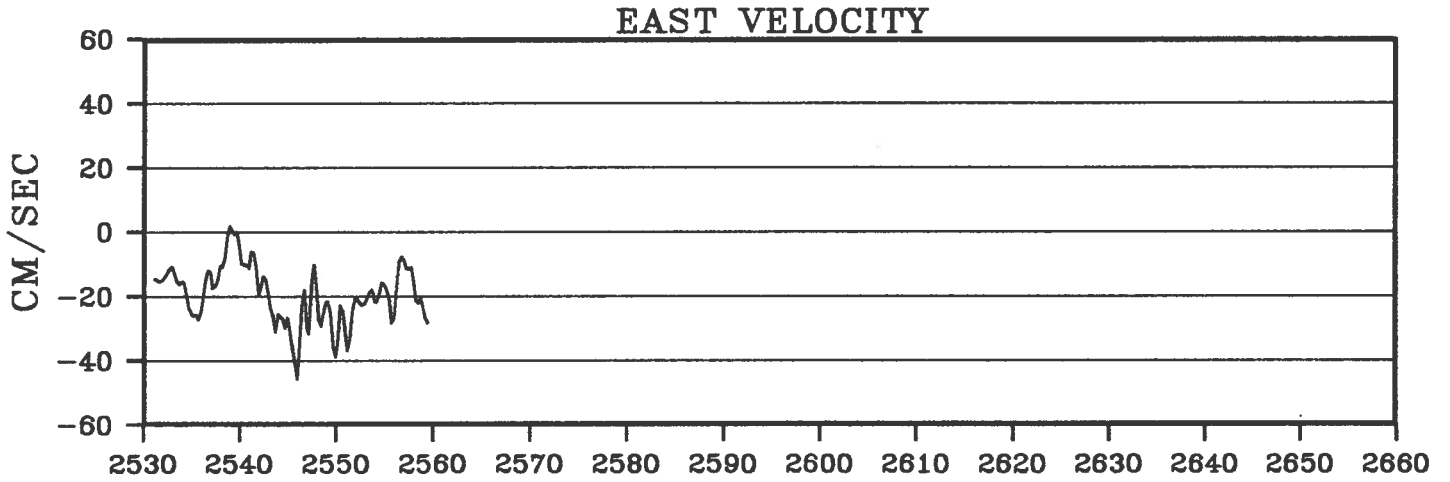
BUOY 2098



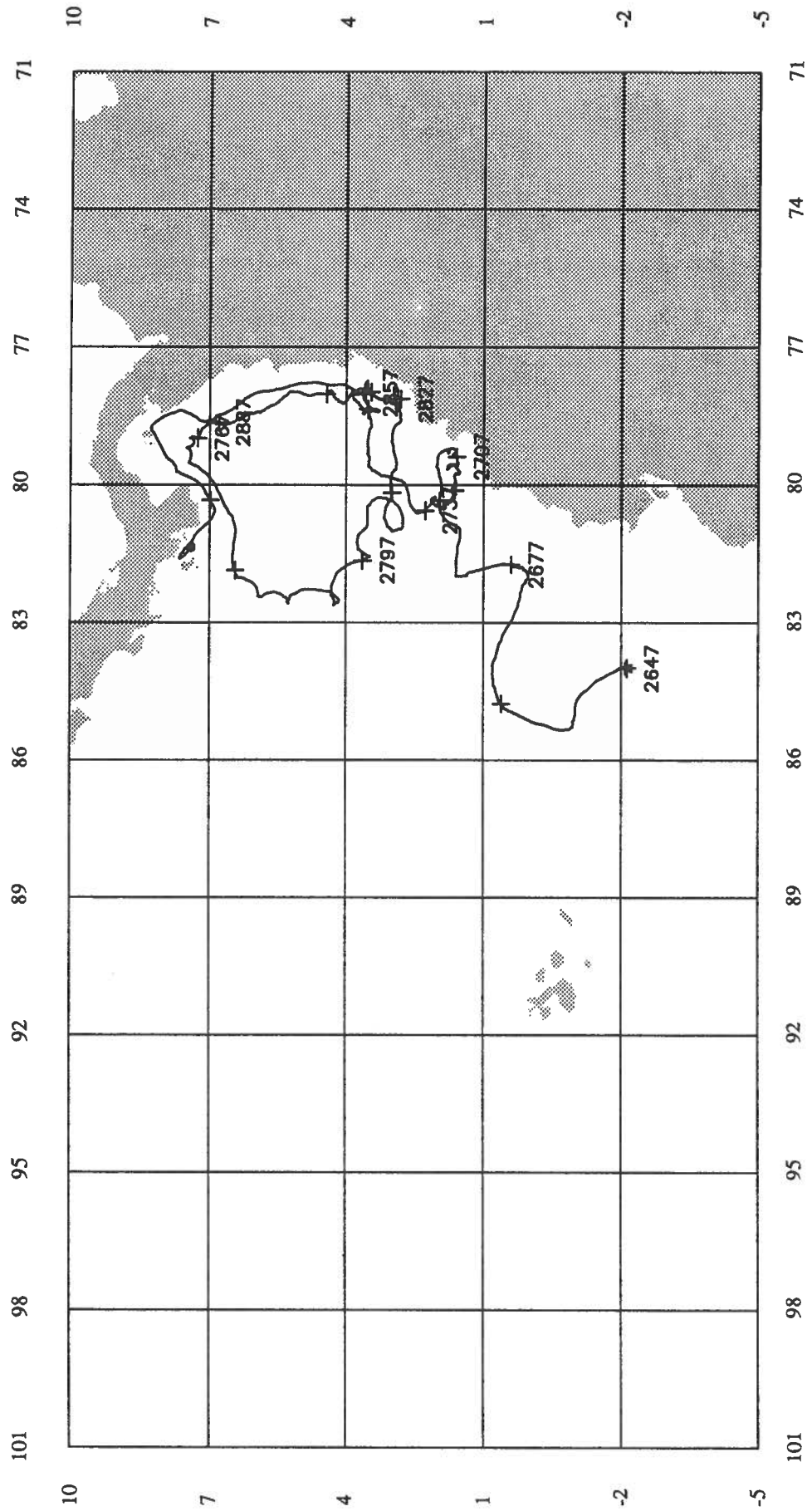
BUOY 2099



BUOY 2099

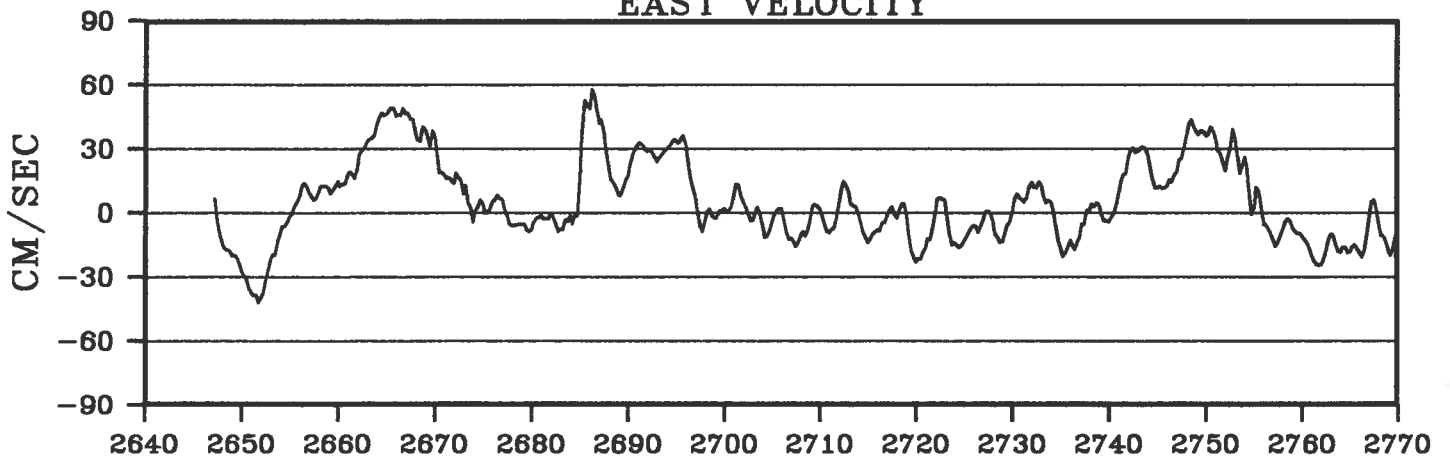


BUOY 2243

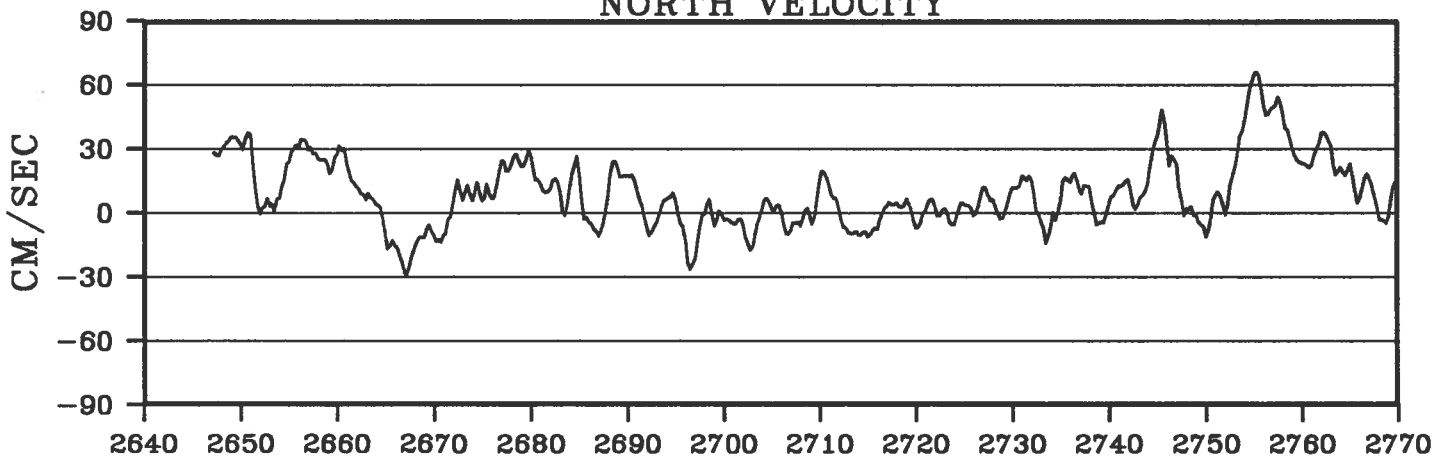


BUOY 2243

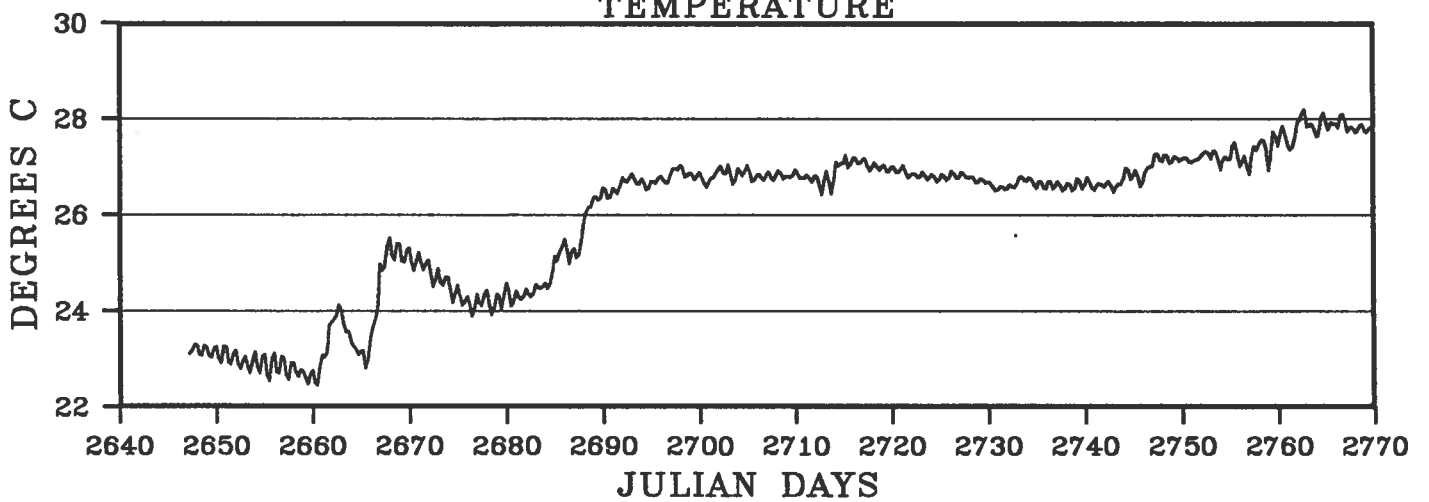
EAST VELOCITY



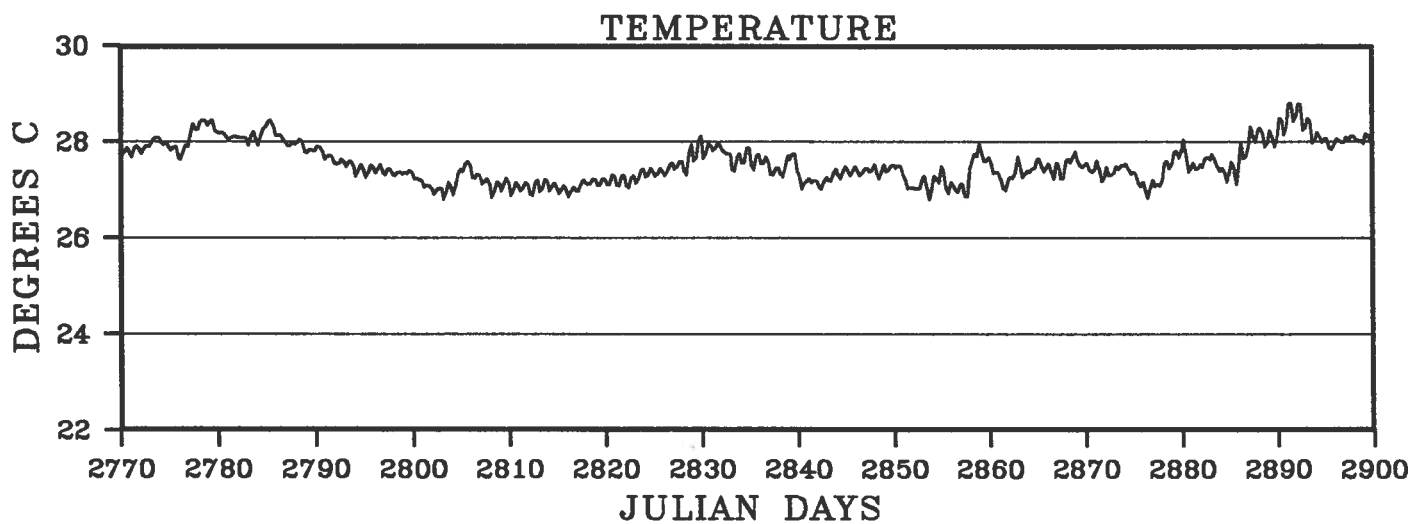
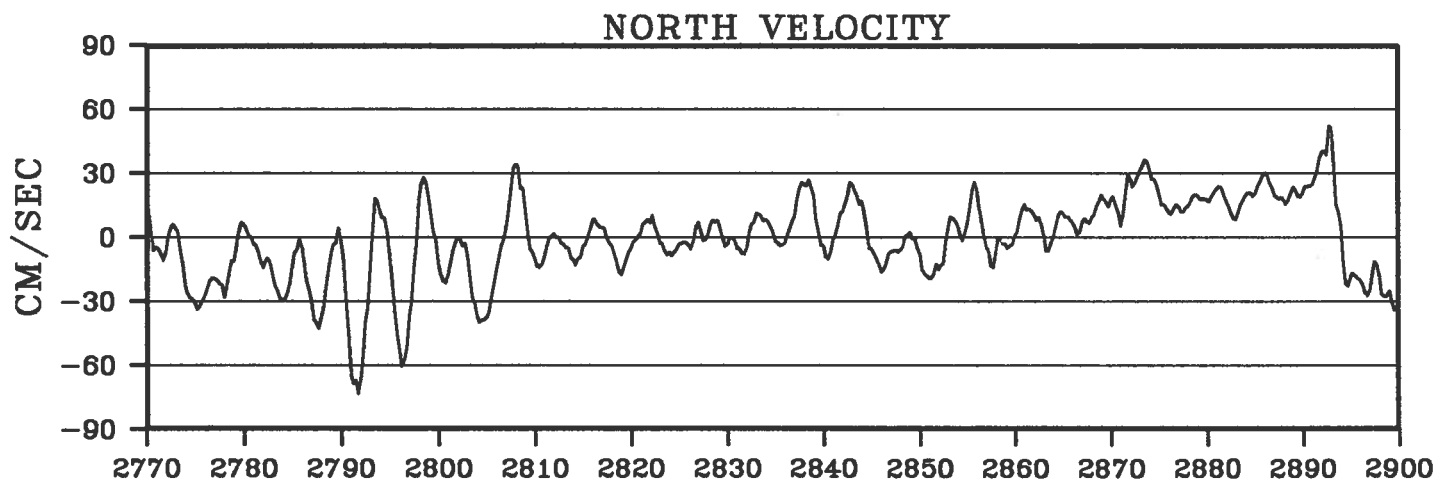
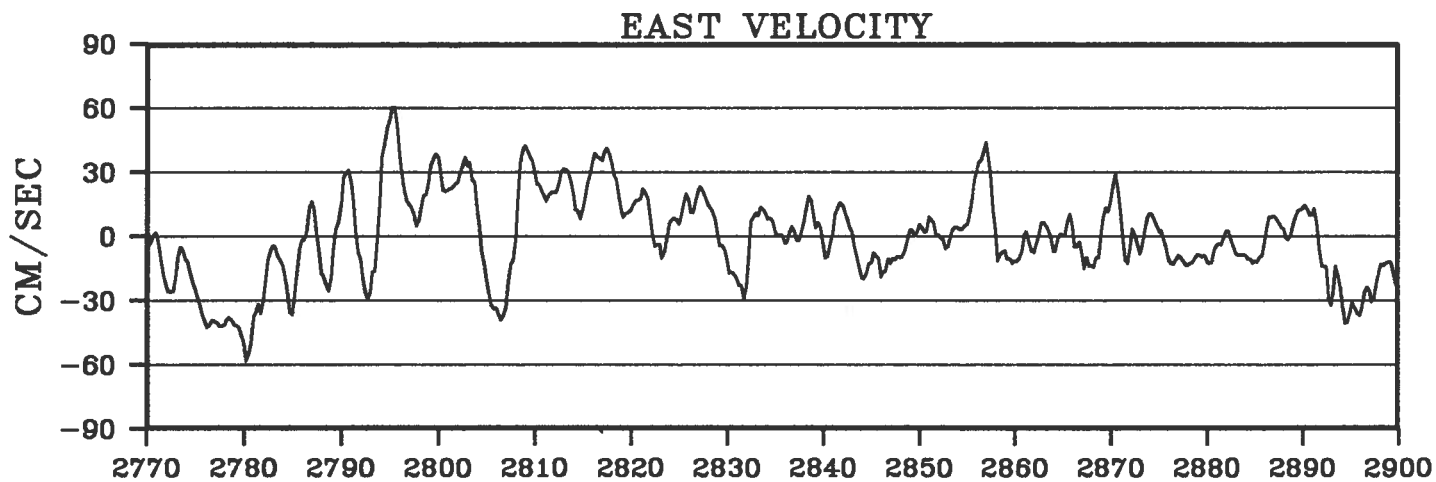
NORTH VELOCITY



TEMPERATURE

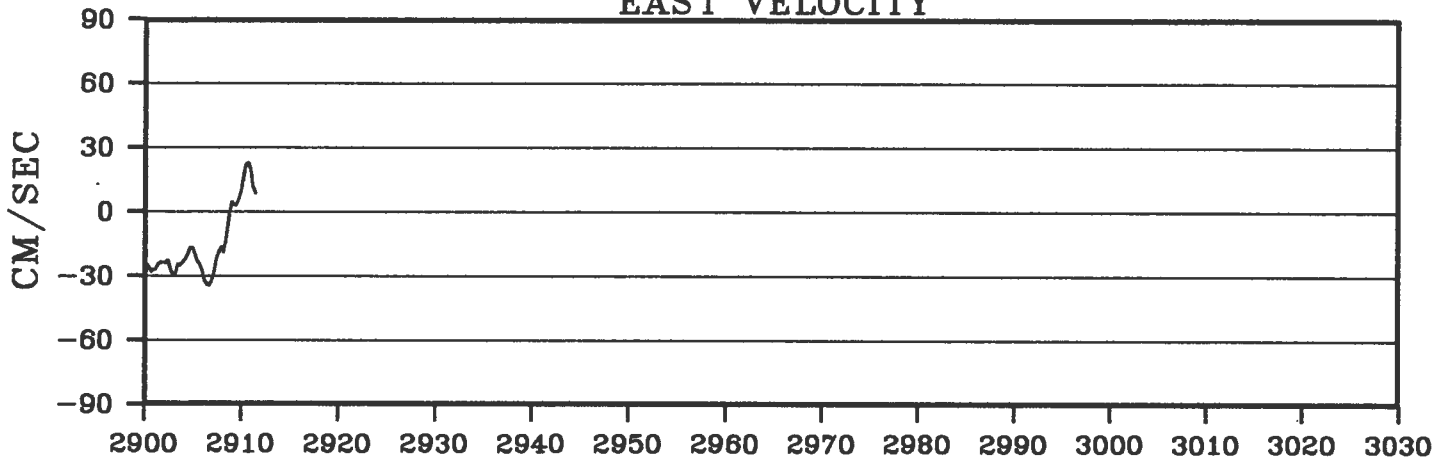


BUOY 2243

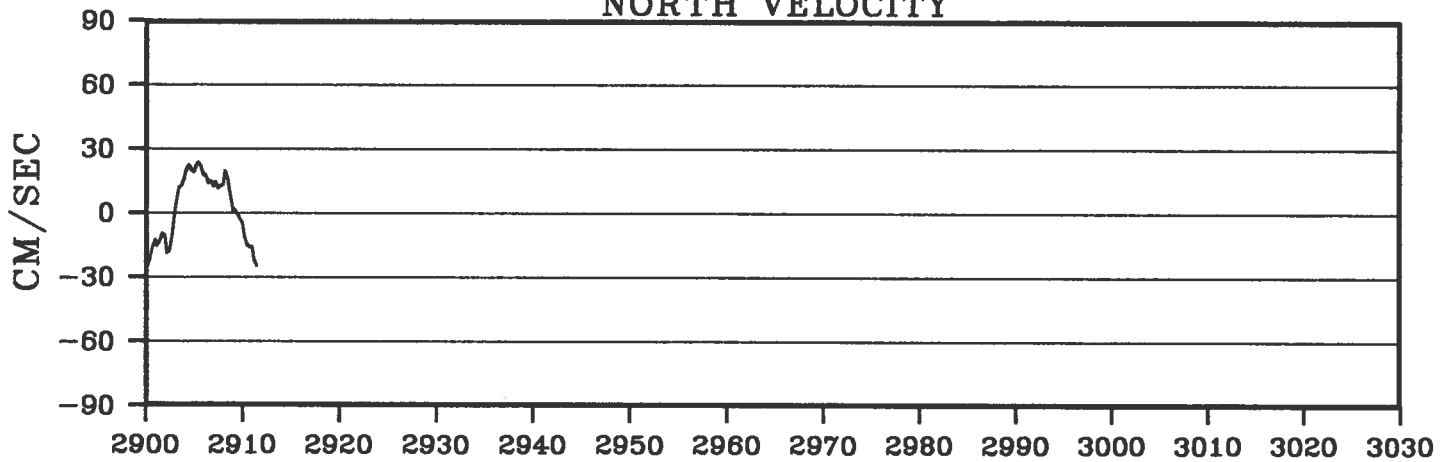


BUOY 2243

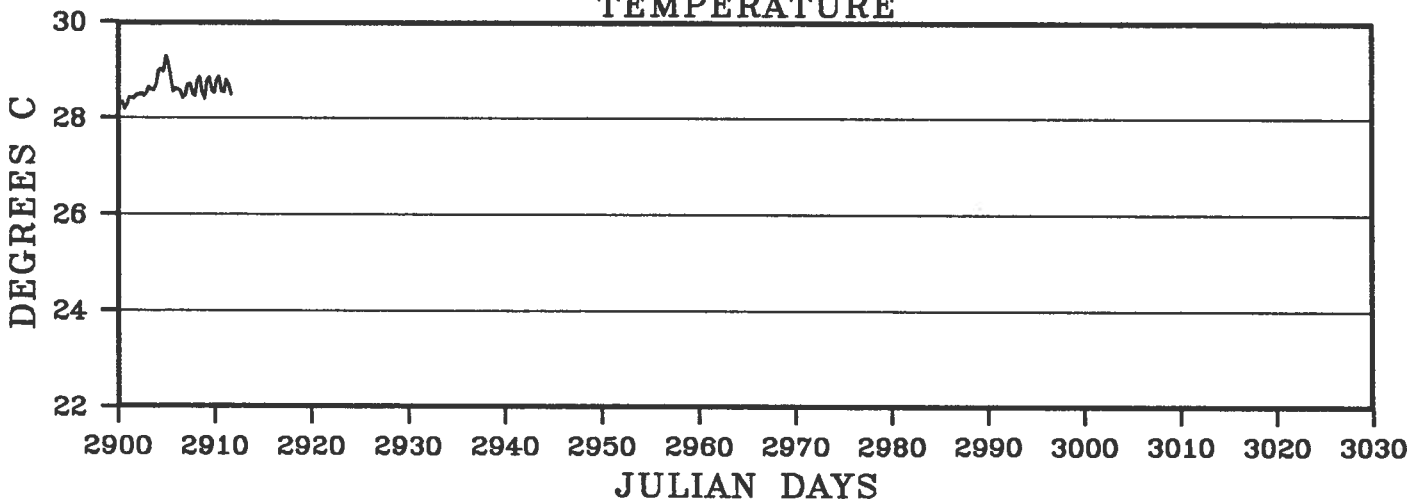
EAST VELOCITY



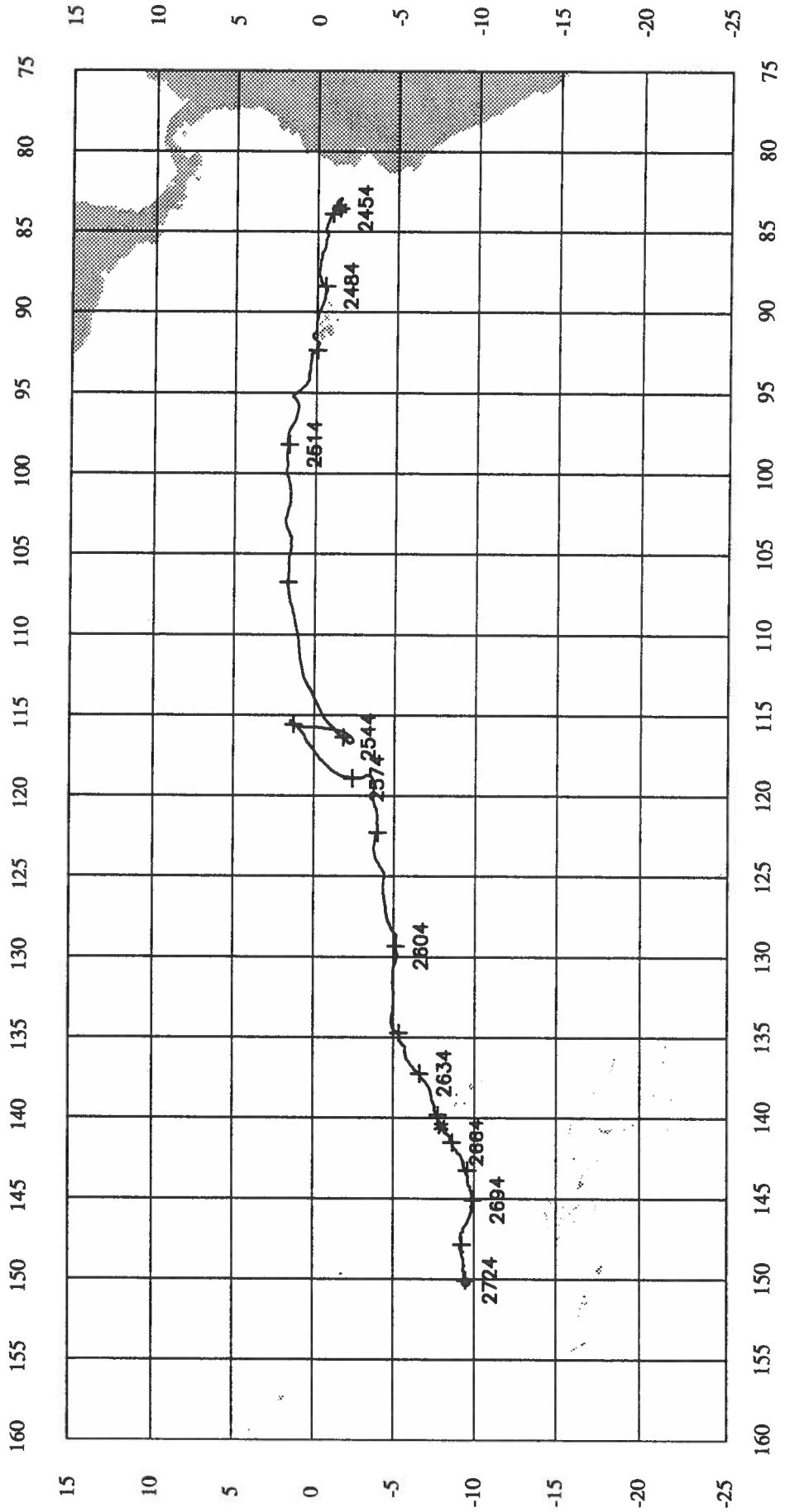
NORTH VELOCITY



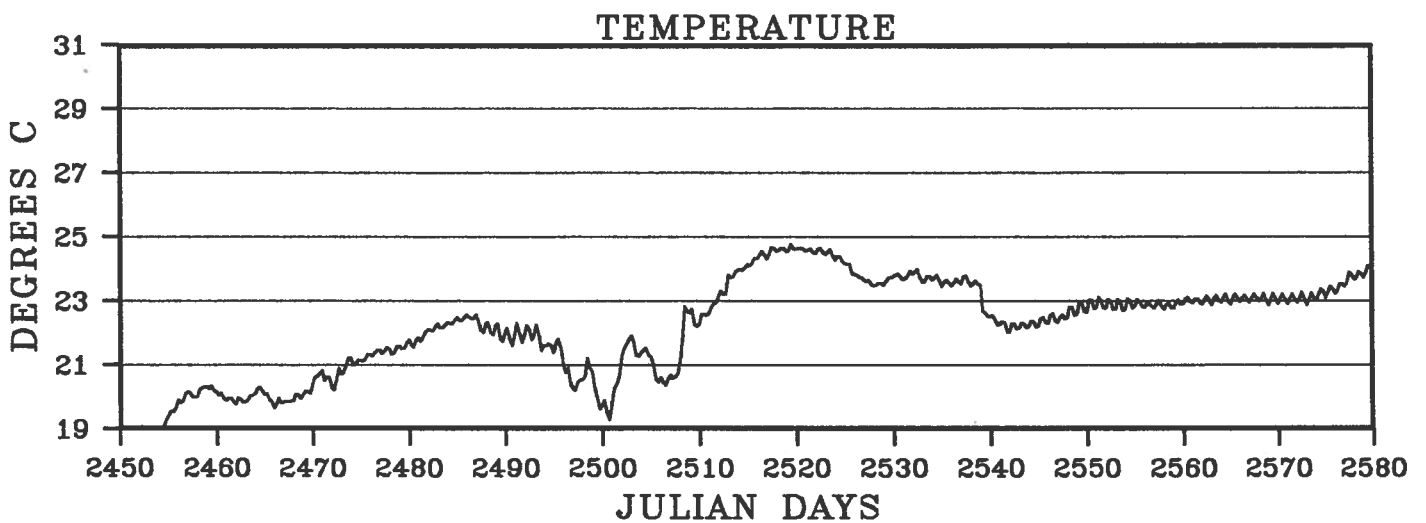
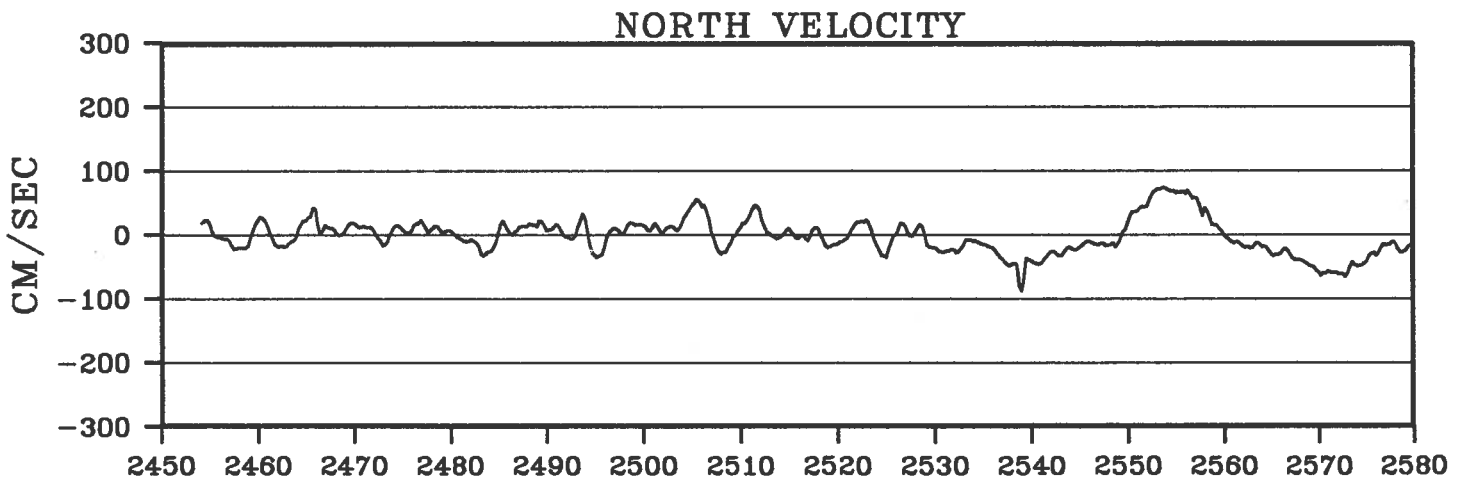
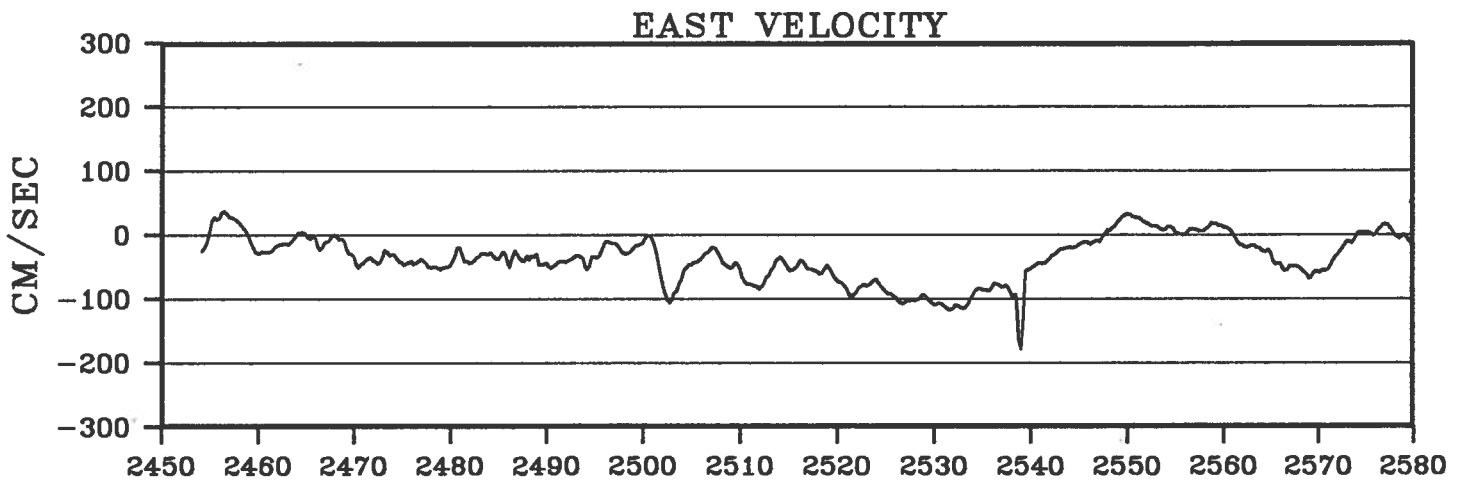
TEMPERATURE



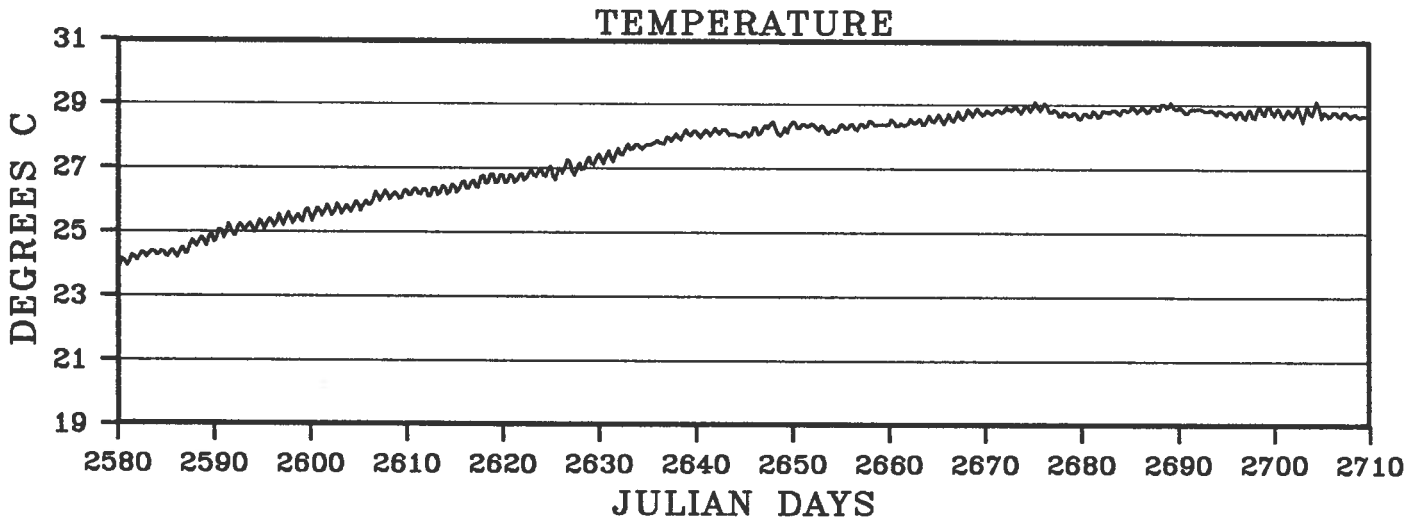
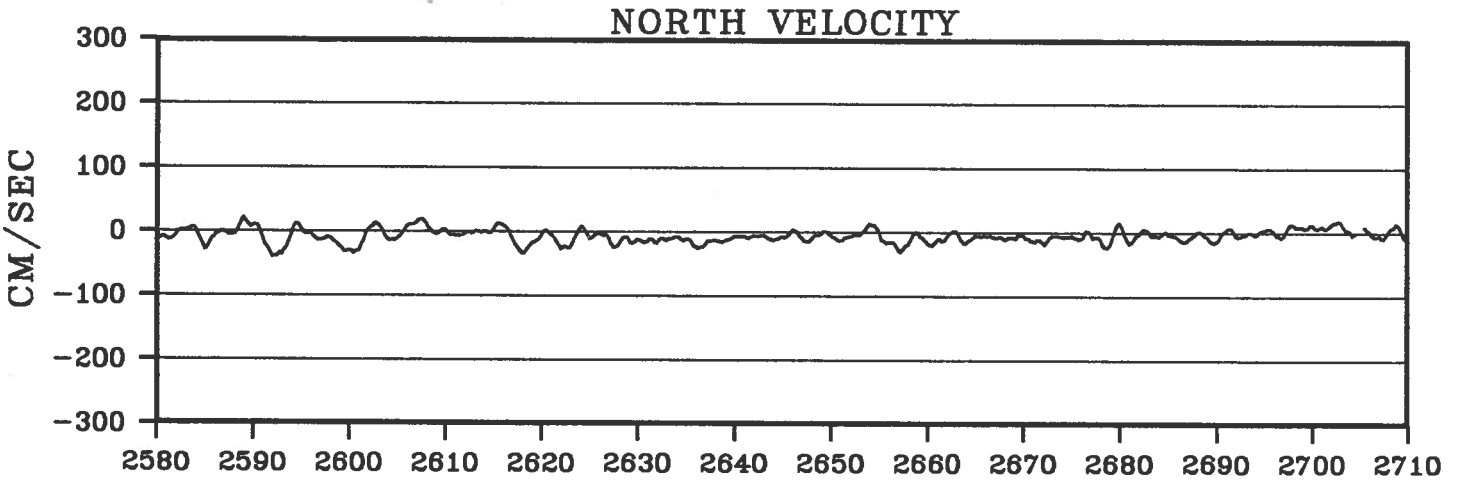
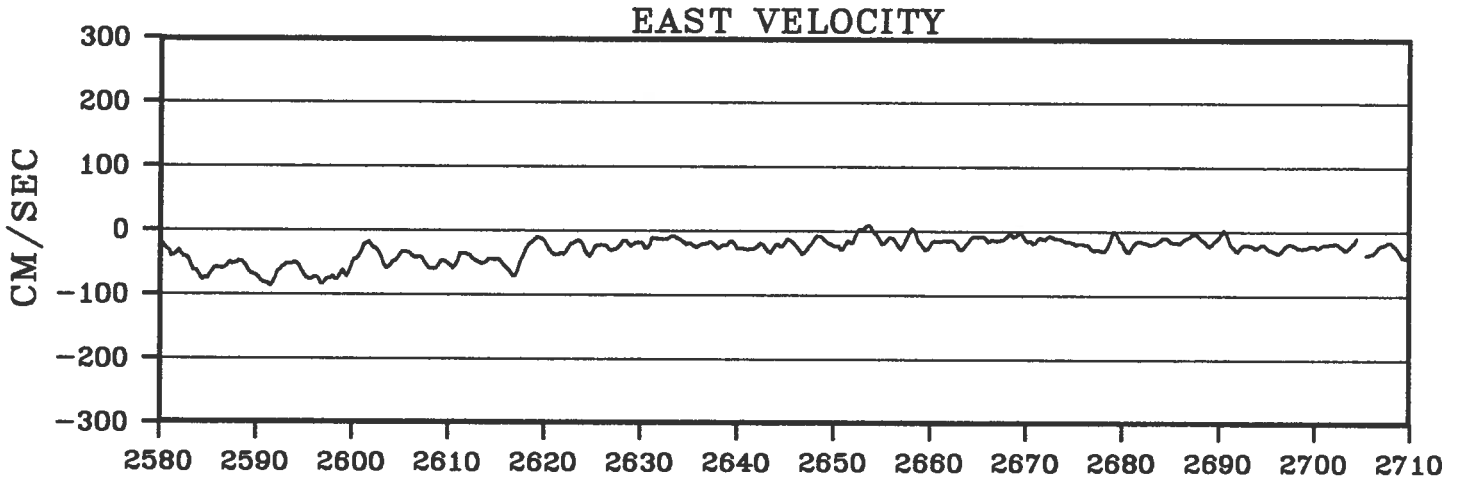
BUOY 2244



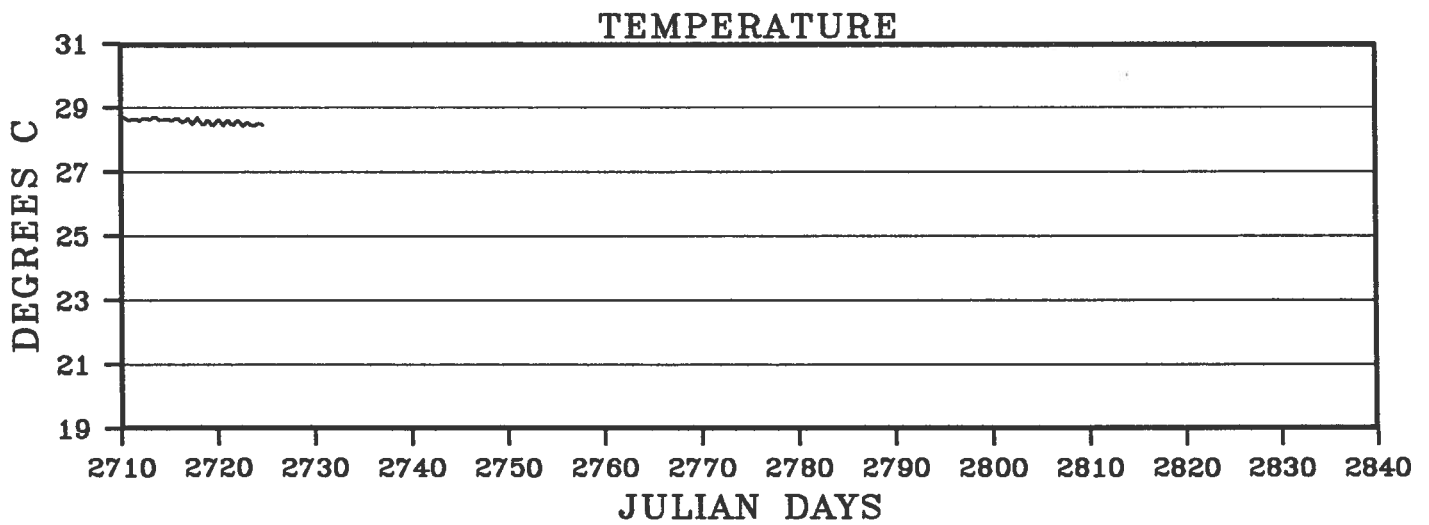
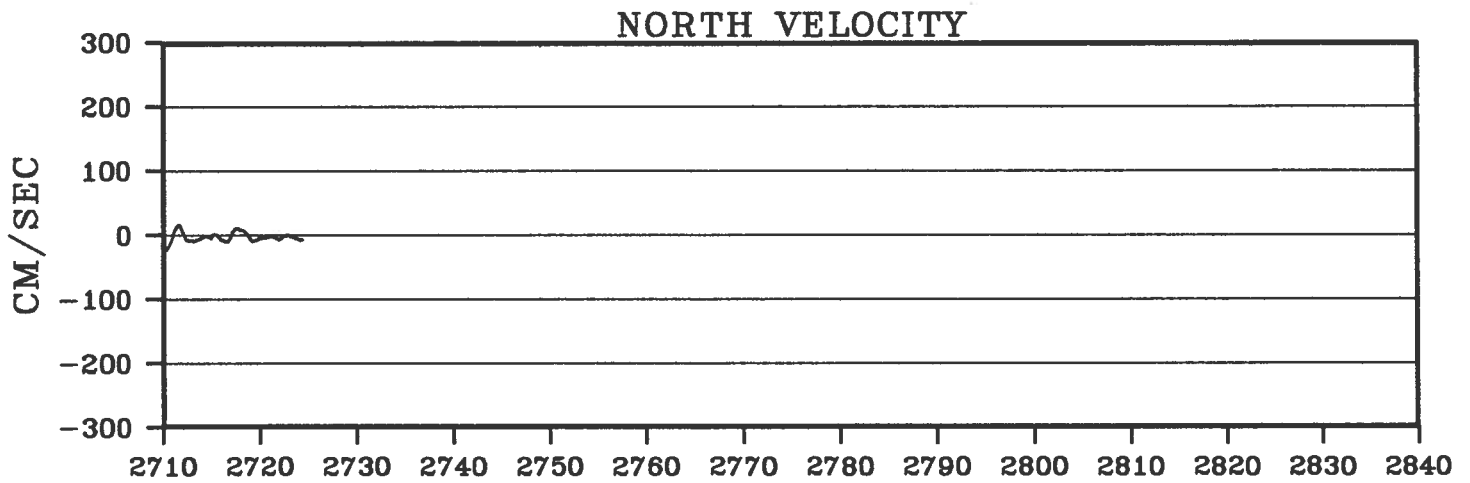
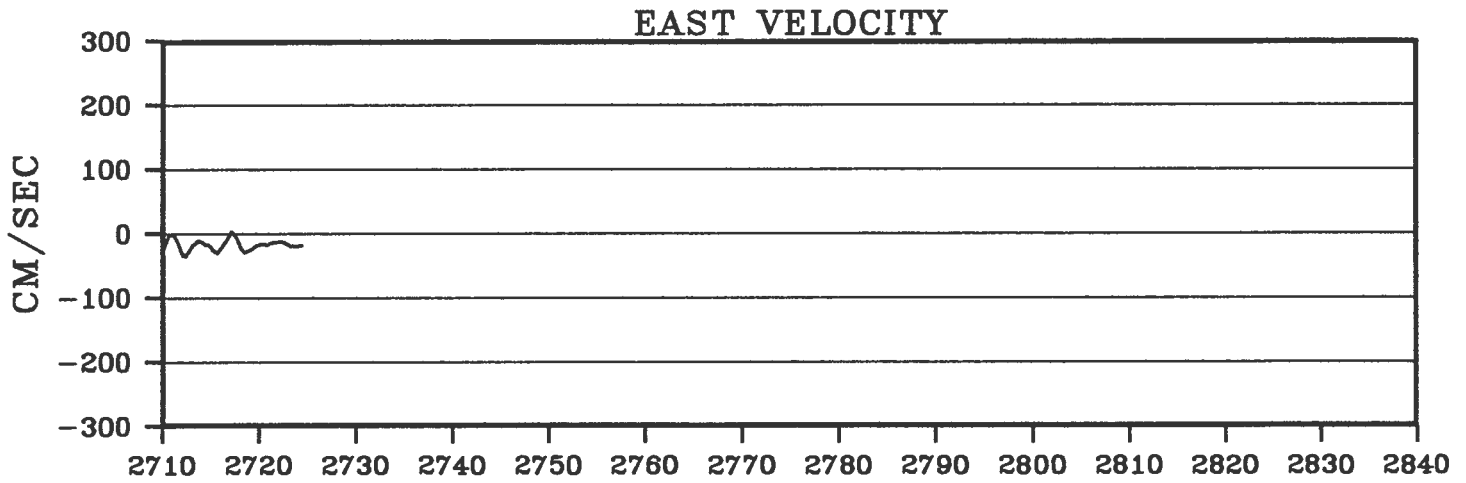
BUOY 2244



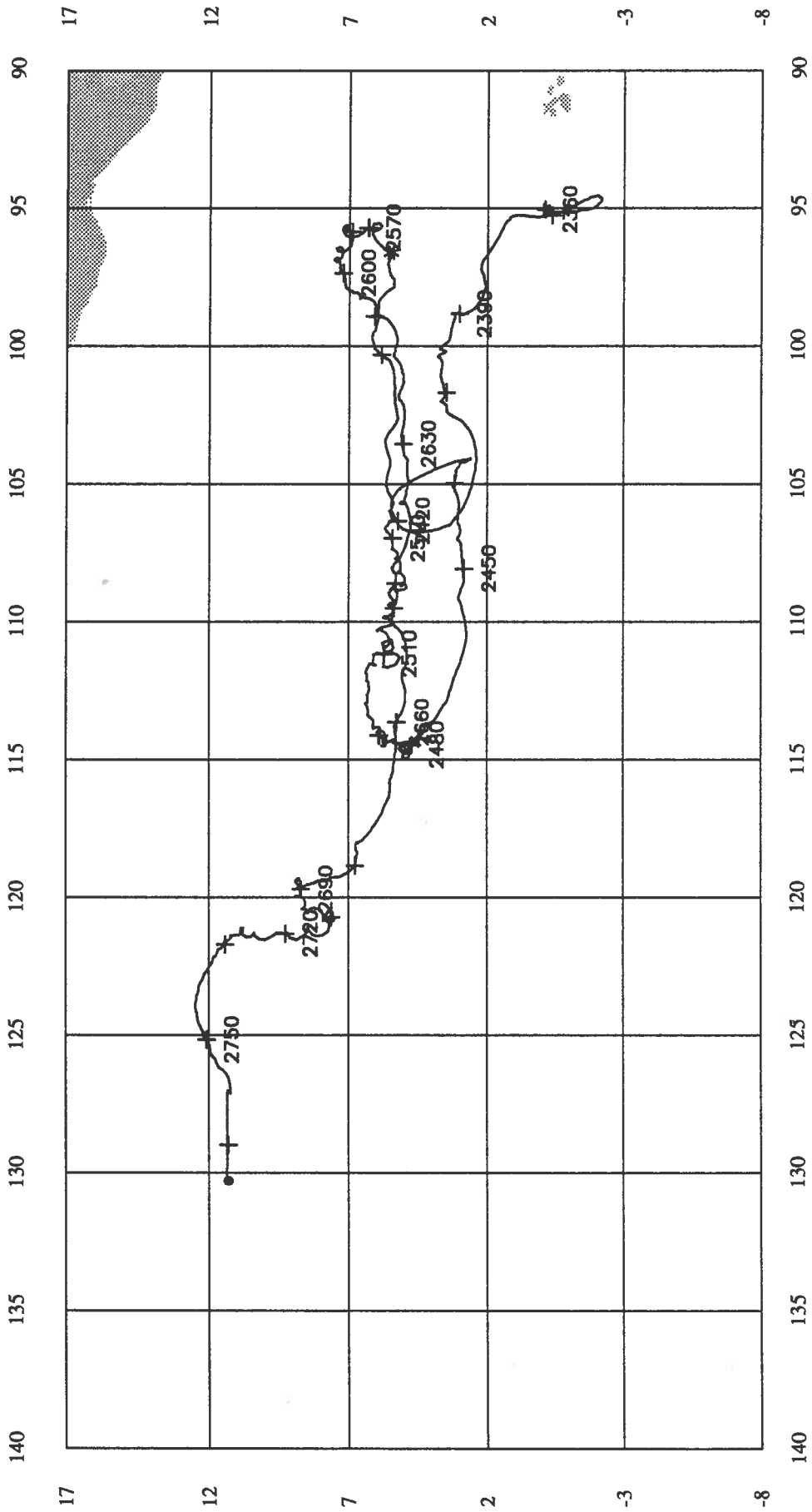
BUOY 2244



BUOY 2244

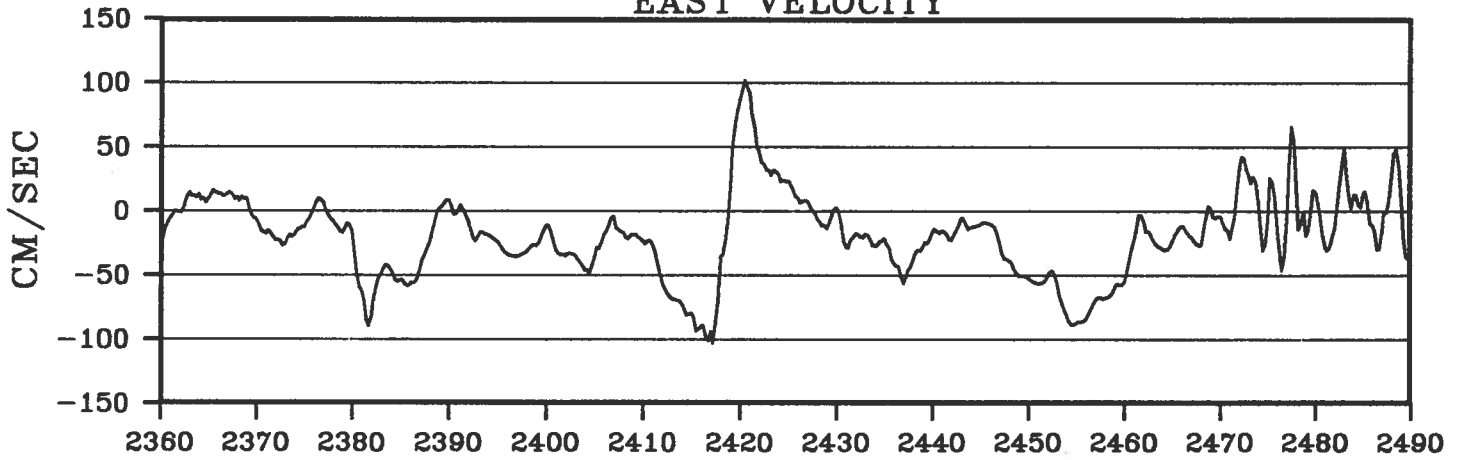


BUOY 2245

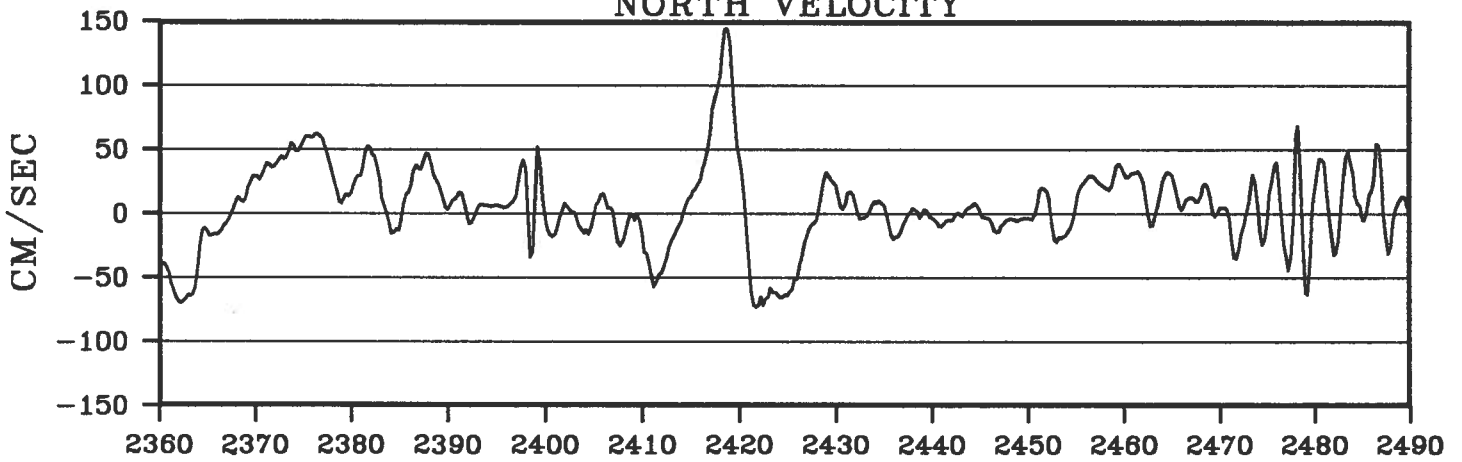


BUOY 2245

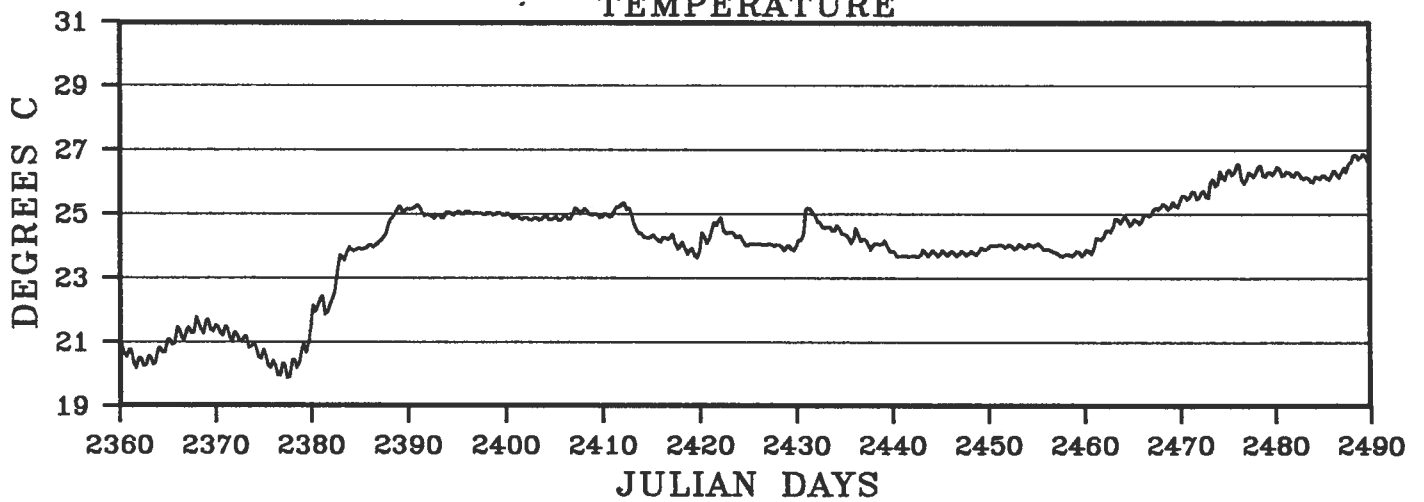
EAST VELOCITY



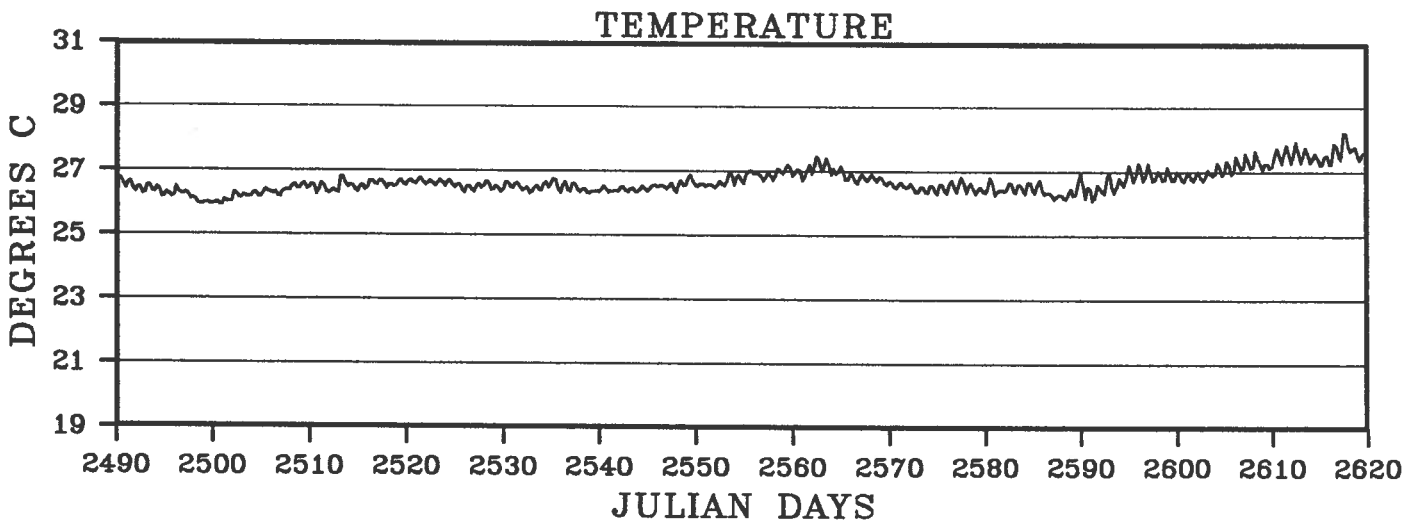
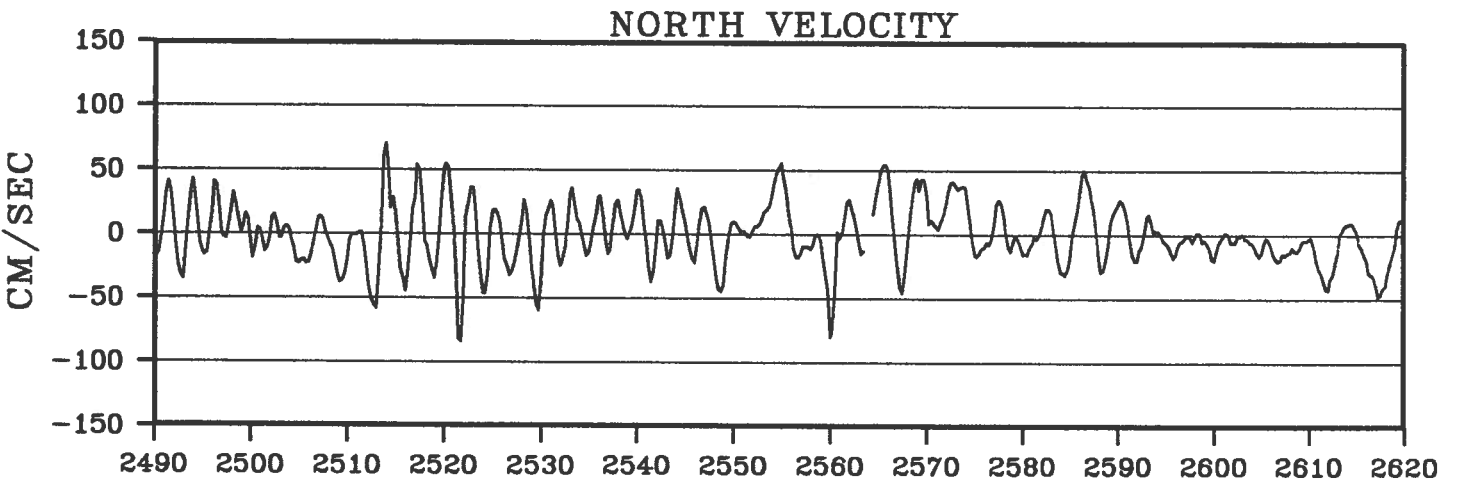
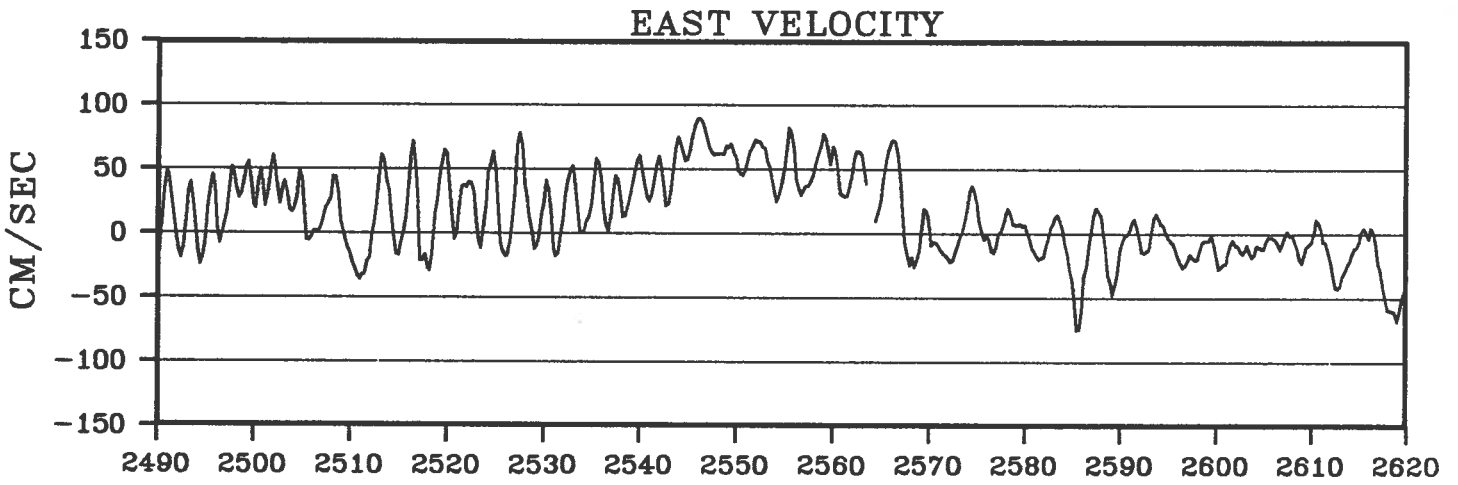
NORTH VELOCITY



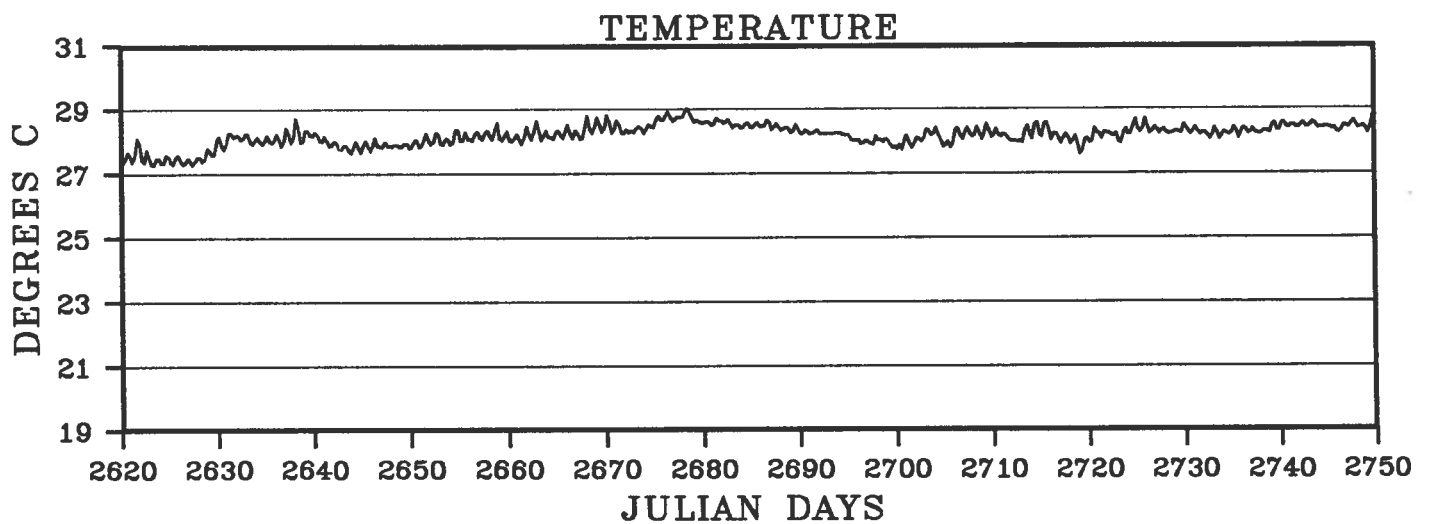
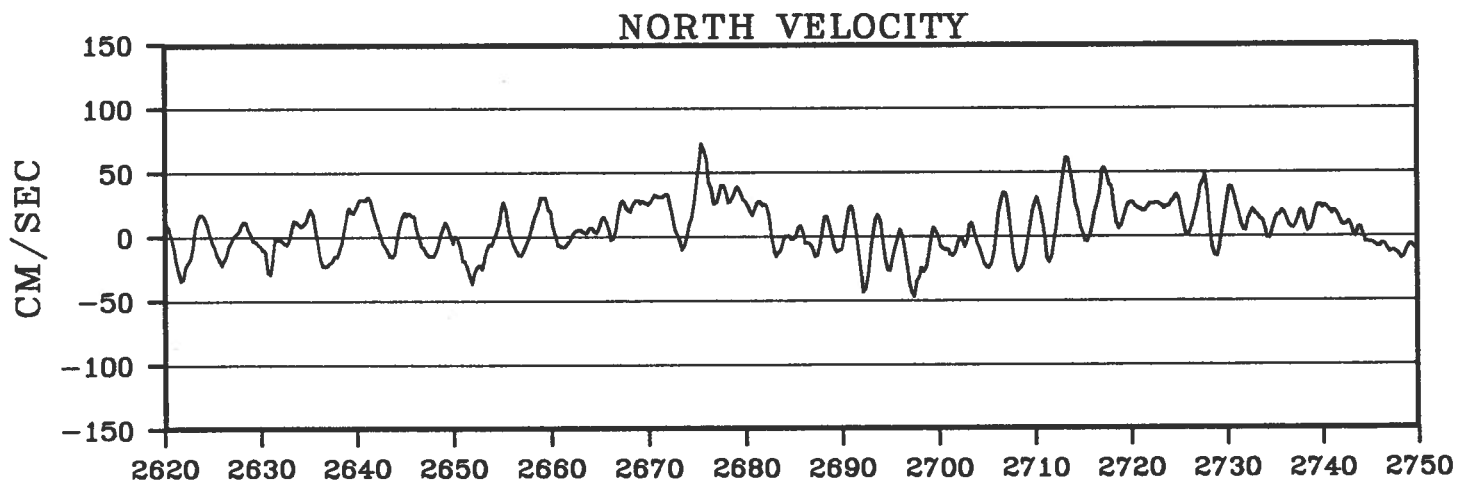
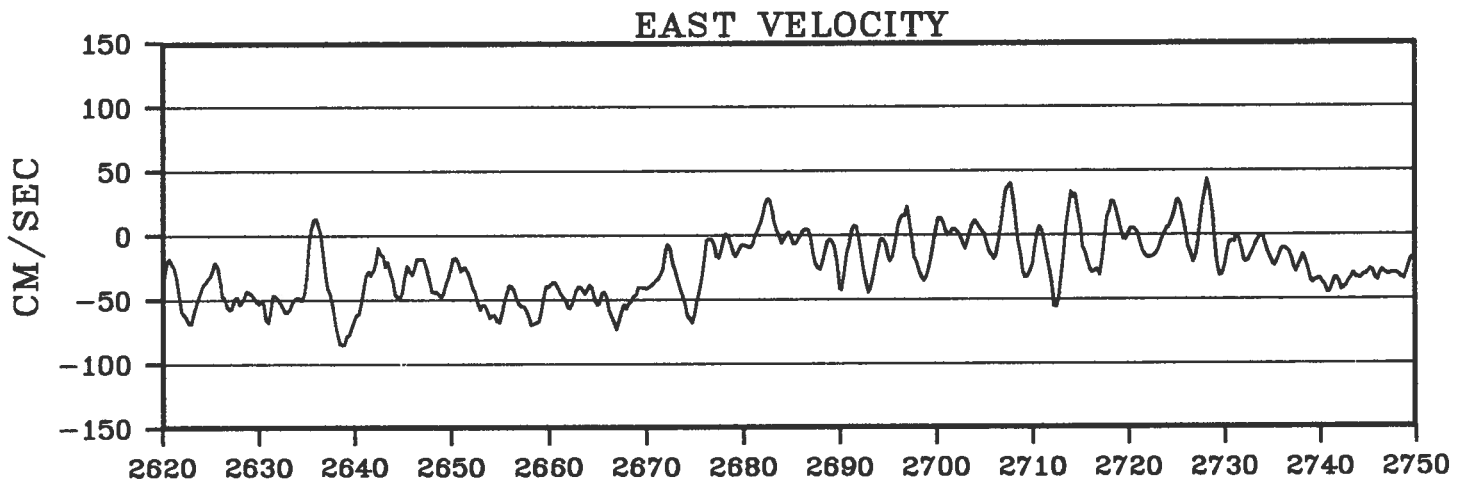
TEMPERATURE



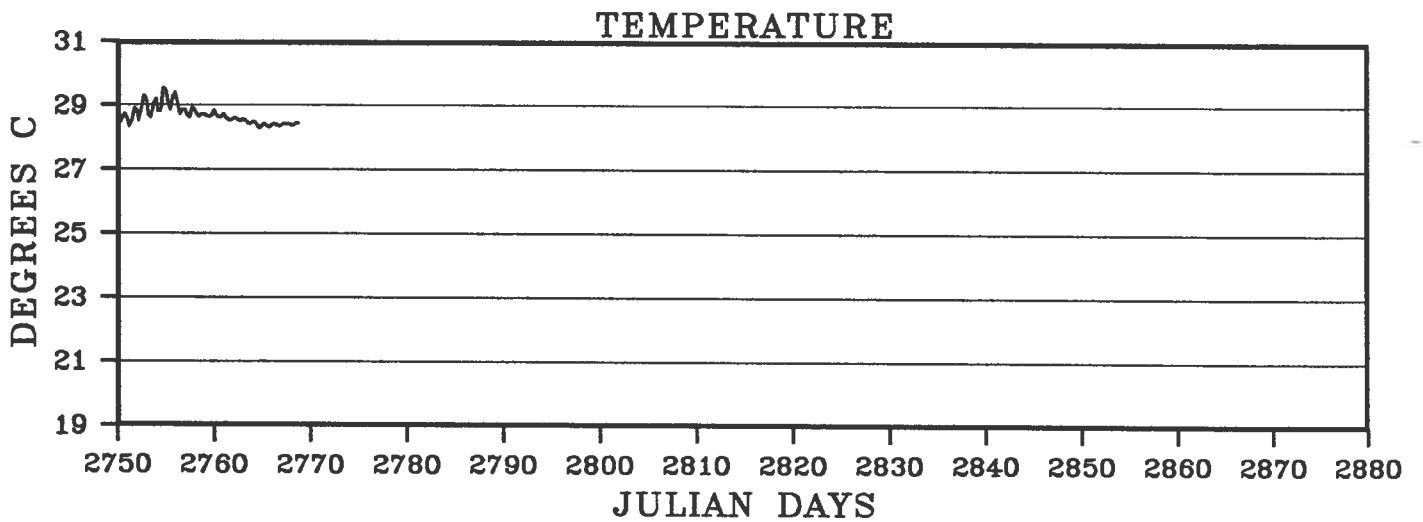
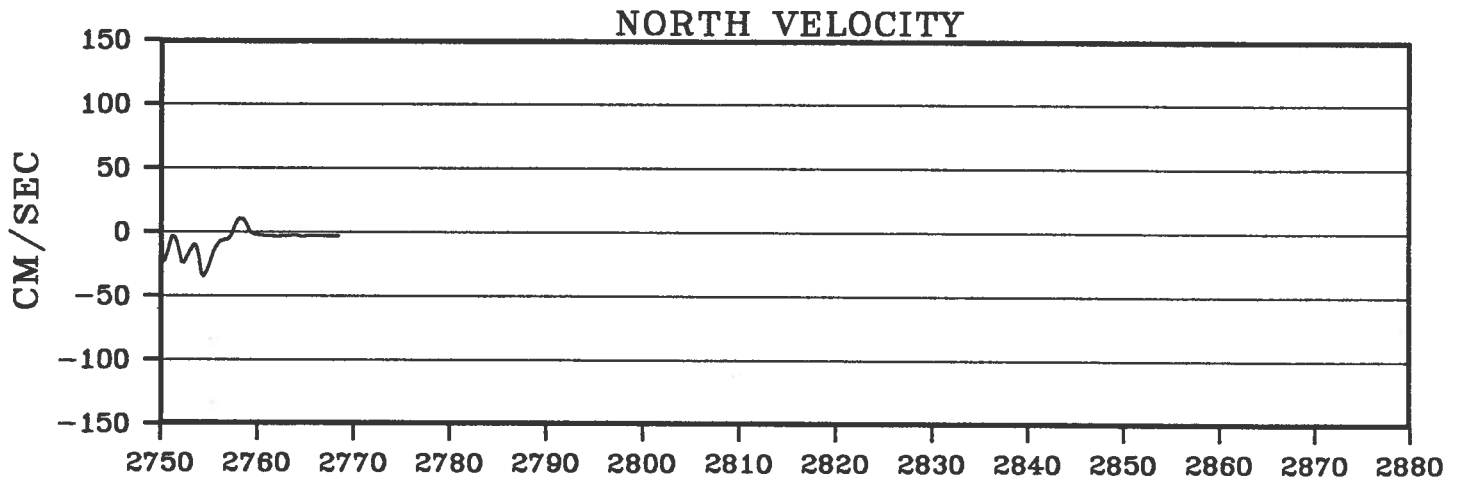
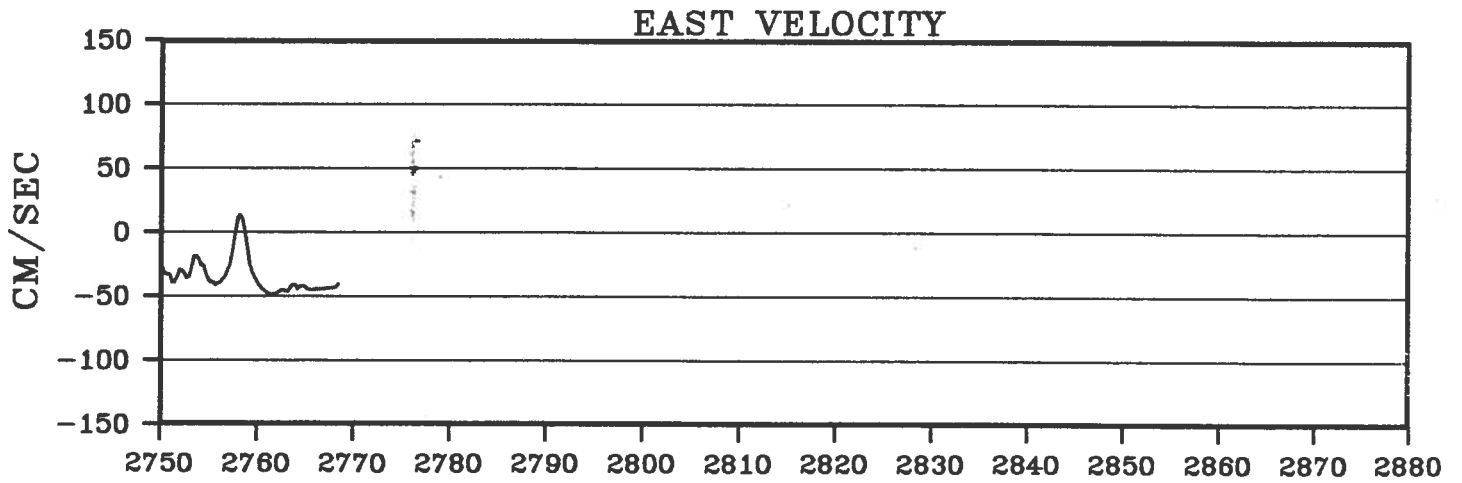
BUOY 2245



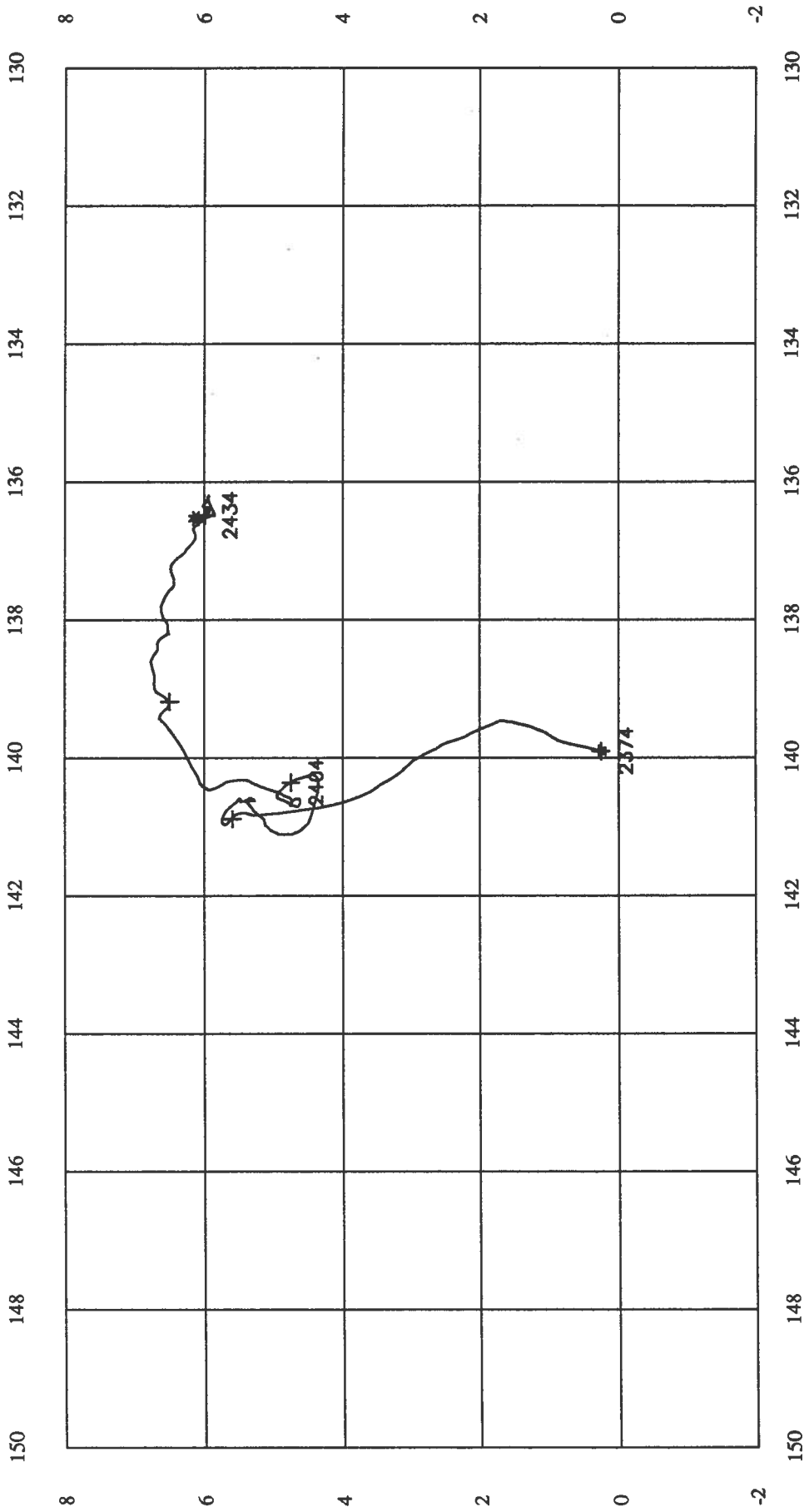
BUOY 2245



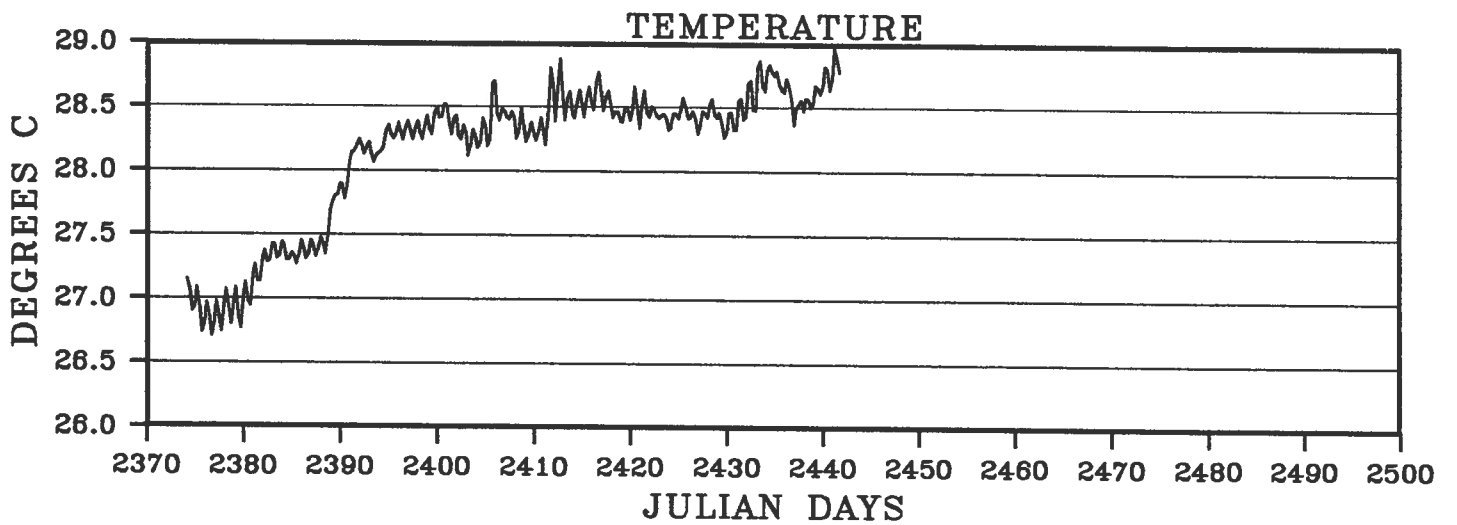
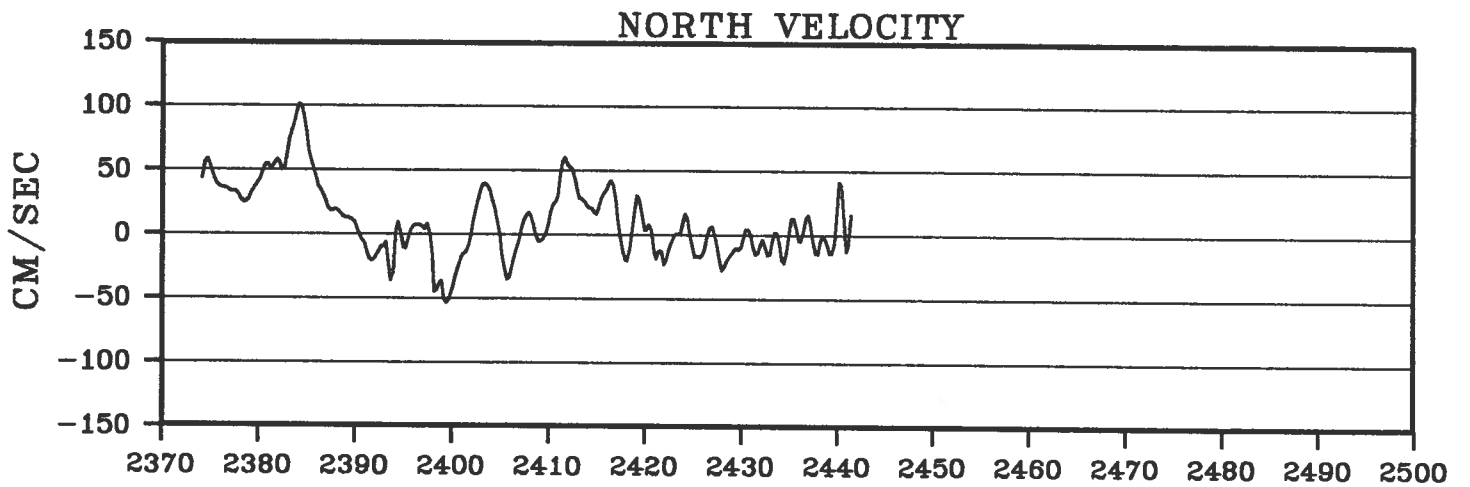
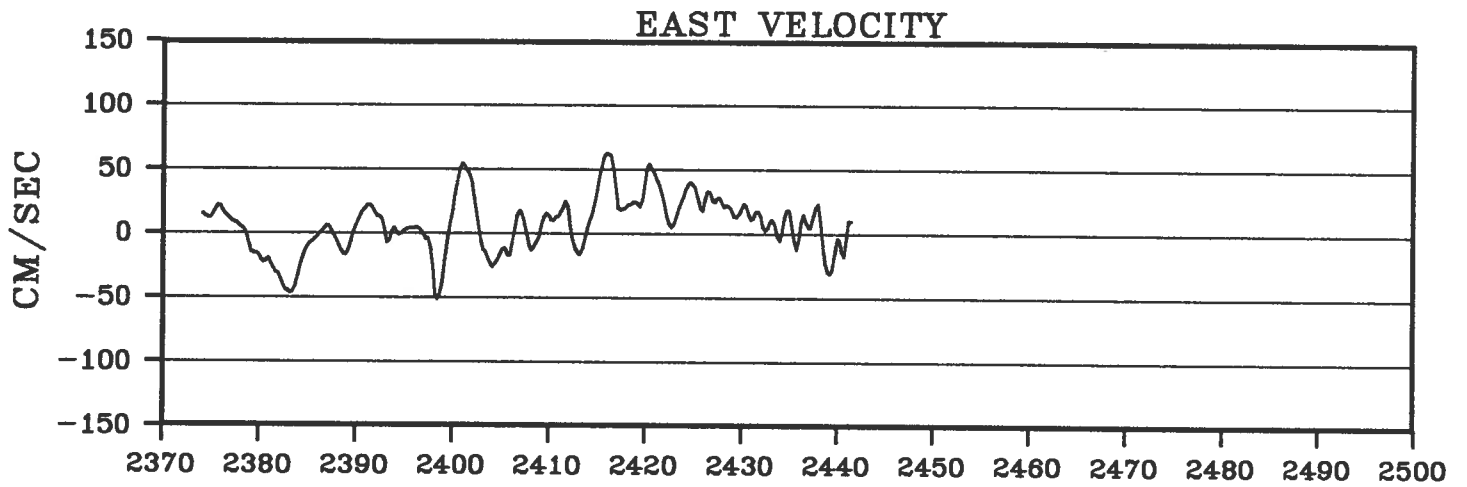
BUOY 2245



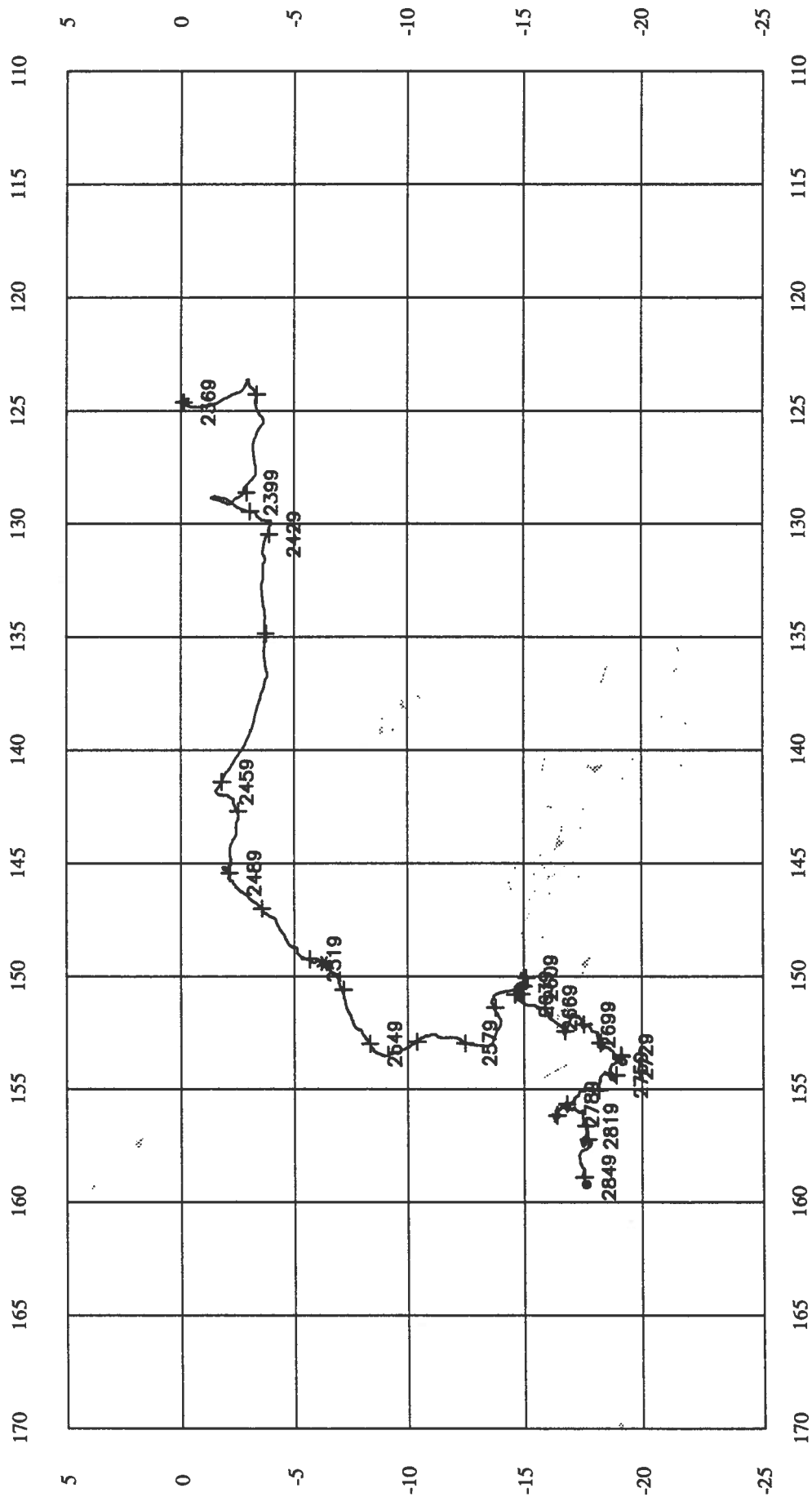
BUOY 2246



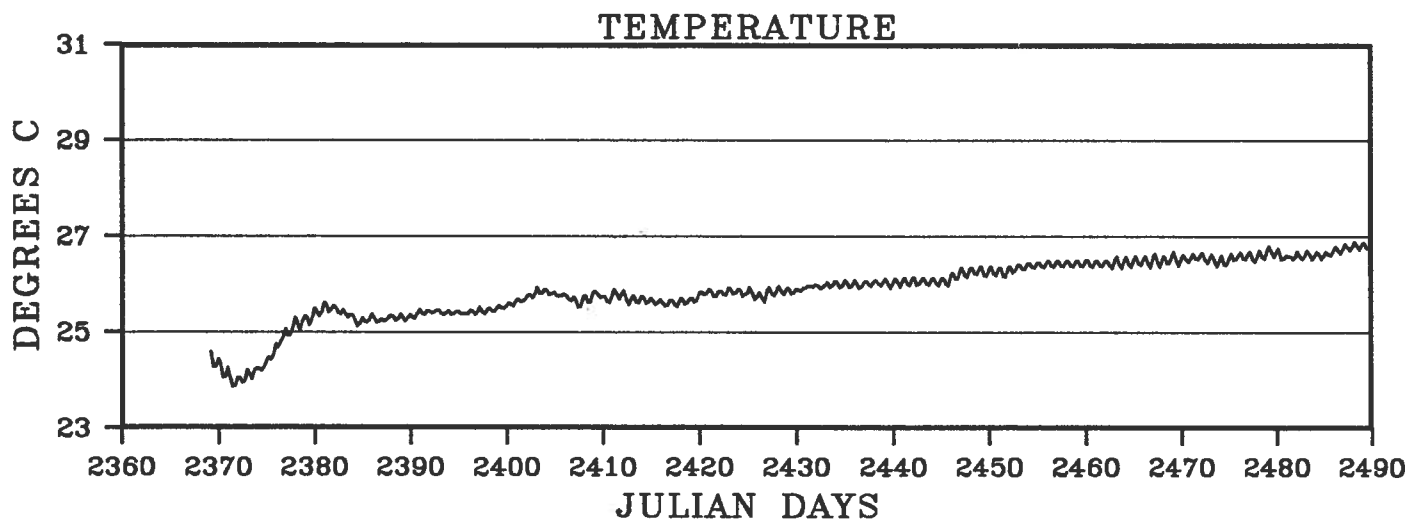
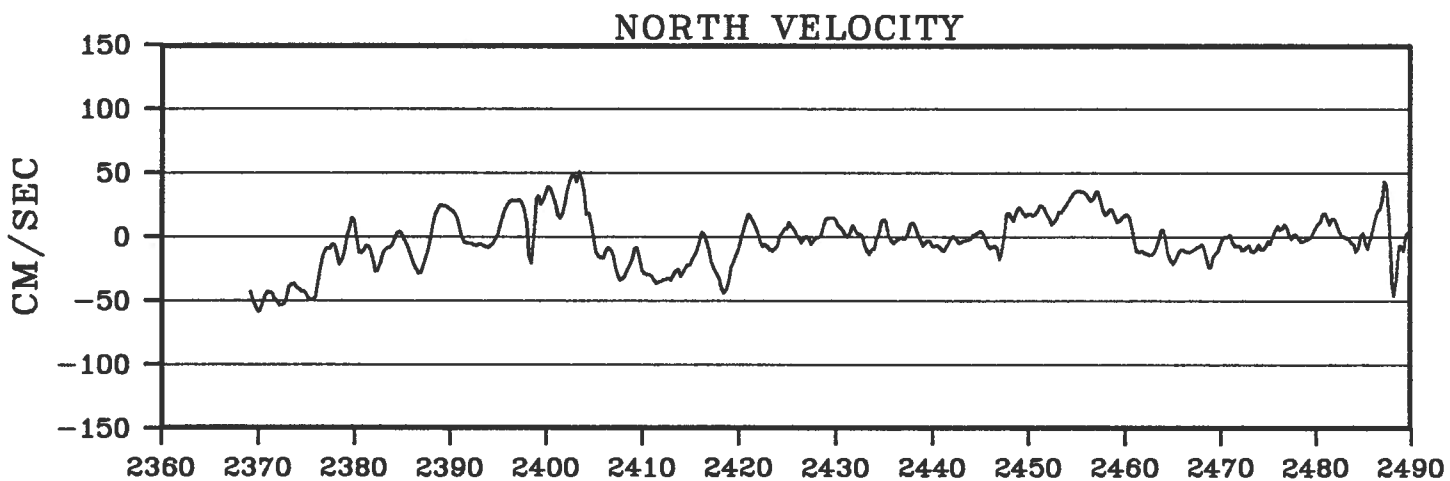
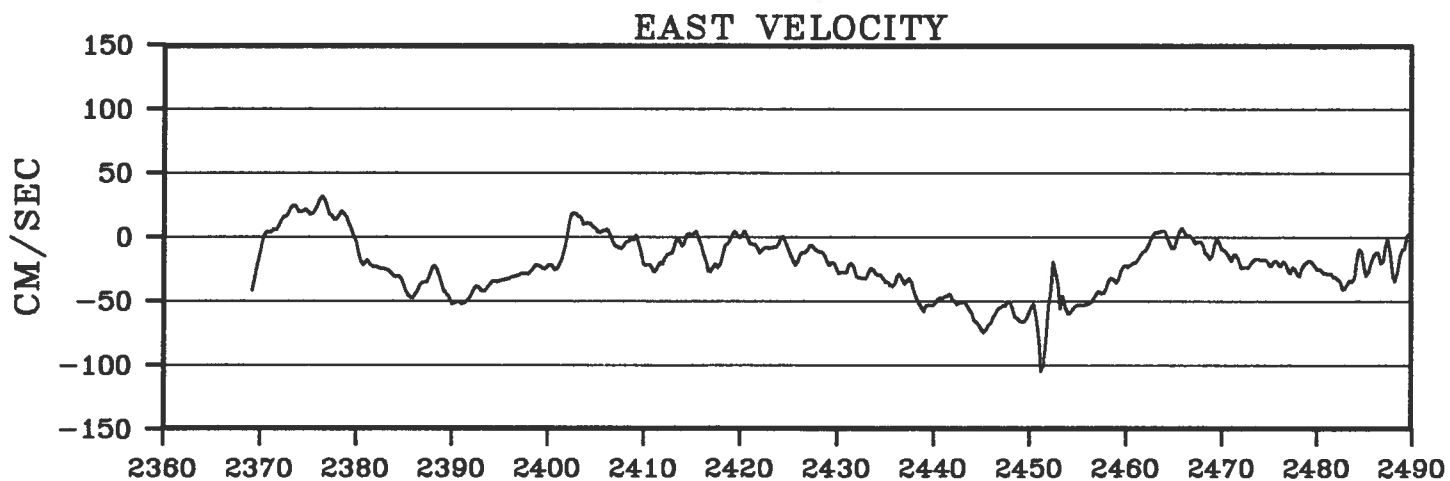
BUOY 2246



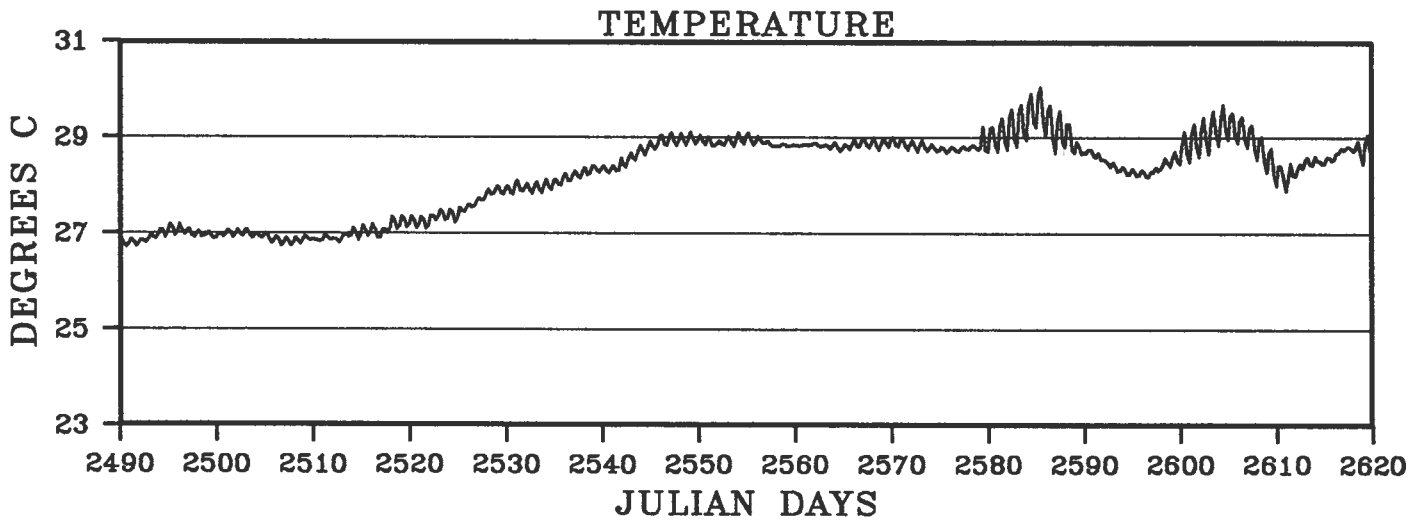
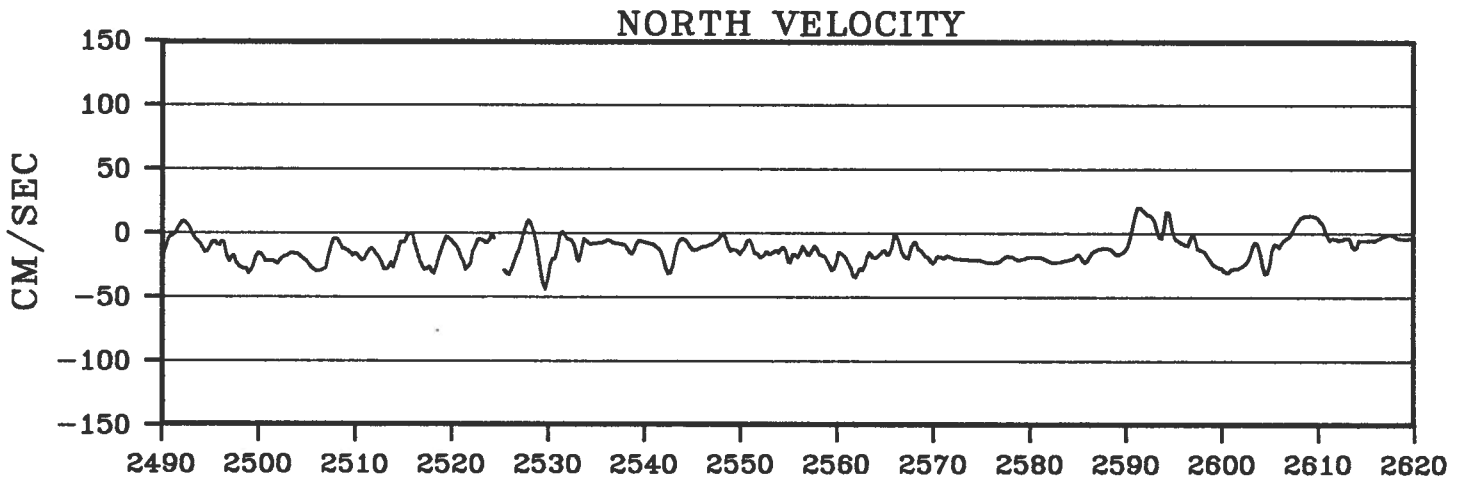
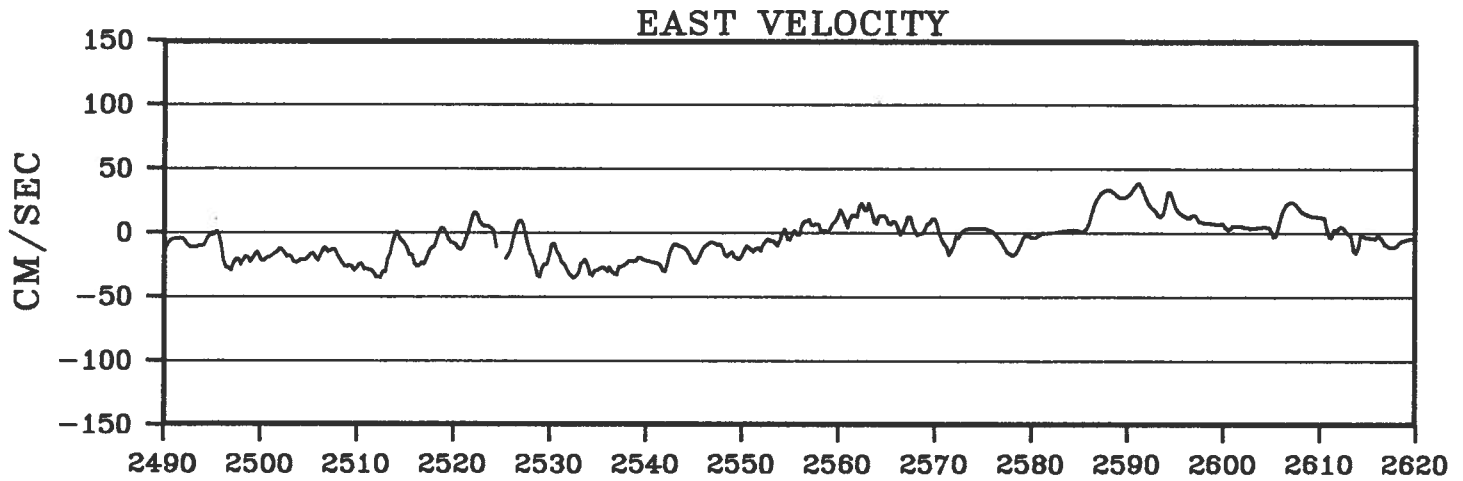
BUOY 2247



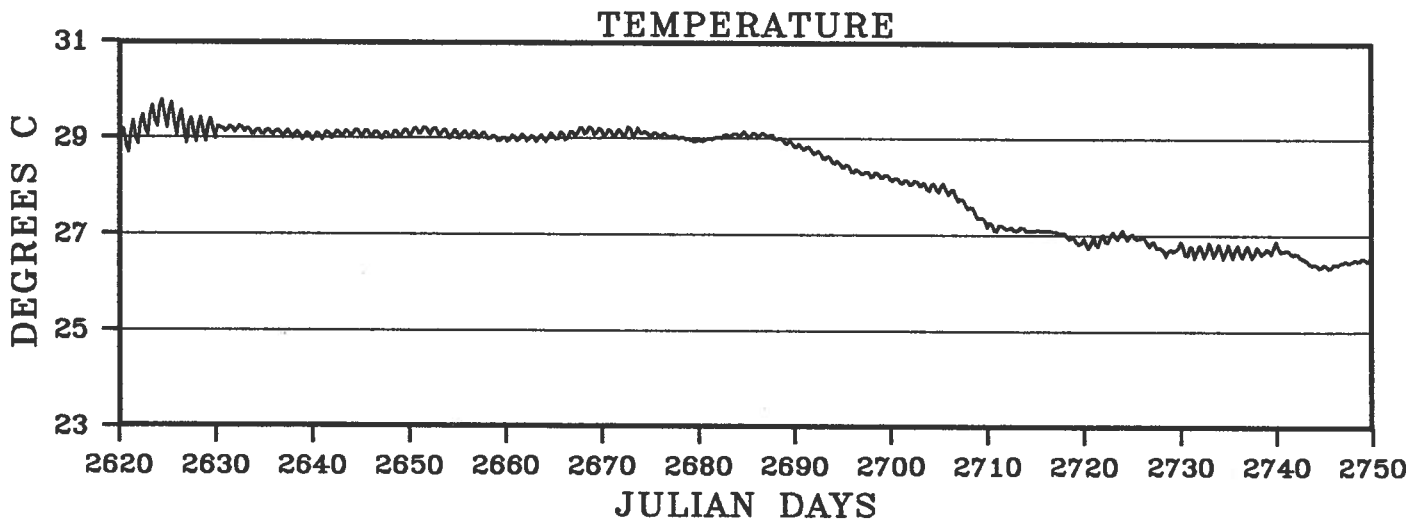
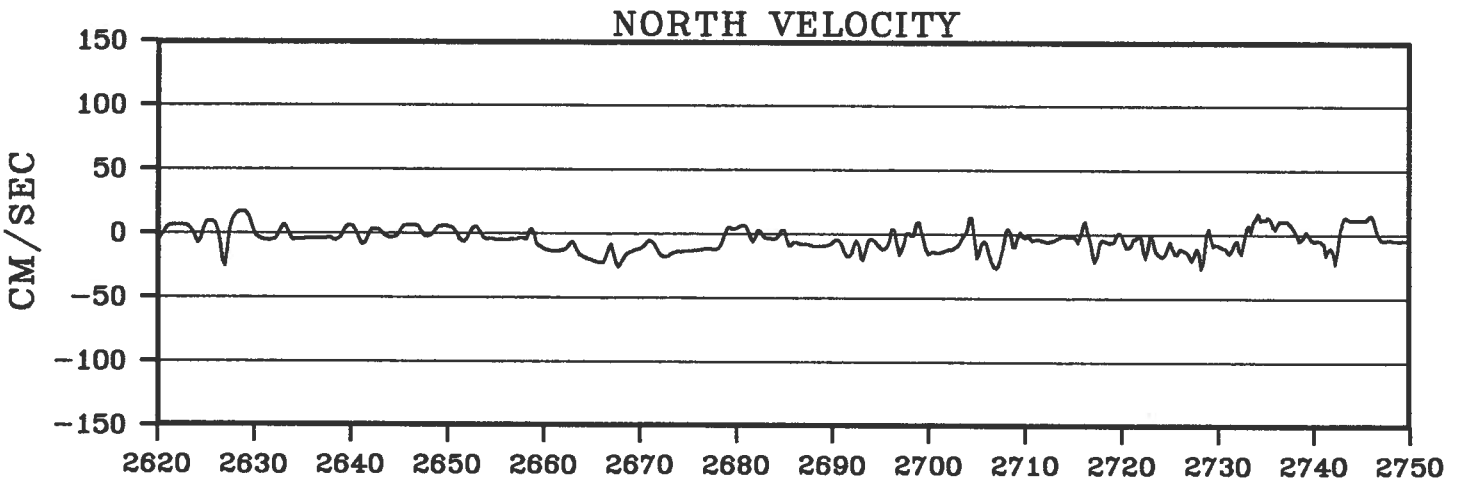
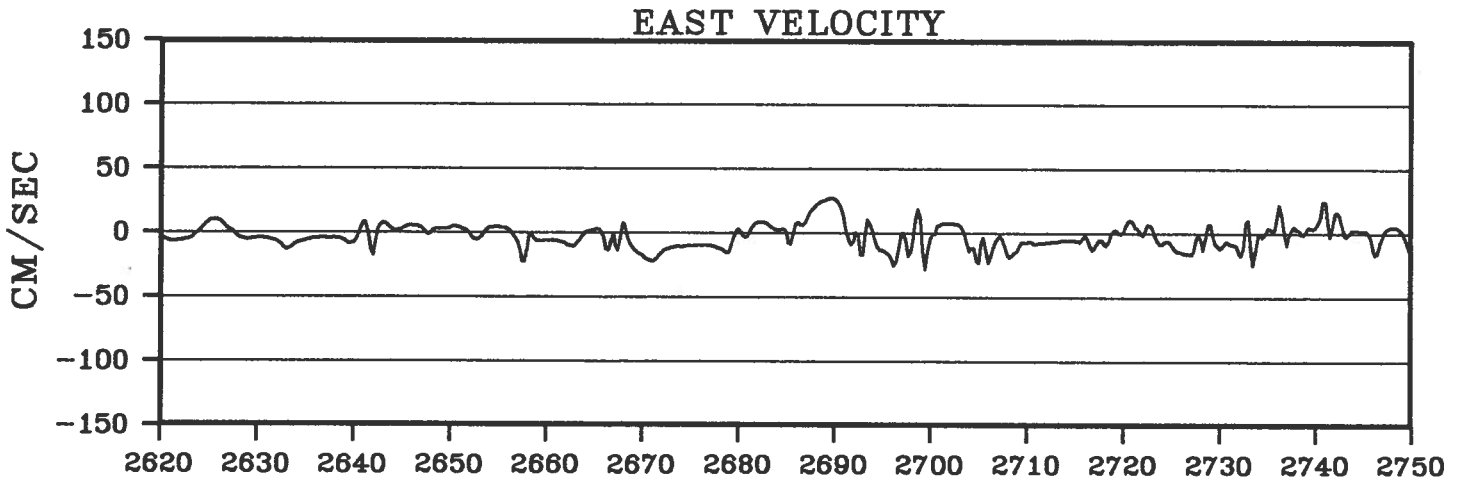
BUOY 2247



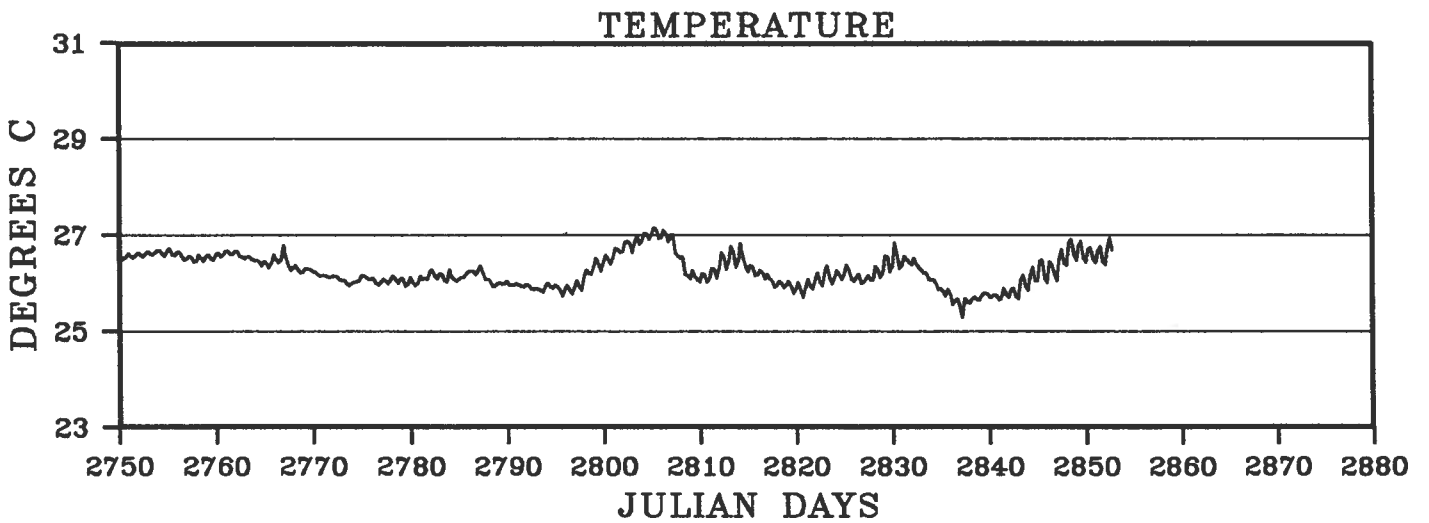
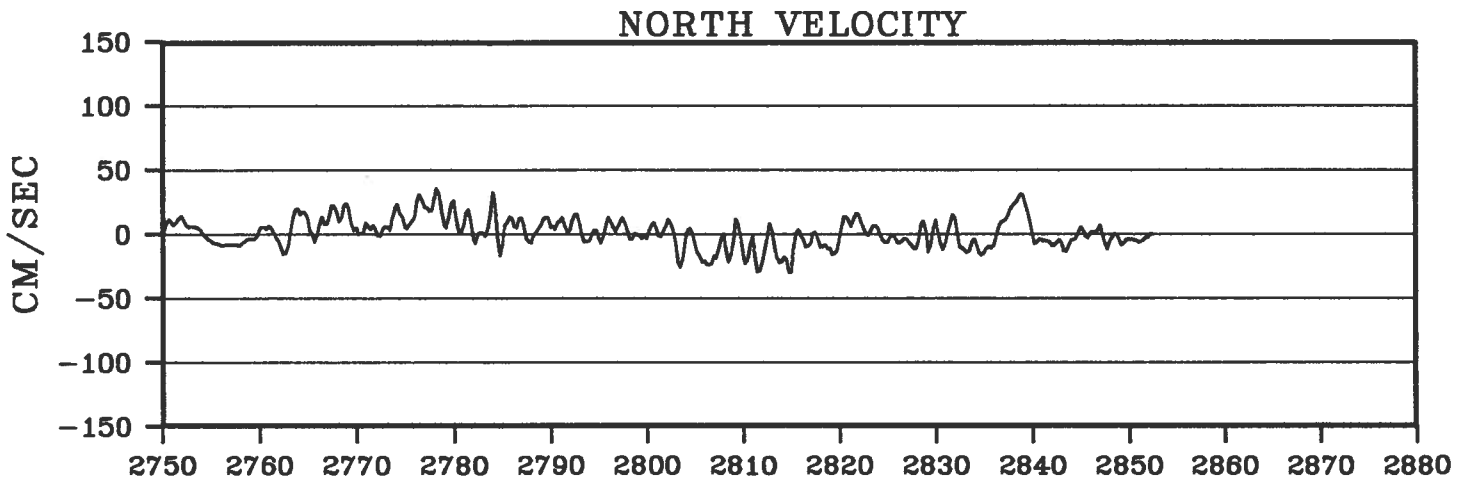
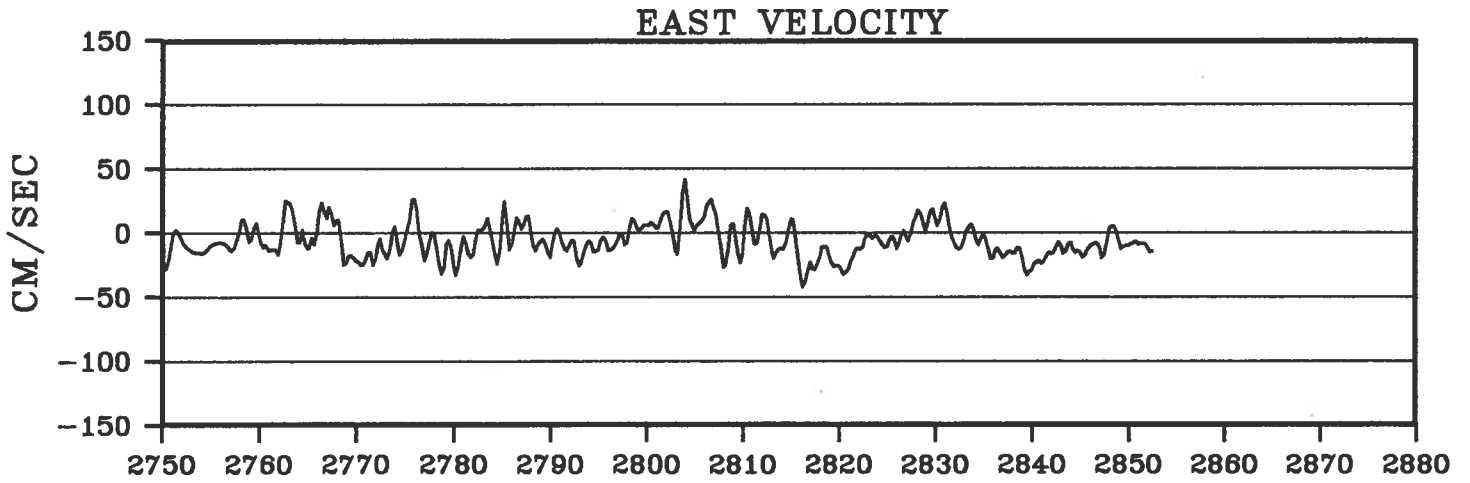
BUOY 2247



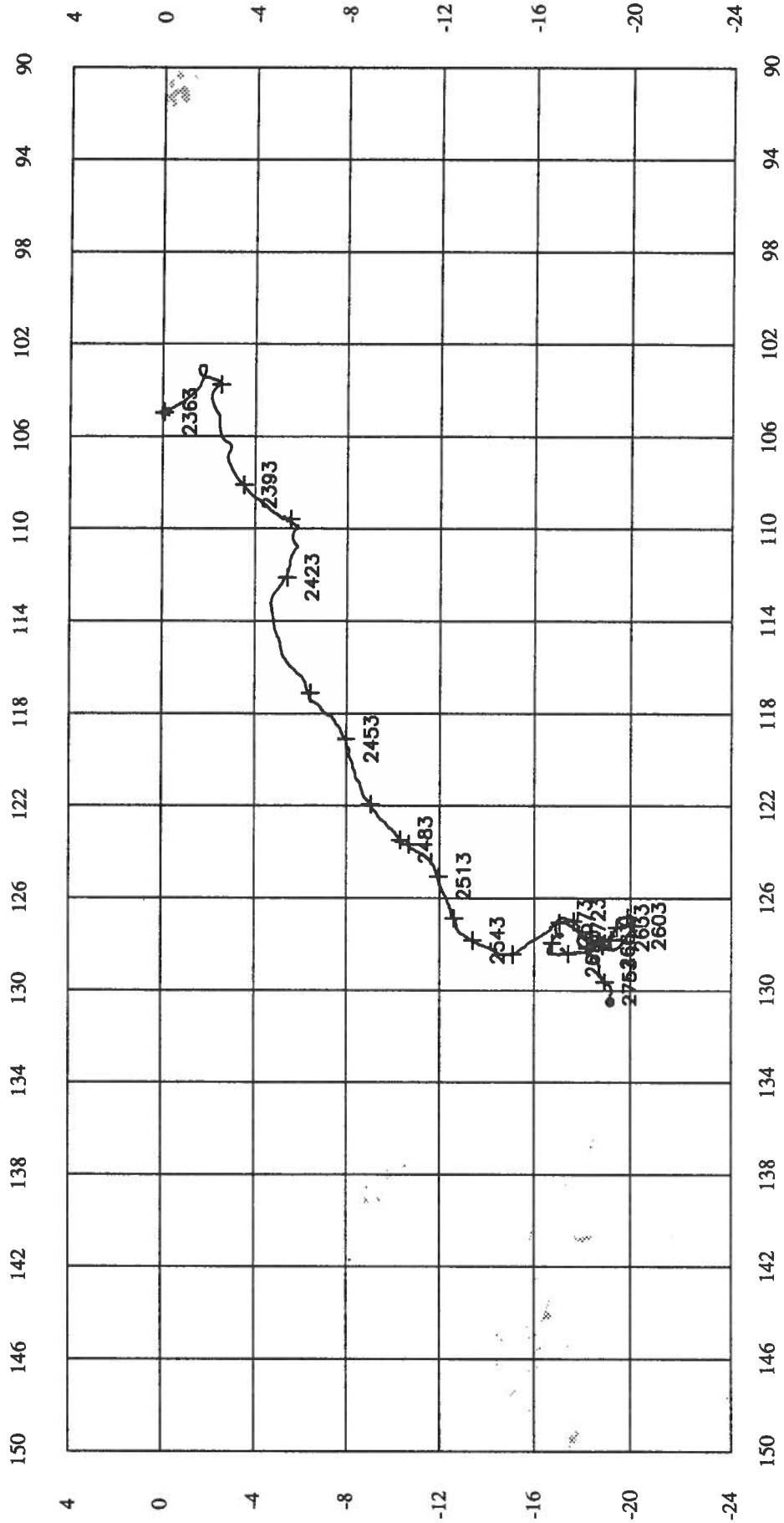
BUOY 2247



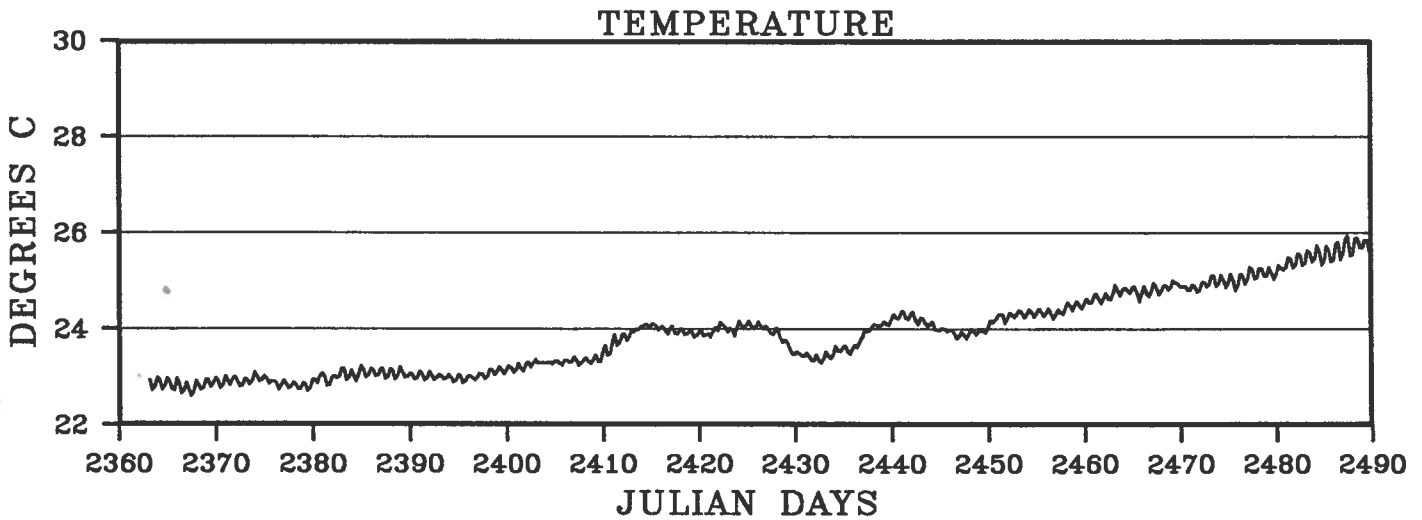
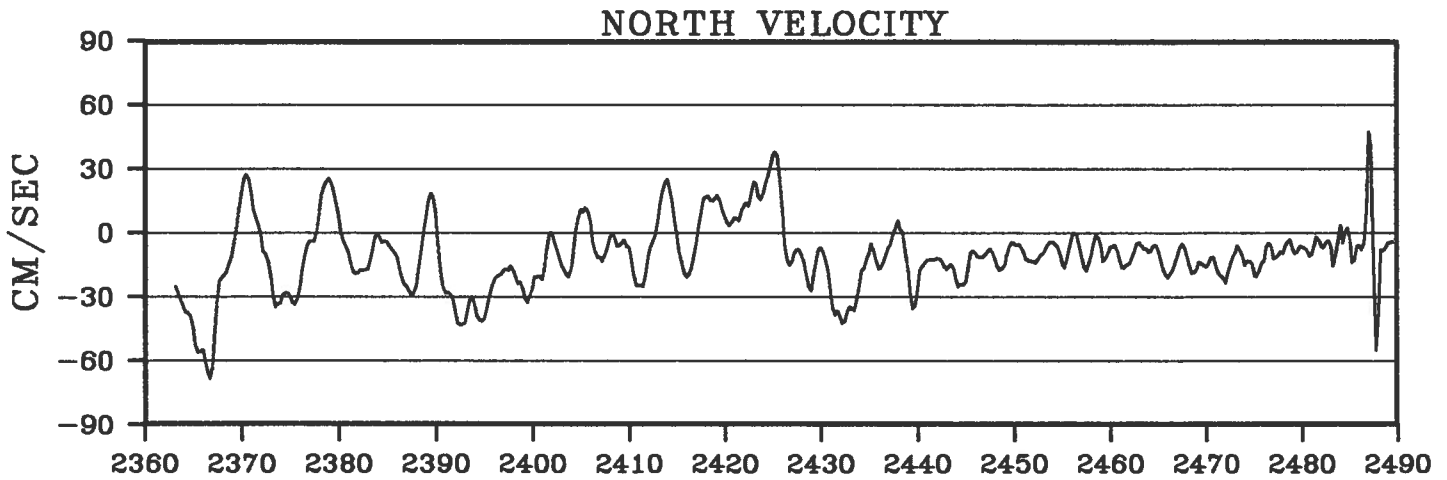
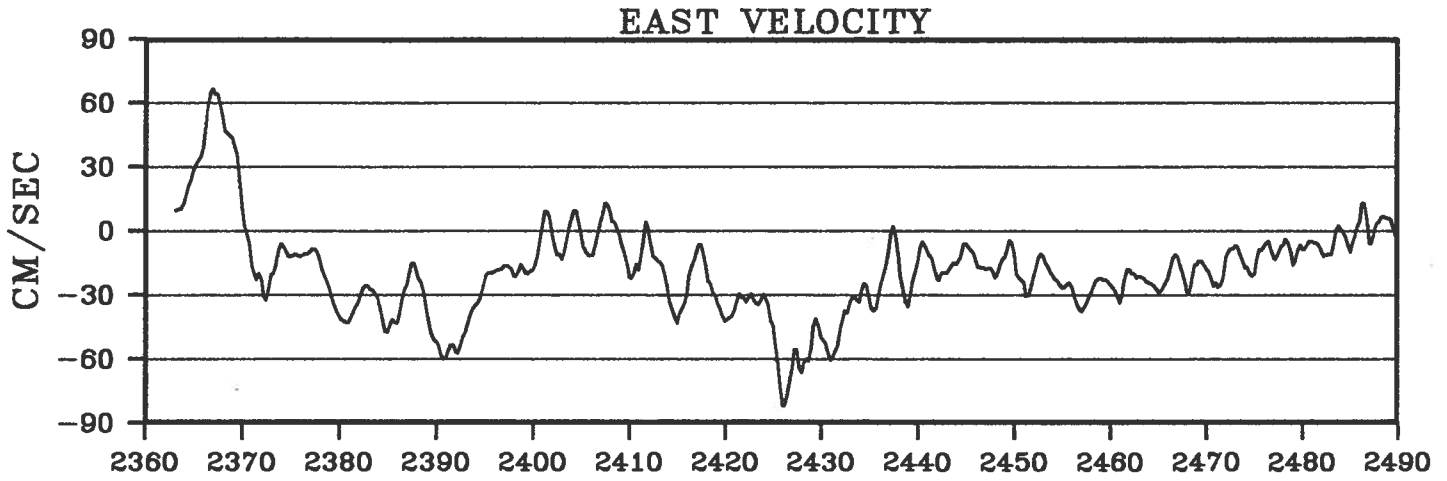
BUOY 2247



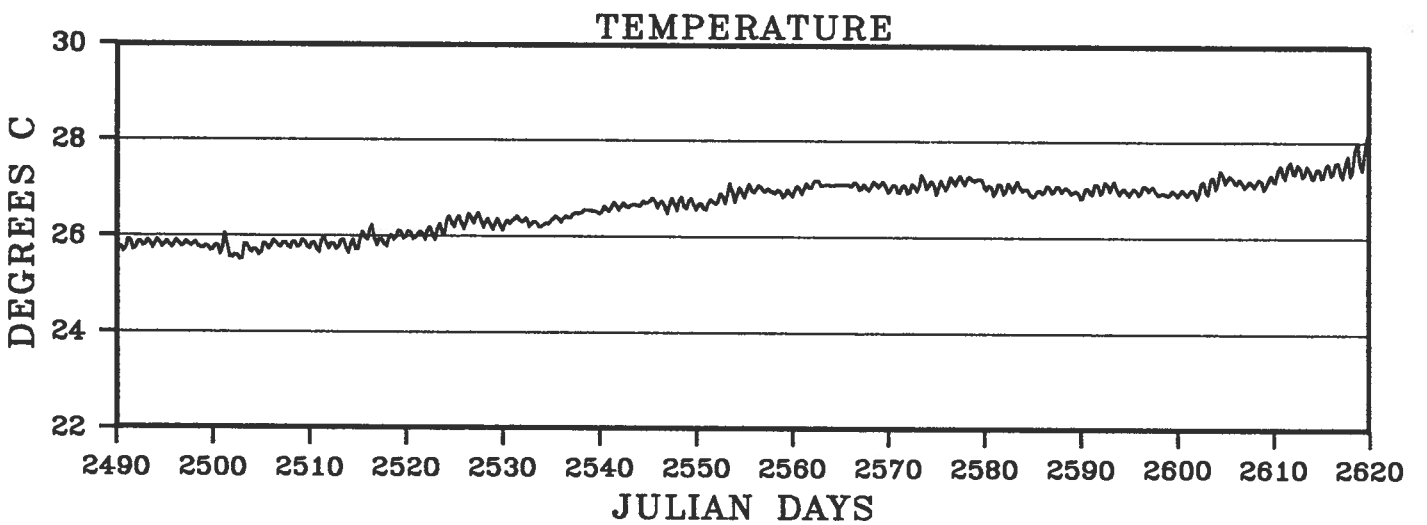
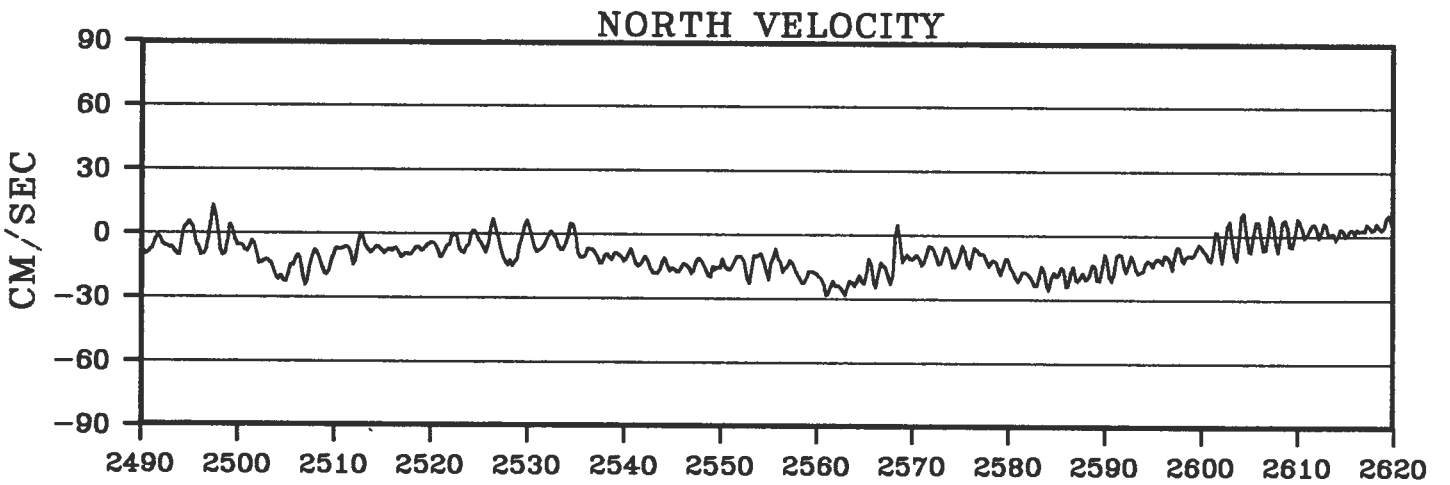
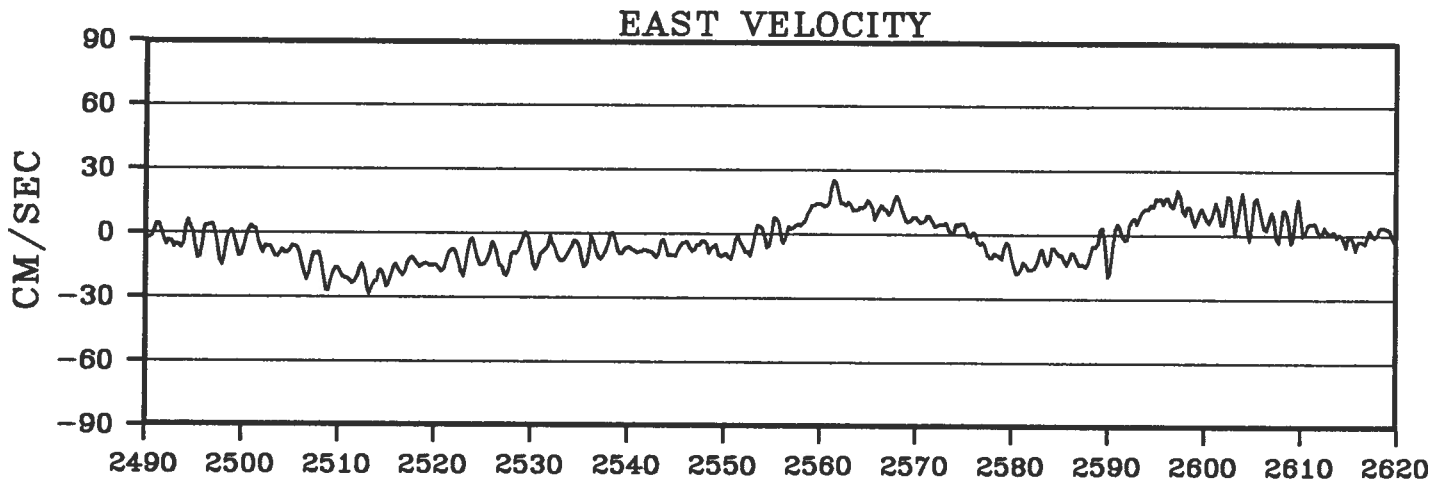
BUOY 2249



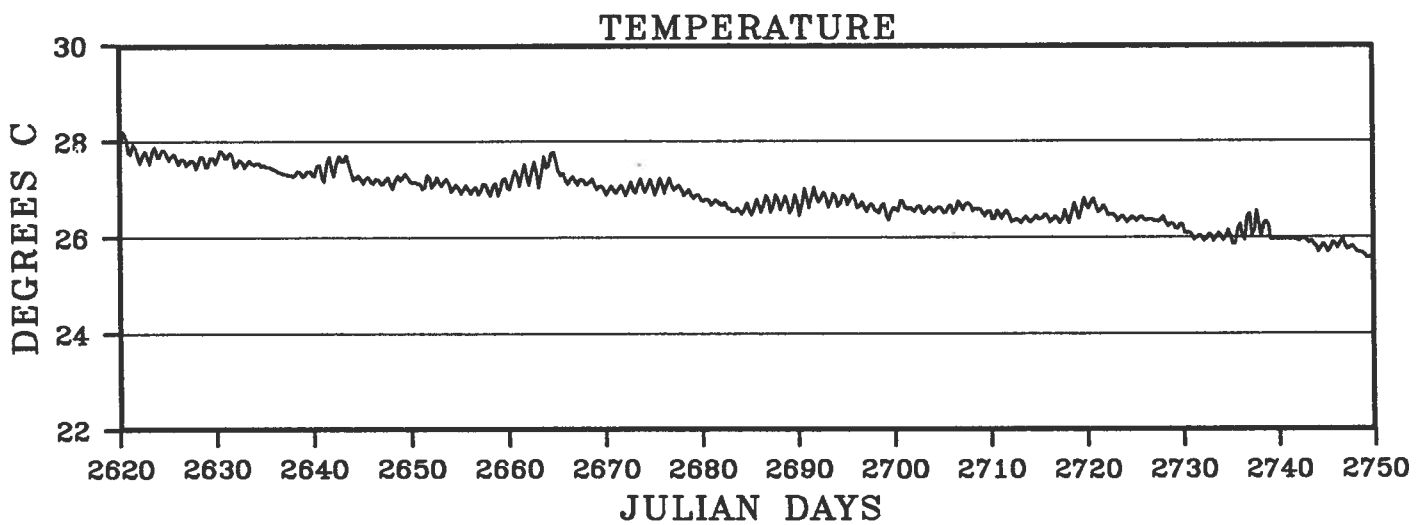
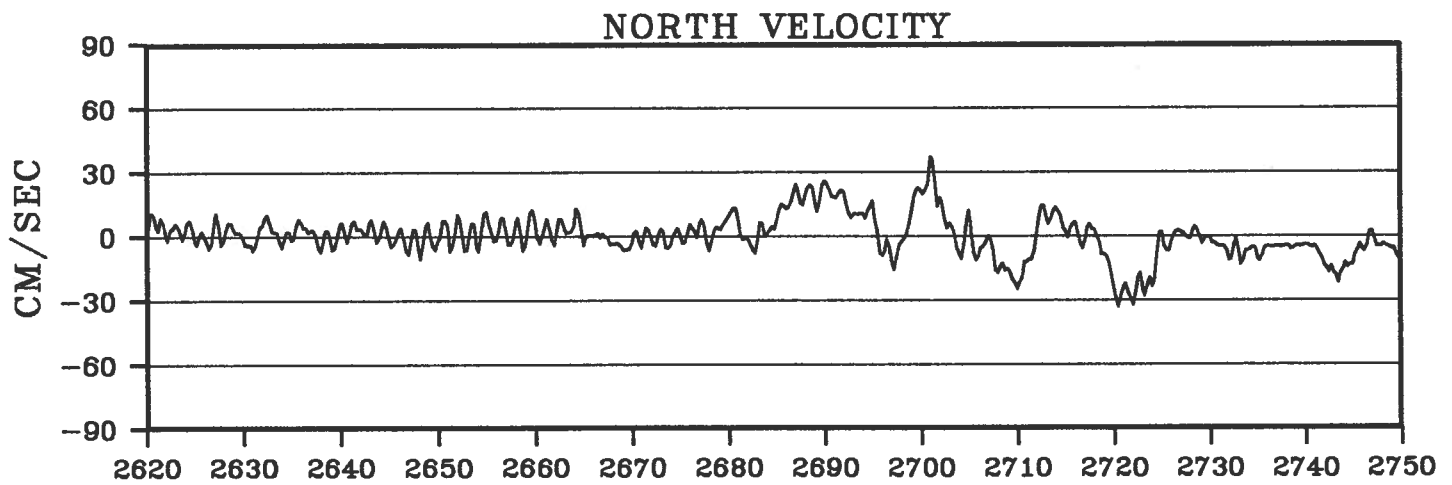
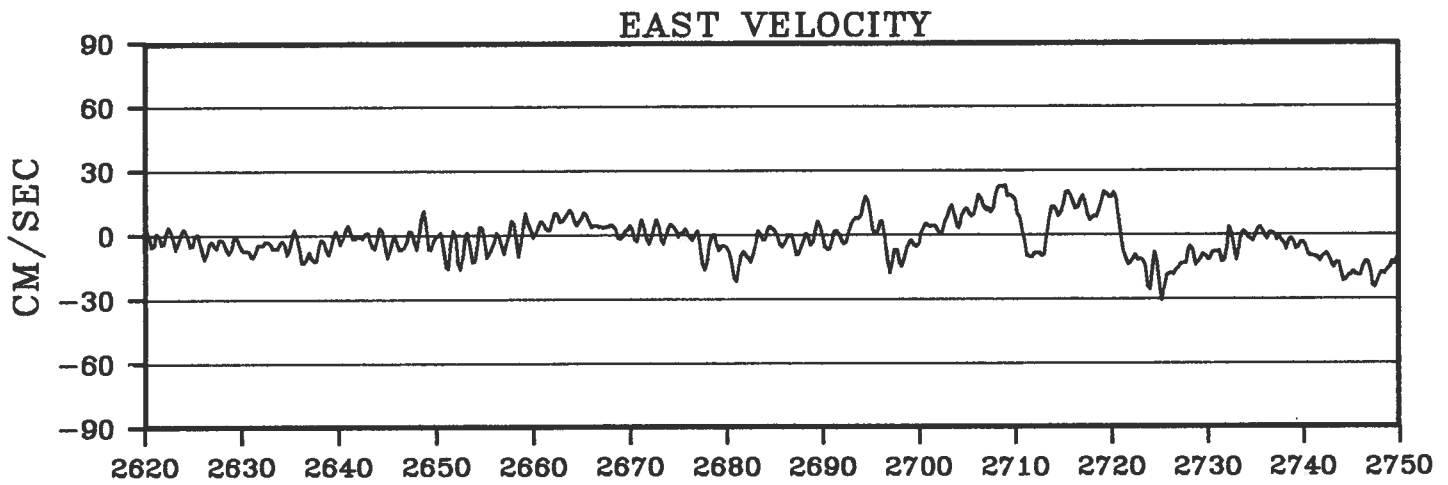
BUOY 2249



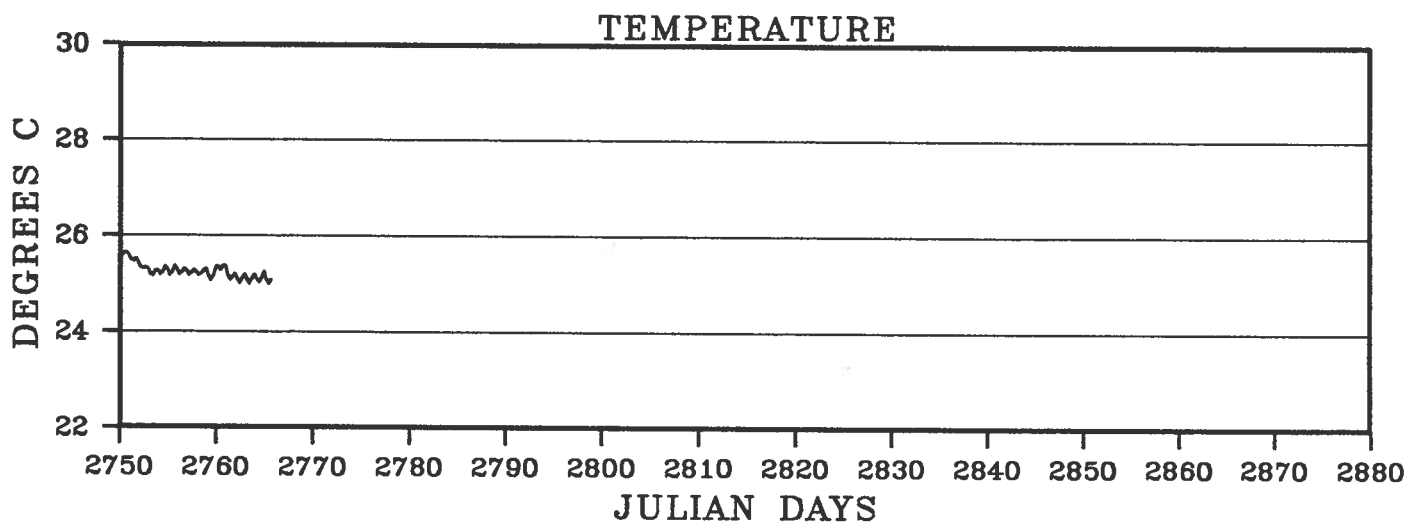
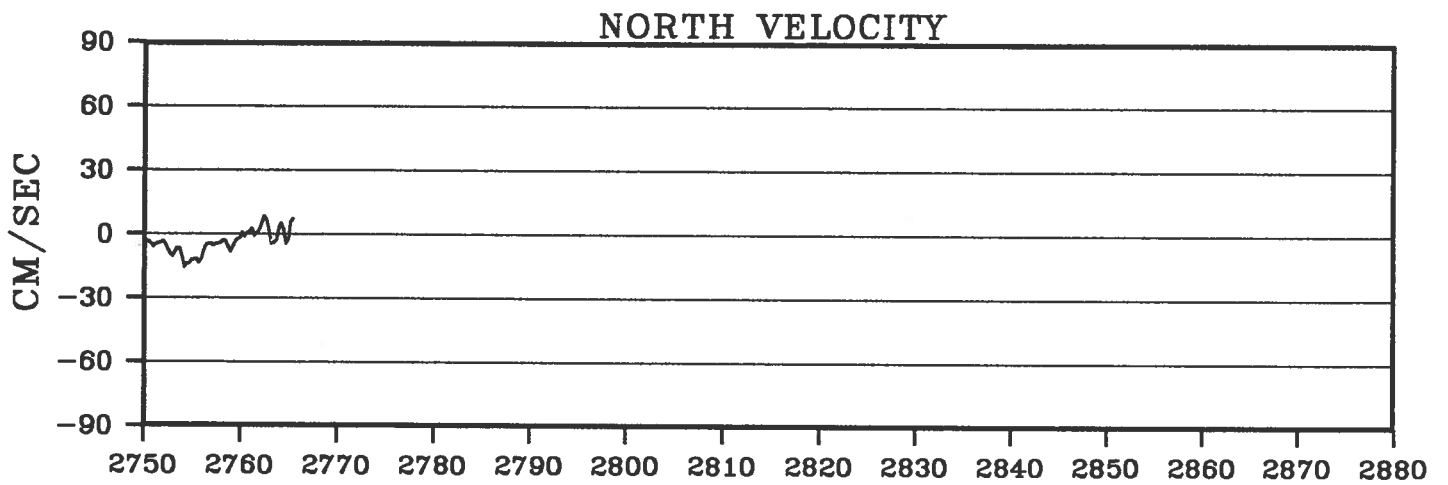
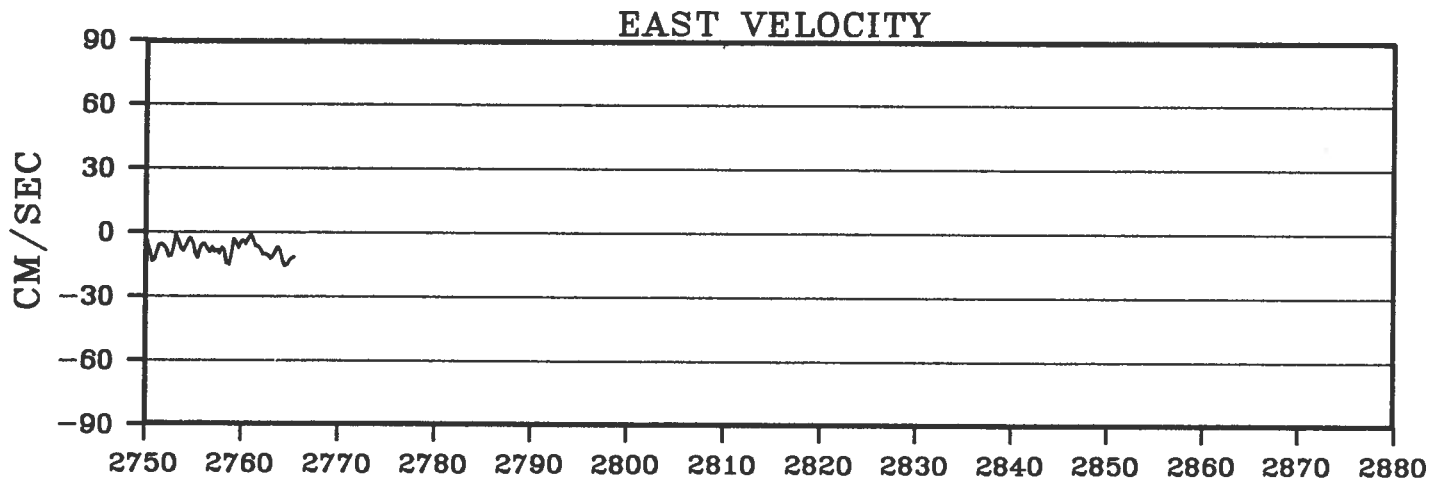
BUOY 2249



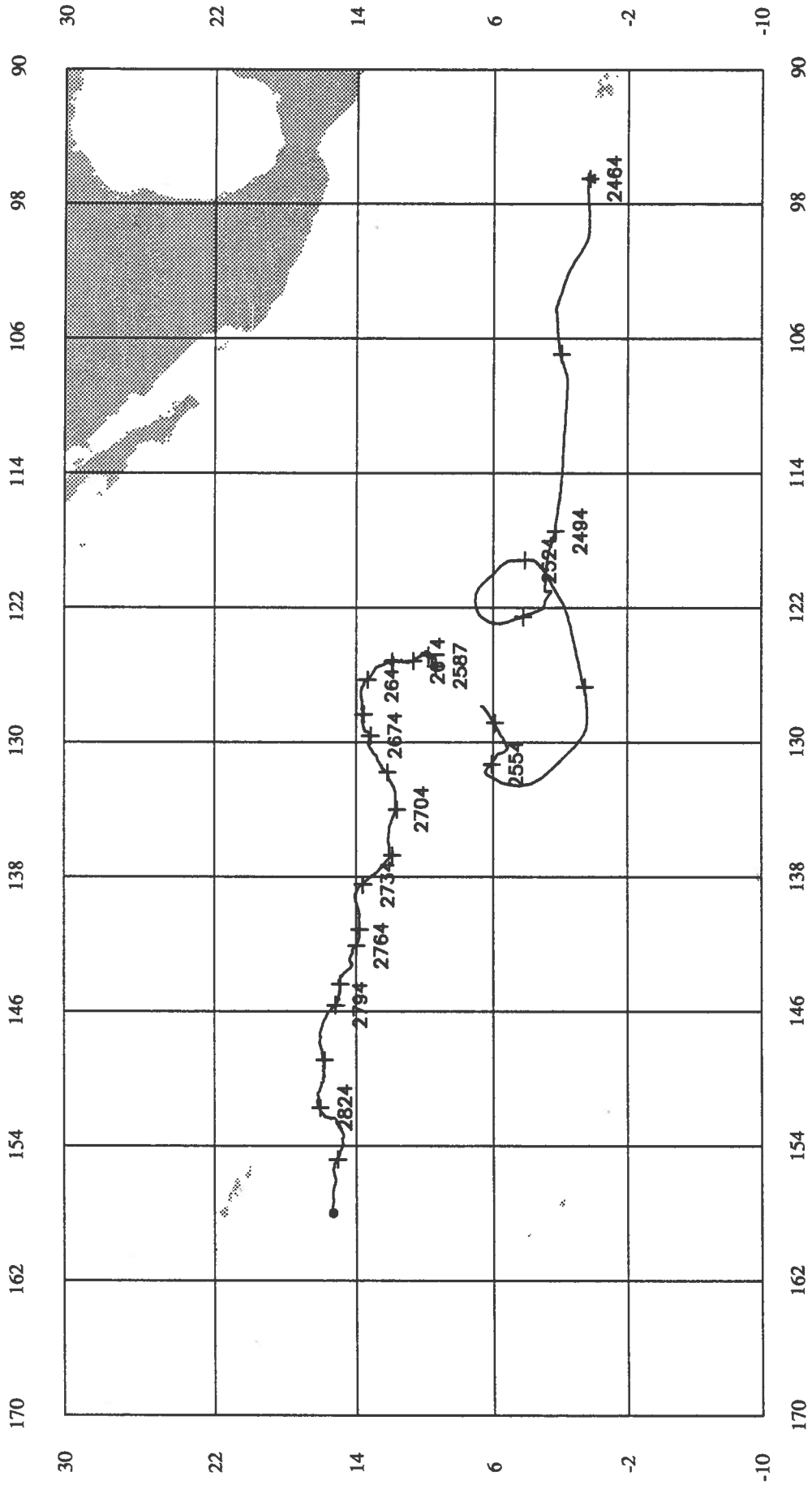
BUOY 2249



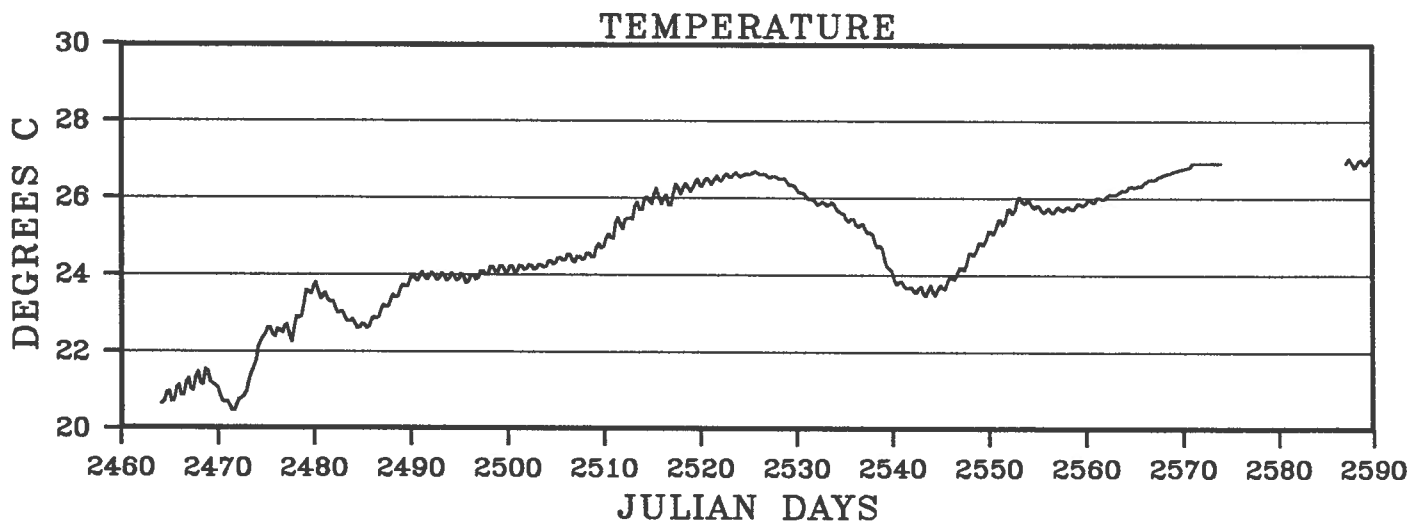
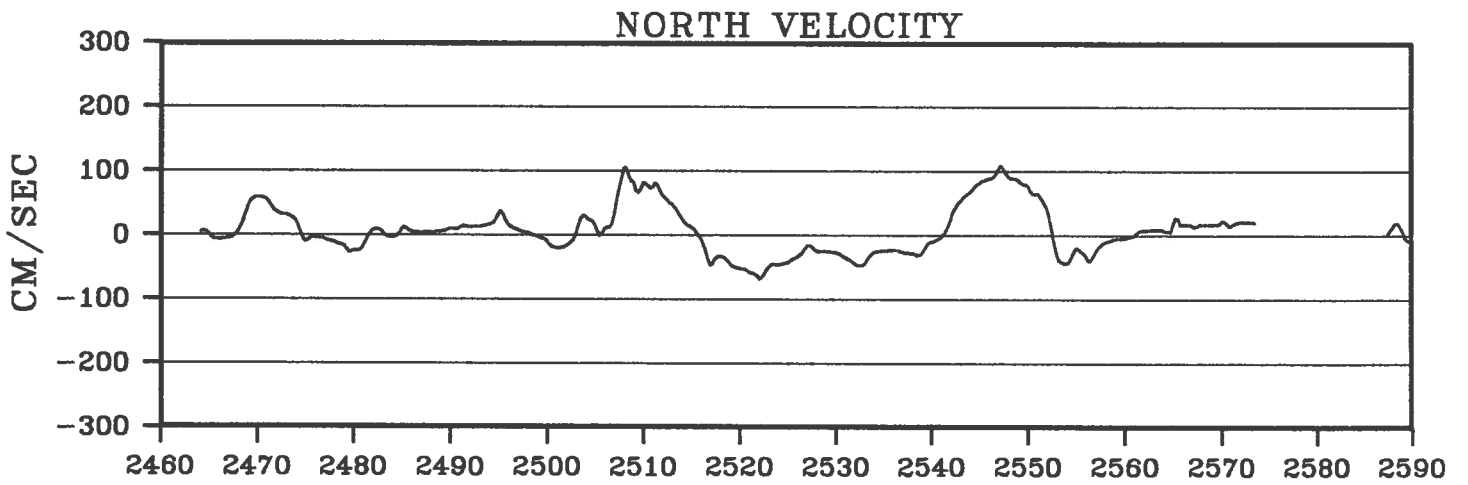
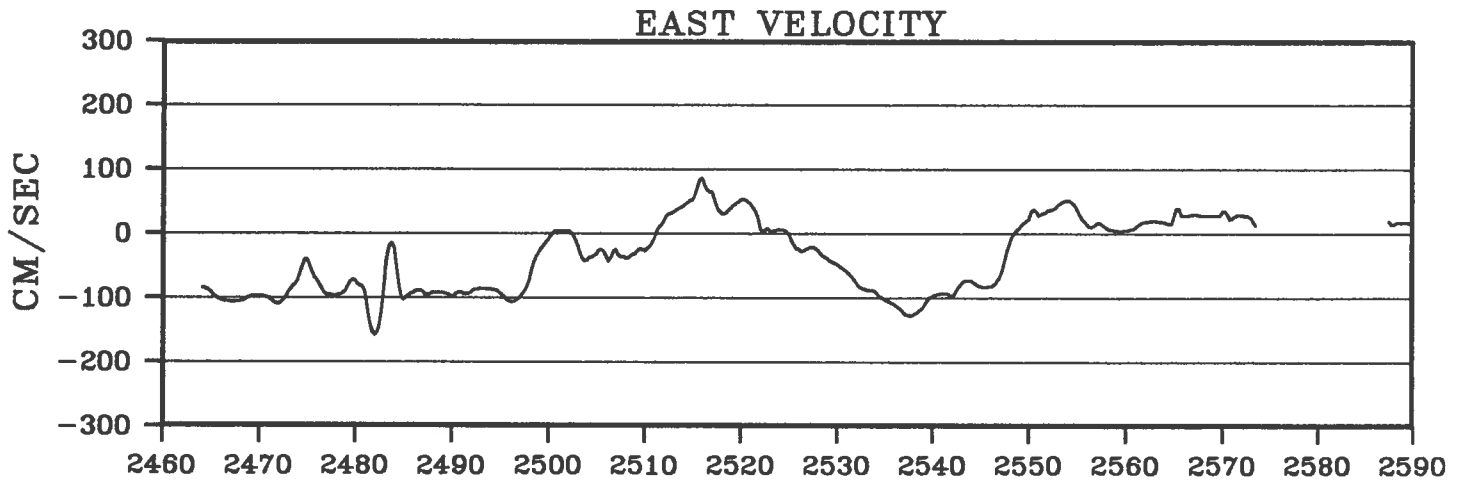
BUOY 2249



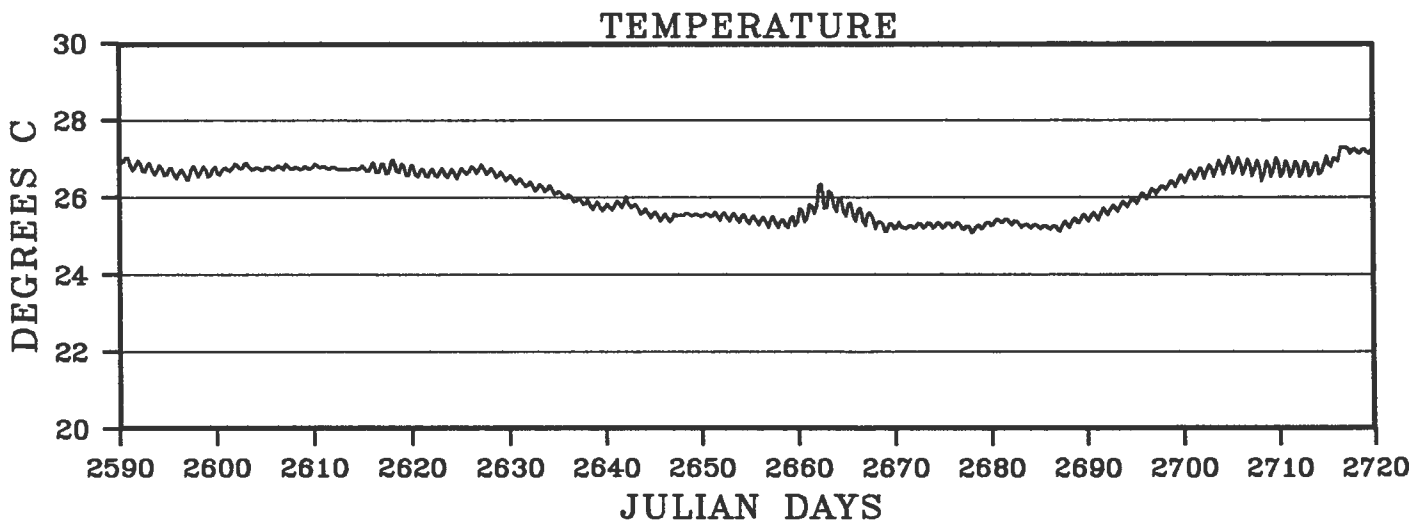
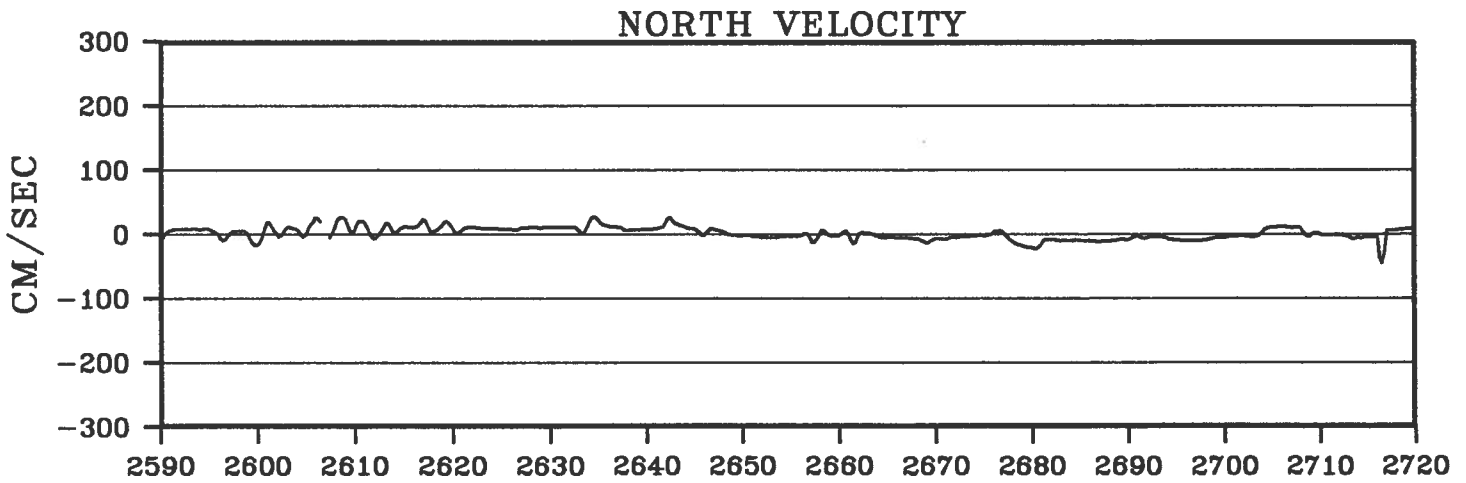
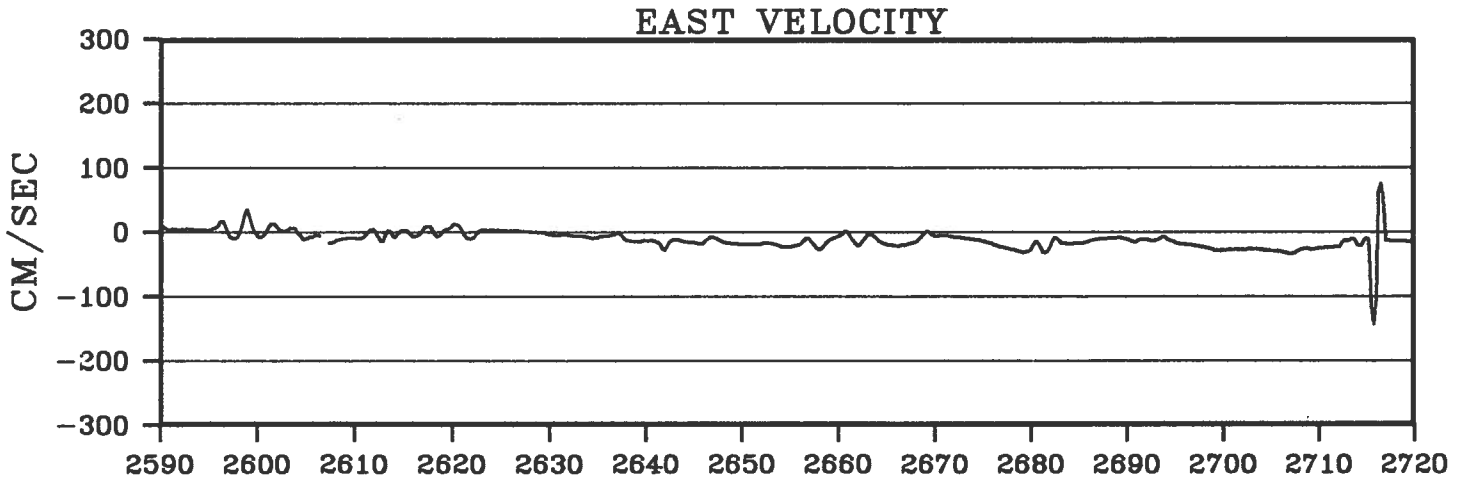
BUOY 2280



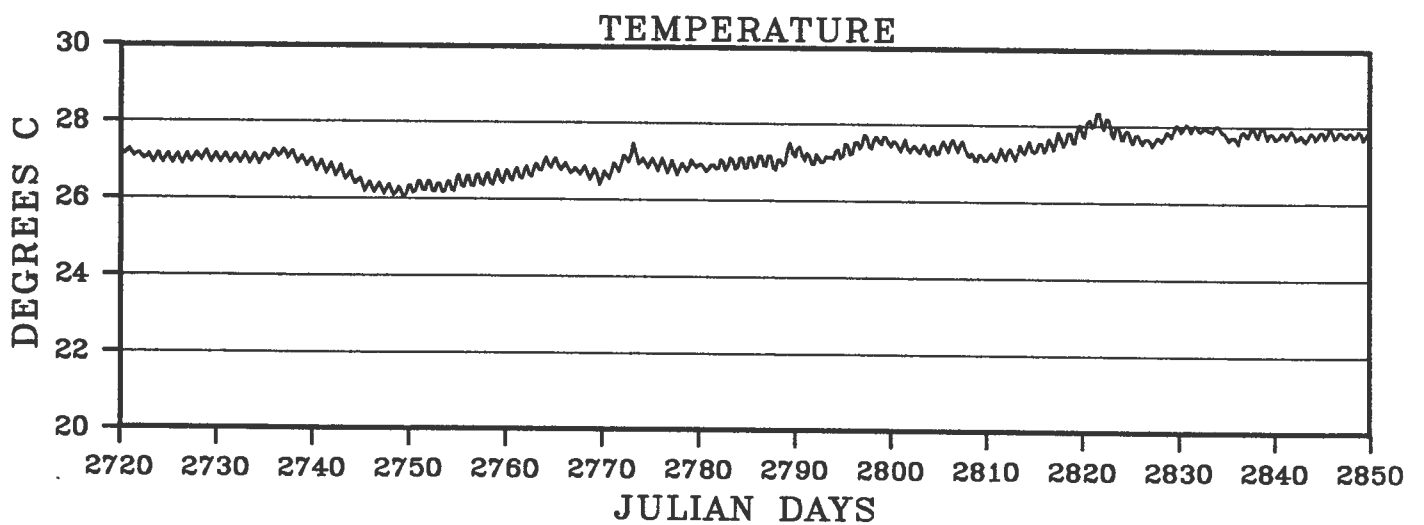
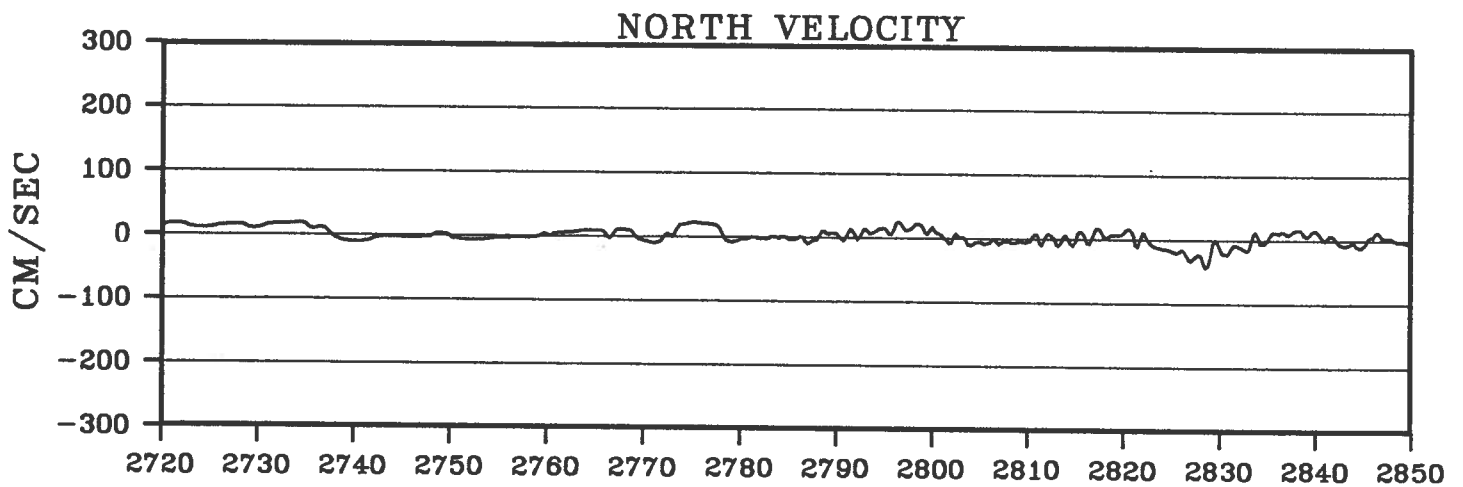
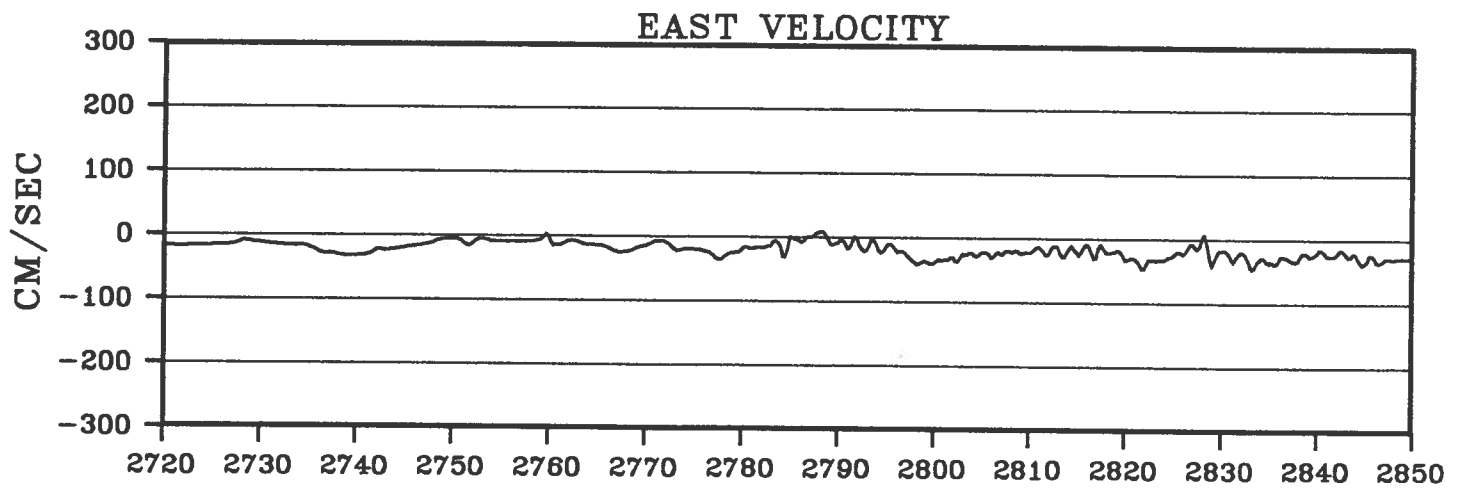
BUOY 2280



BUOY 2280

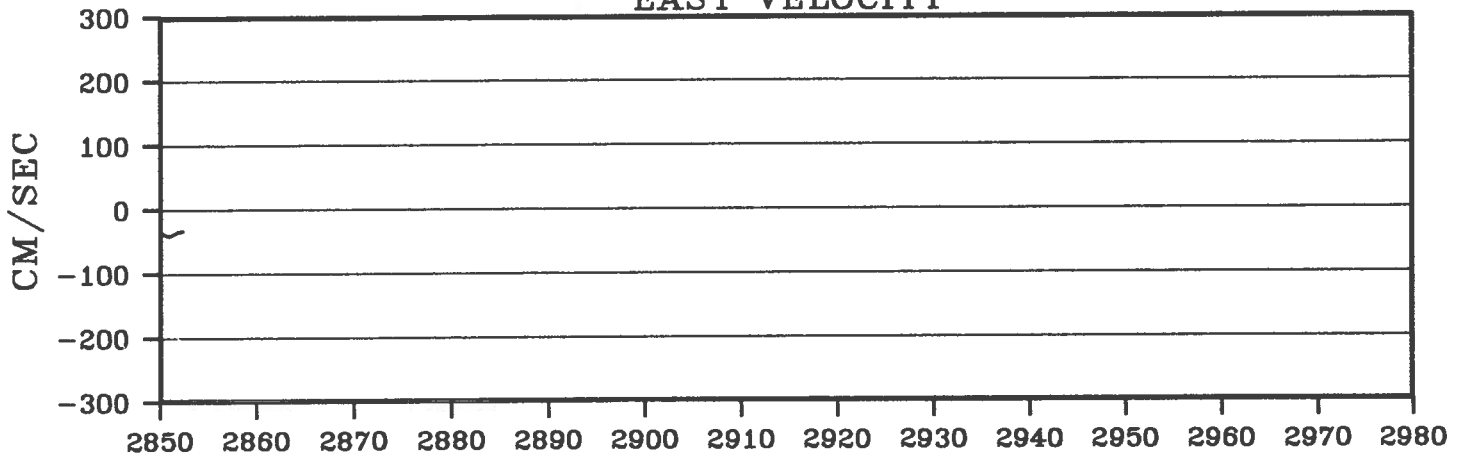


BUOY 2280

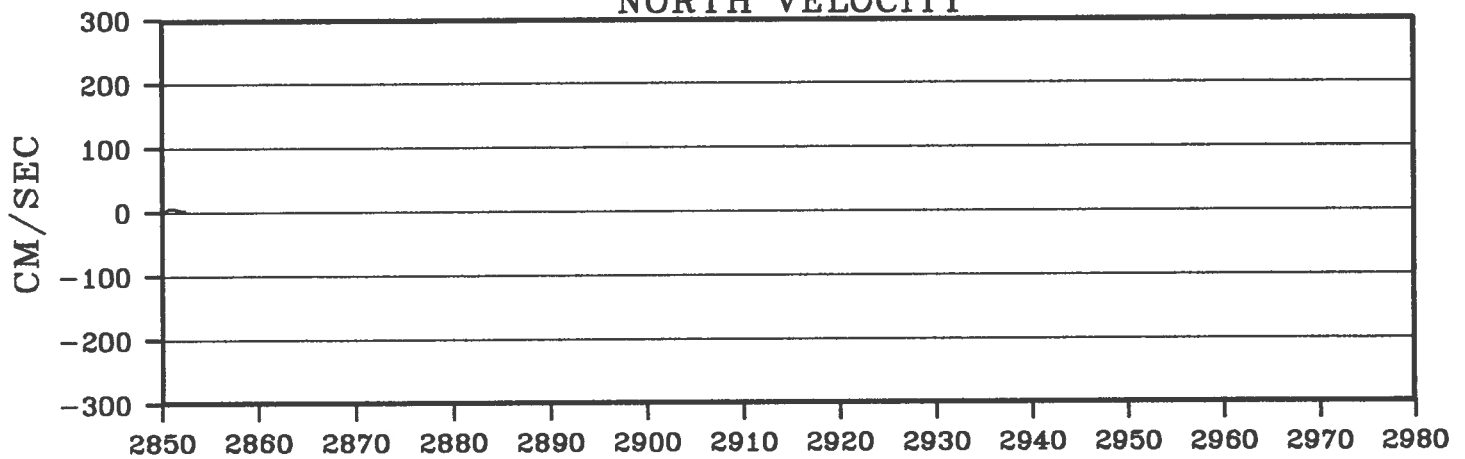


BUOY 2280

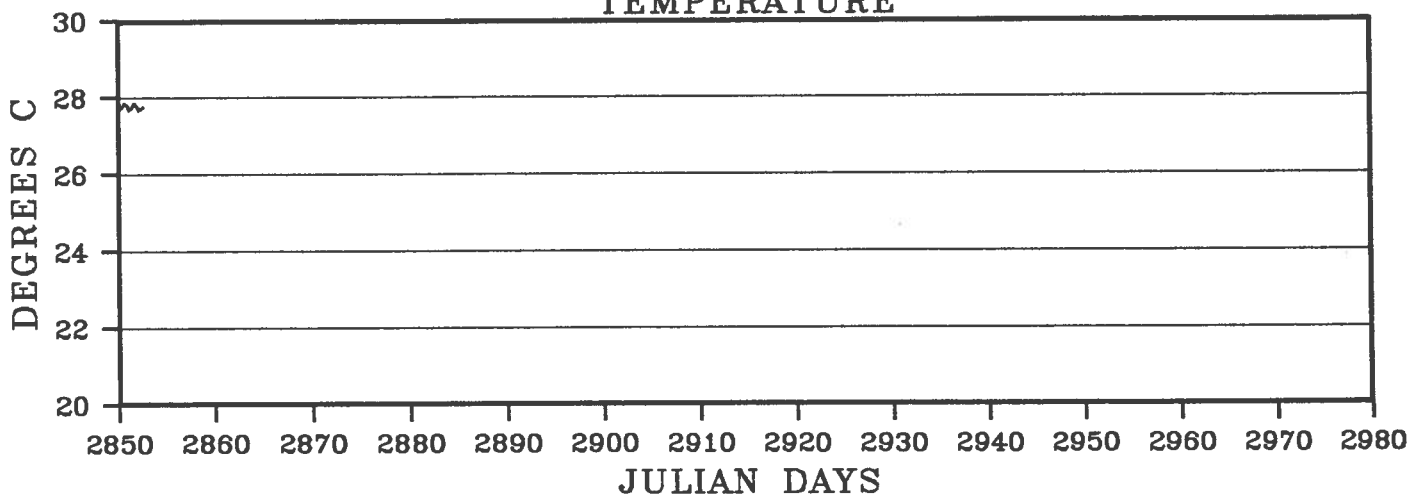
EAST VELOCITY



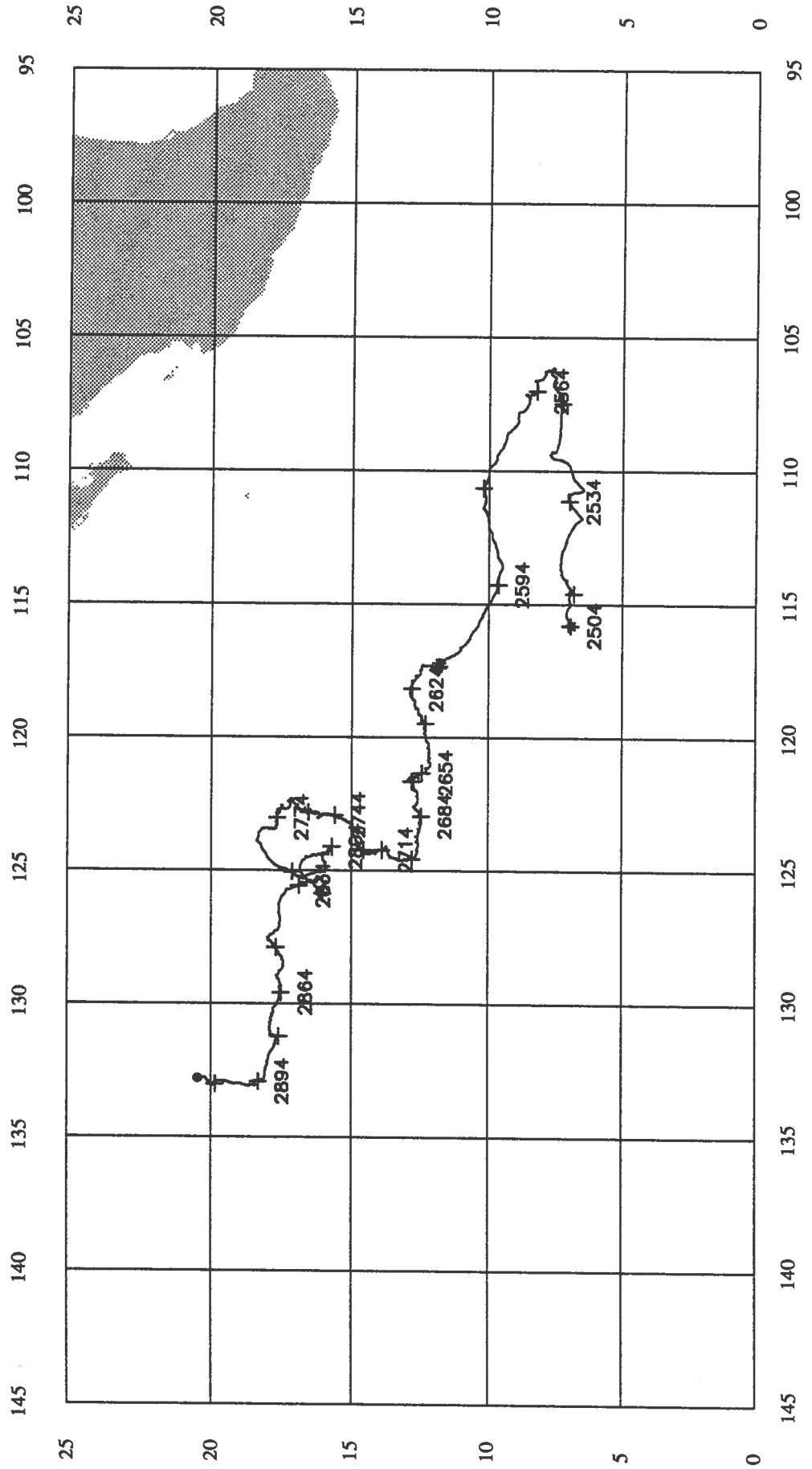
NORTH VELOCITY



TEMPERATURE

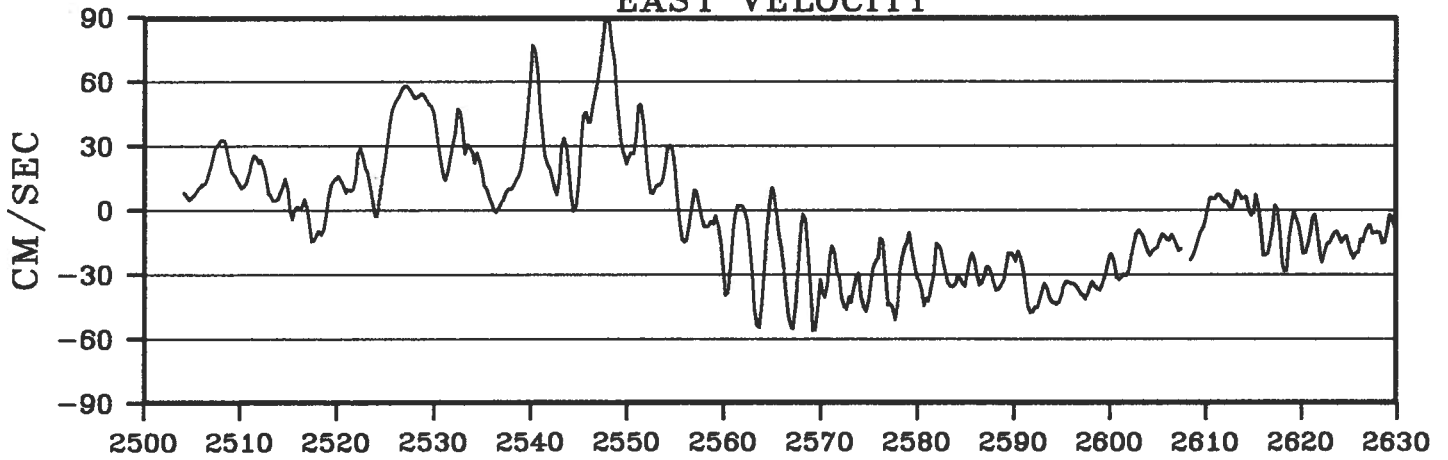


BUOY 2281

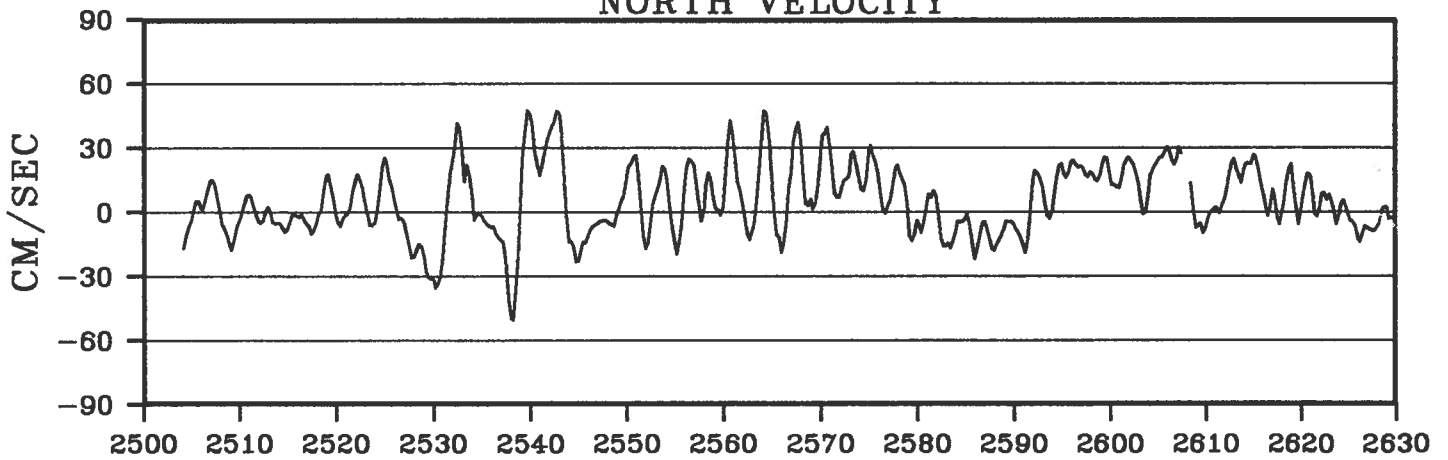


BUOY 2281

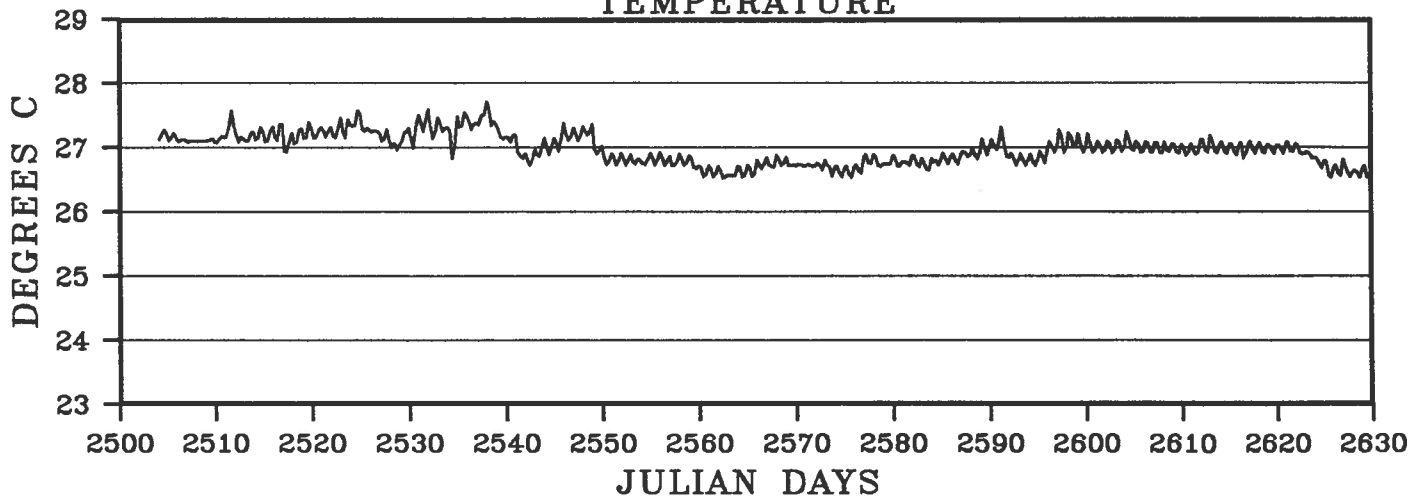
EAST VELOCITY



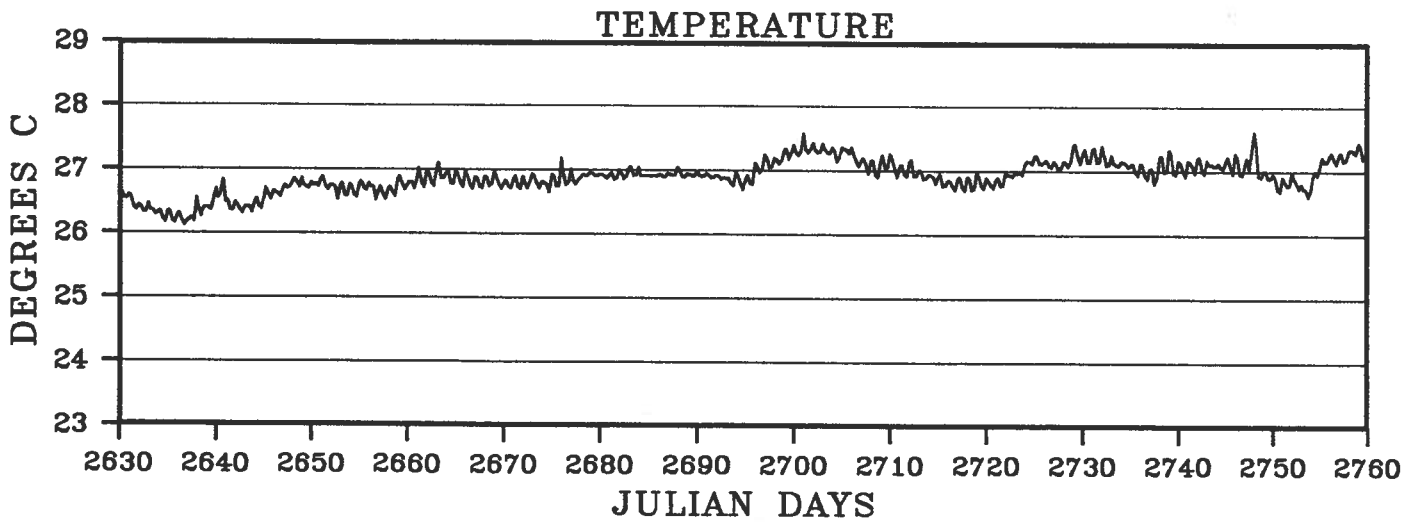
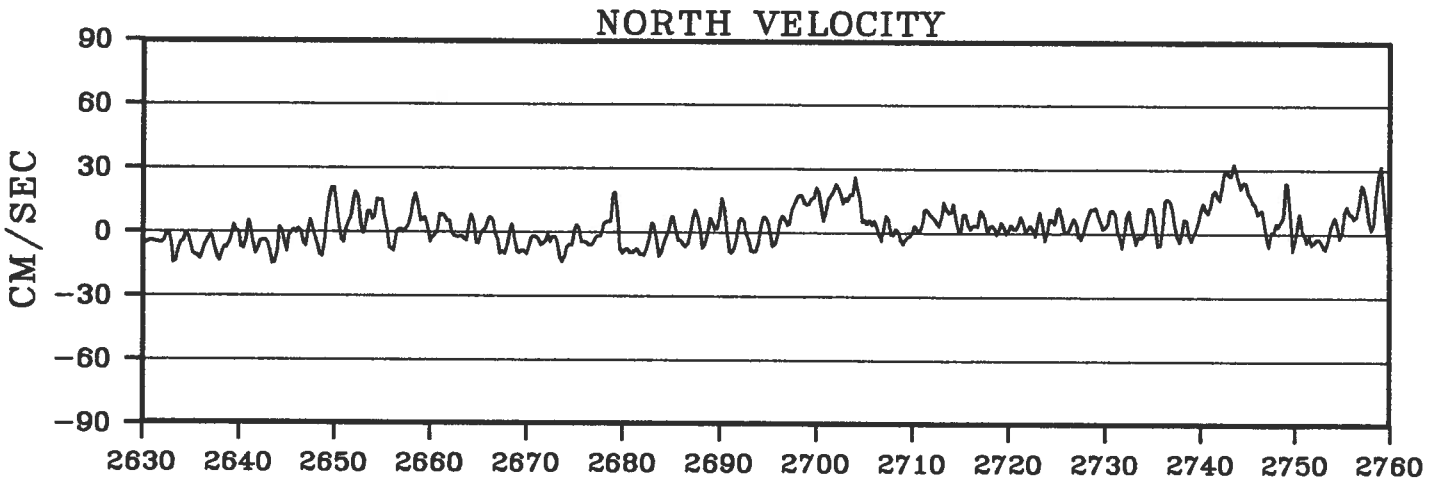
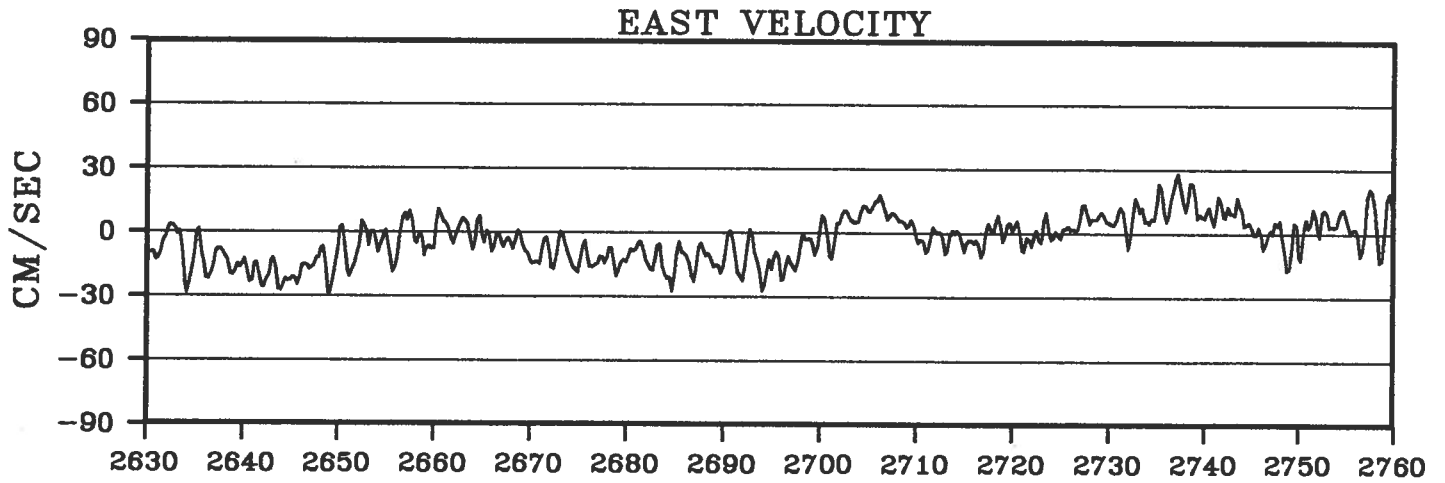
NORTH VELOCITY



TEMPERATURE

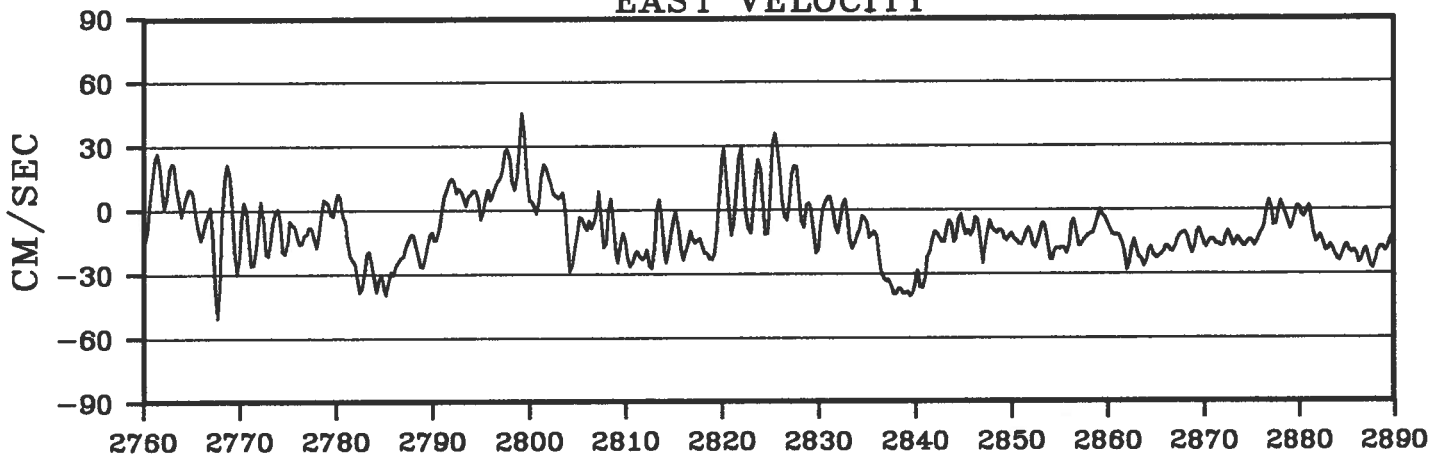


BUOY 2281

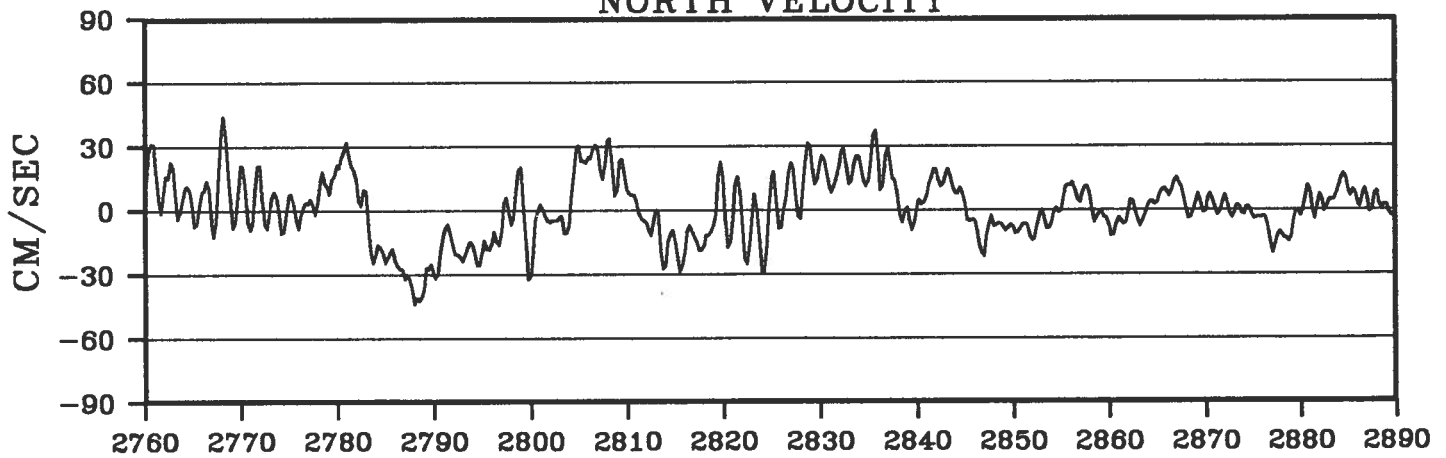


BUOY 2281

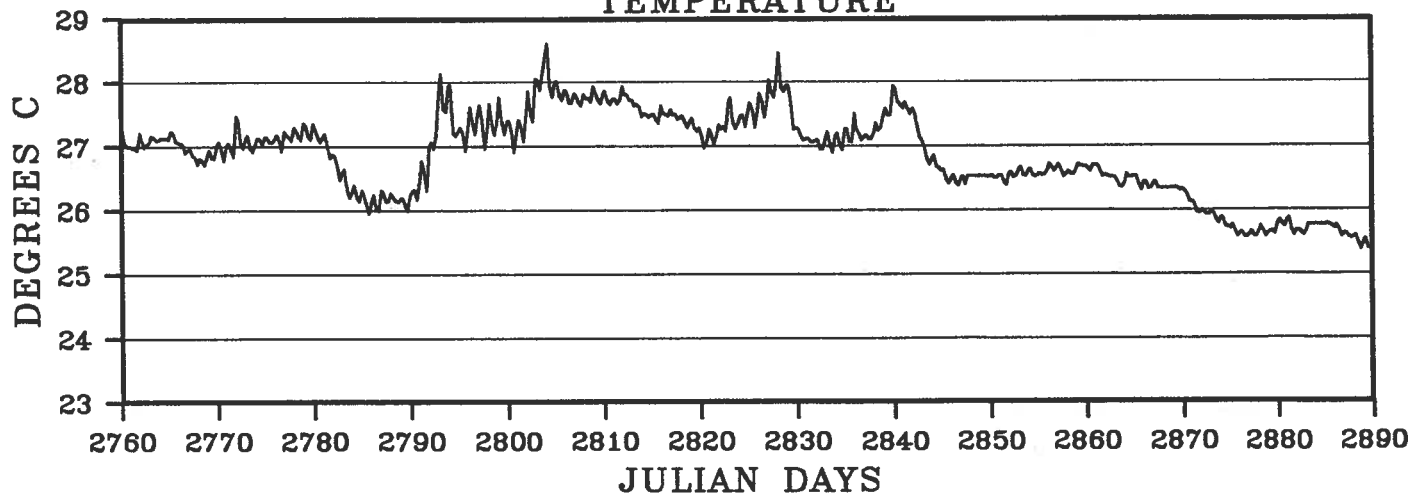
EAST VELOCITY



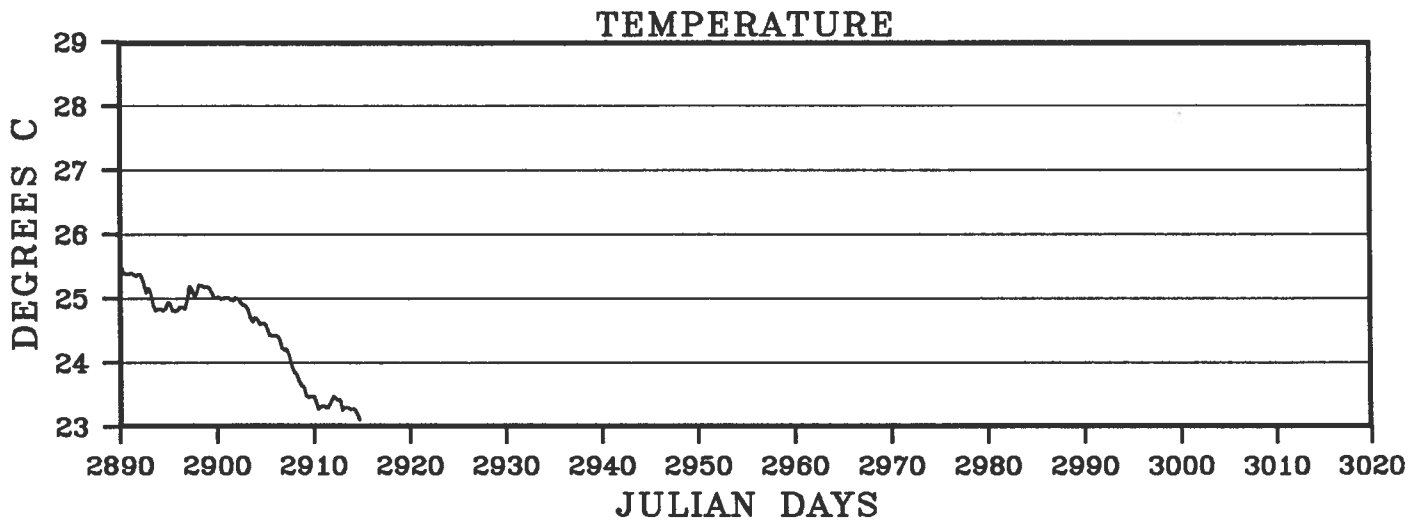
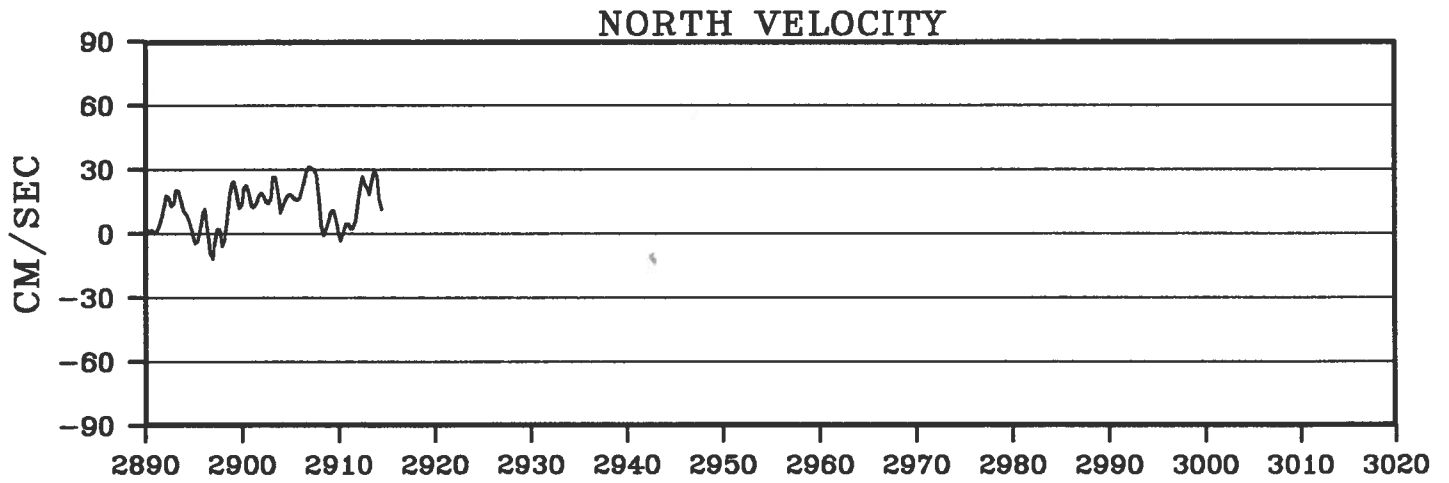
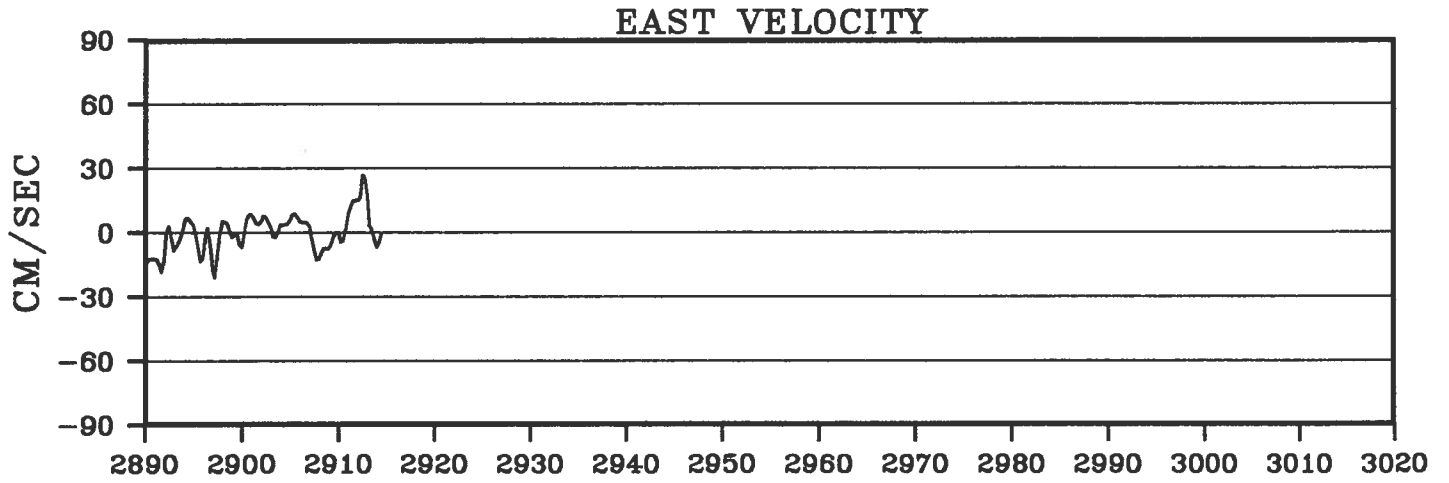
NORTH VELOCITY



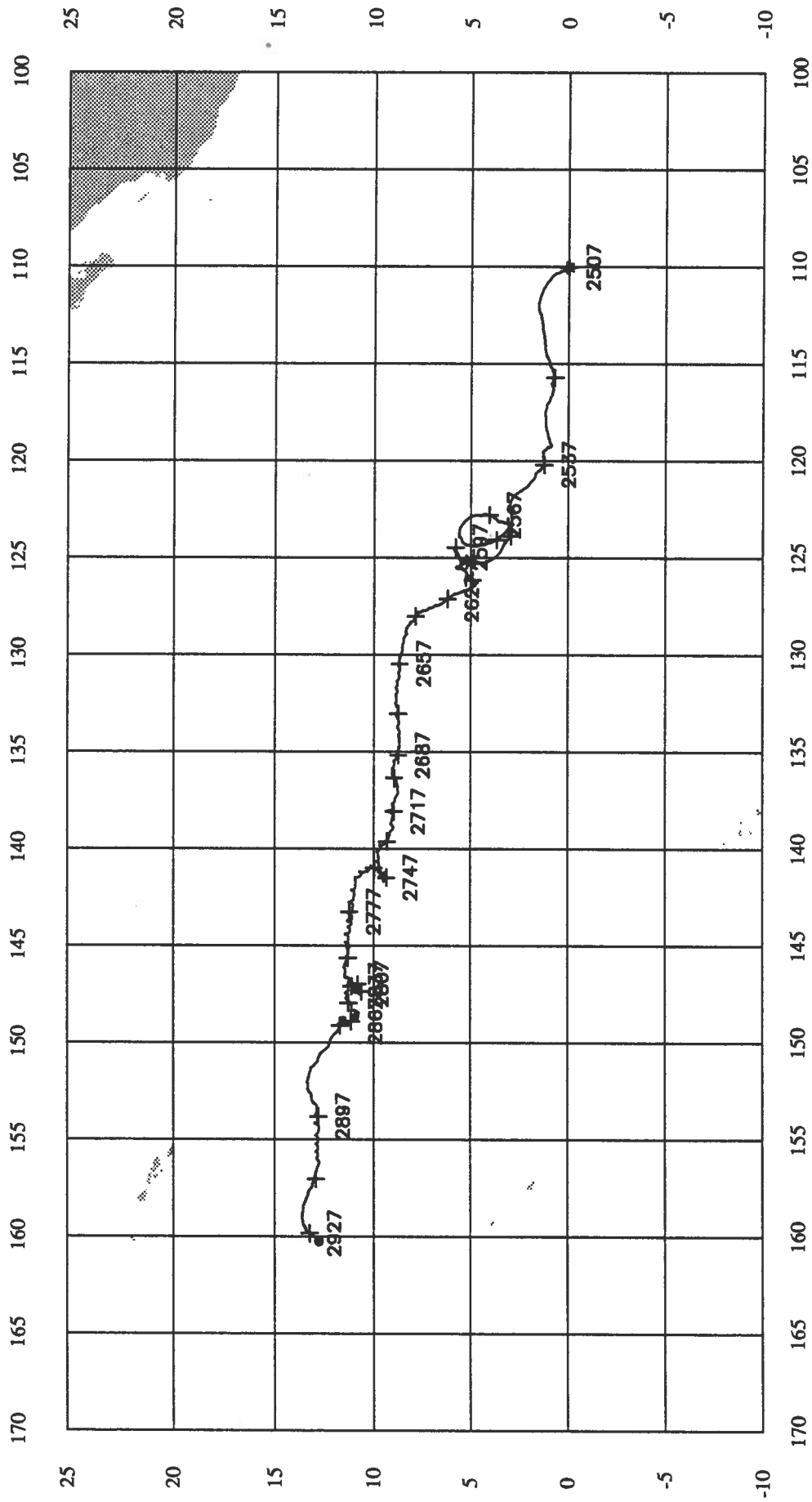
TEMPERATURE



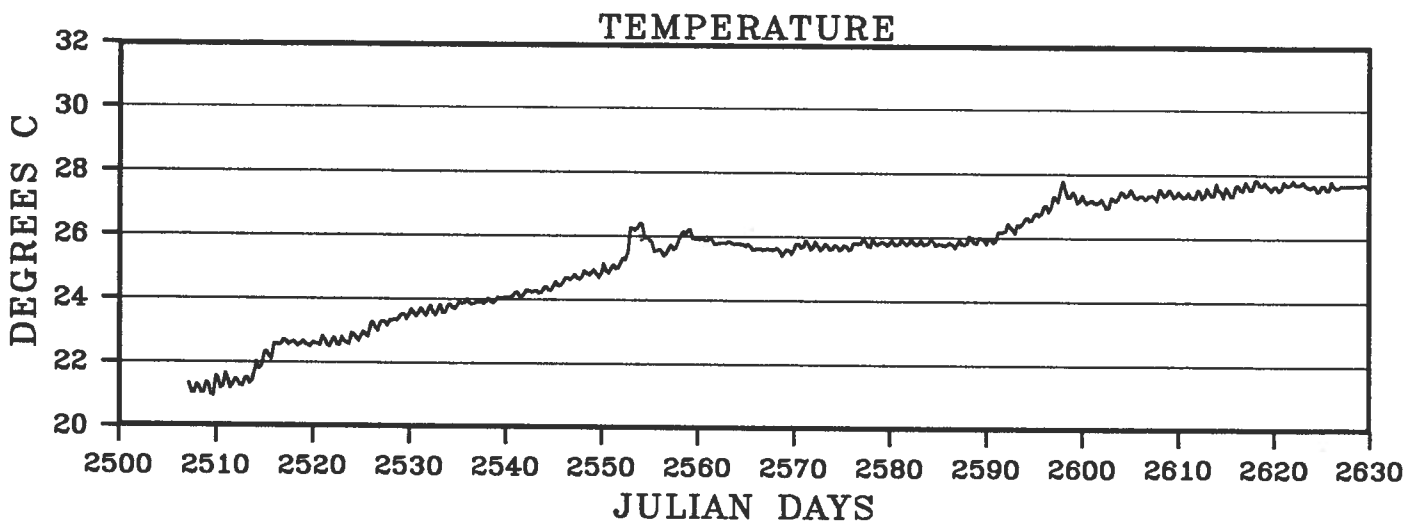
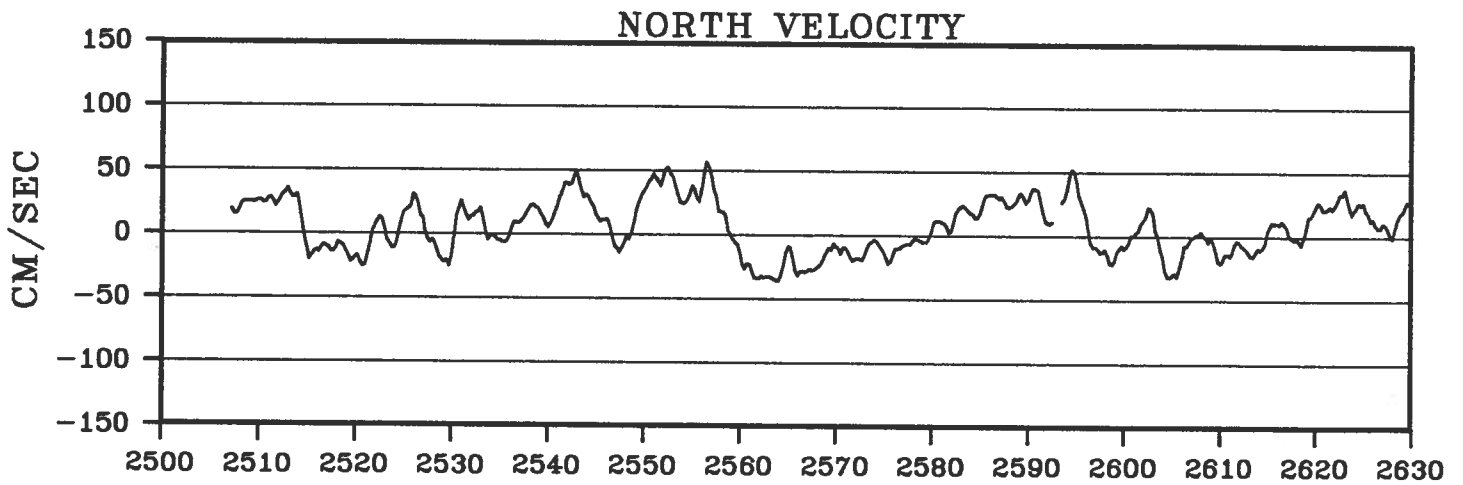
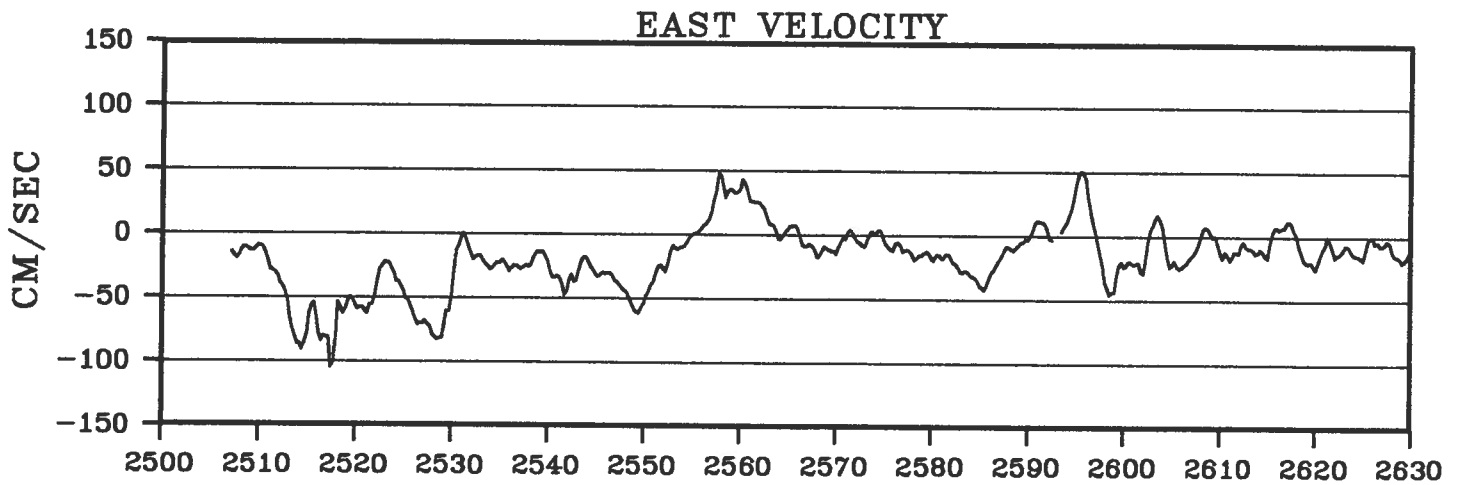
BUOY 2281



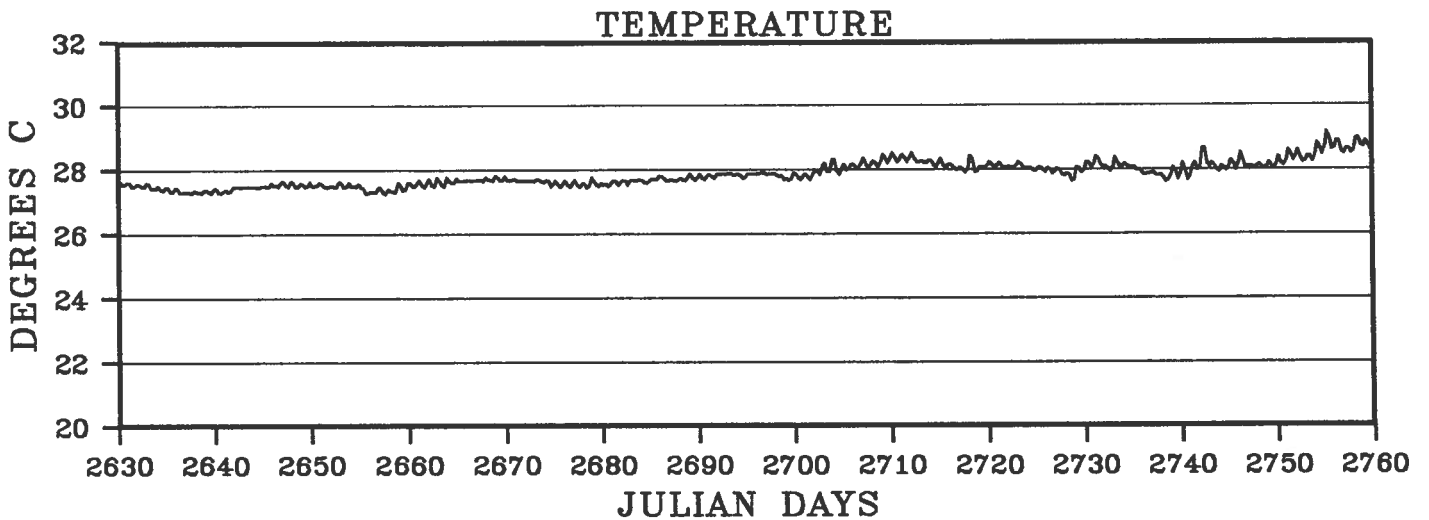
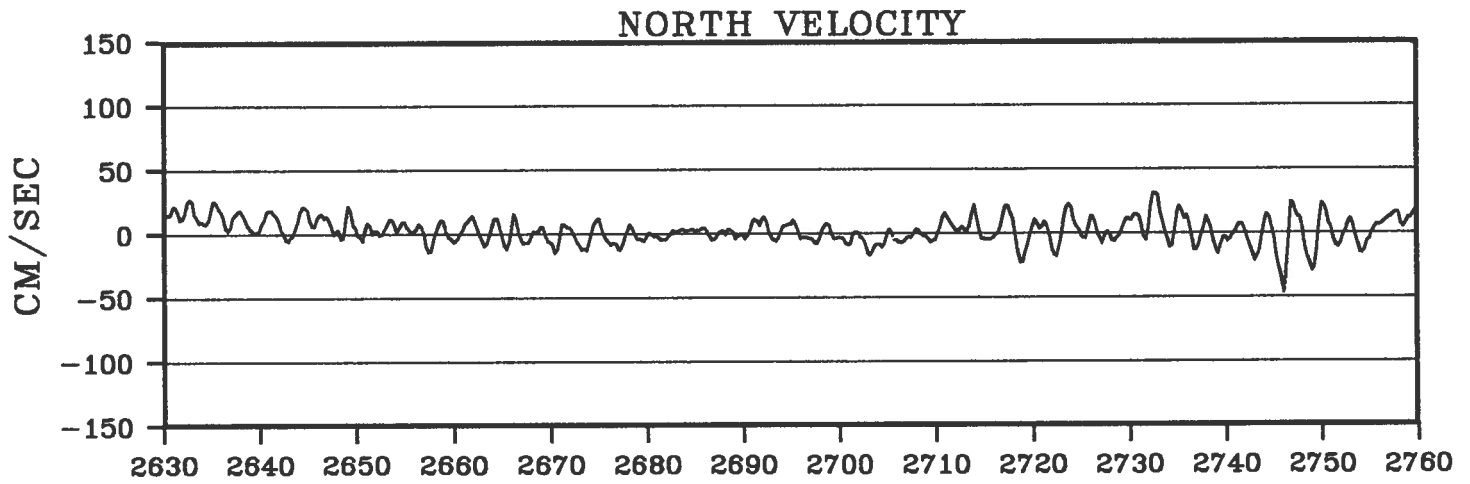
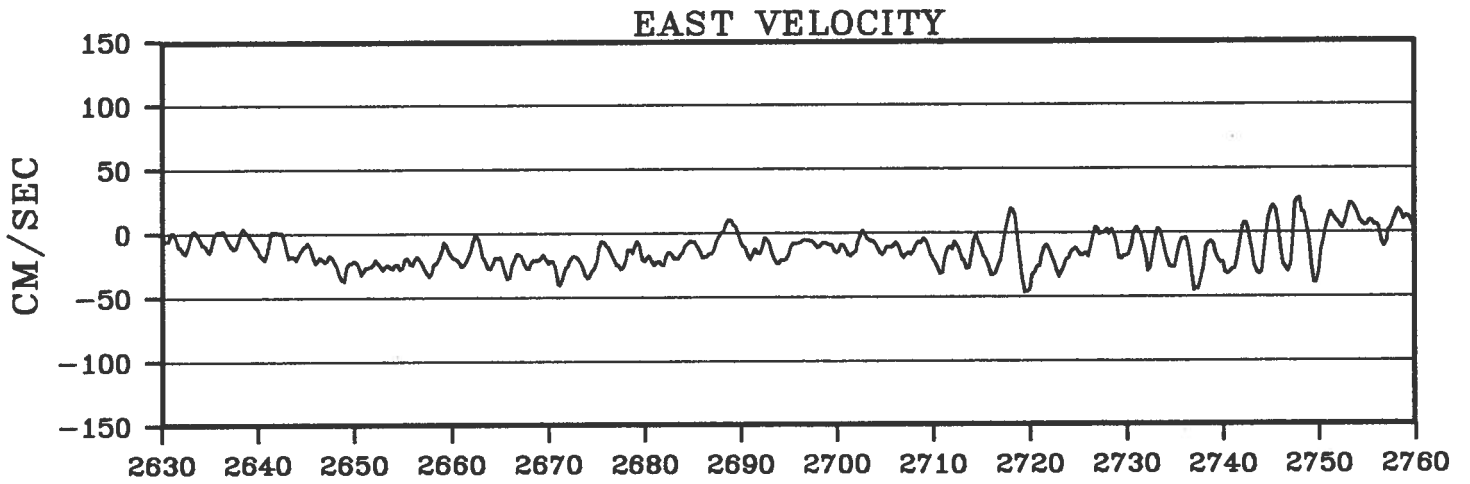
BUOY 2282



BUOY 2282

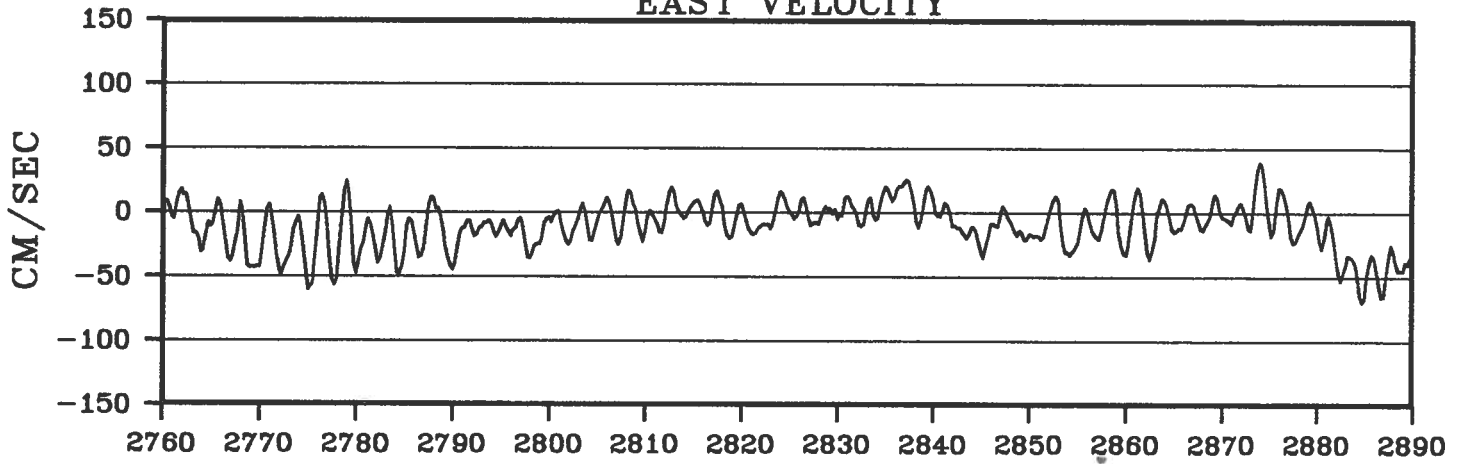


BUOY 2282

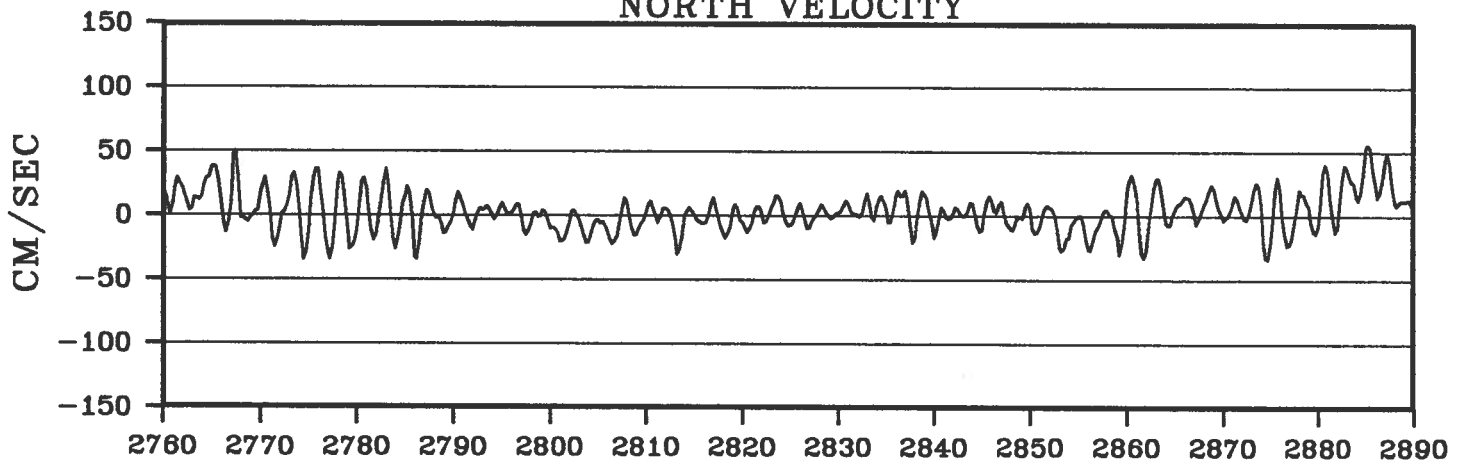


BUOY 2282

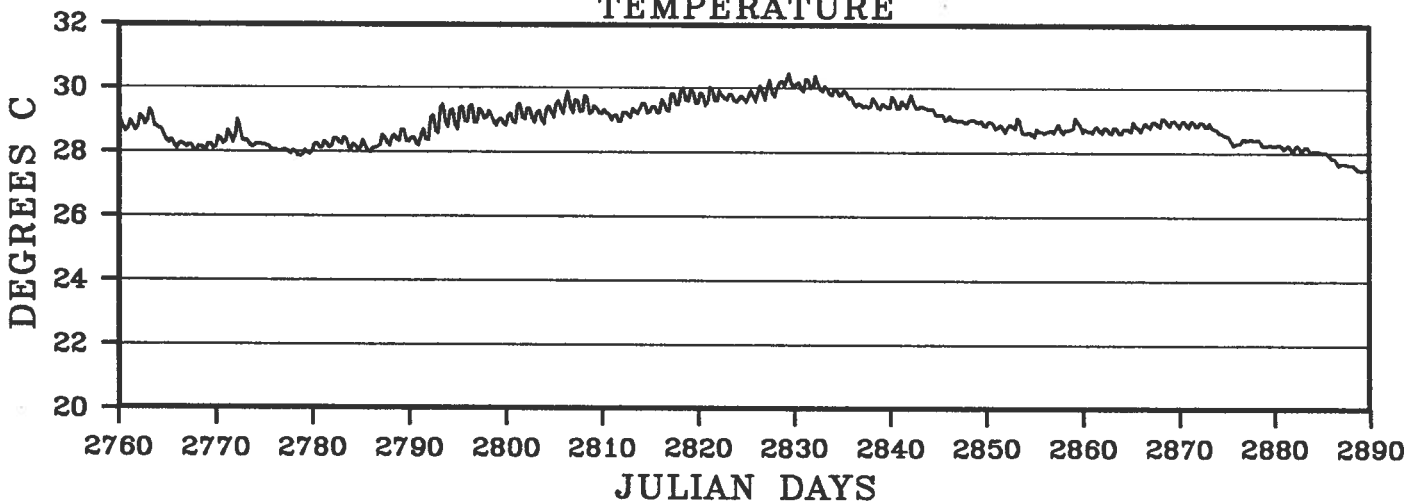
EAST VELOCITY



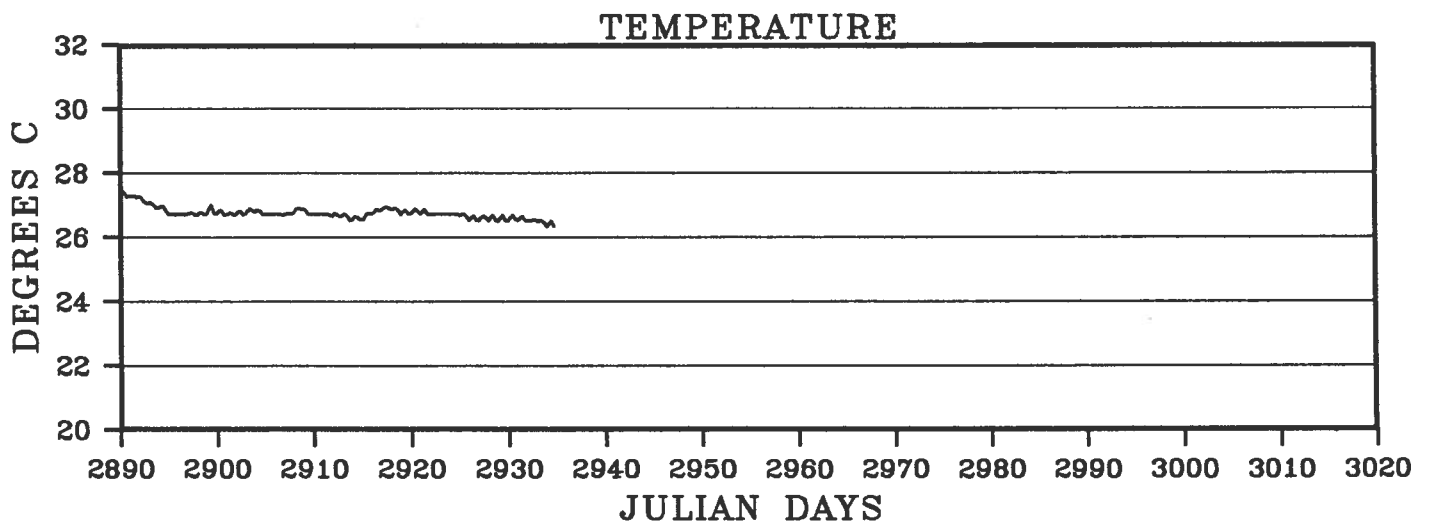
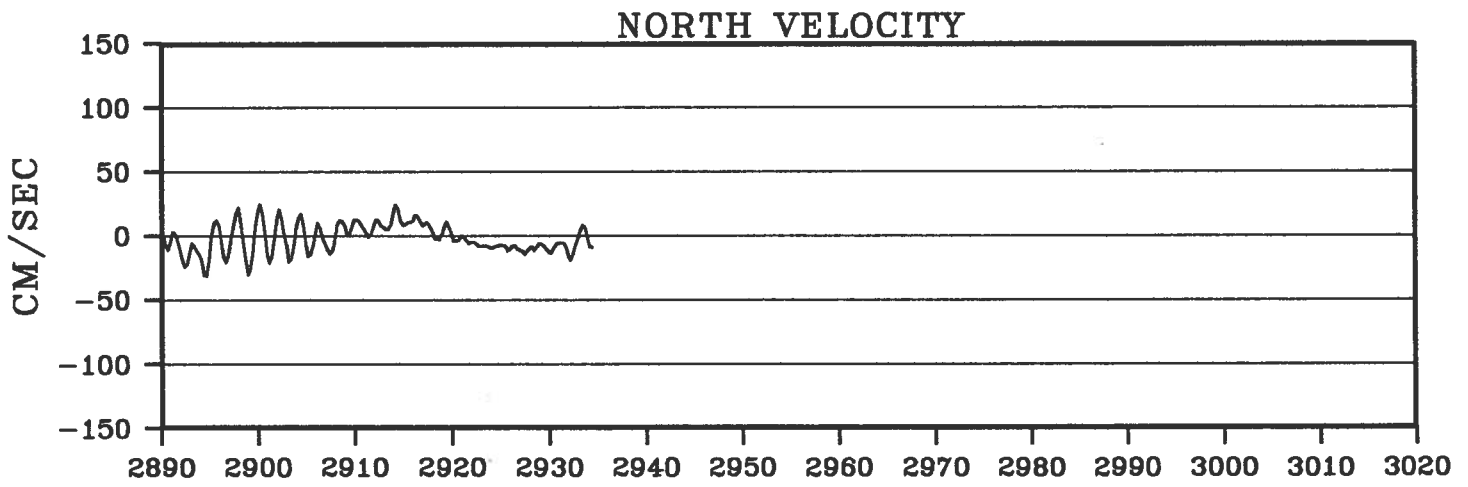
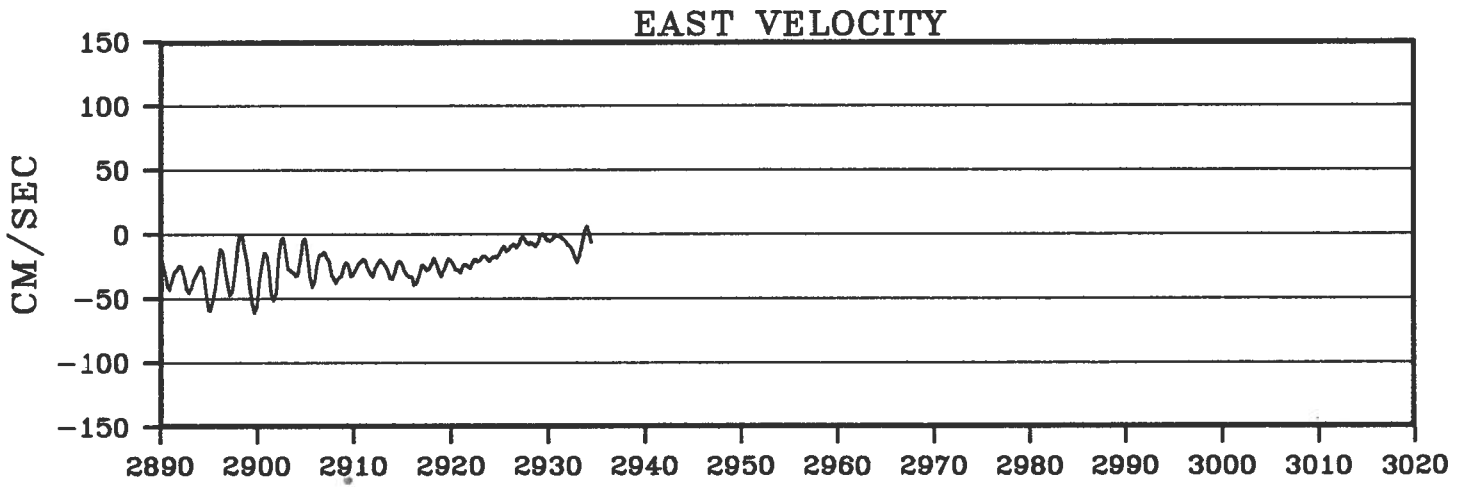
NORTH VELOCITY



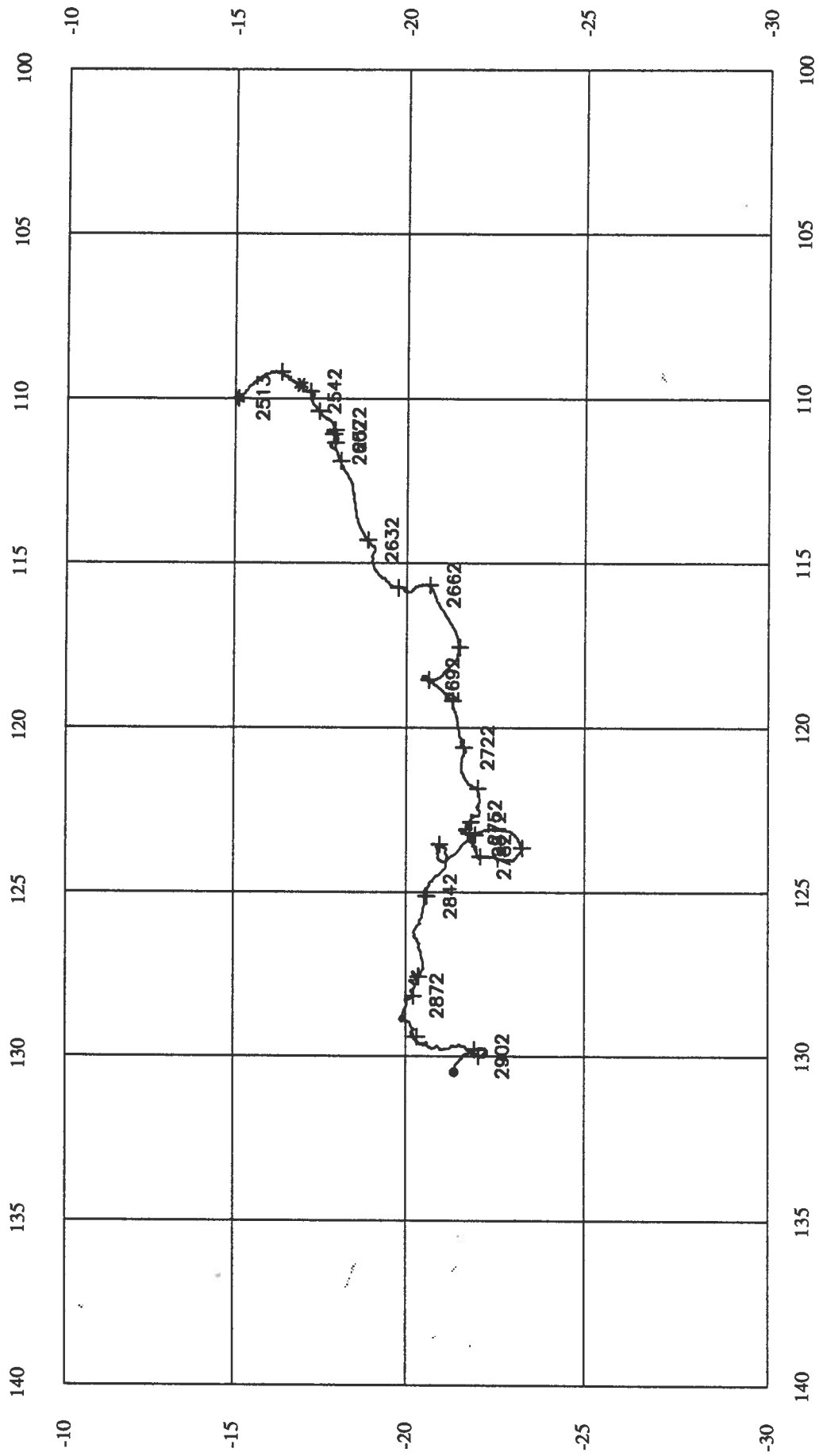
TEMPERATURE



BUOY 2282

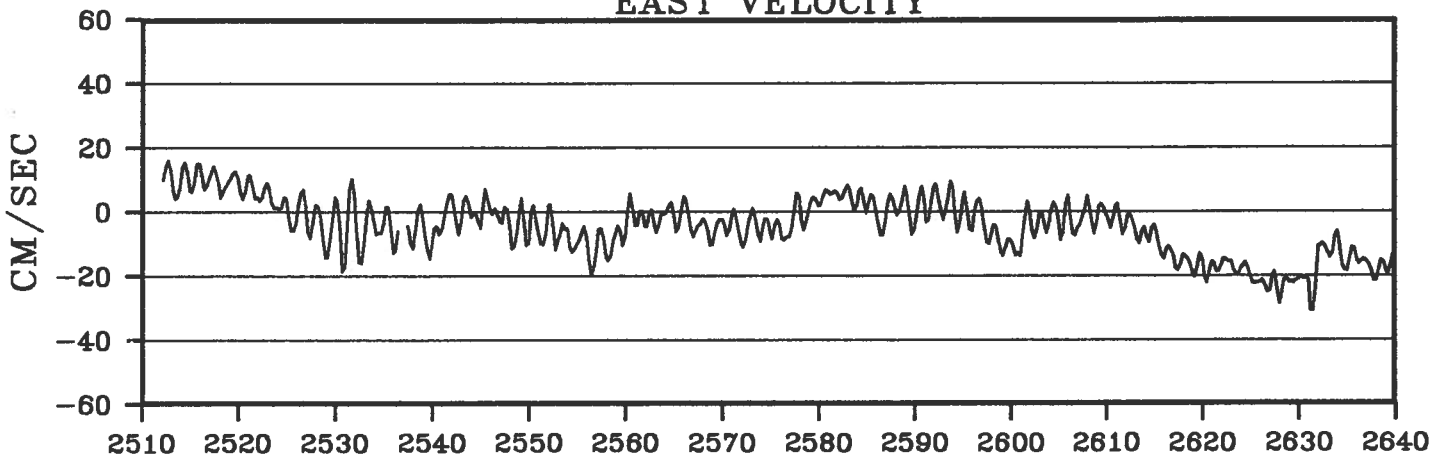


BUOY 2283

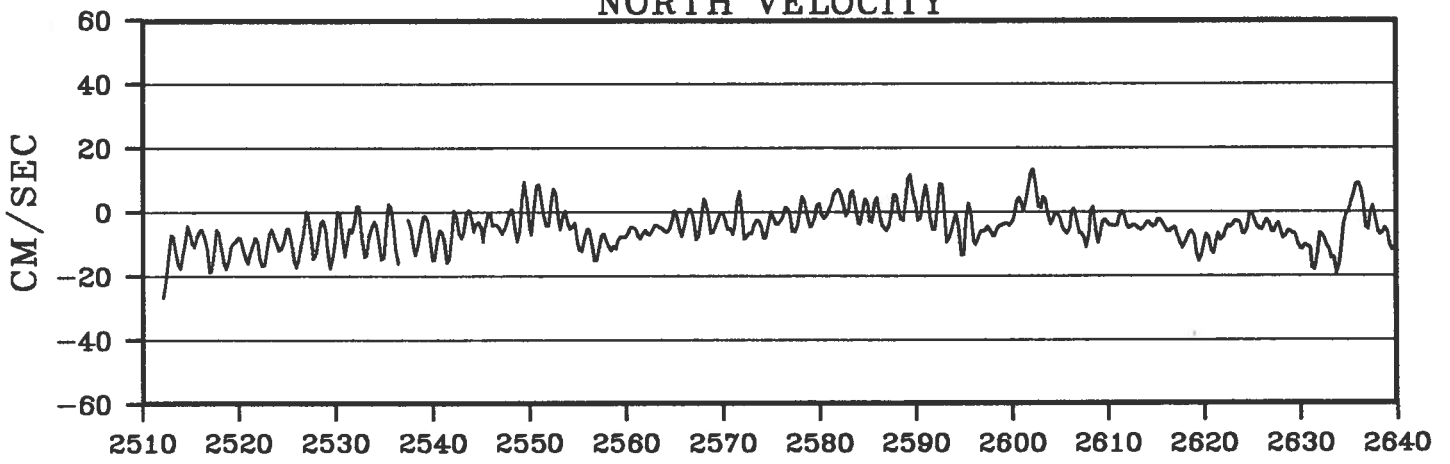


BUOY 2283

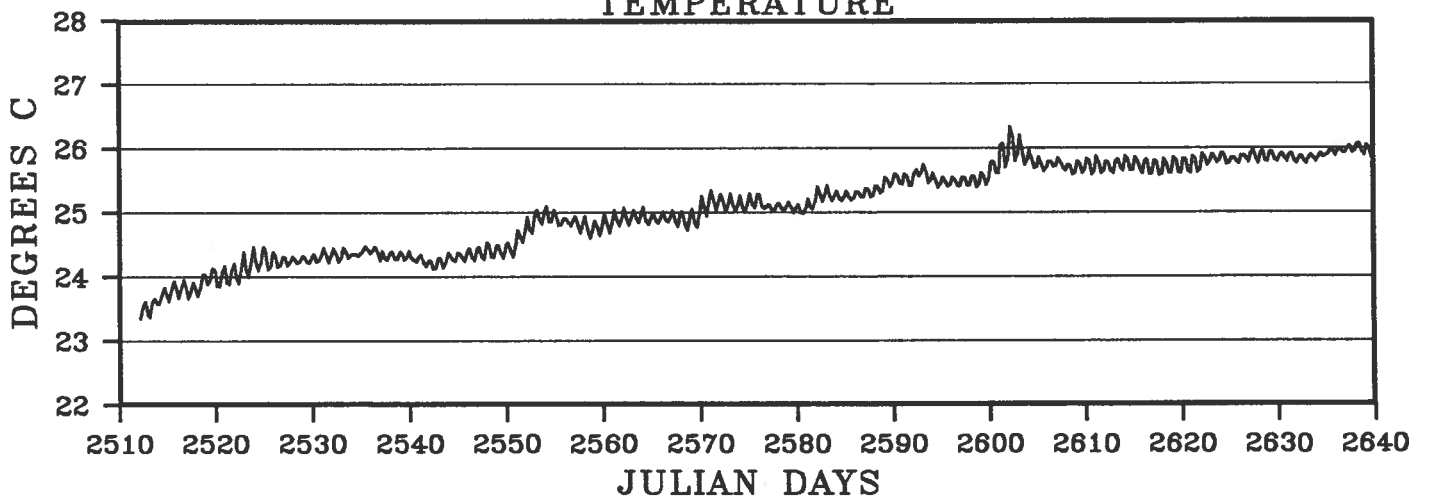
EAST VELOCITY



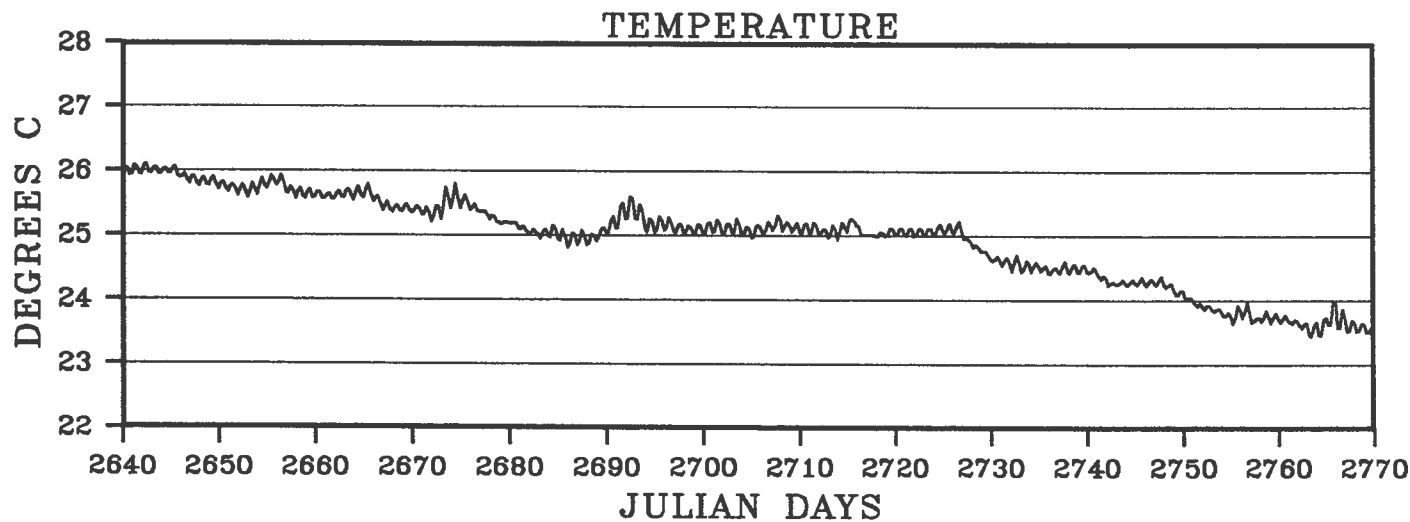
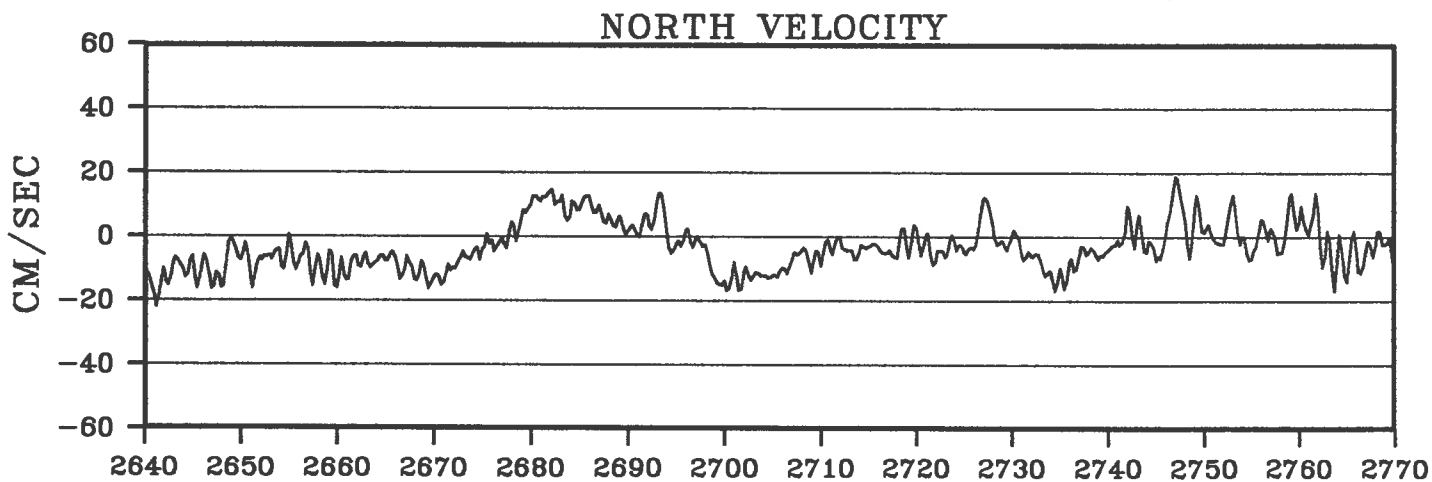
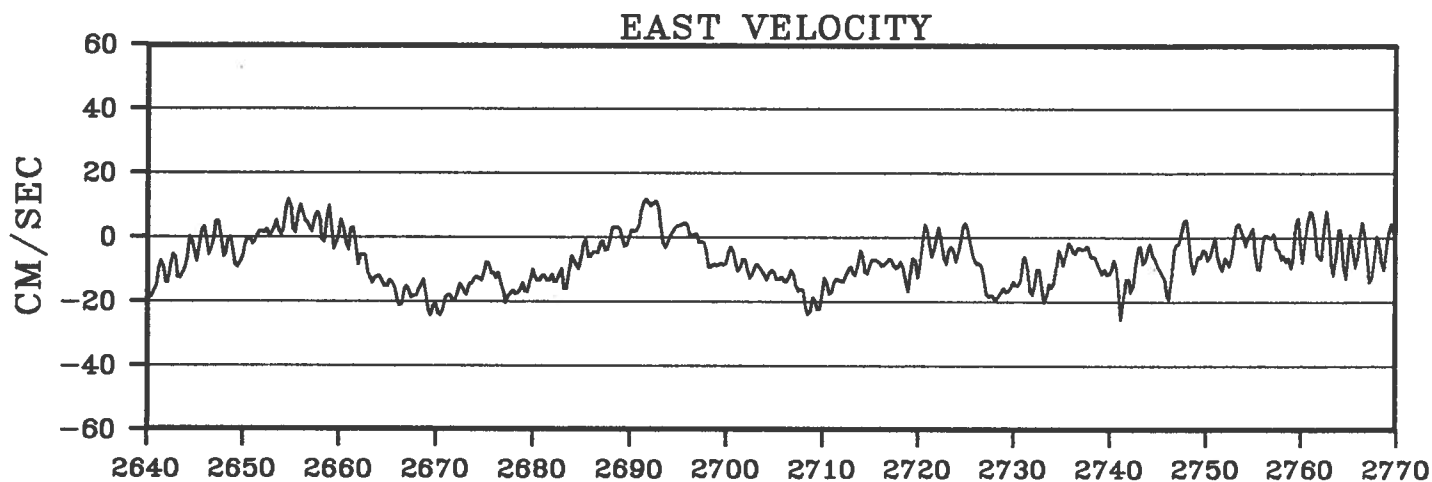
NORTH VELOCITY



TEMPERATURE

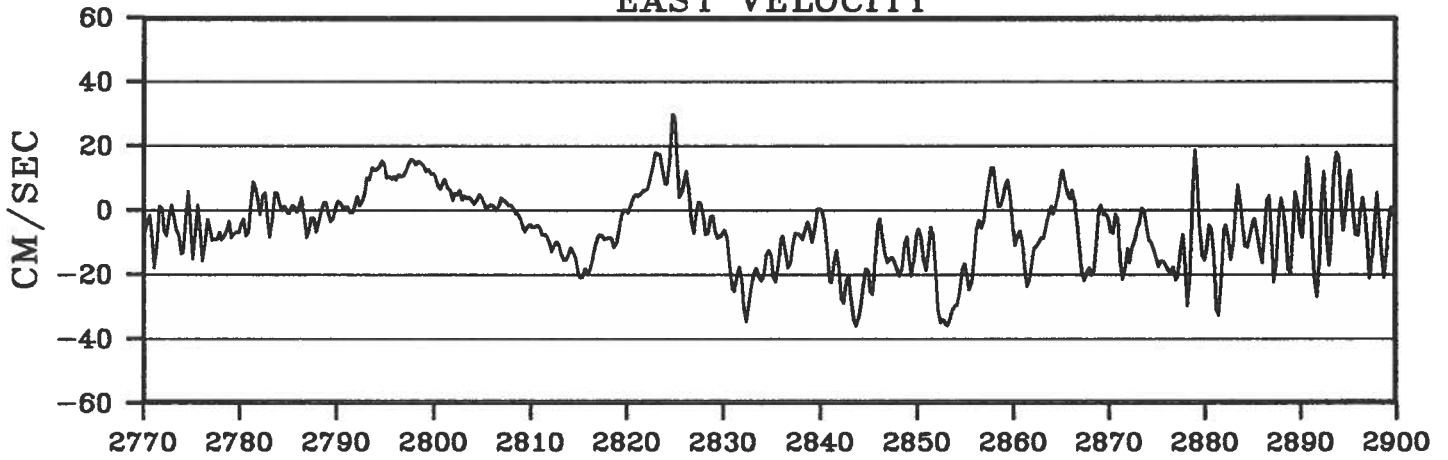


BUOY 2283

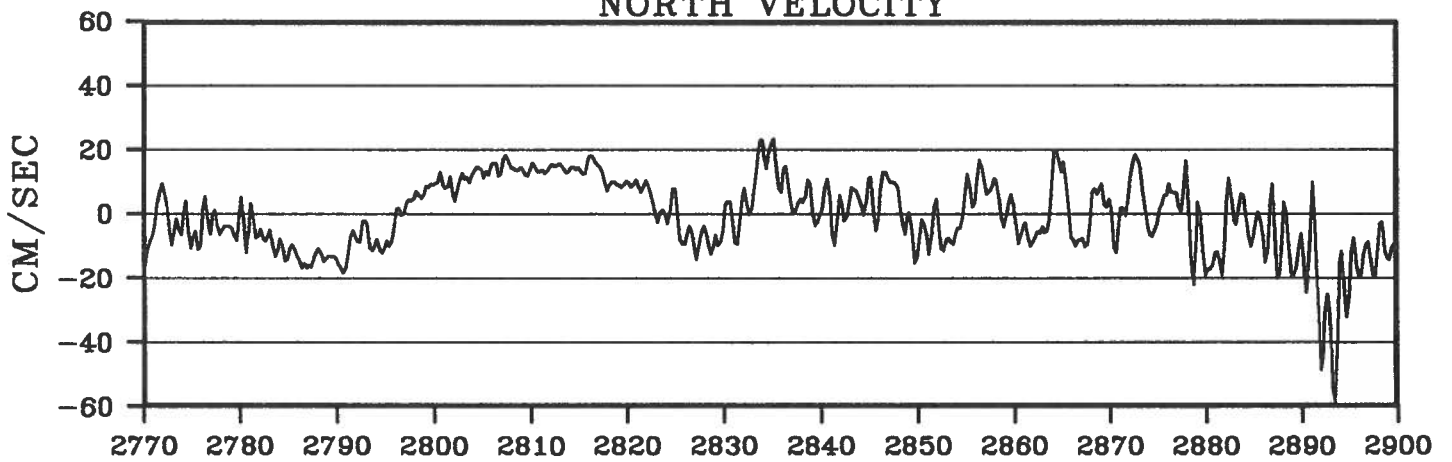


BUOY 2283

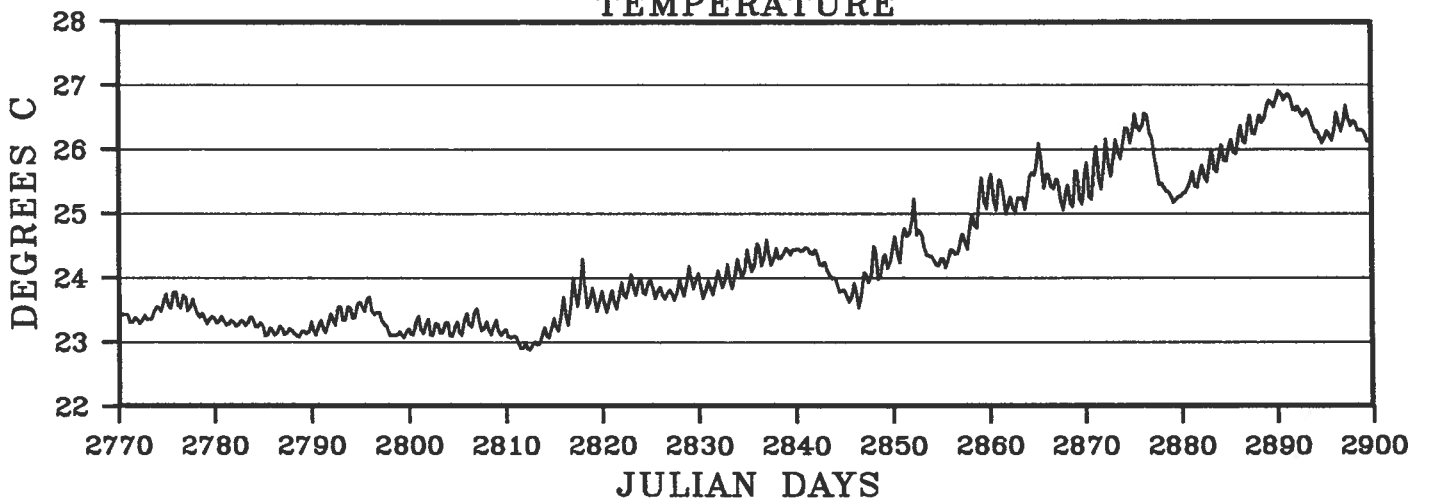
EAST VELOCITY



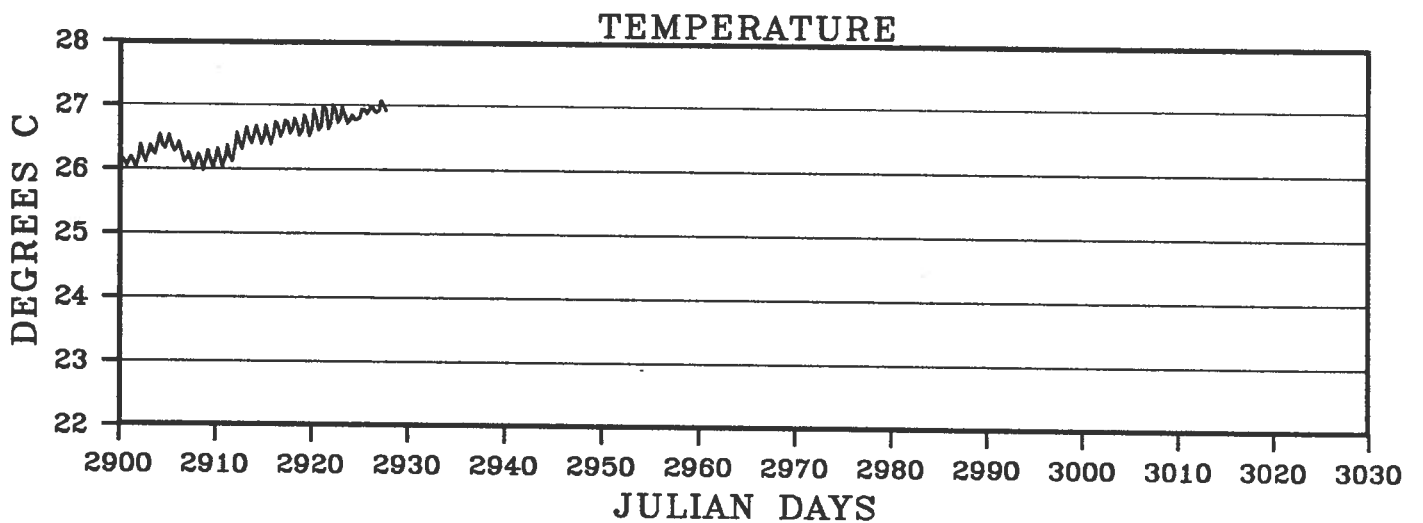
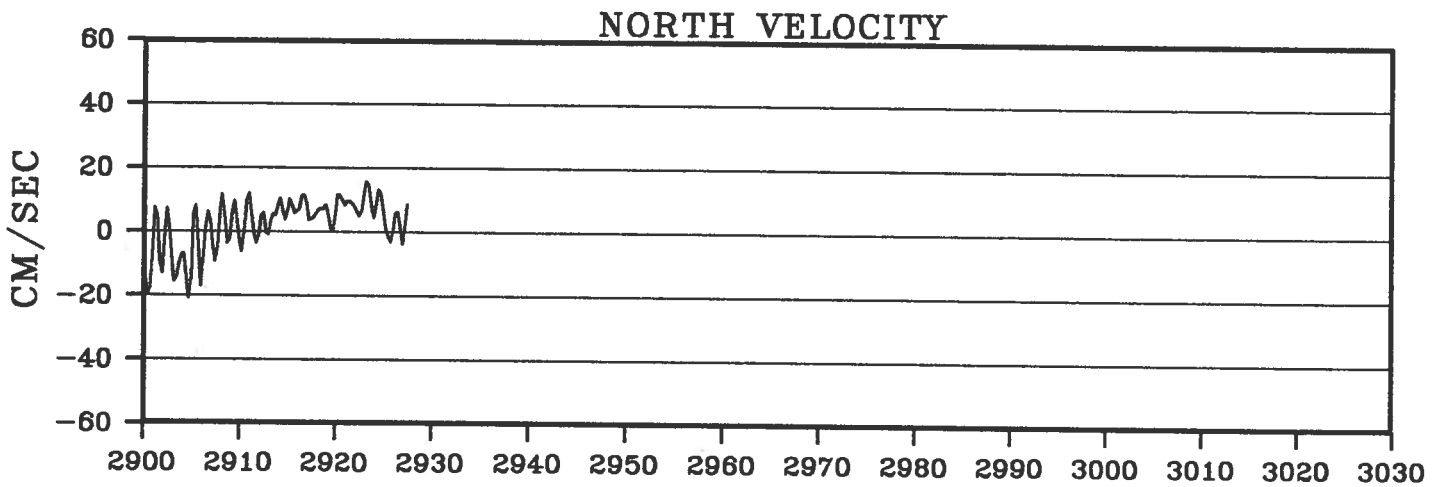
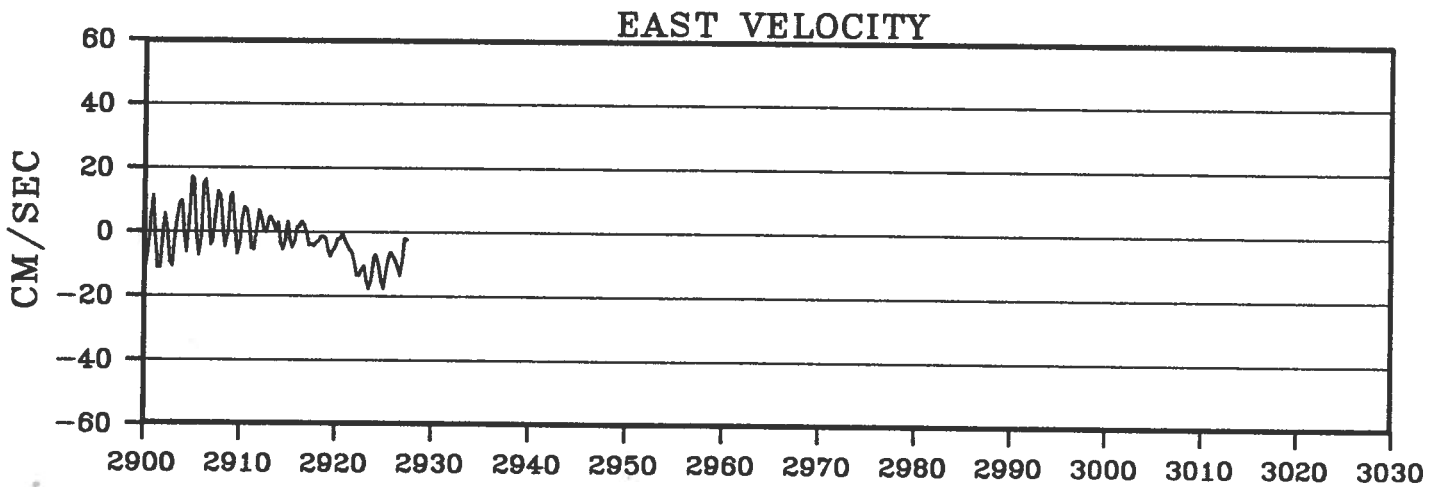
NORTH VELOCITY



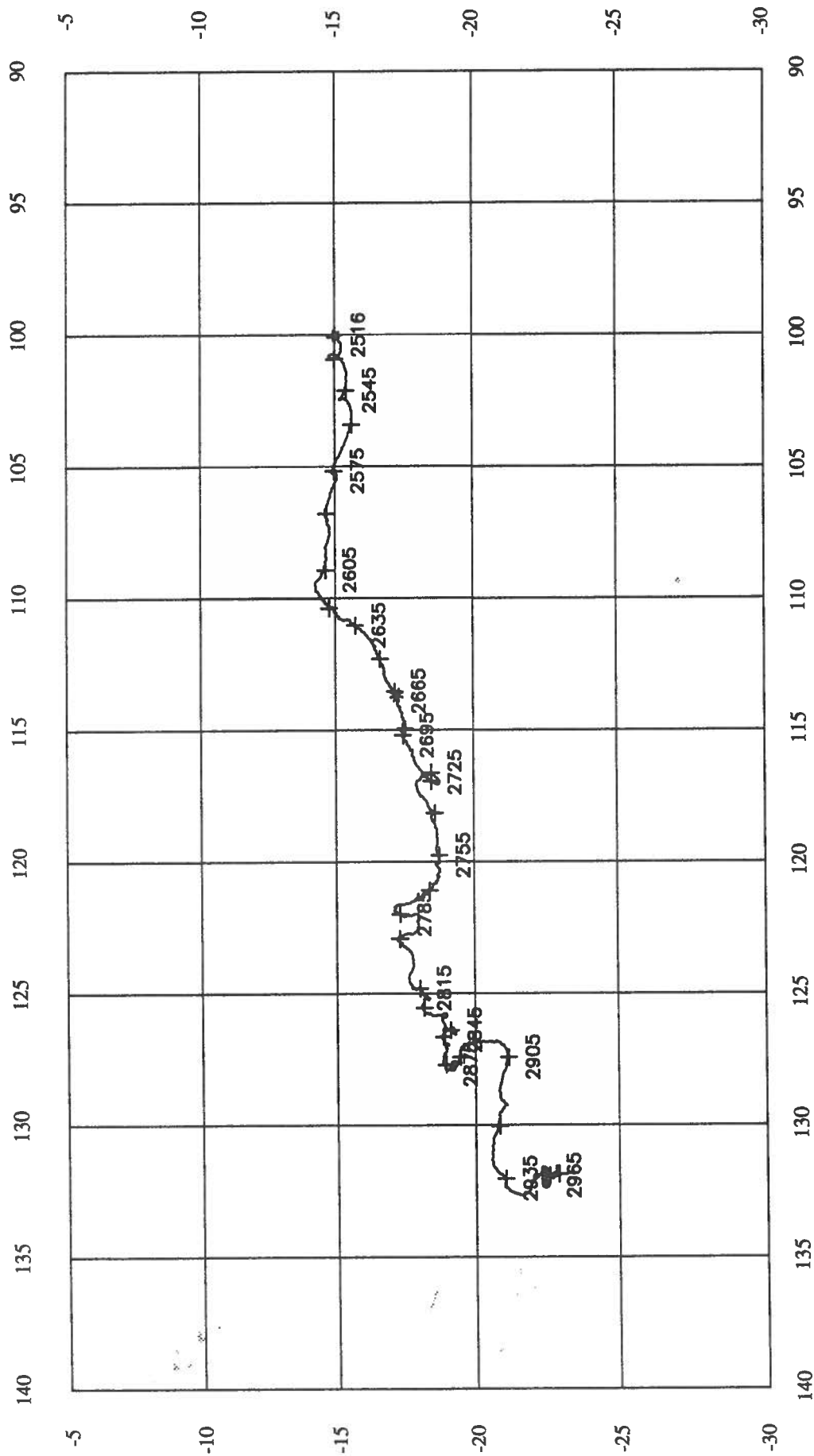
TEMPERATURE



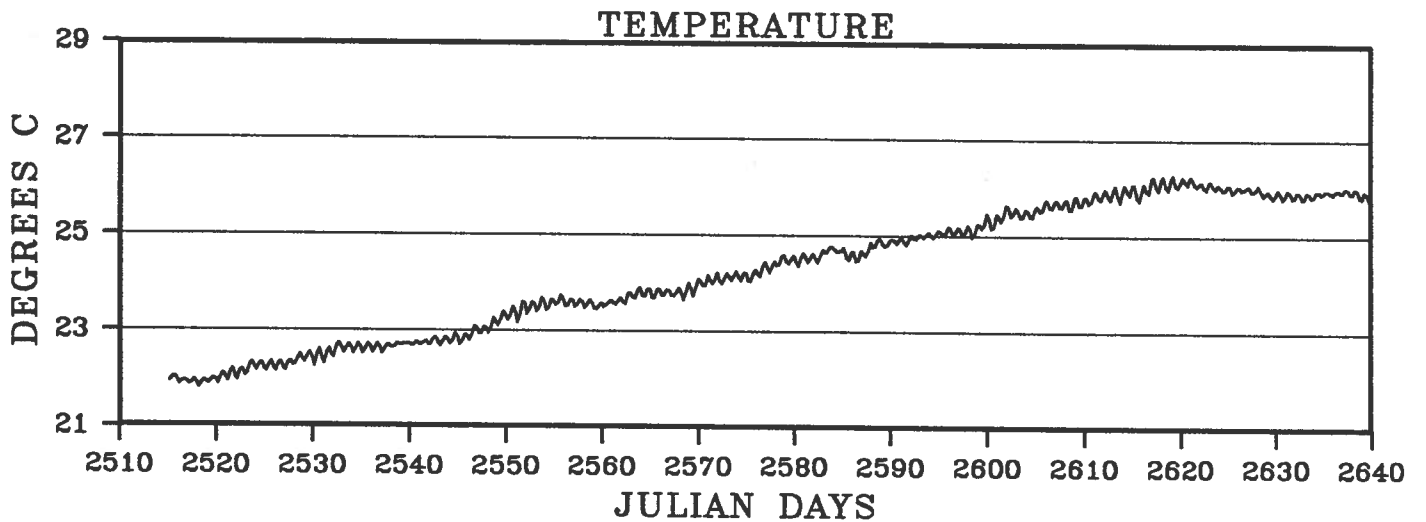
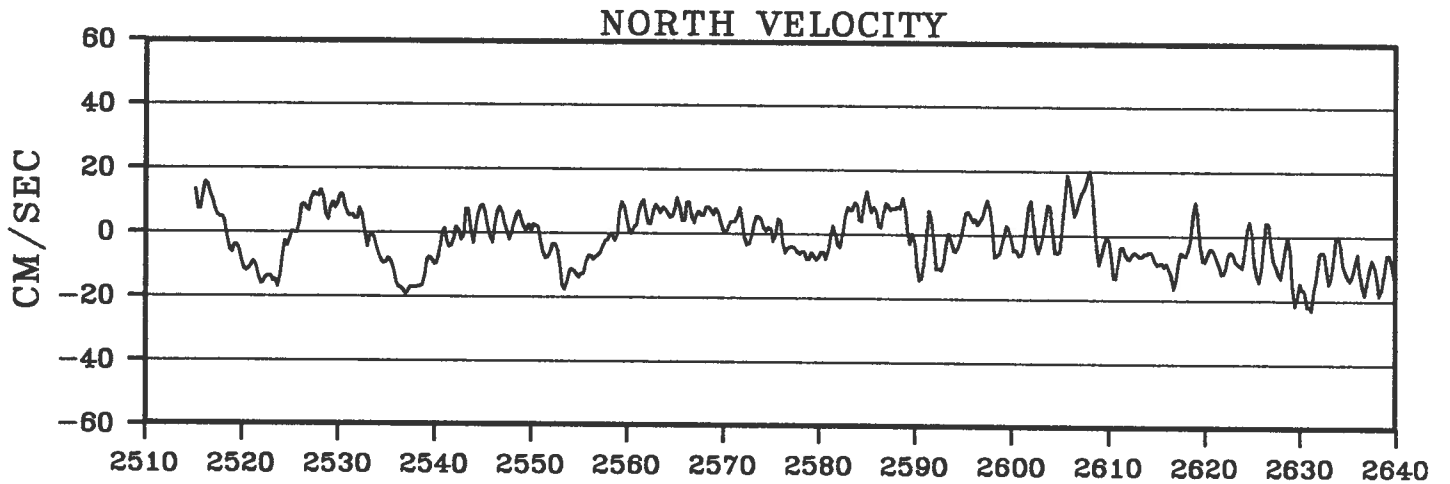
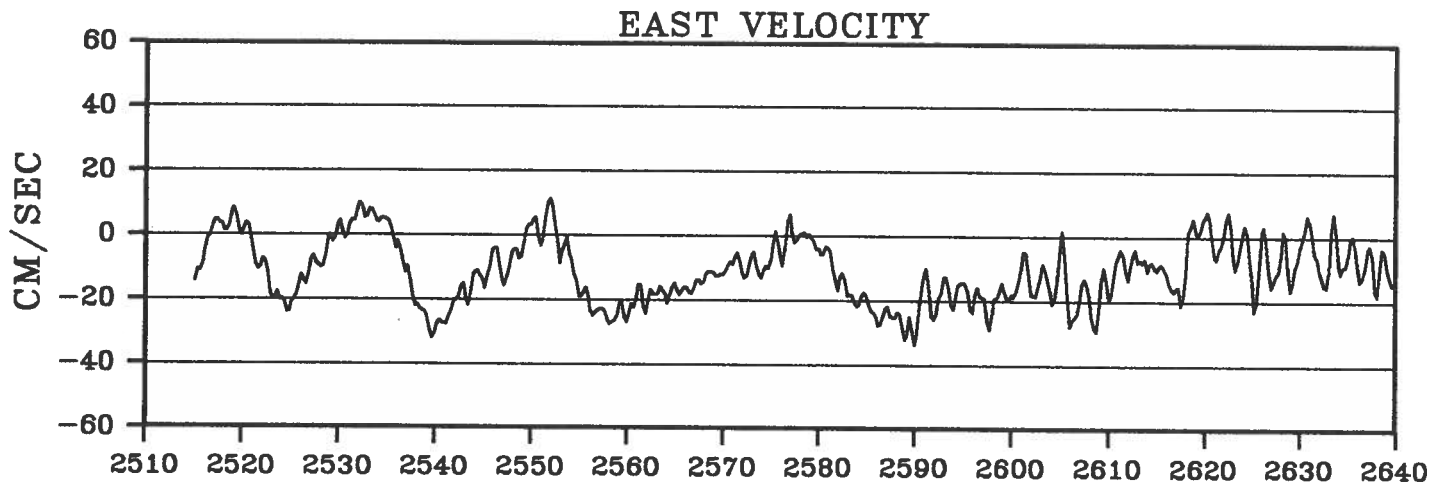
BUOY 2283



BUOY 2284

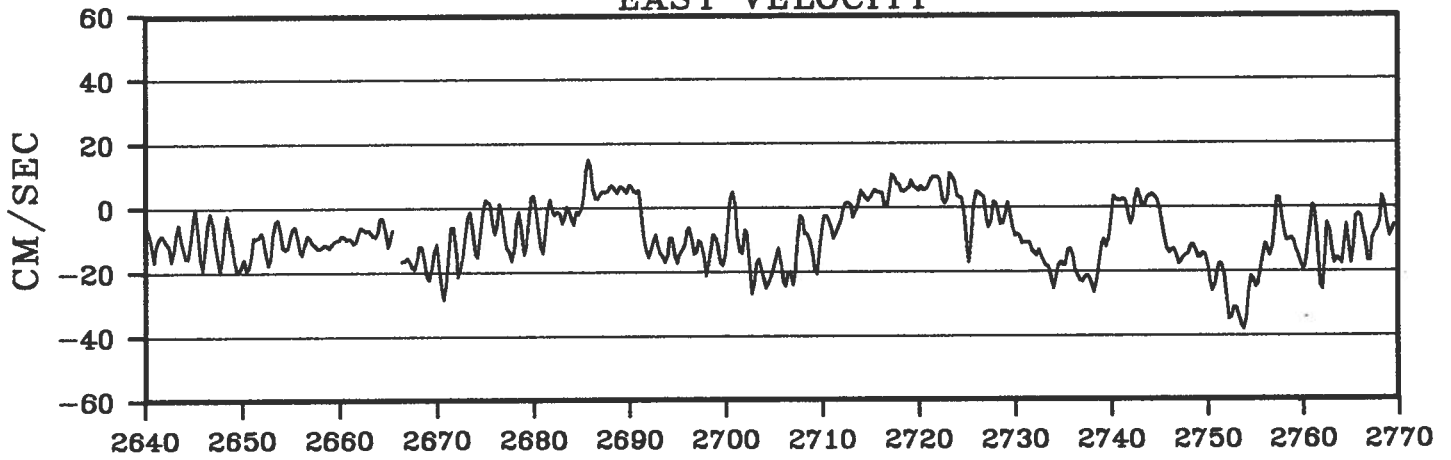


BUOY 2284

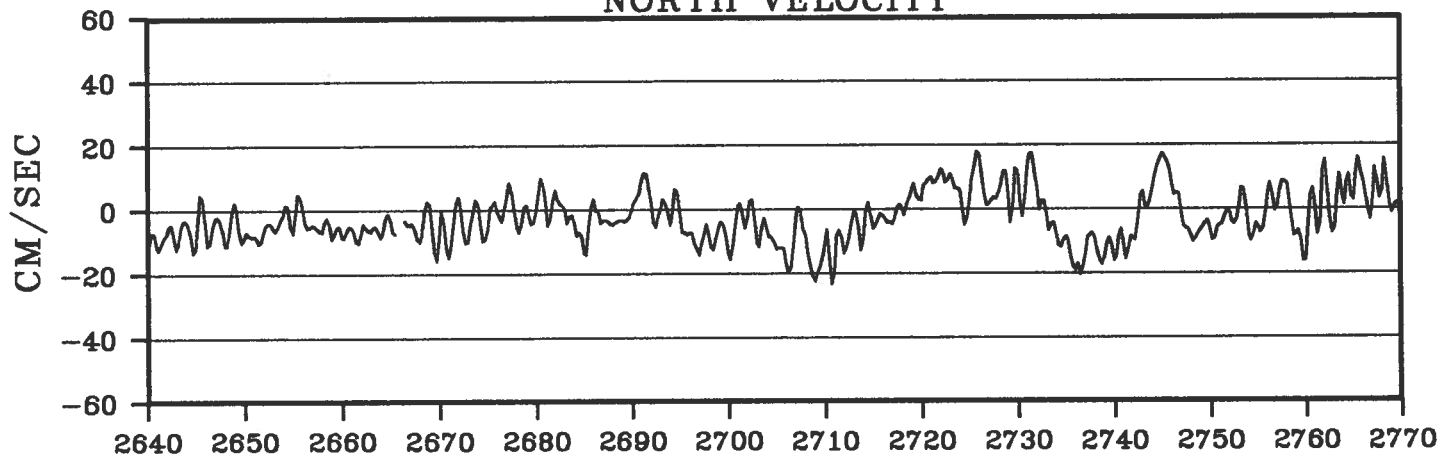


BUOY 2284

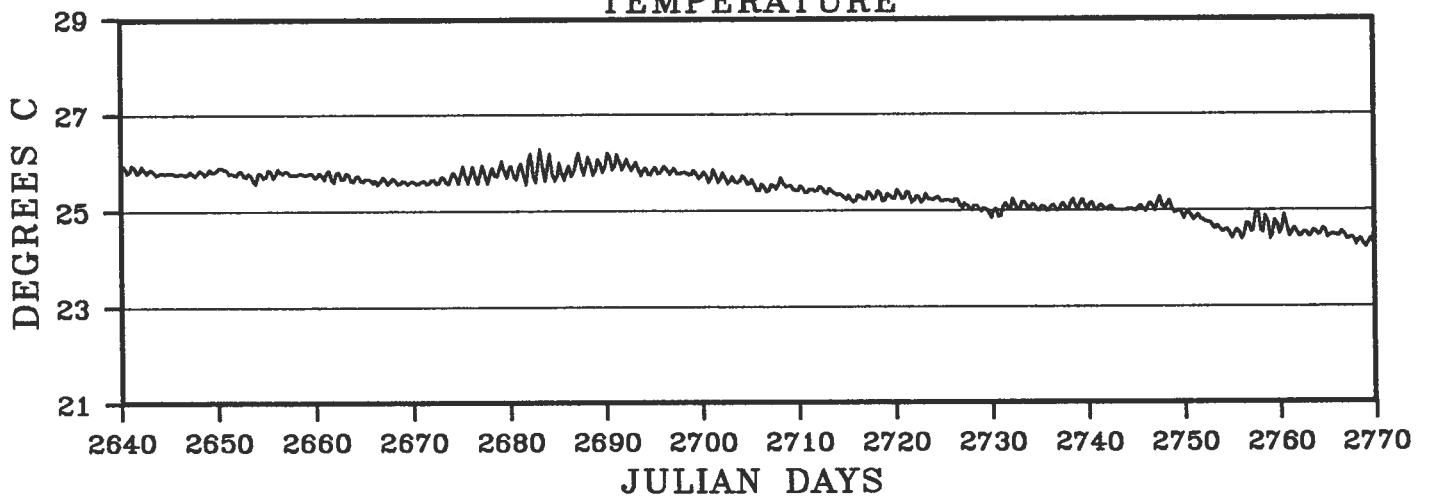
EAST VELOCITY



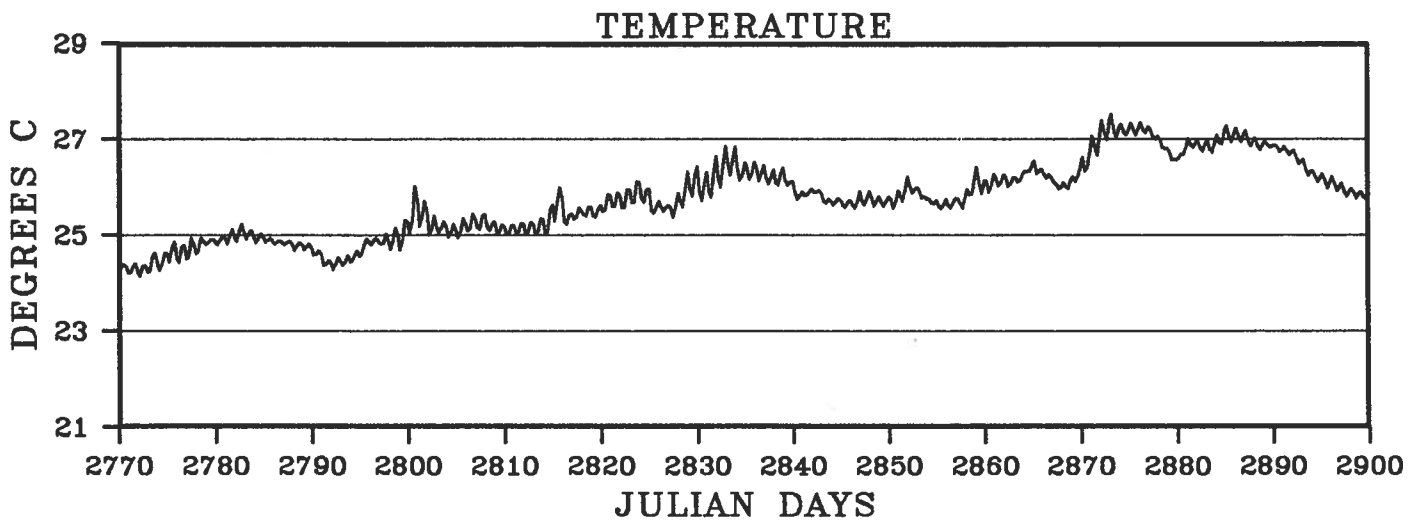
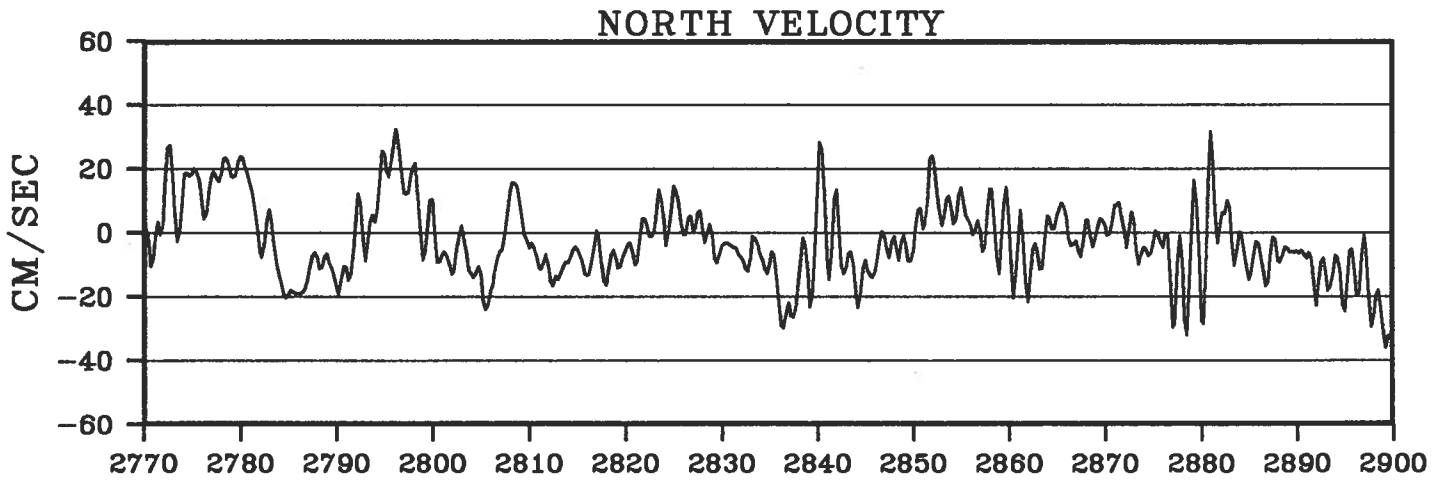
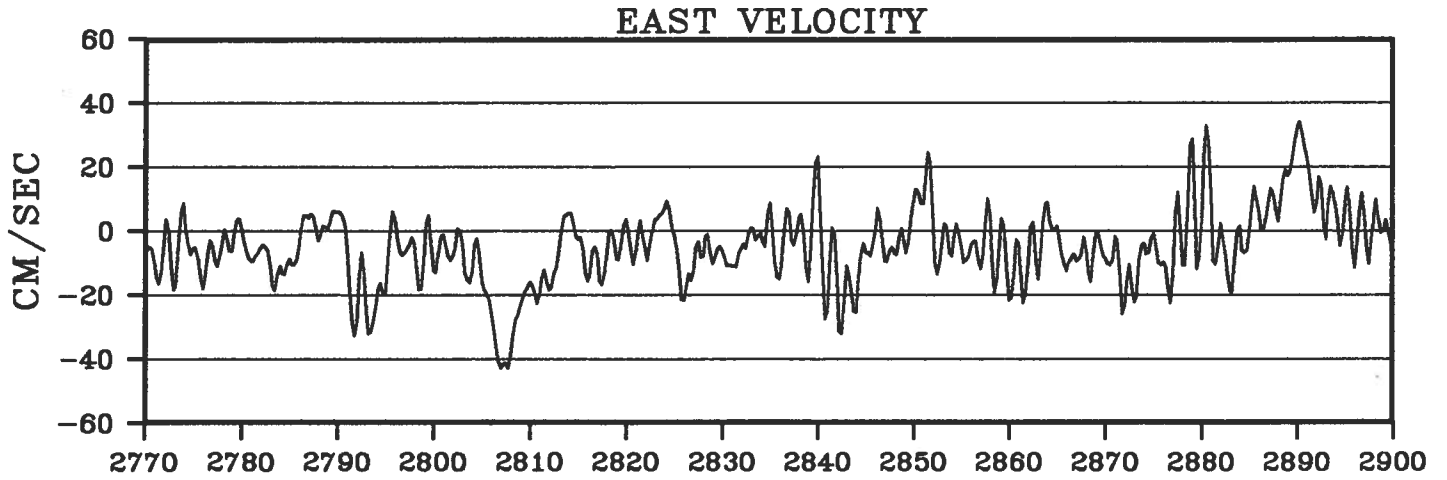
NORTH VELOCITY



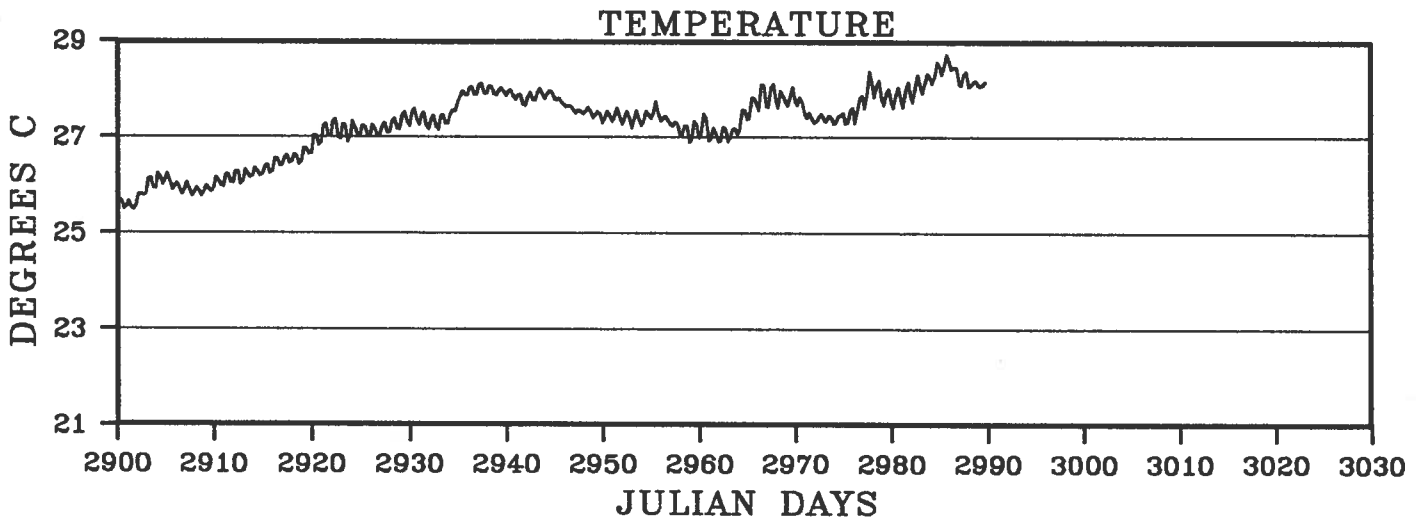
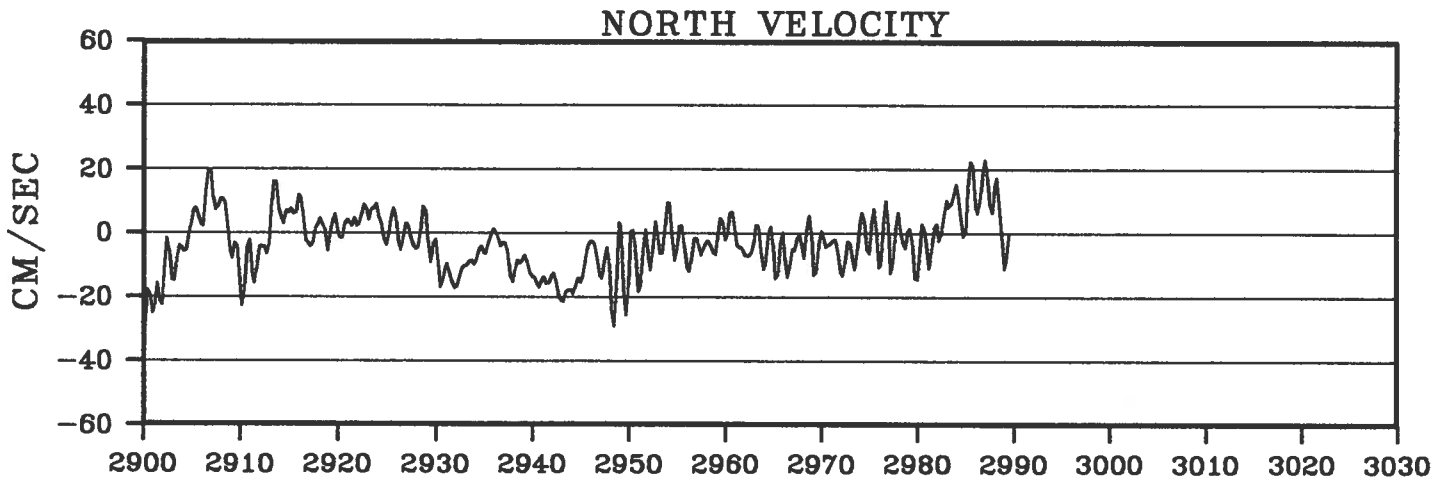
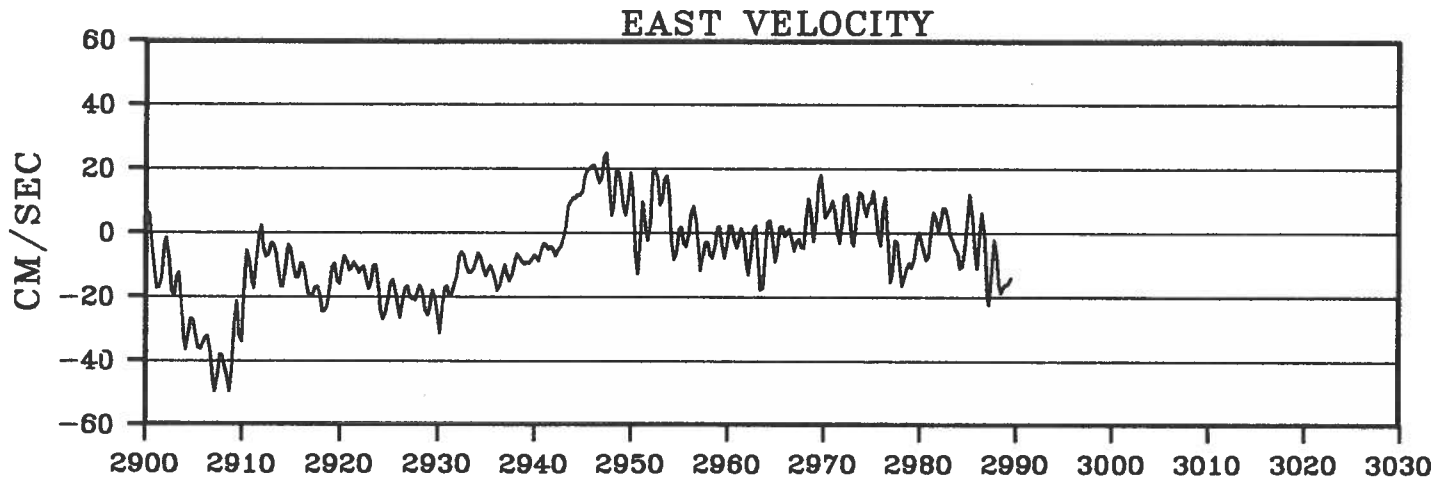
TEMPERATURE



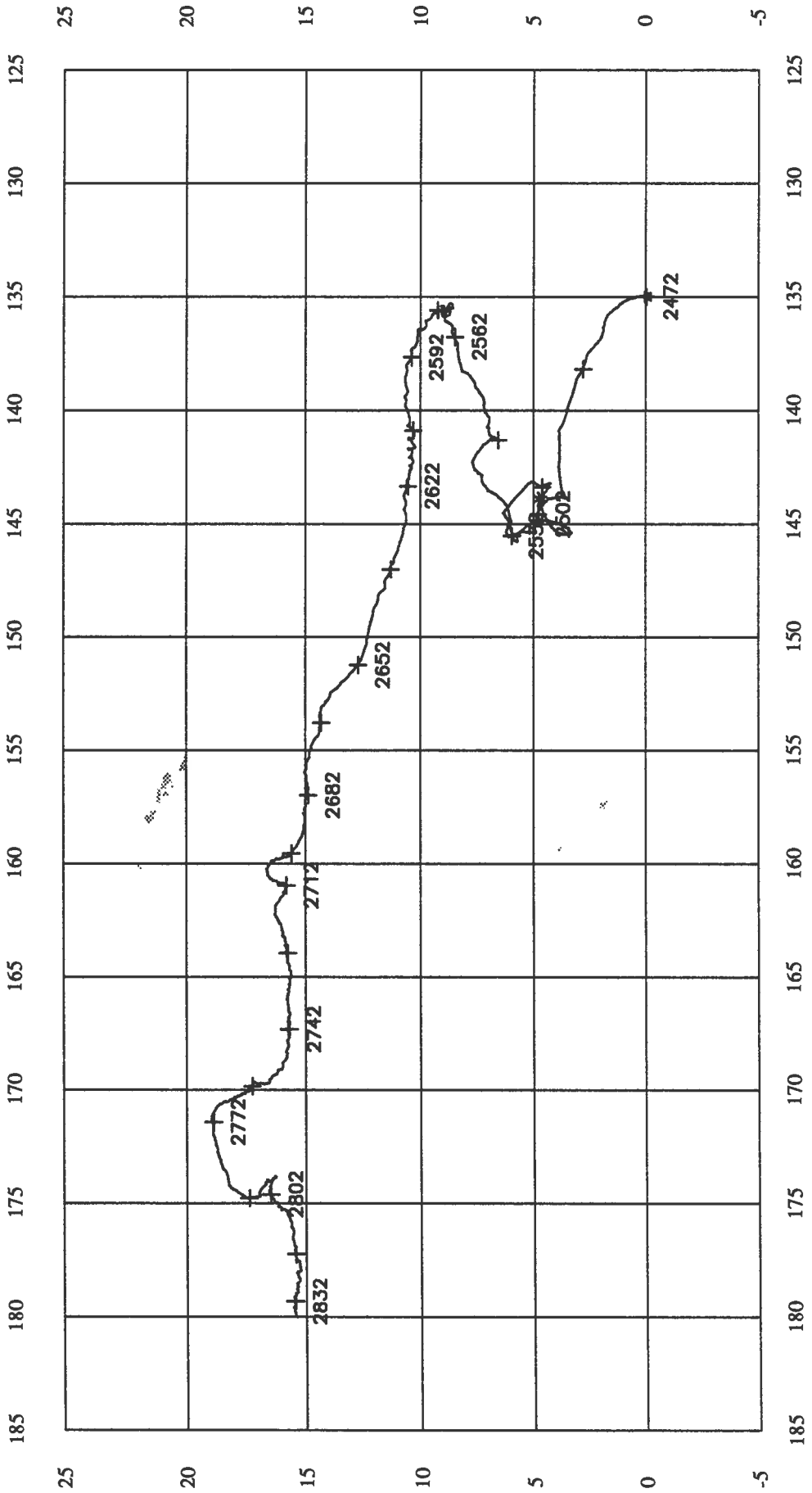
BUOY 2284



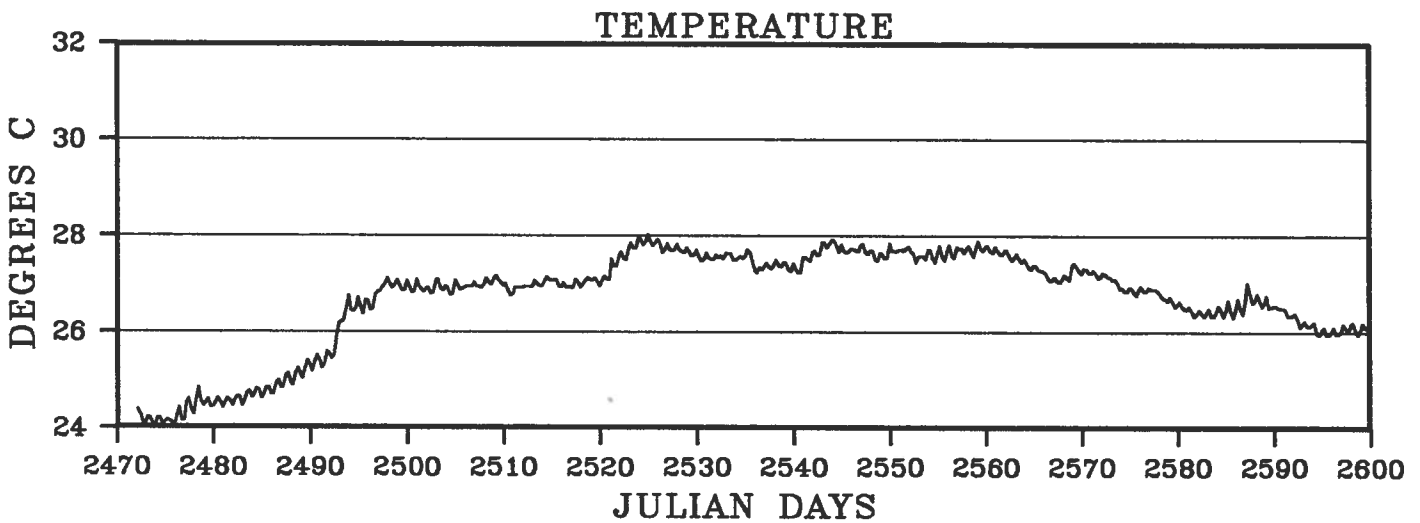
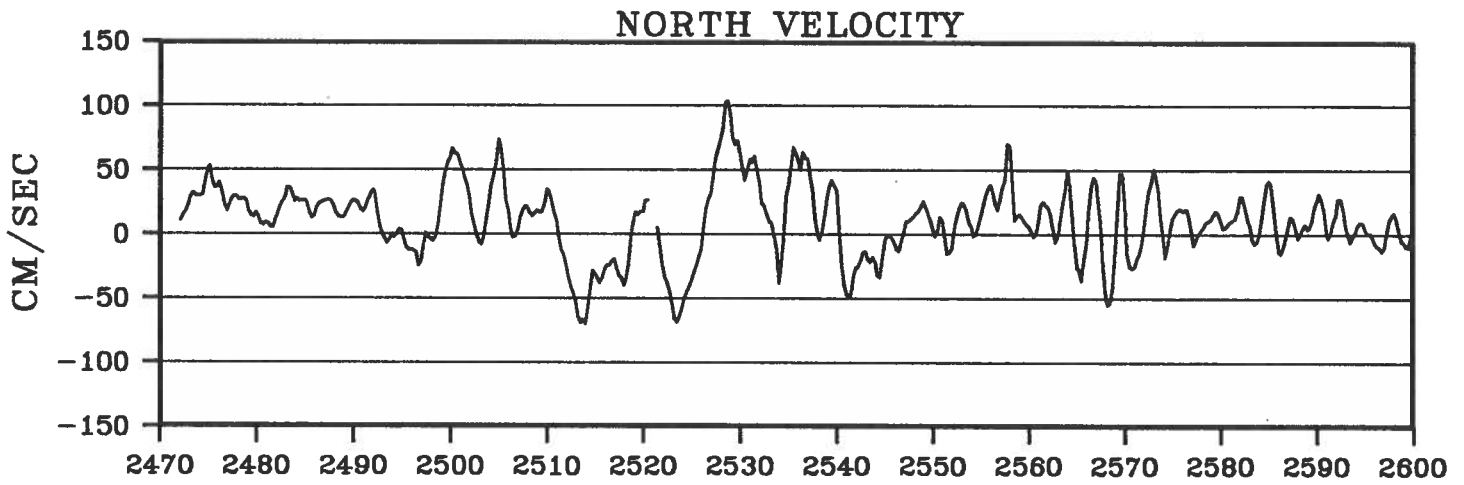
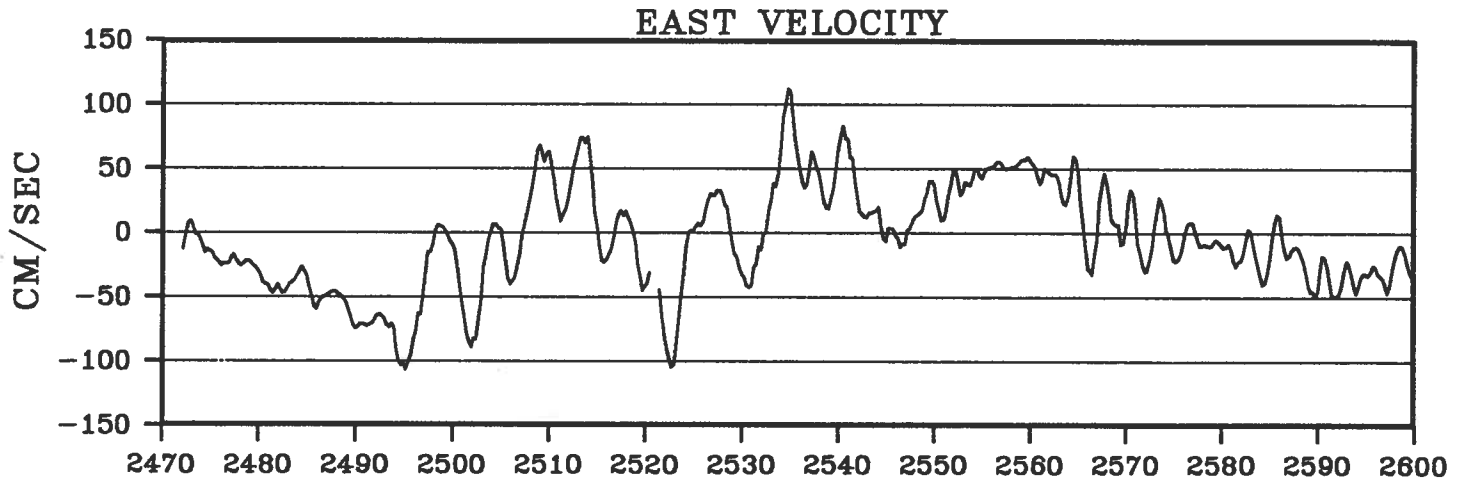
BUOY 2284



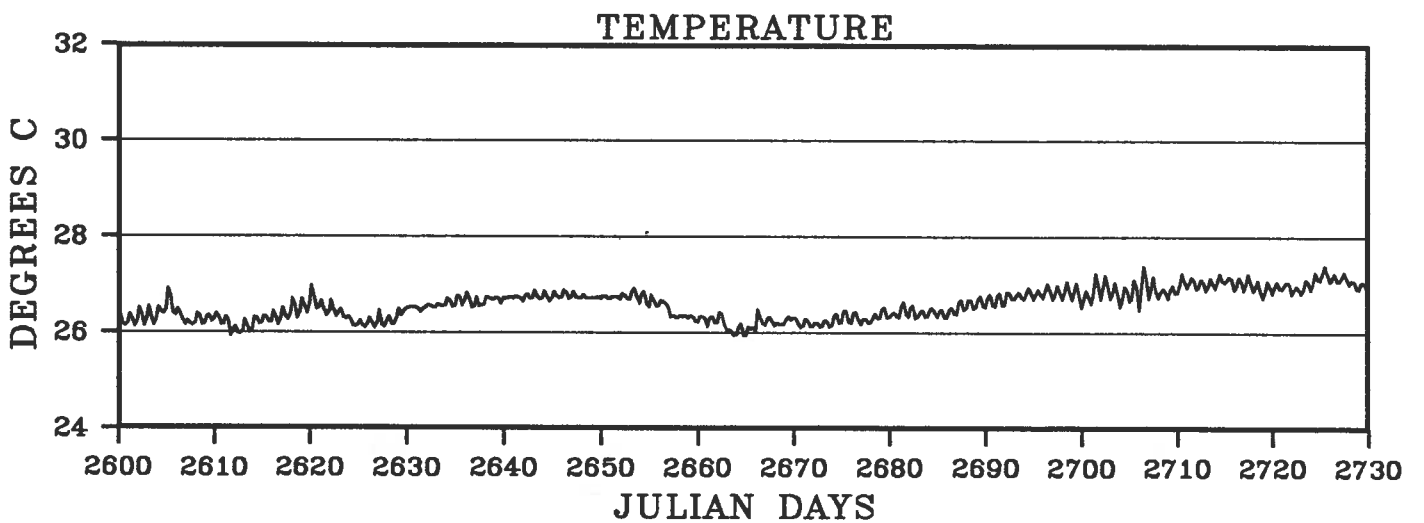
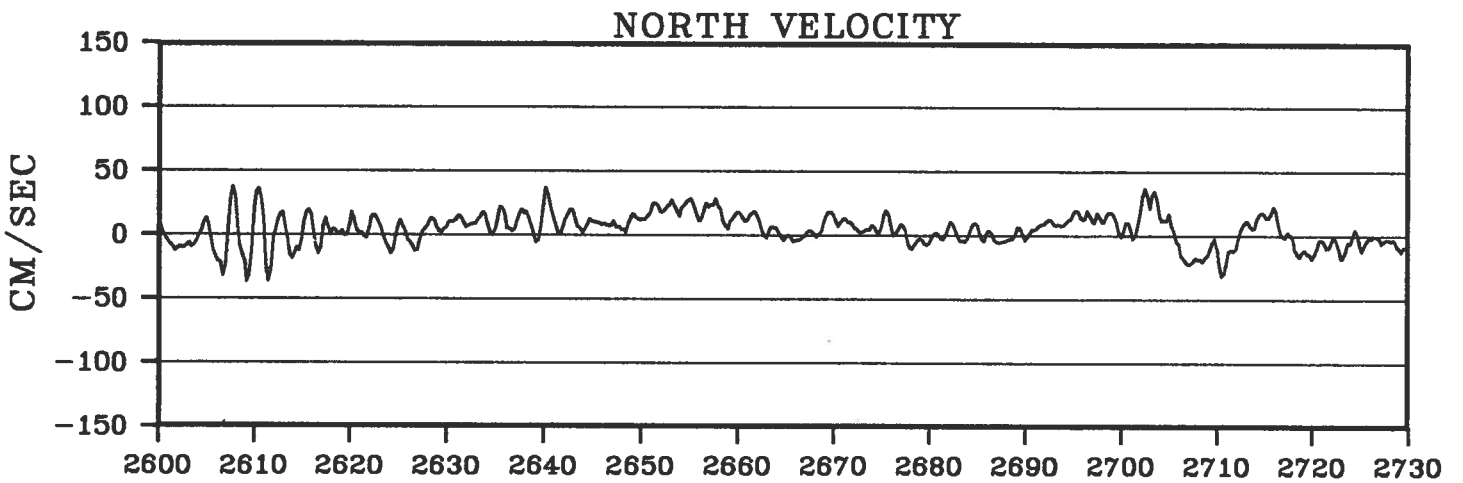
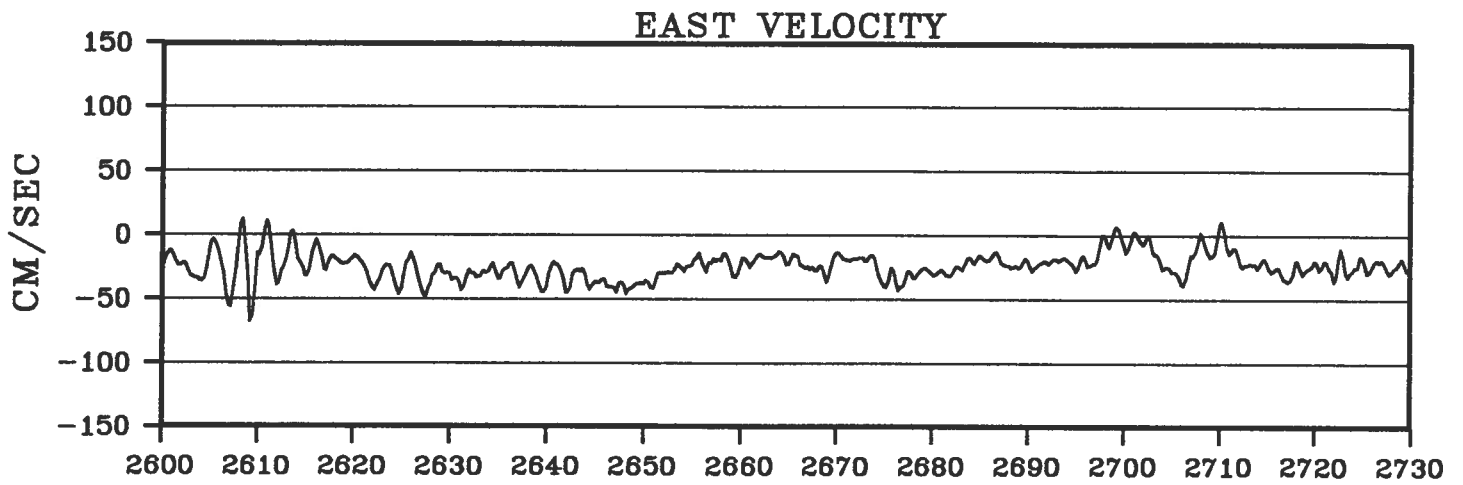
BUOY 2285



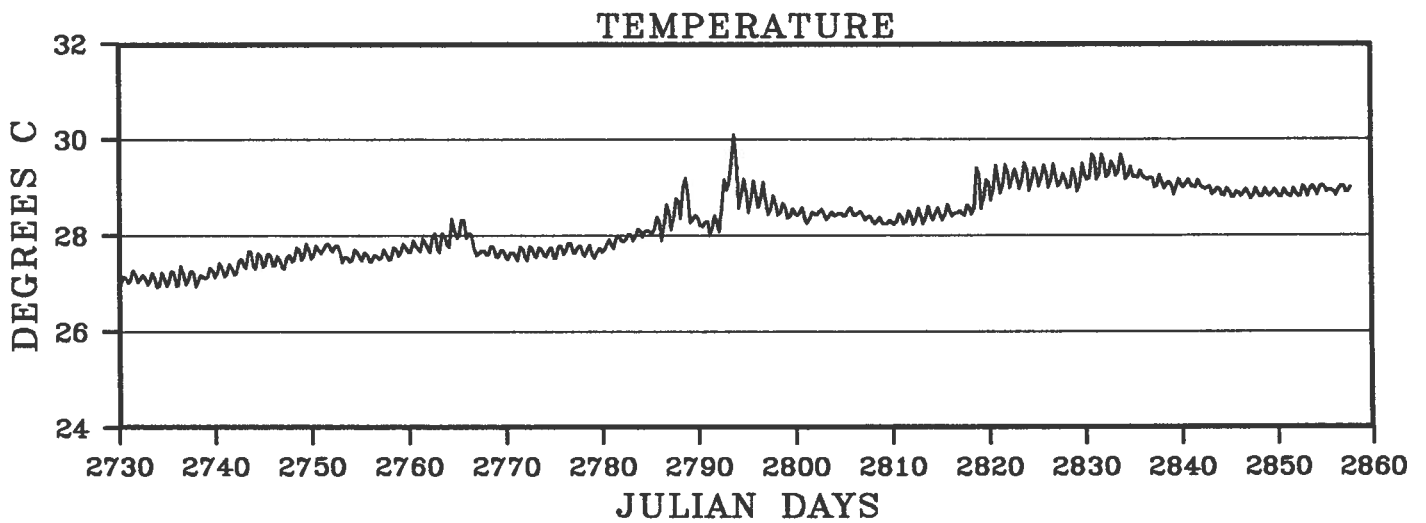
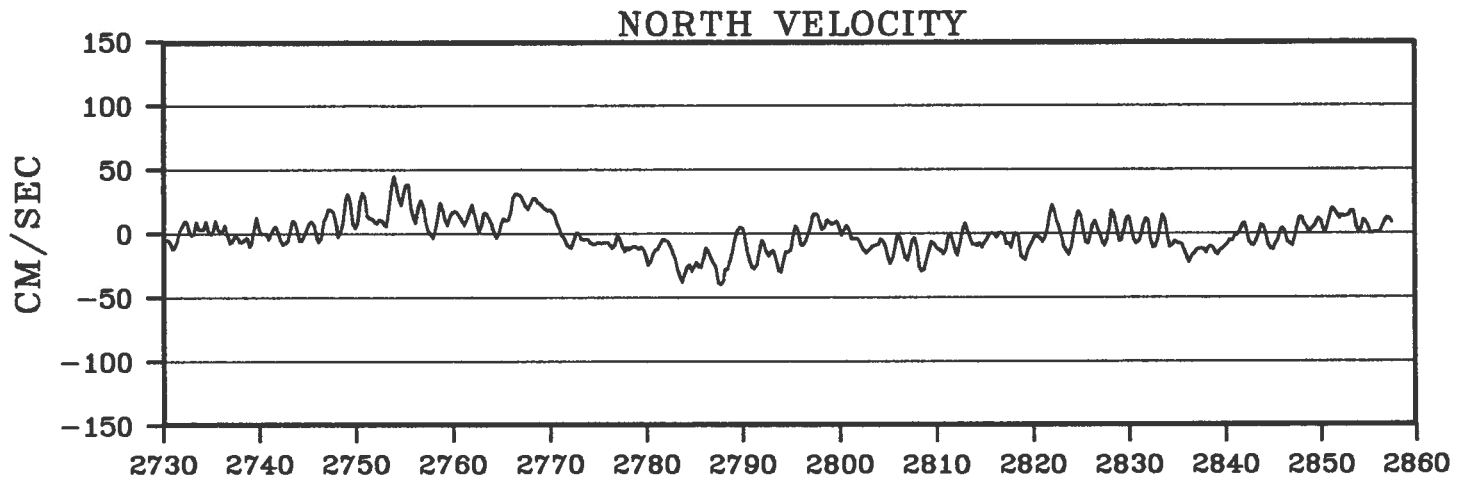
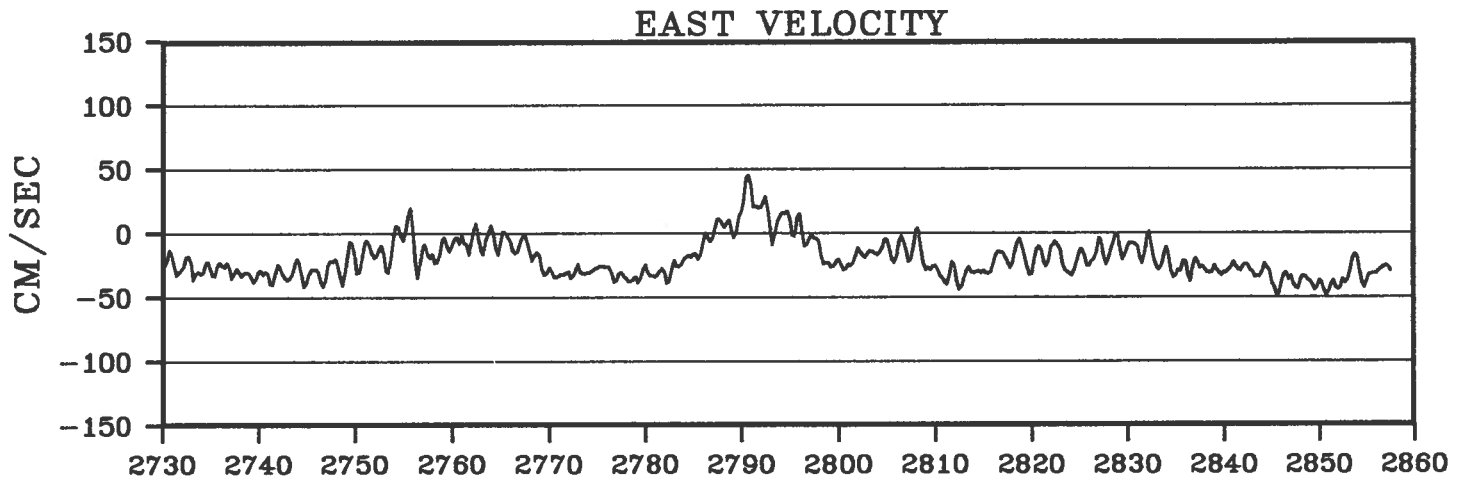
BUOY 2285



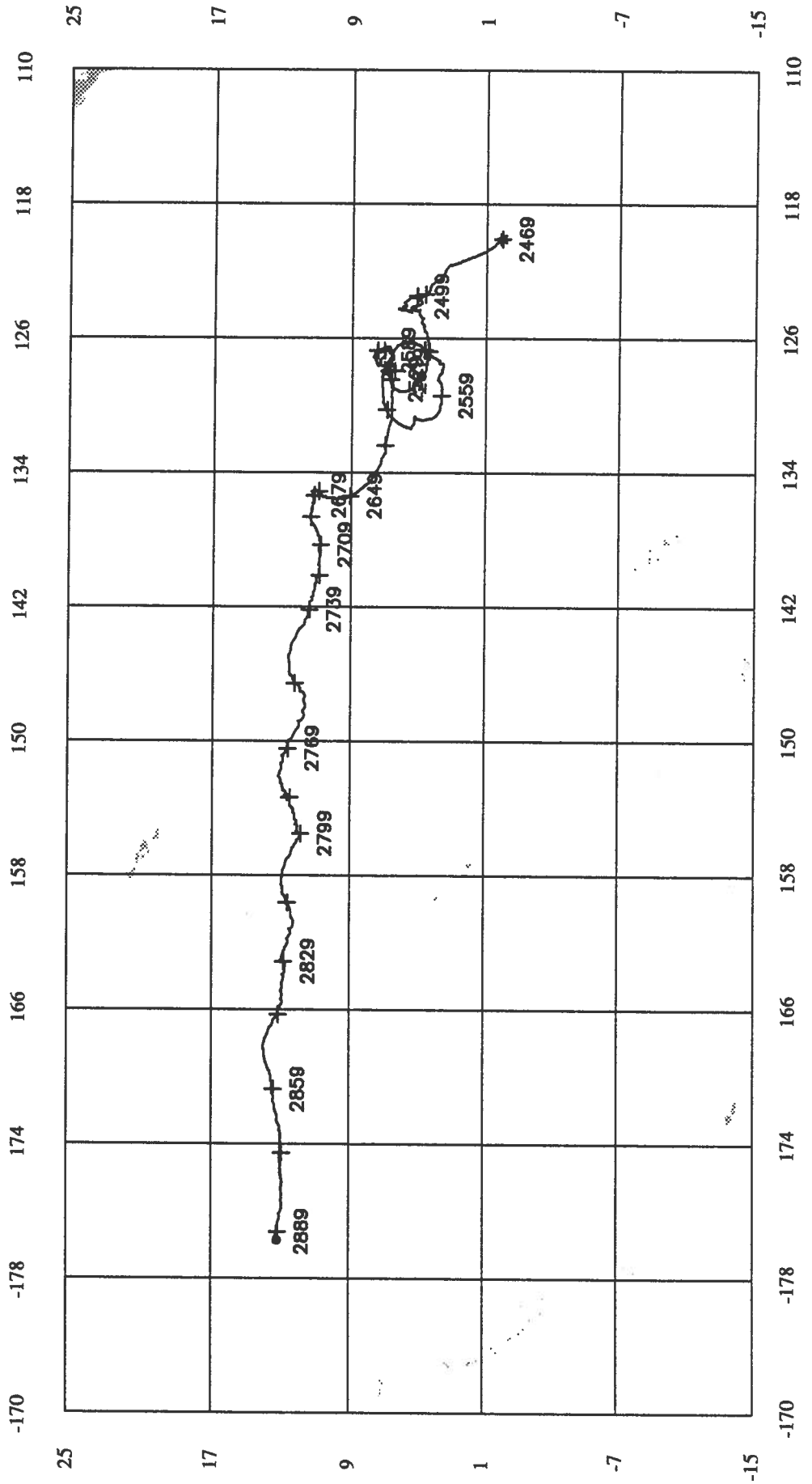
BUOY 2285



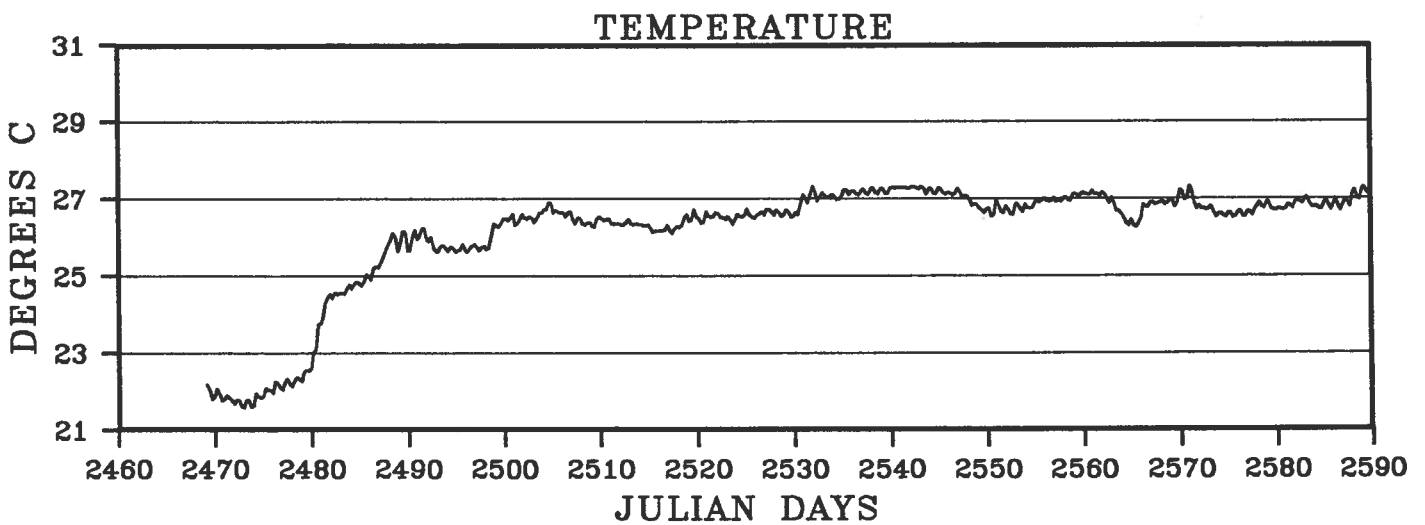
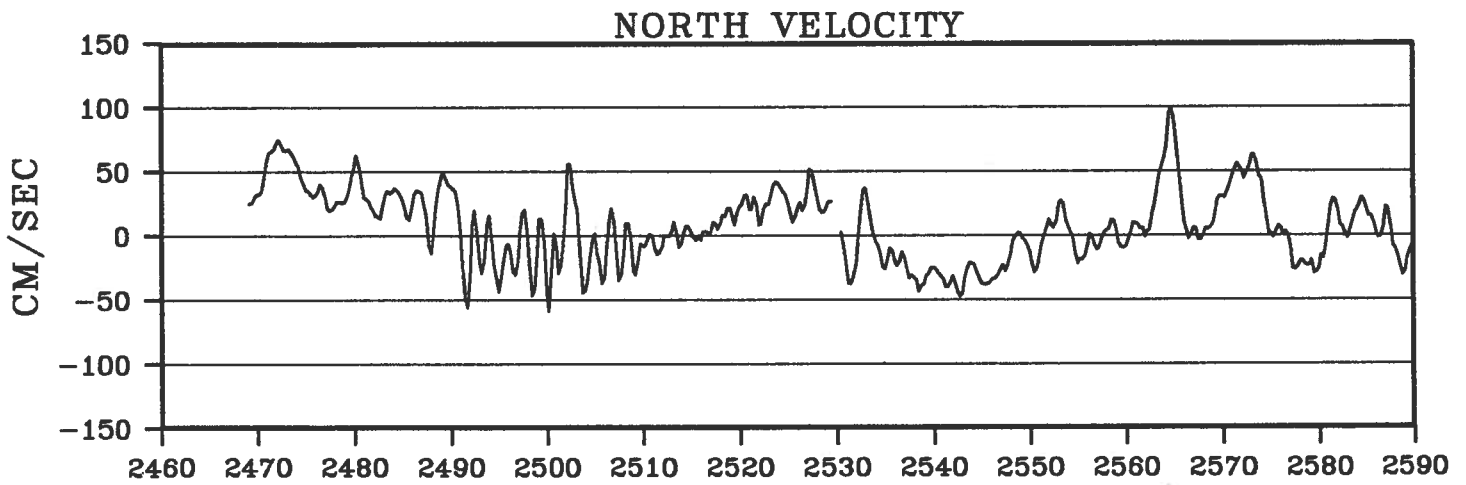
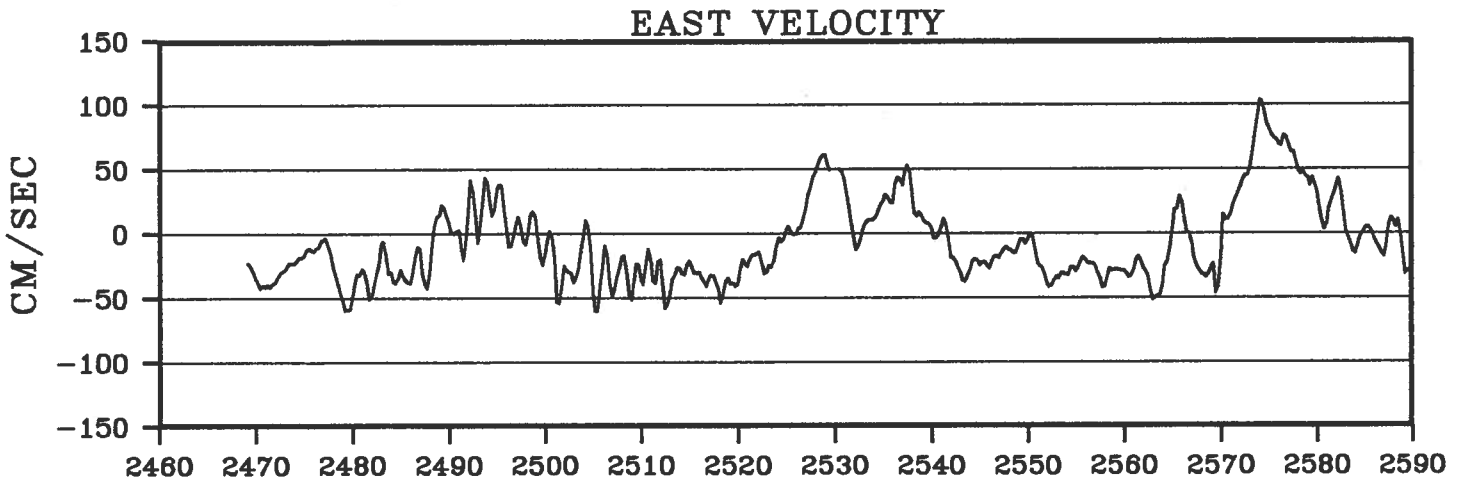
BUOY 2285



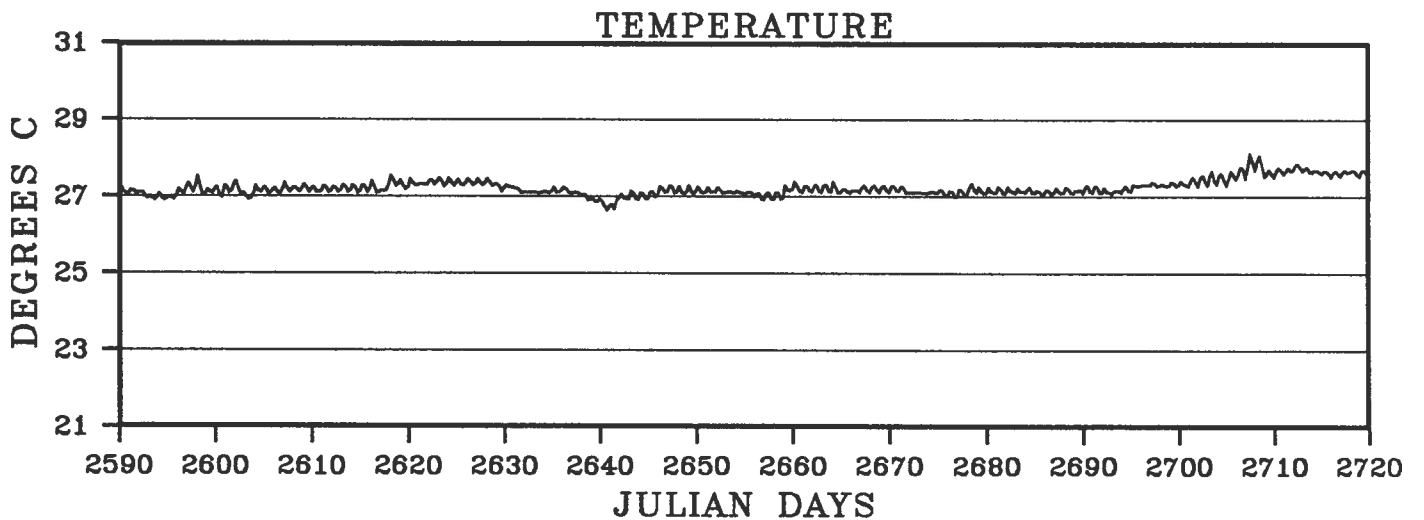
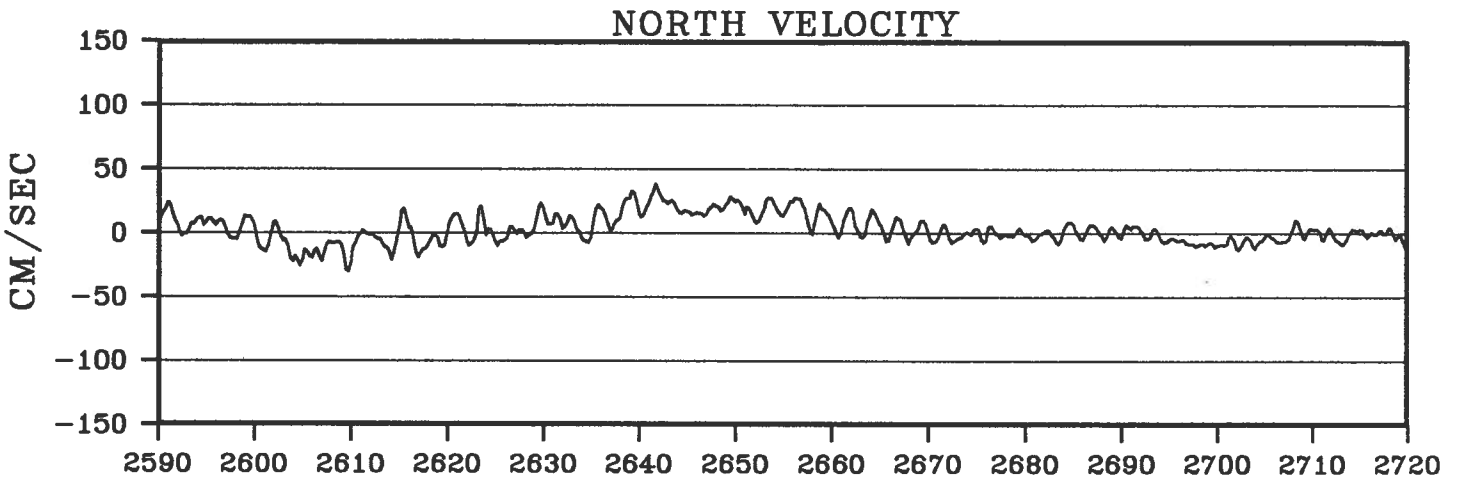
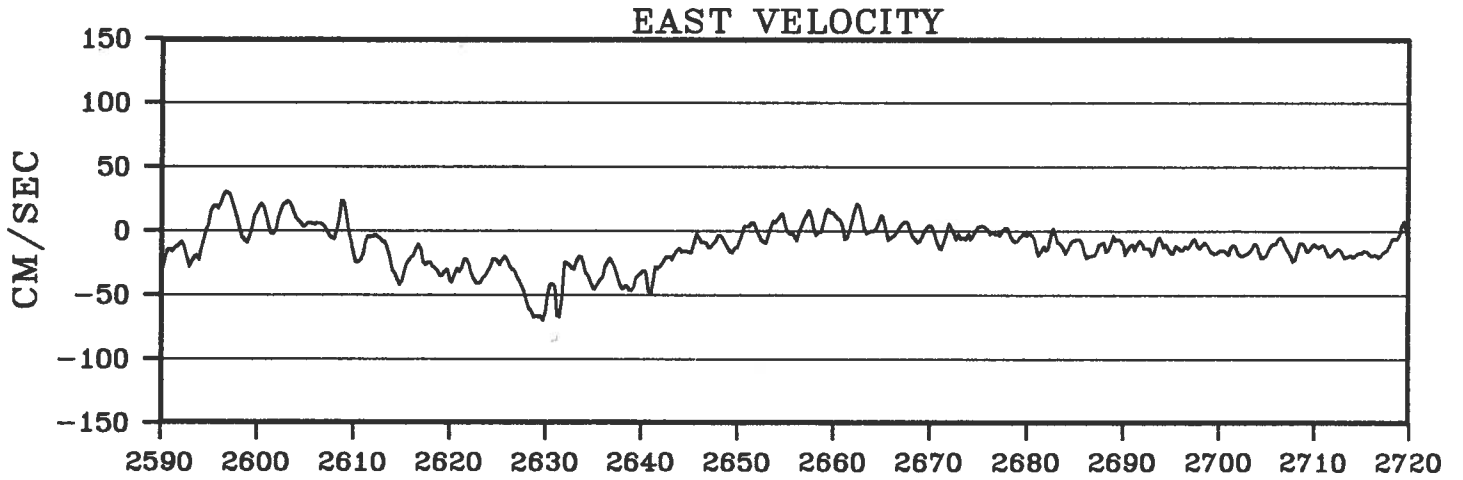
BUOY 2286



BUOY 2286

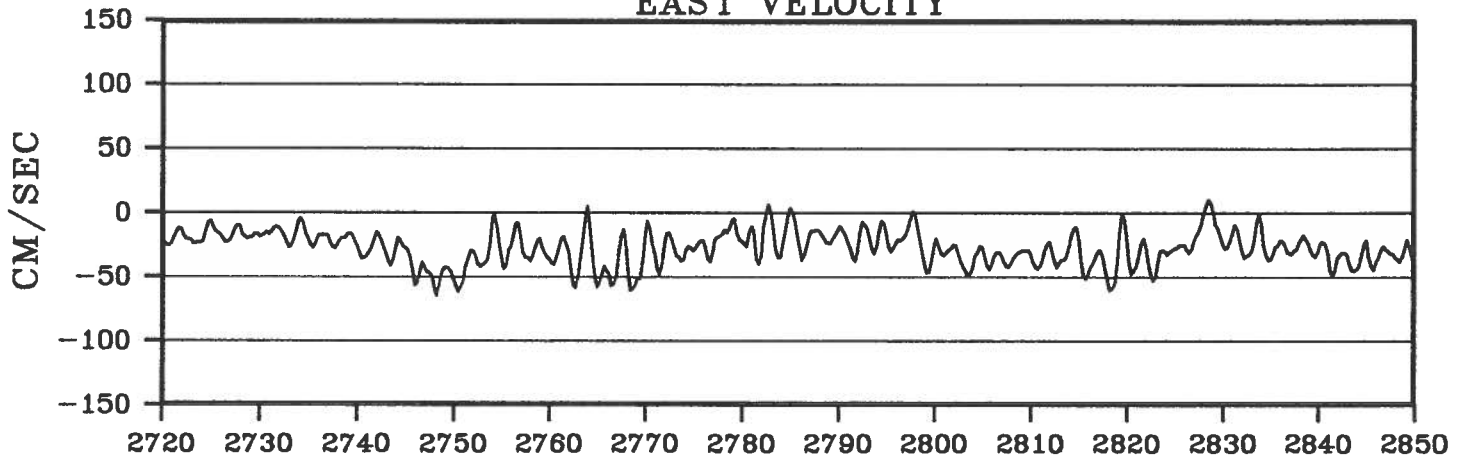


BUOY 2286

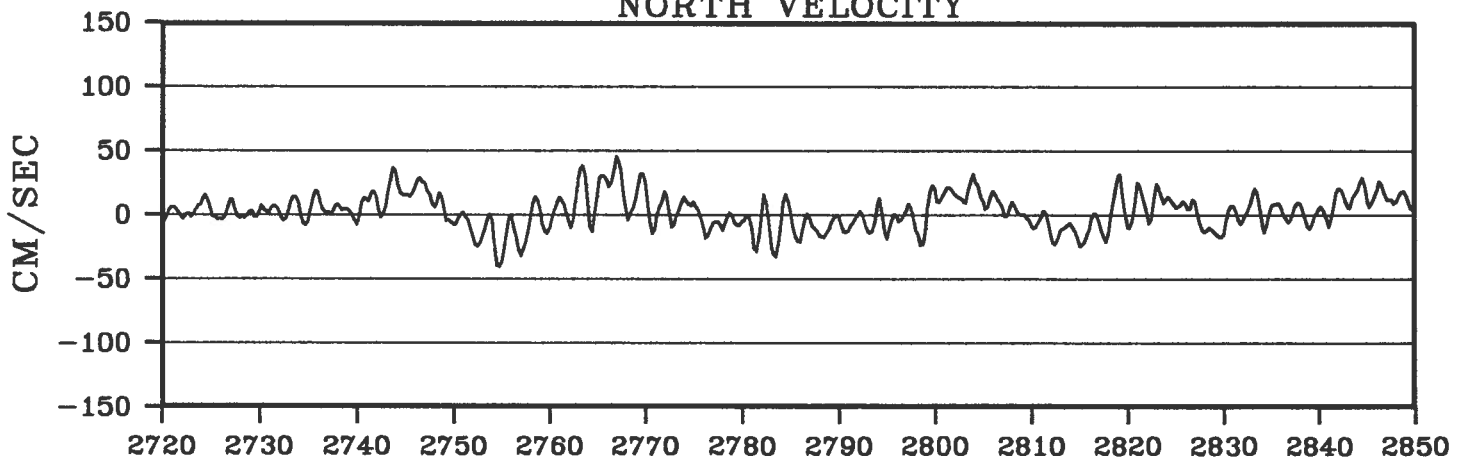


BUOY 2286

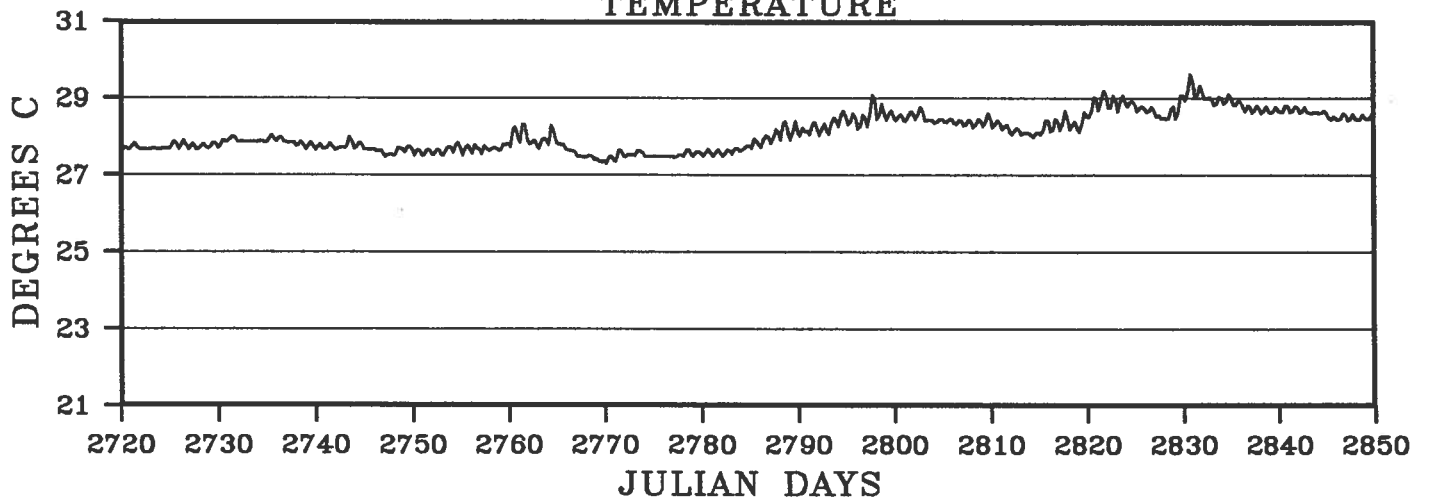
EAST VELOCITY



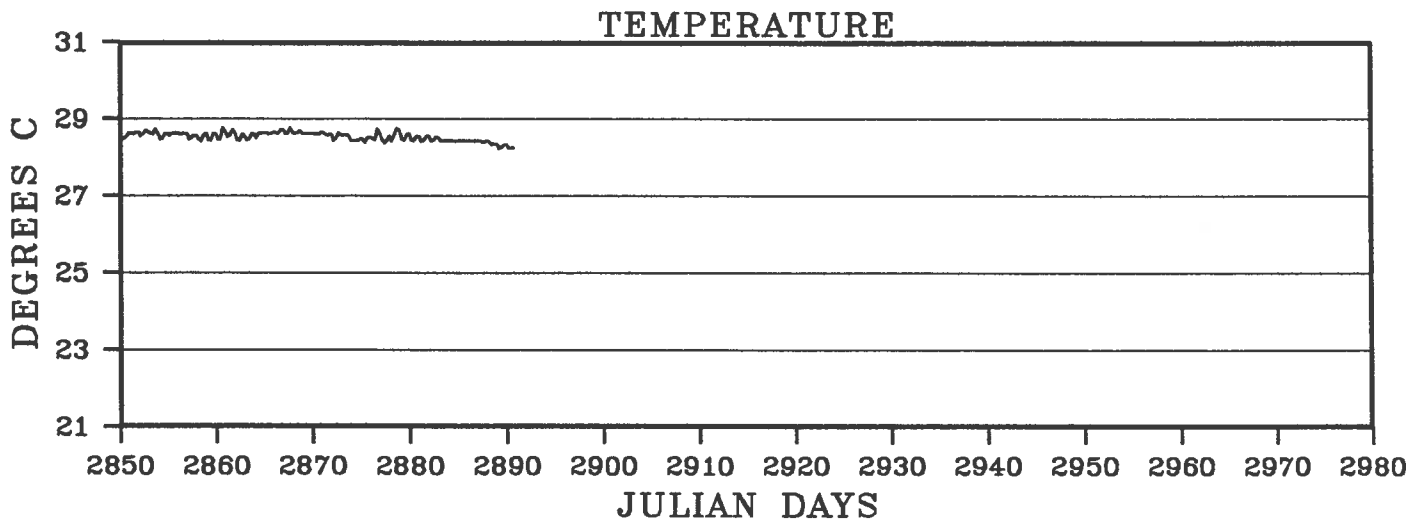
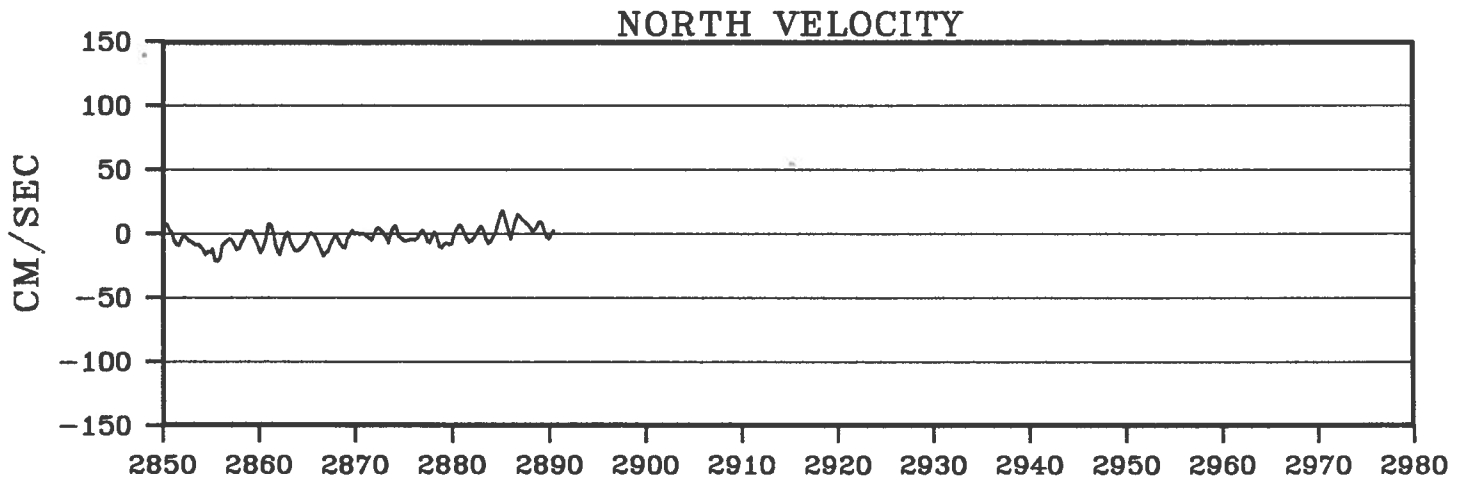
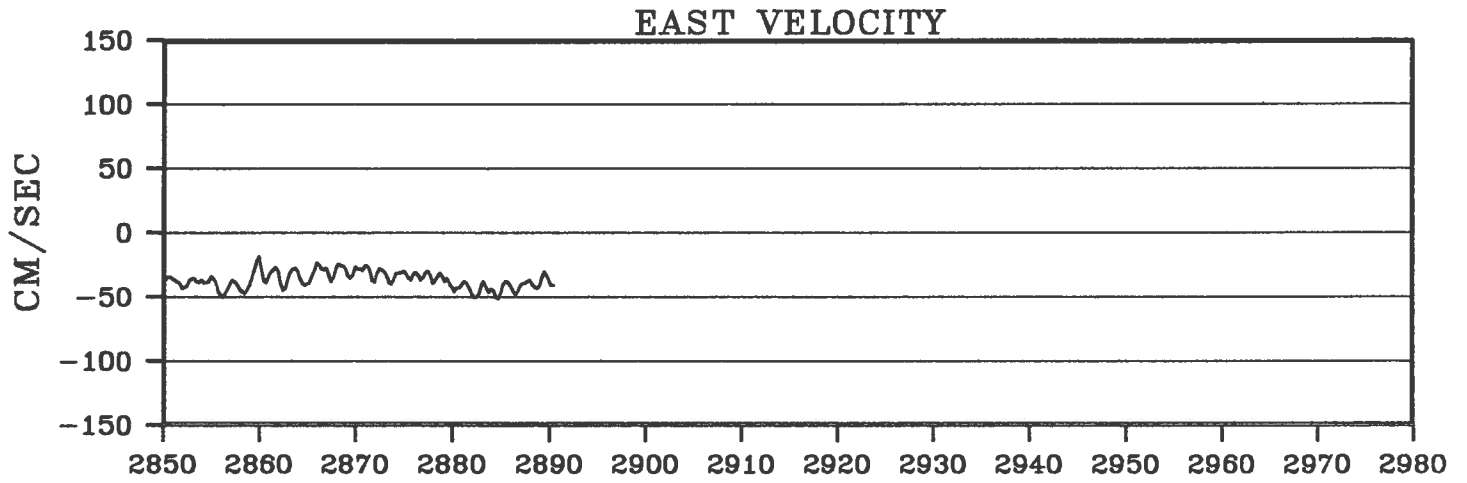
NORTH VELOCITY



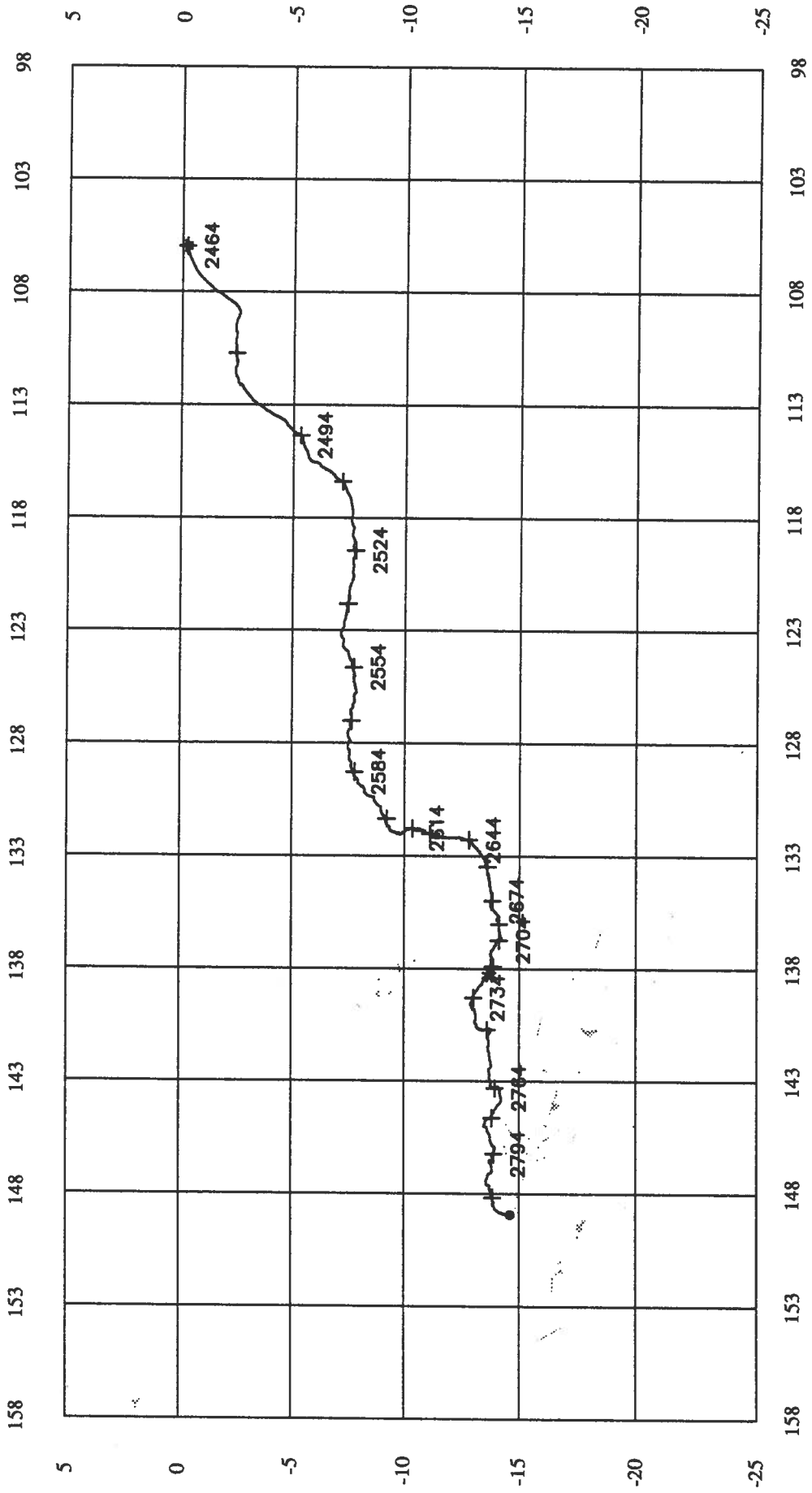
TEMPERATURE



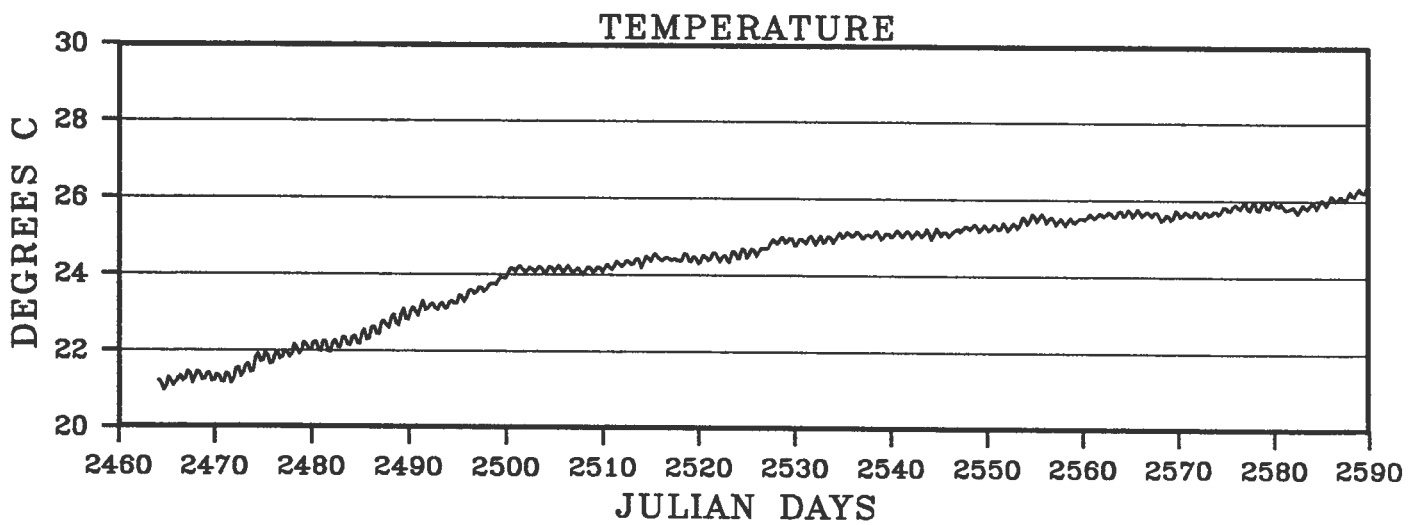
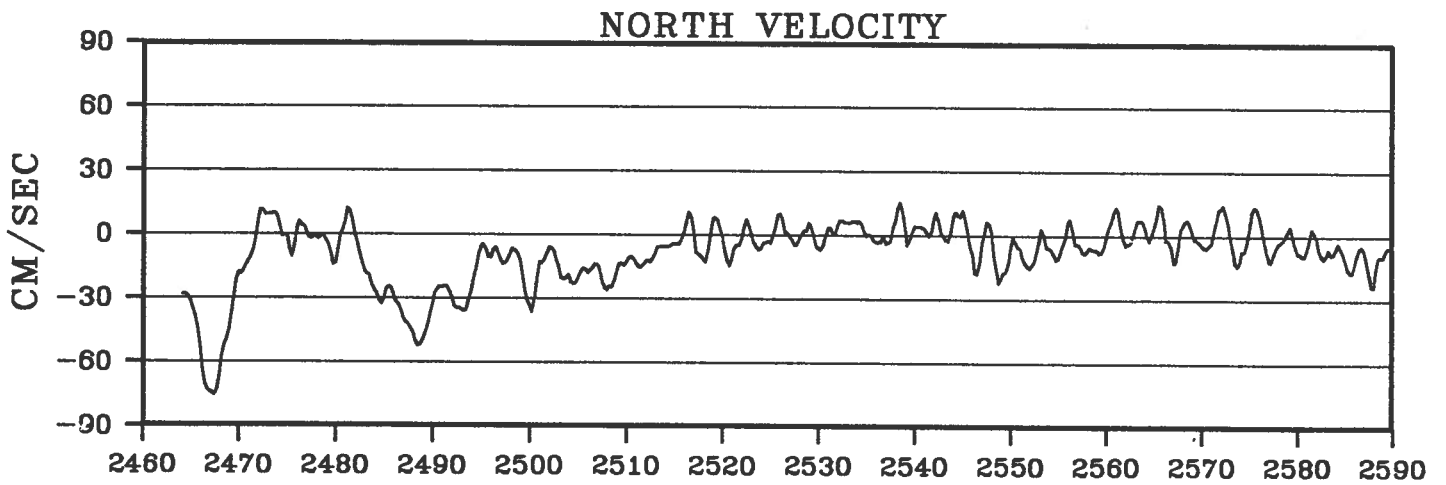
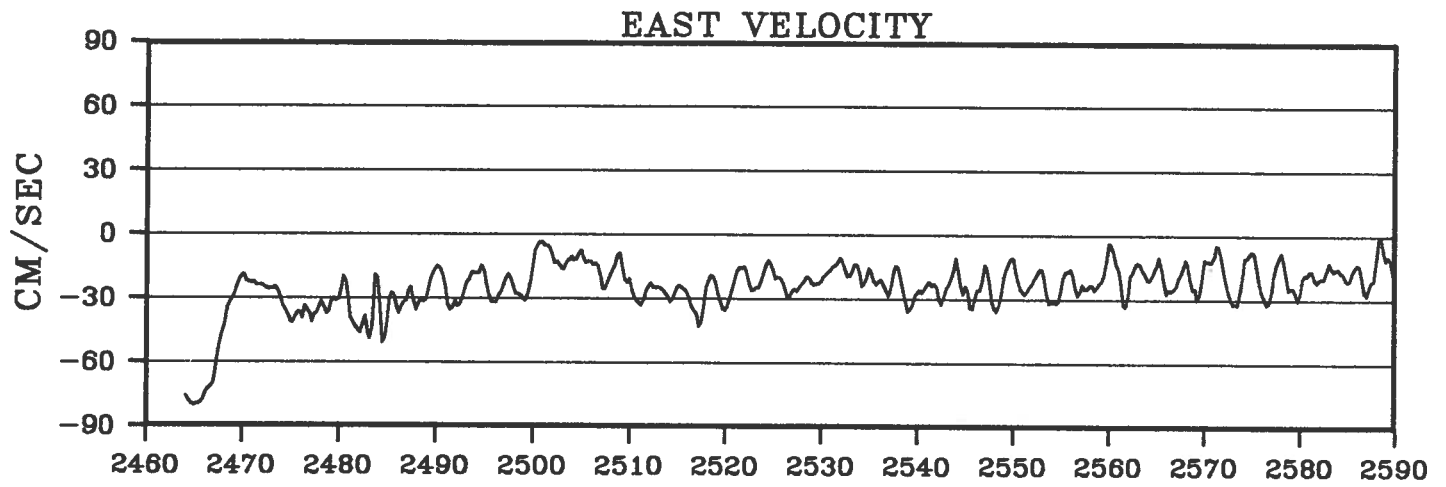
BUOY 2286



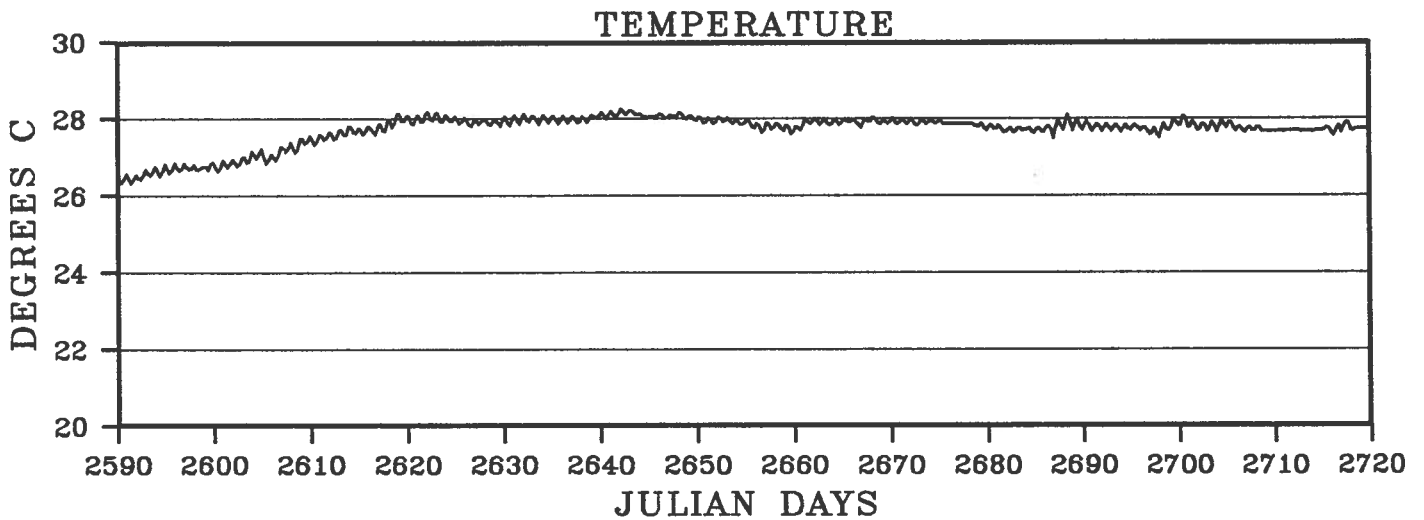
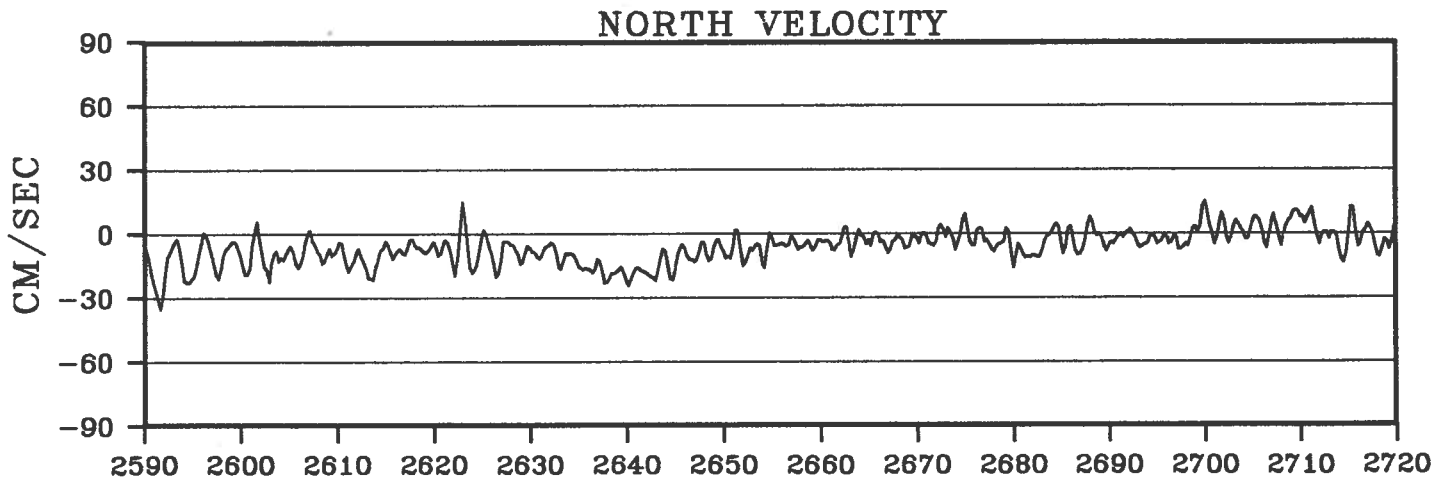
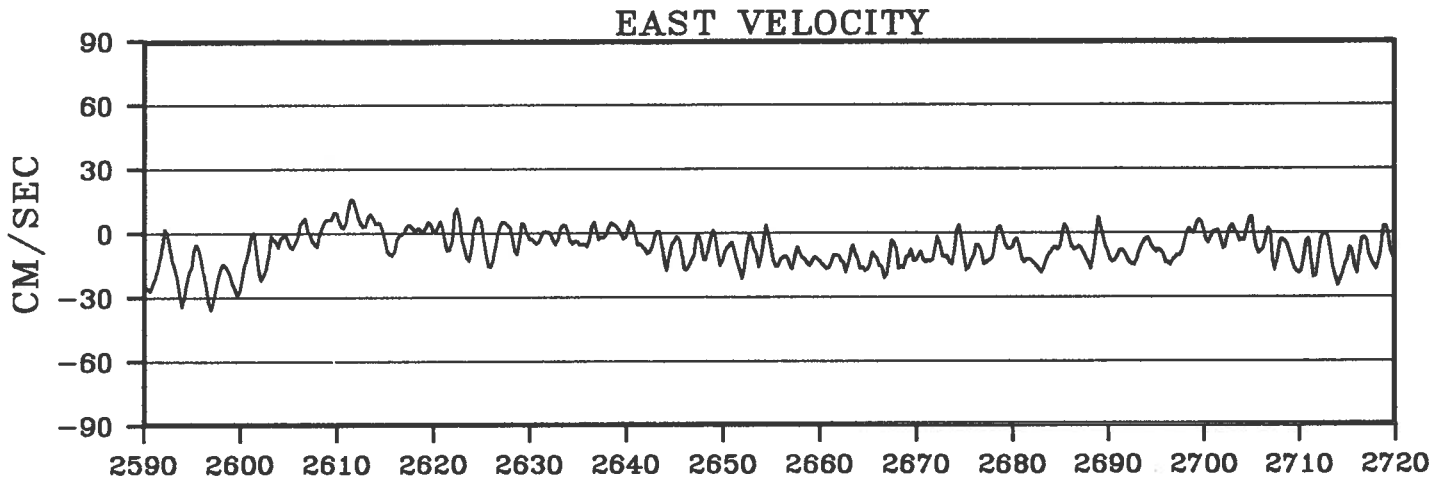
BUOY 2287



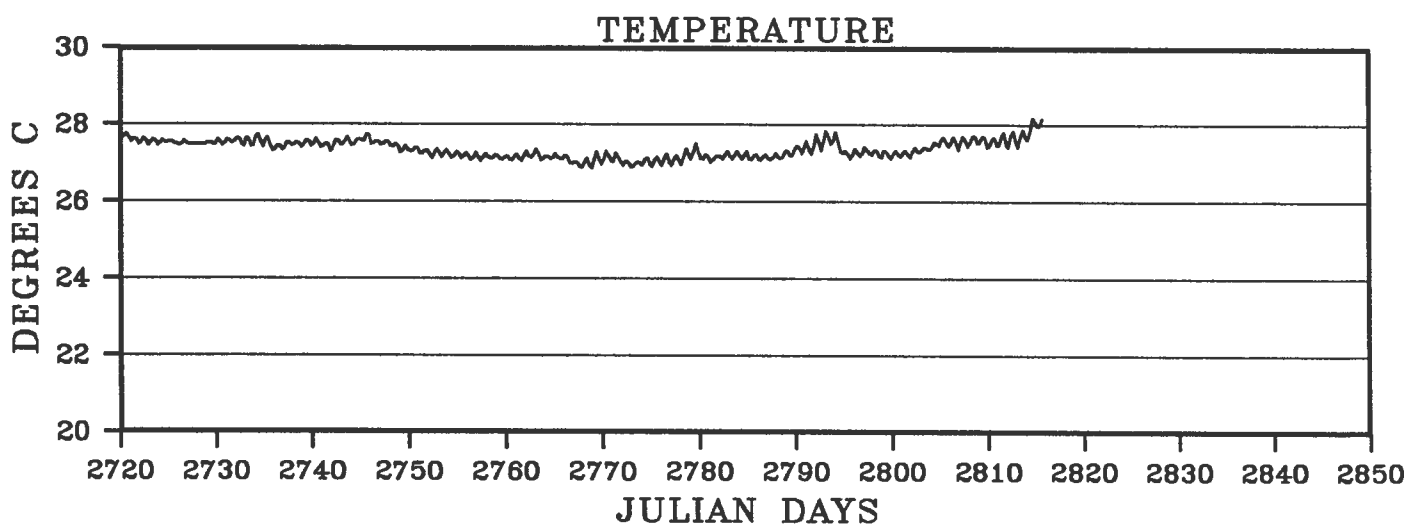
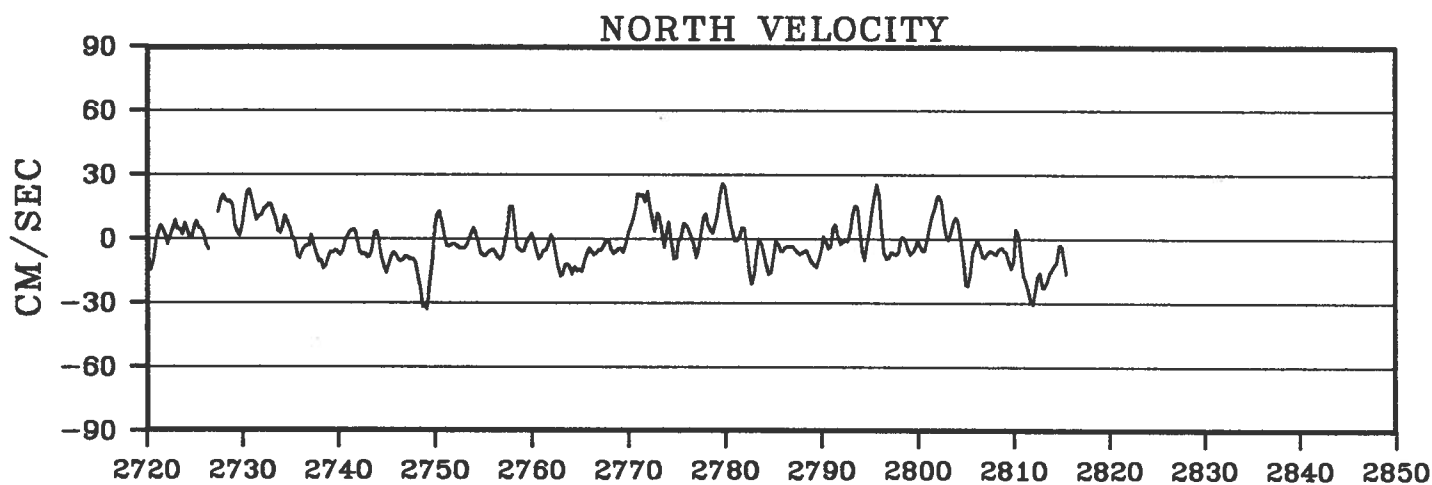
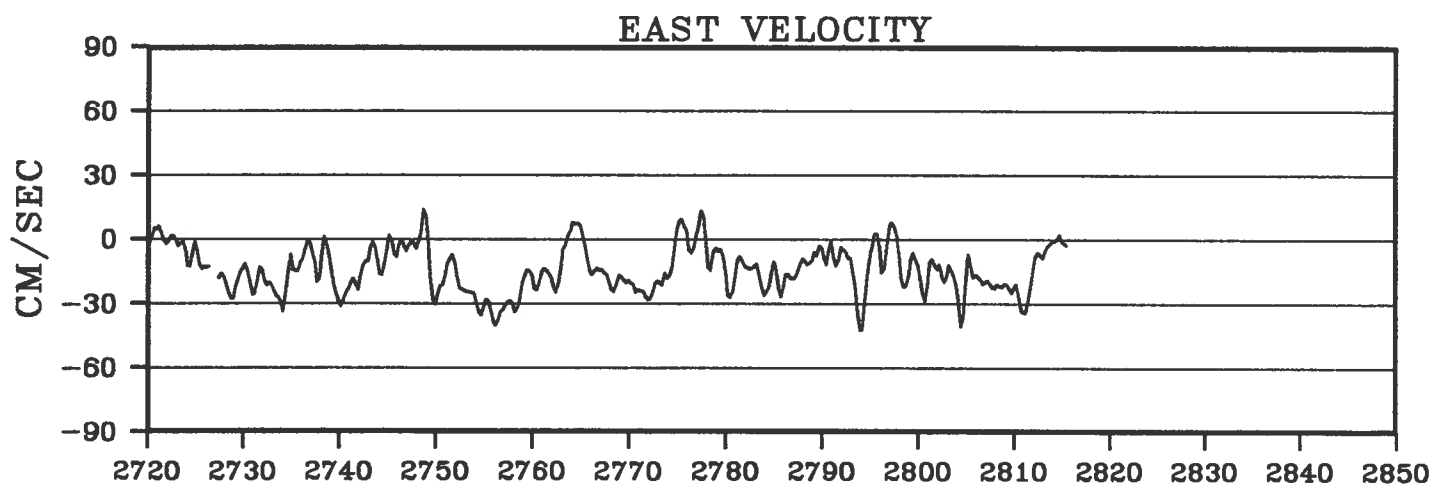
BUOY 2287



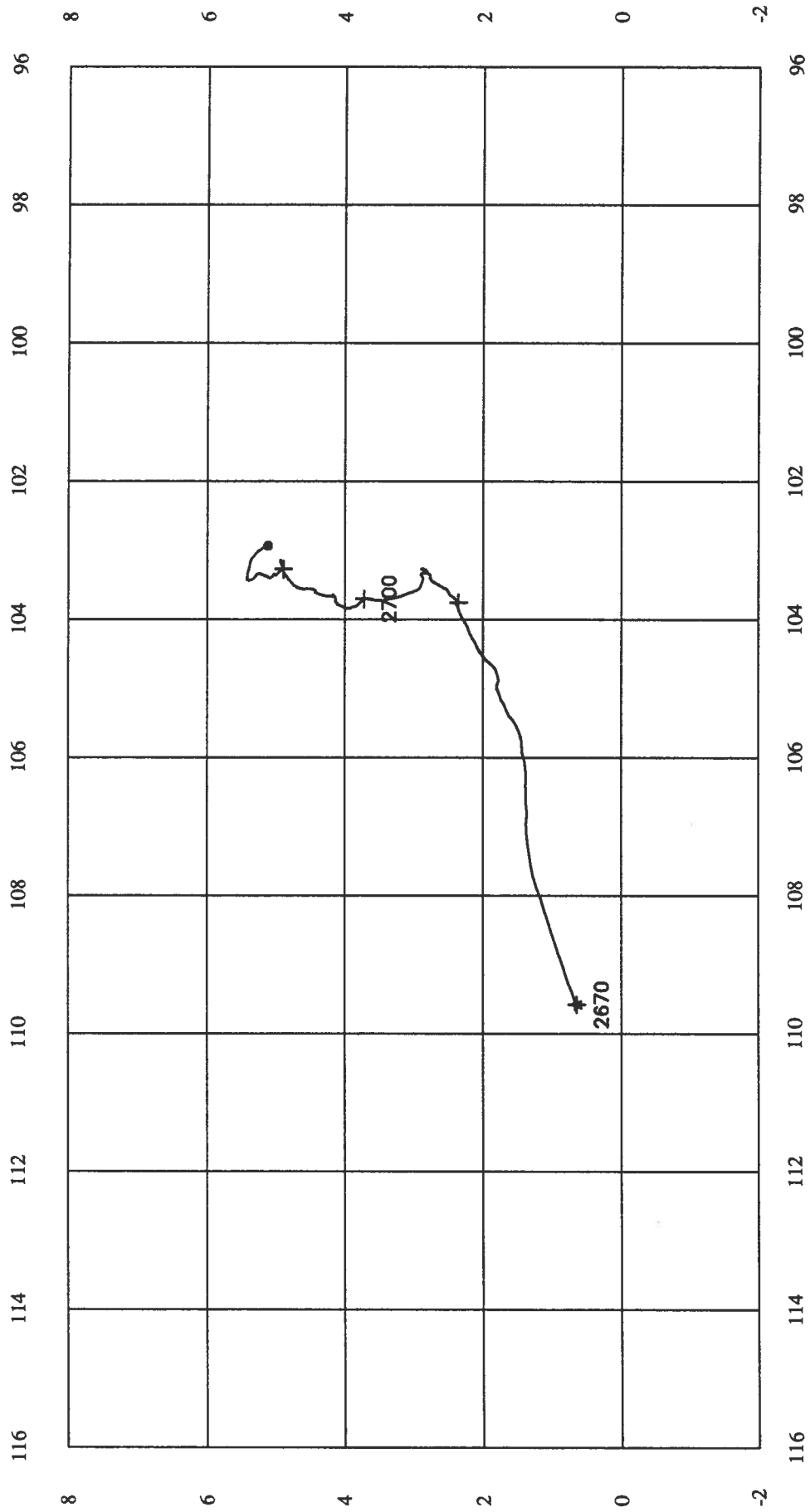
BUOY 2287



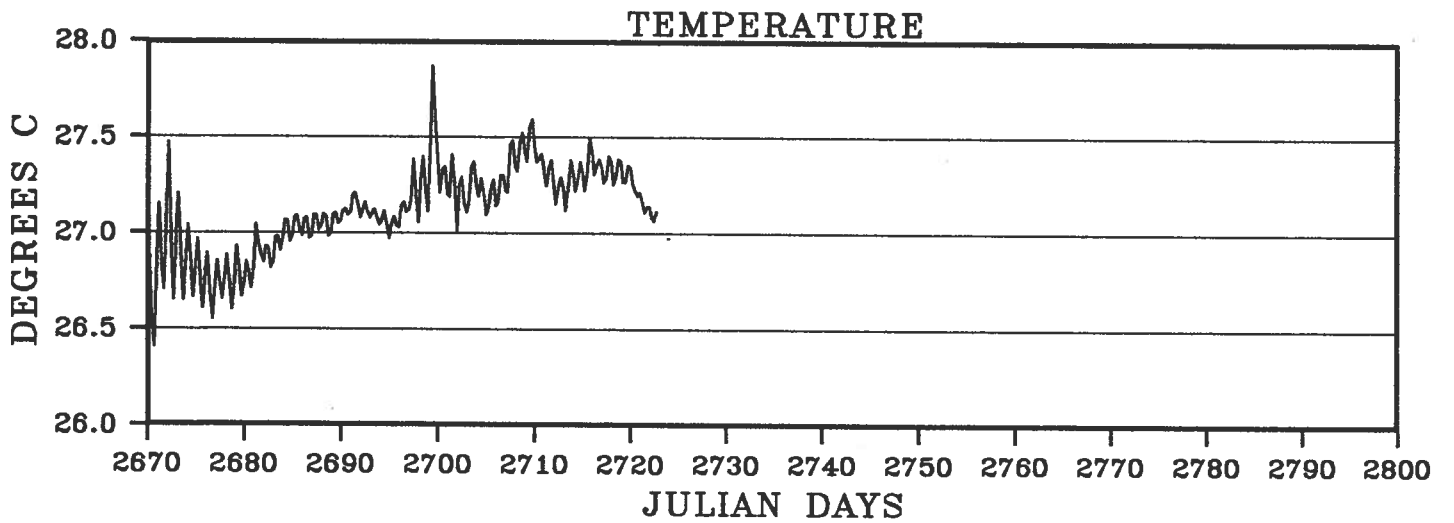
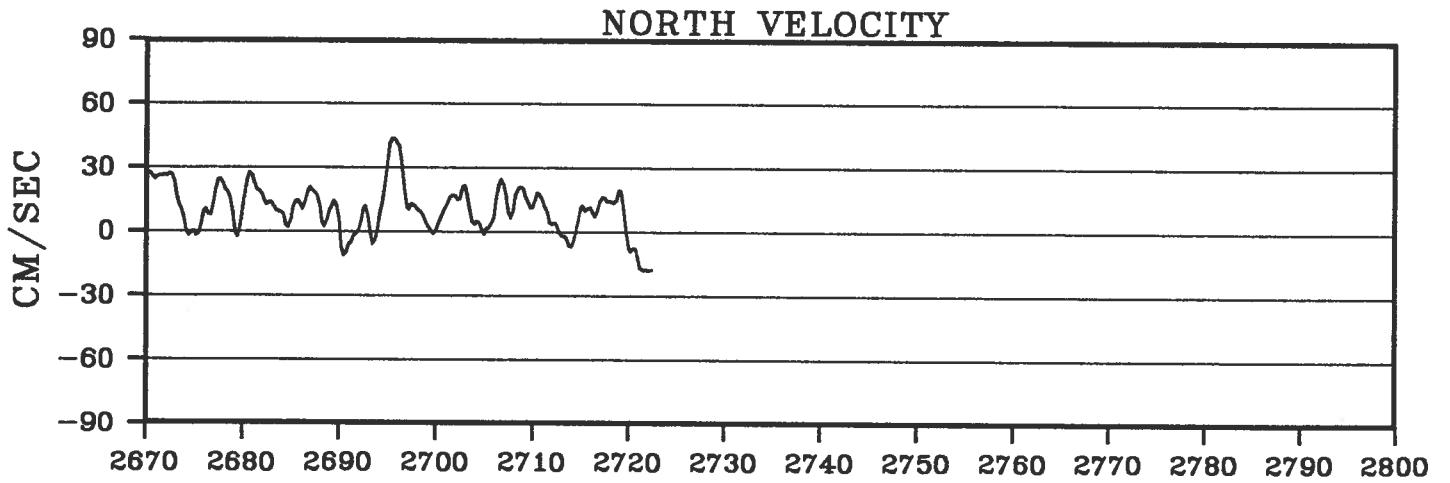
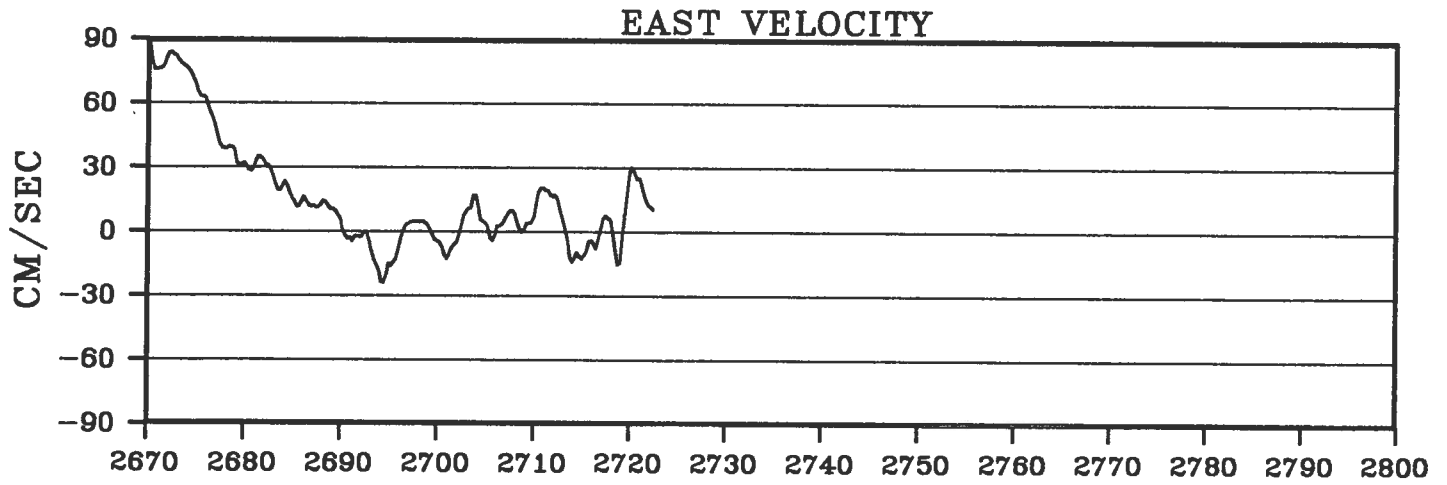
BUOY 2287



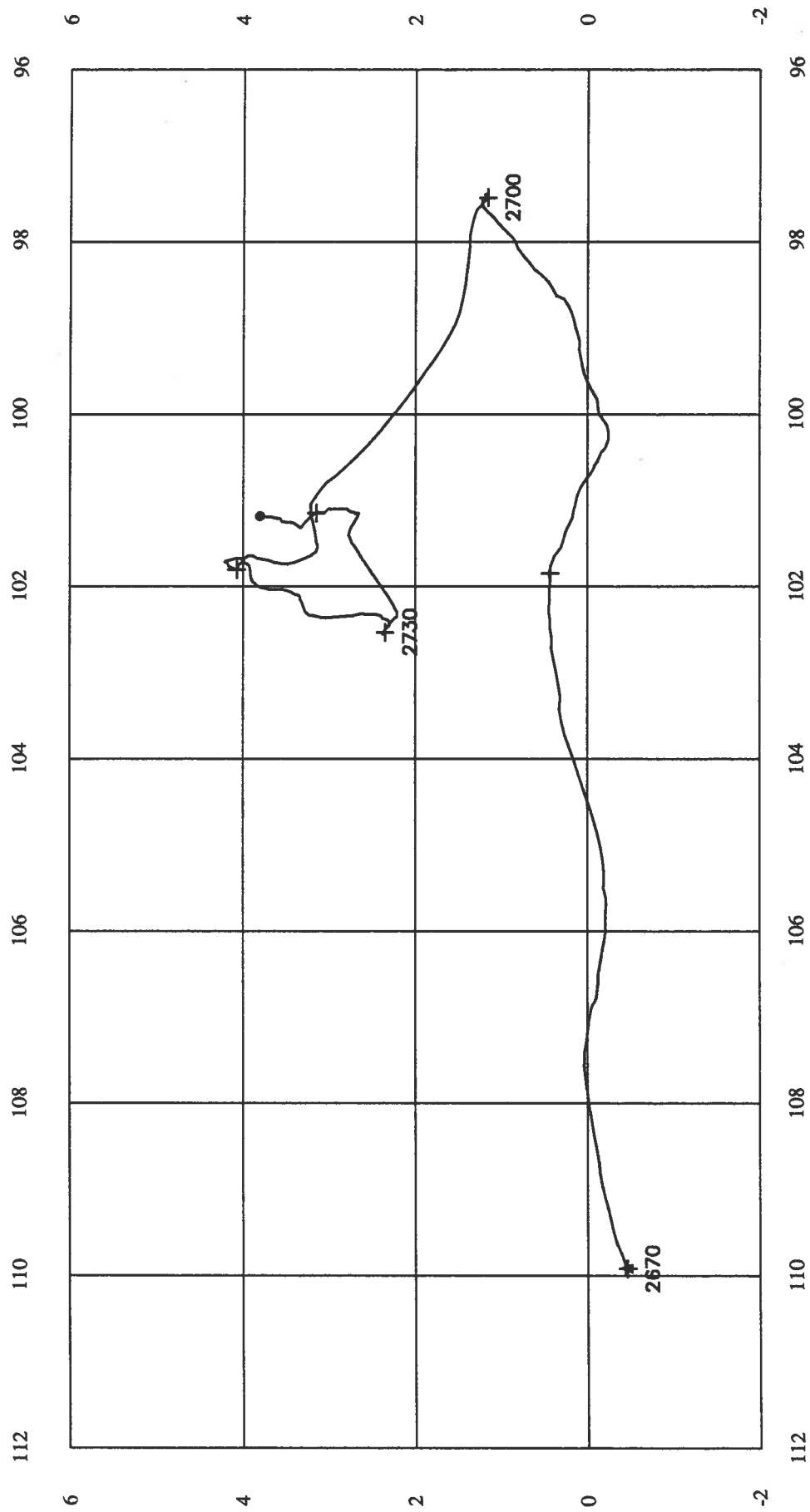
BUOY 2970



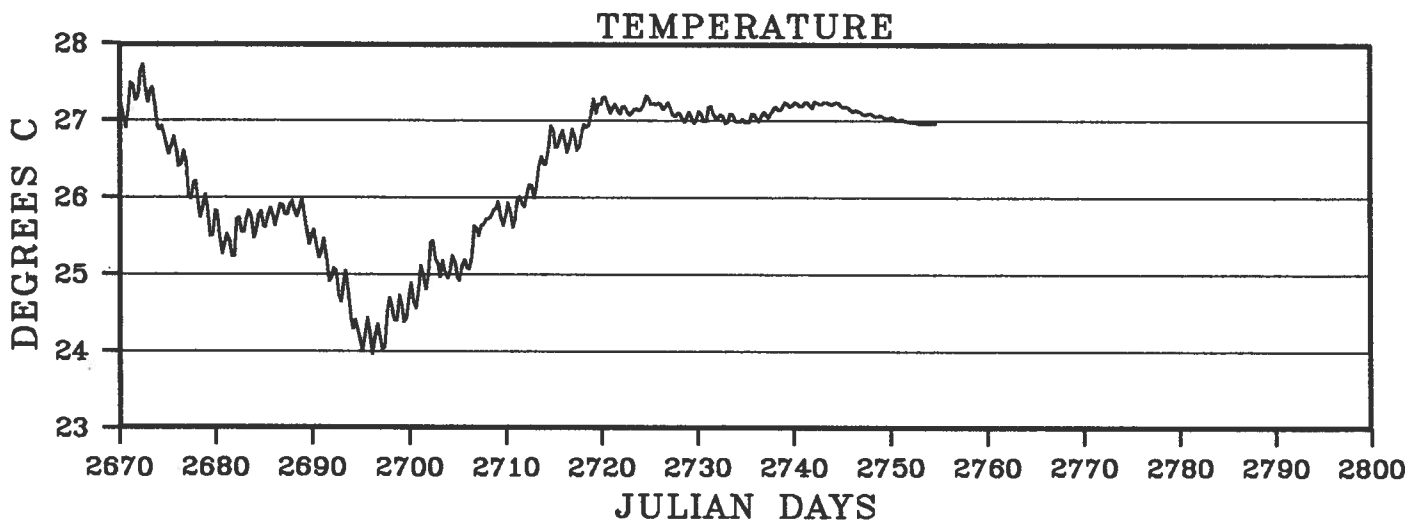
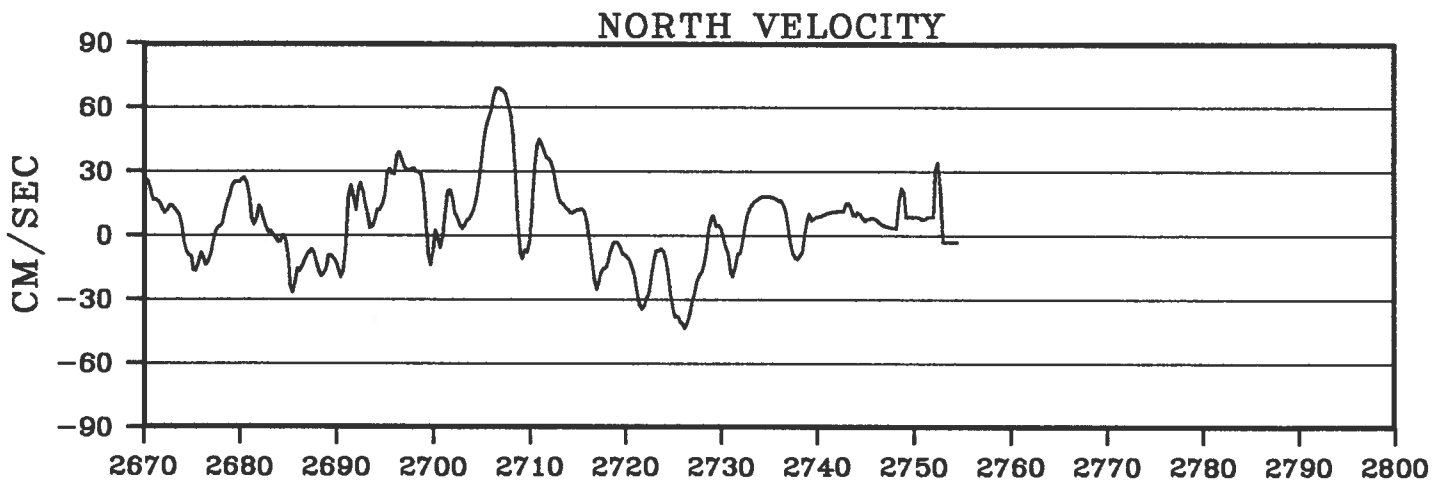
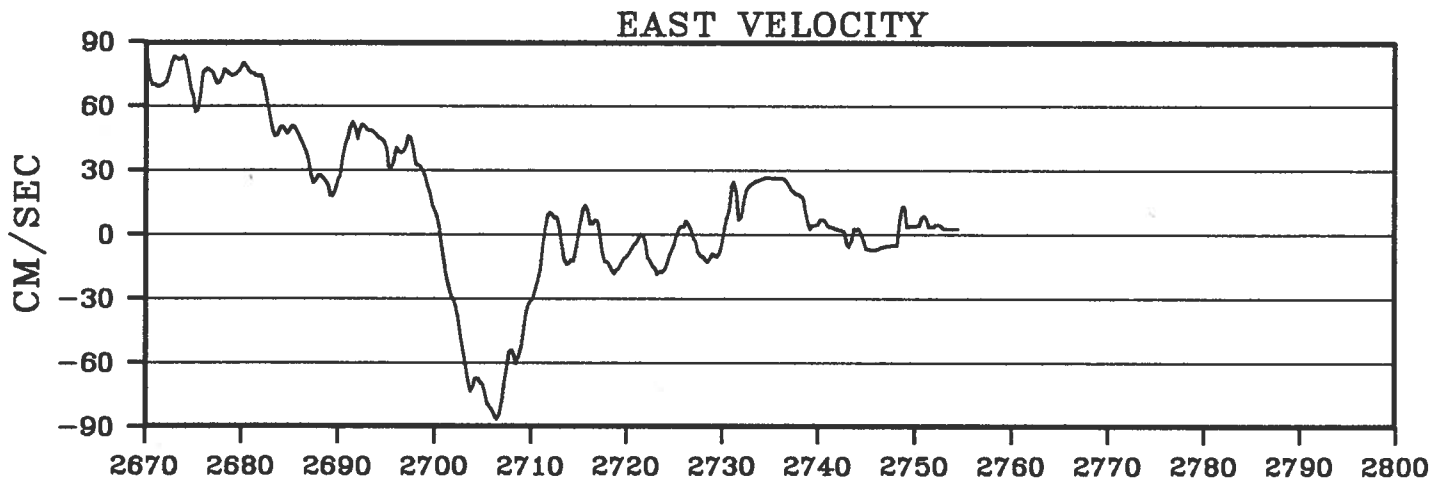
BUOY 2970



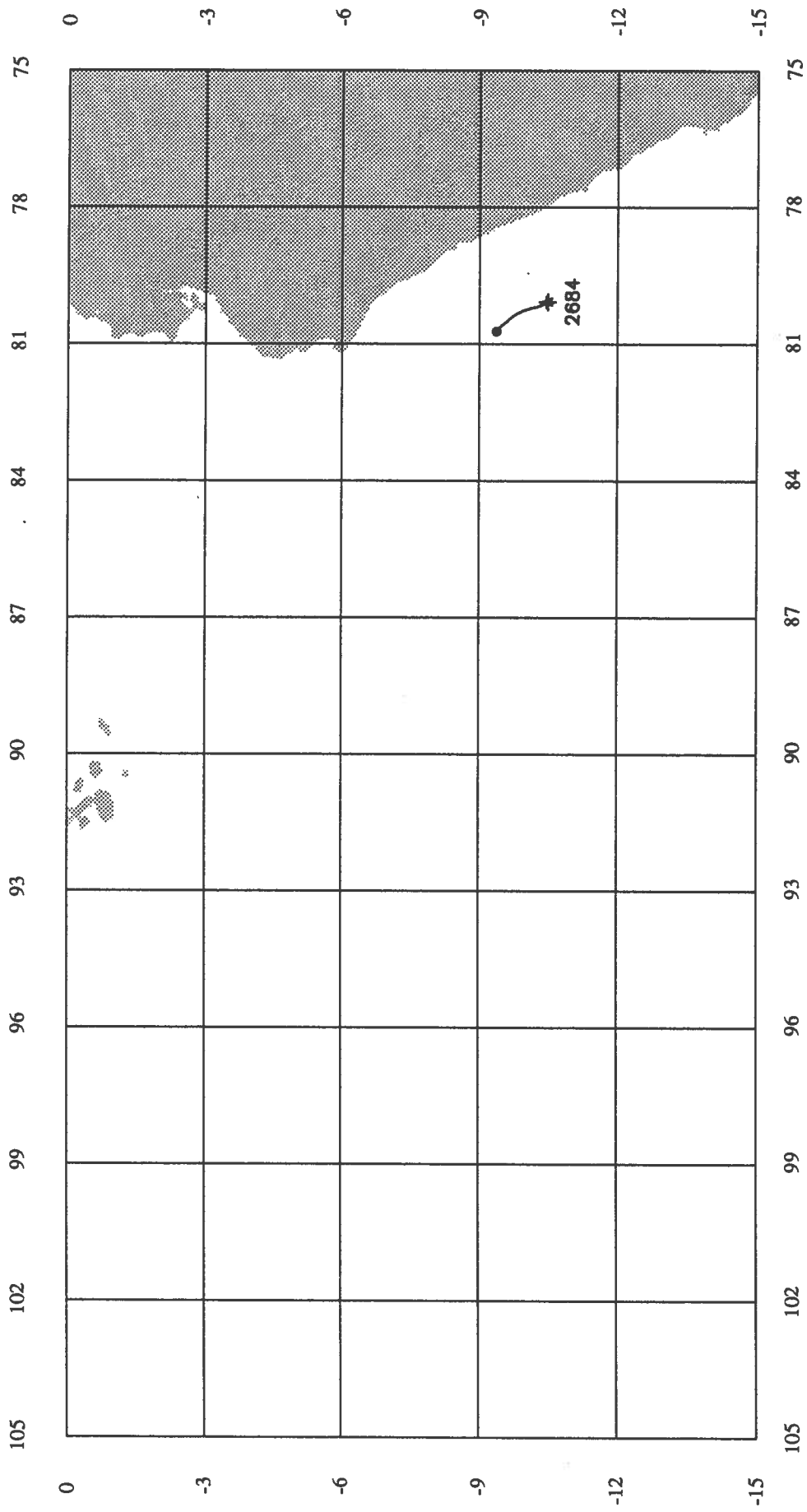
BUOY 2971



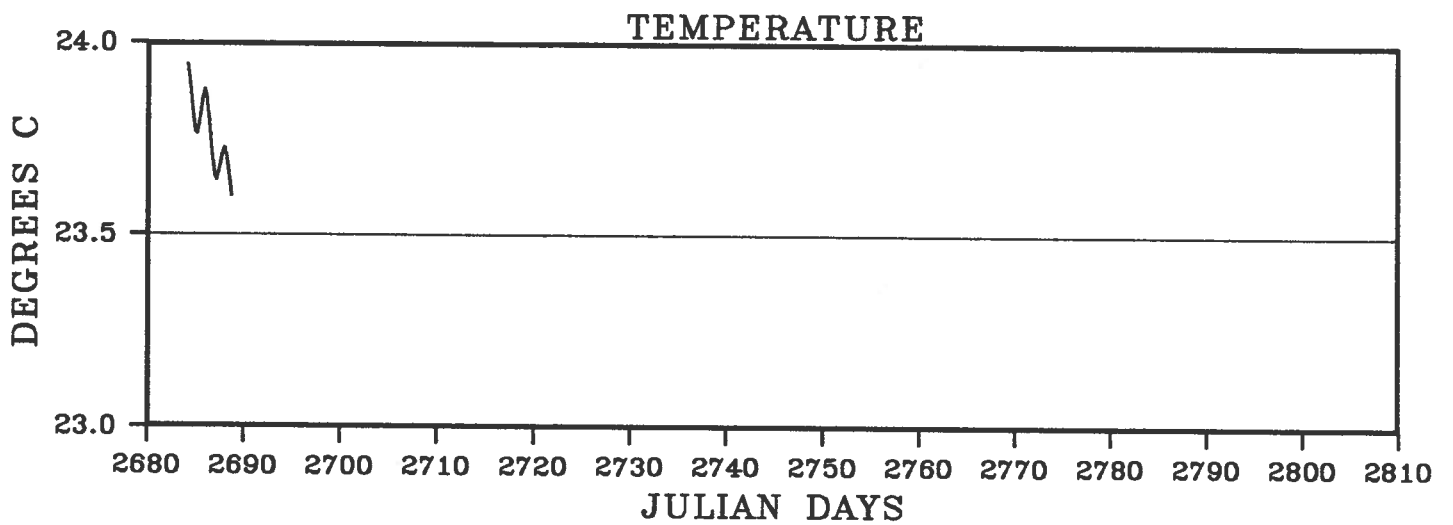
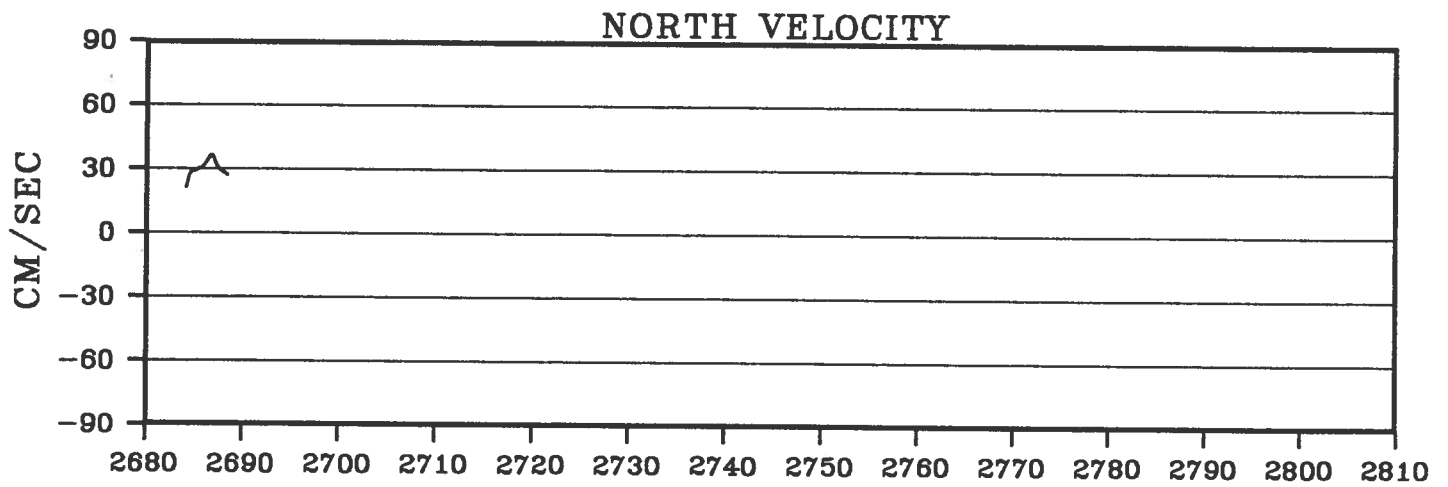
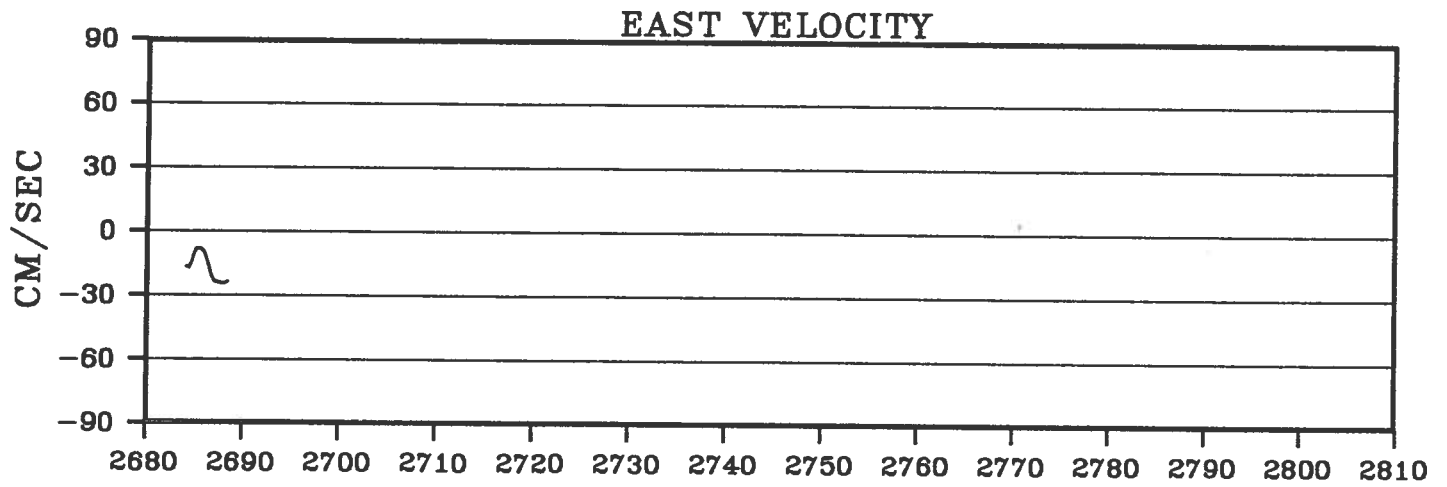
BUOY 2971



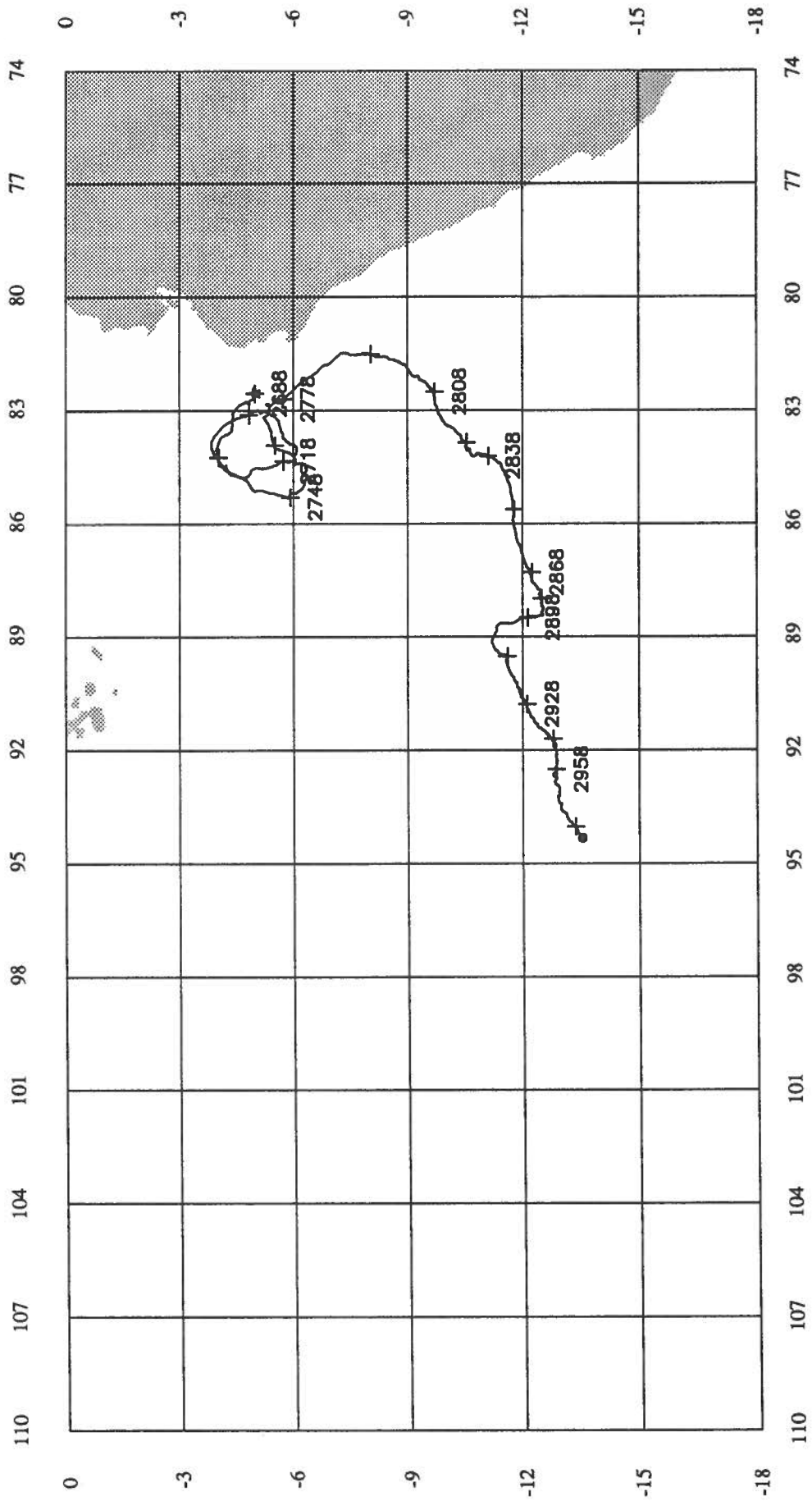
BUOY 2972



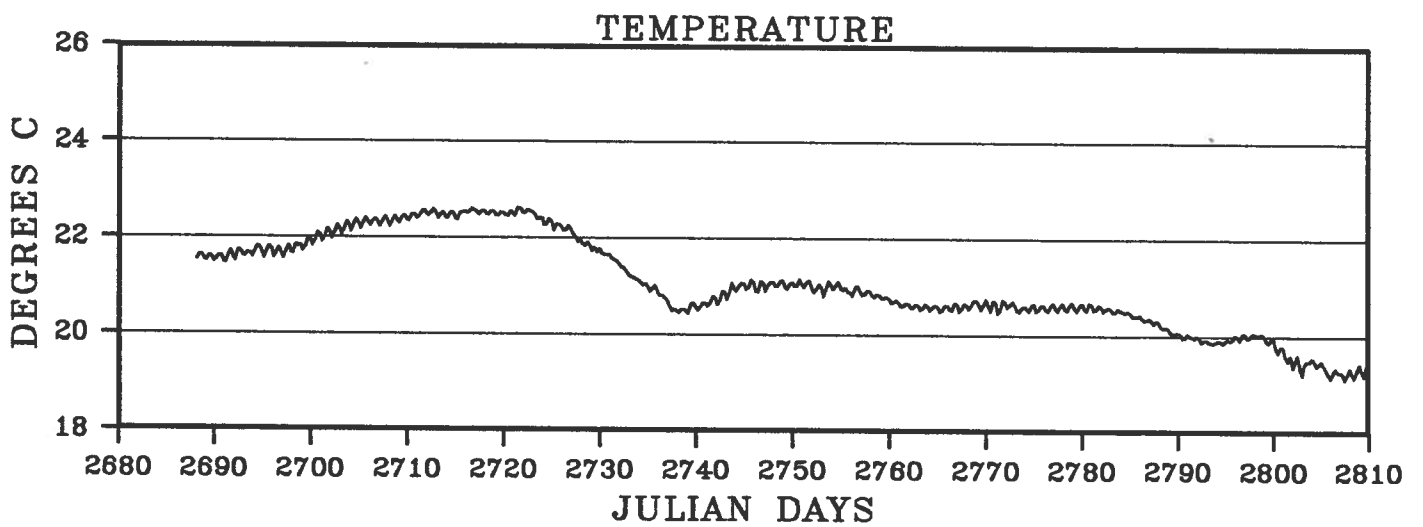
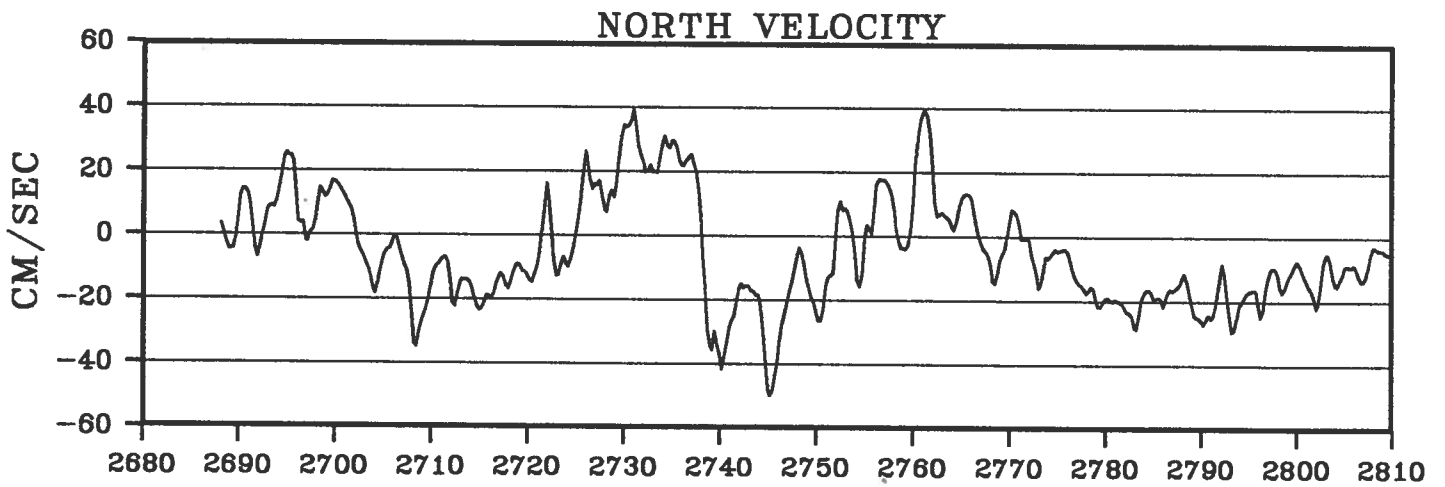
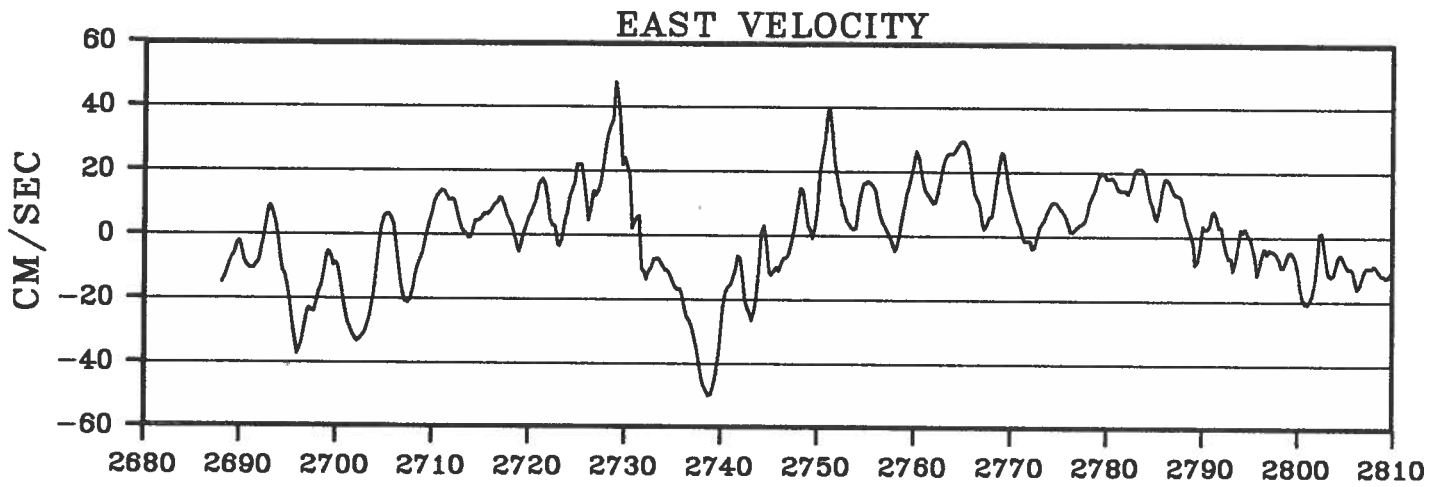
BUOY 2972



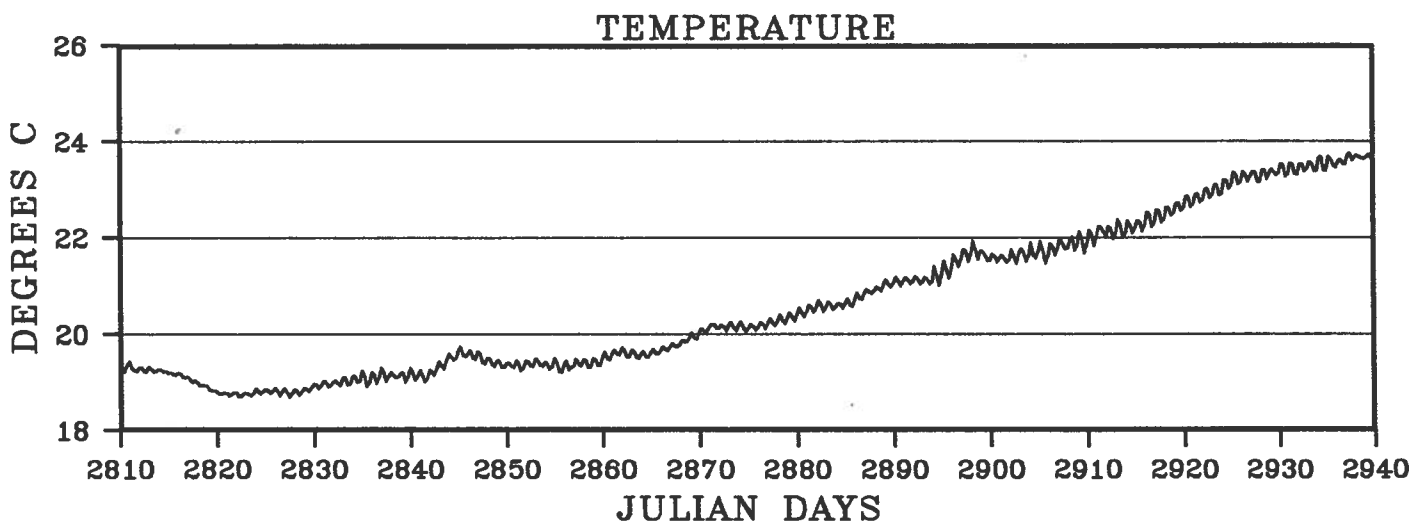
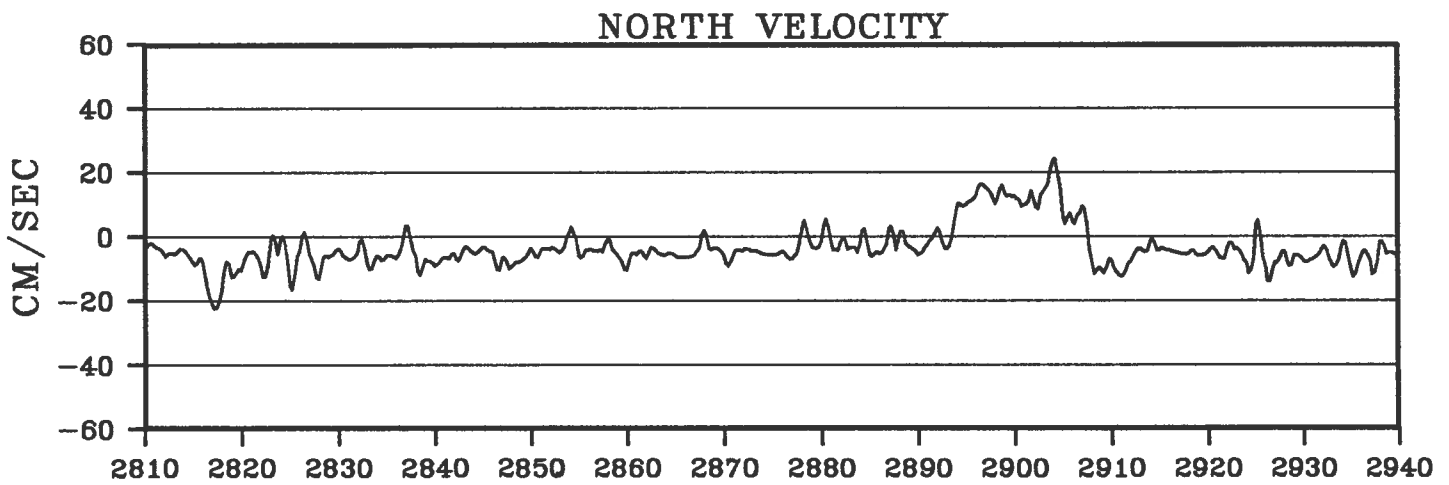
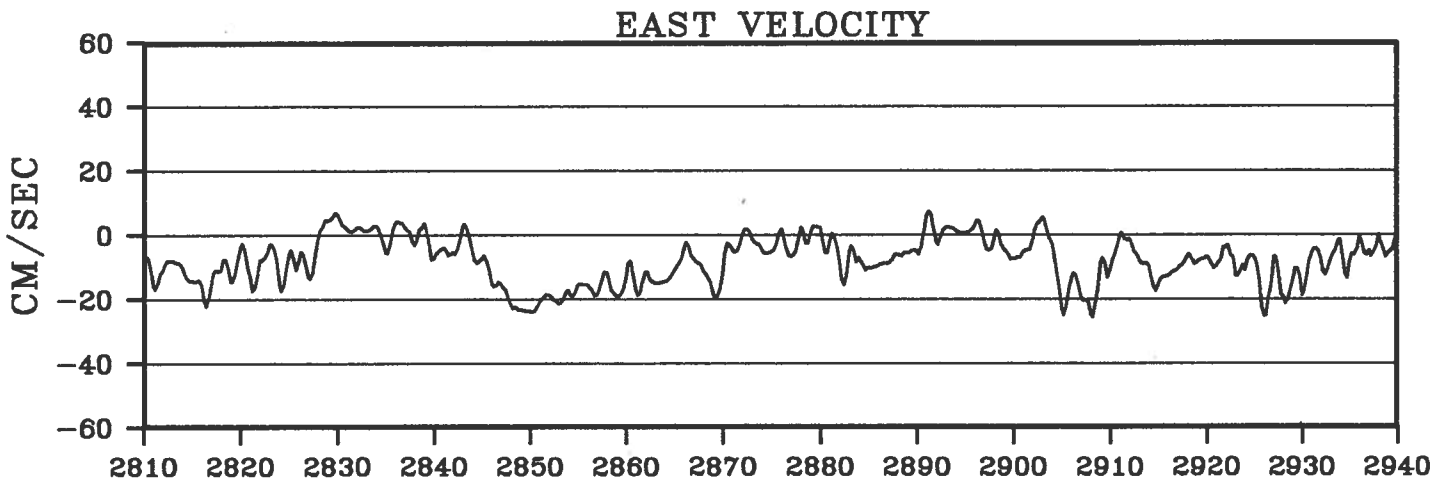
BUOY 2973



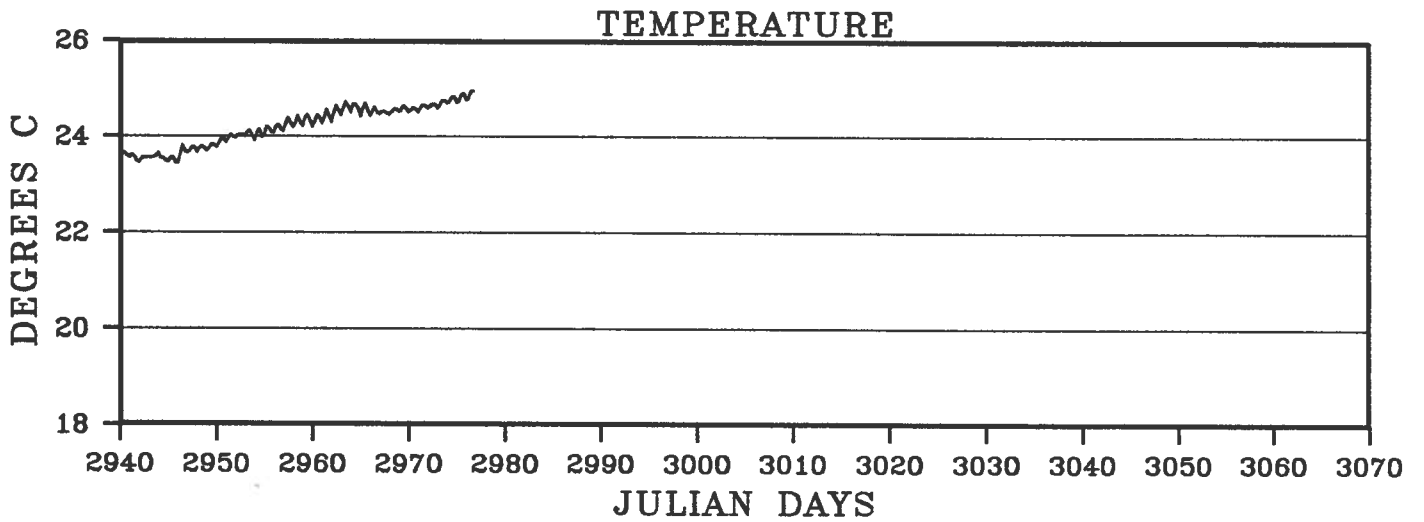
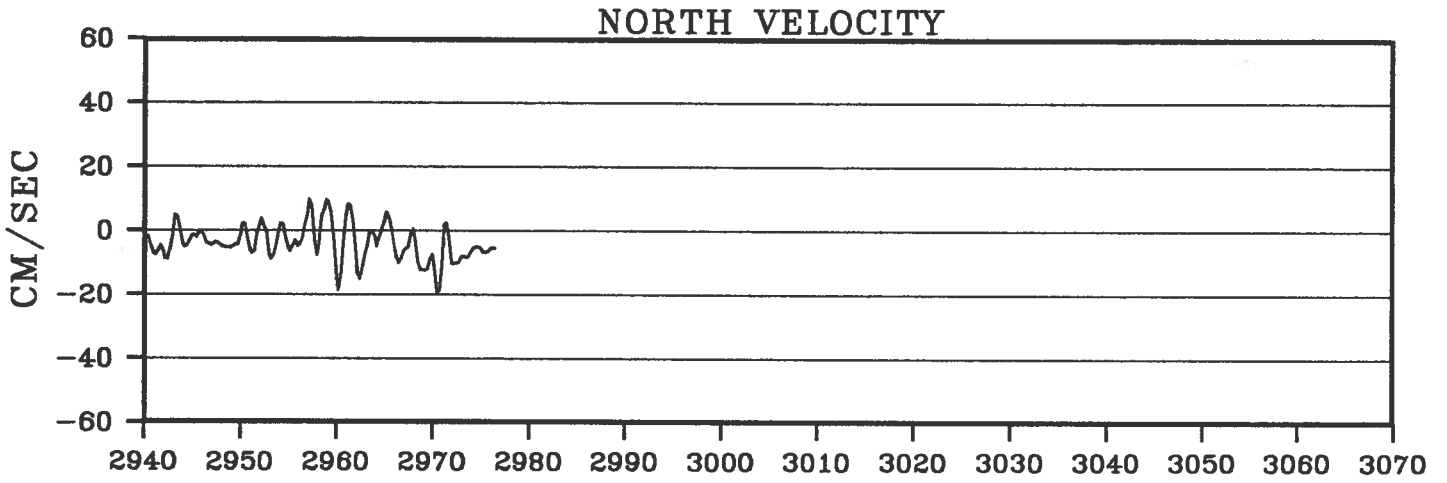
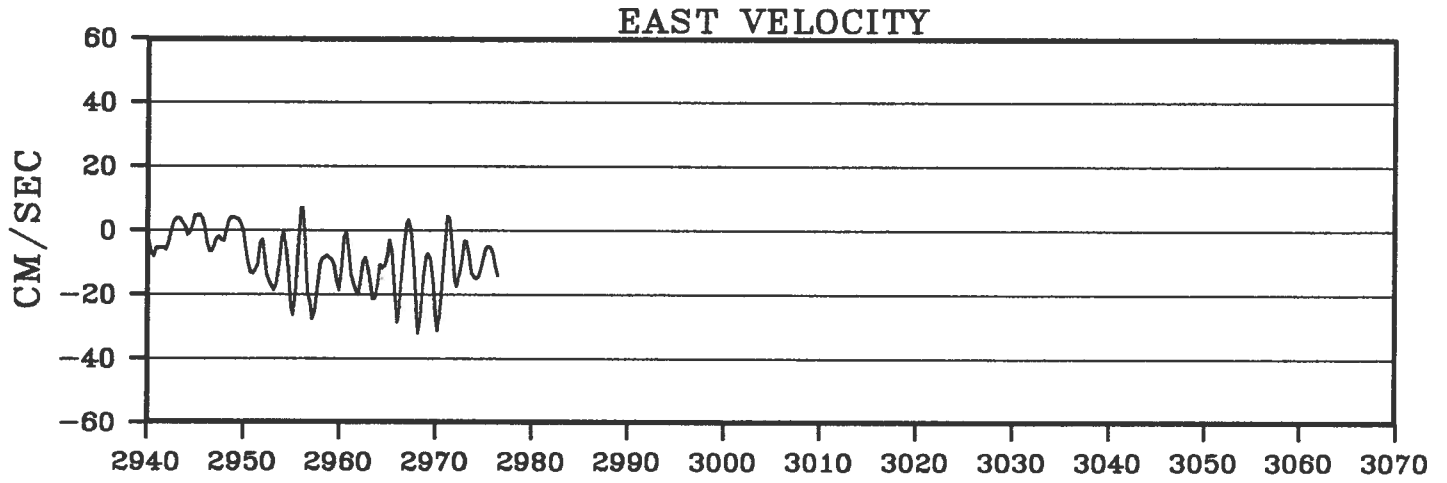
BUOY 2973



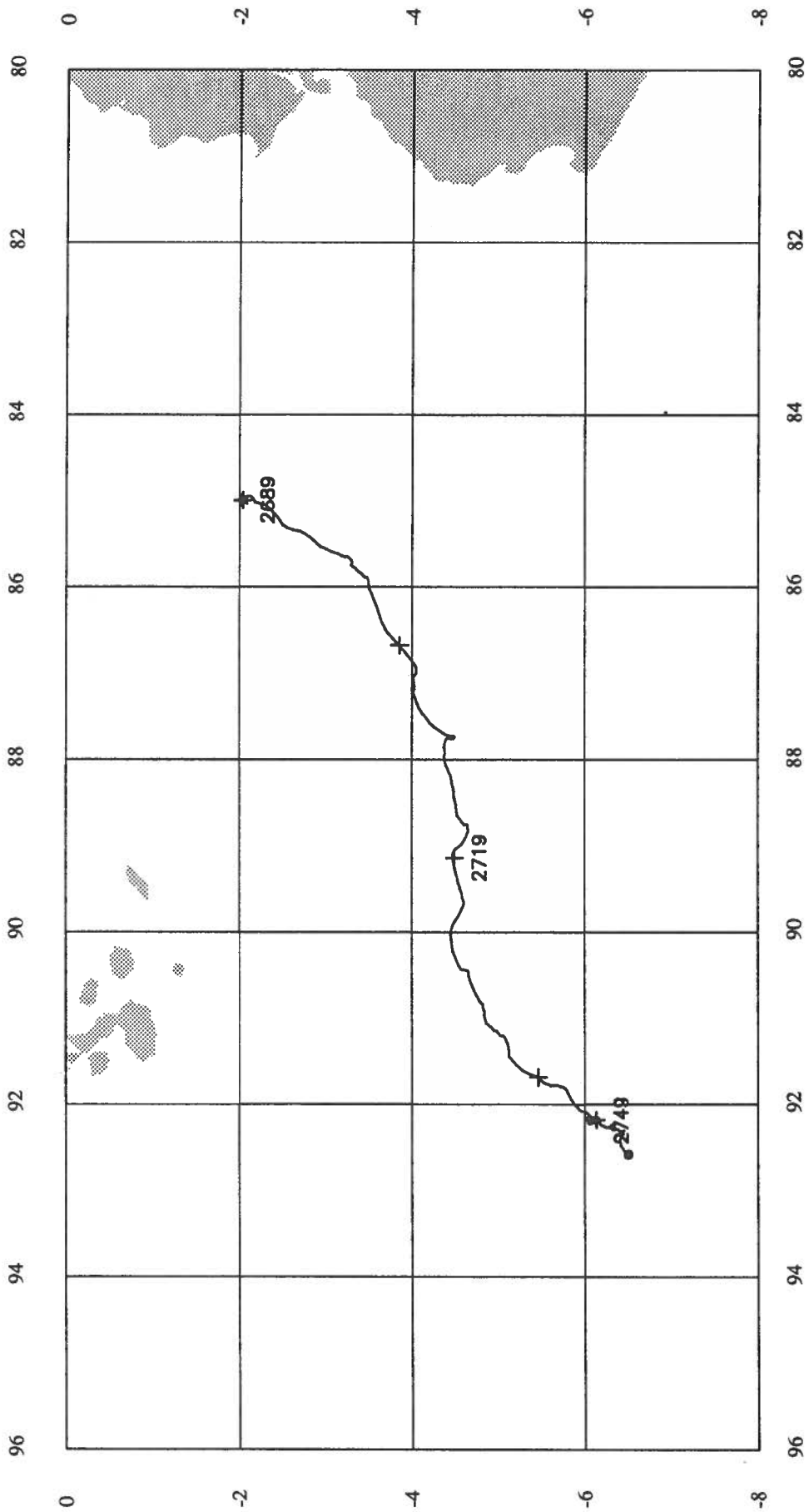
BUOY 2973



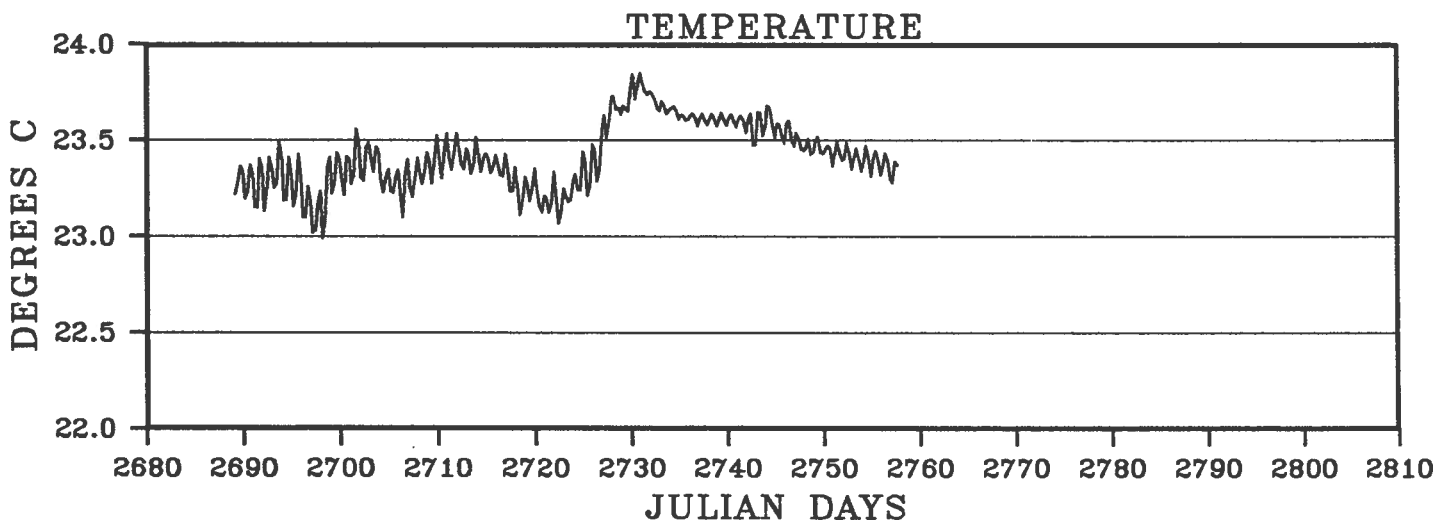
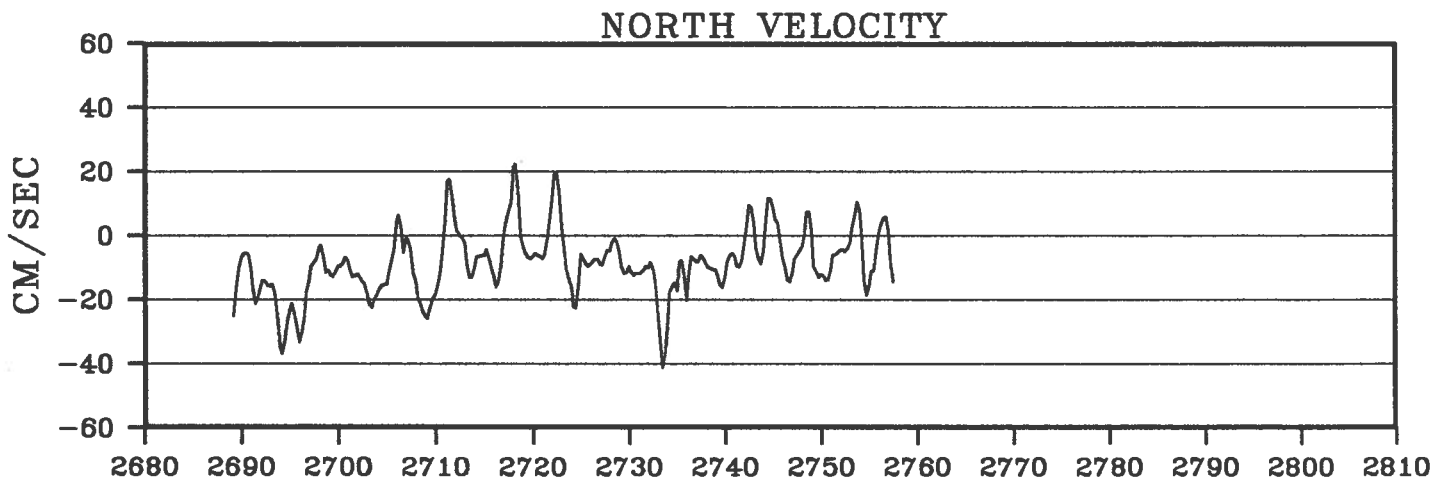
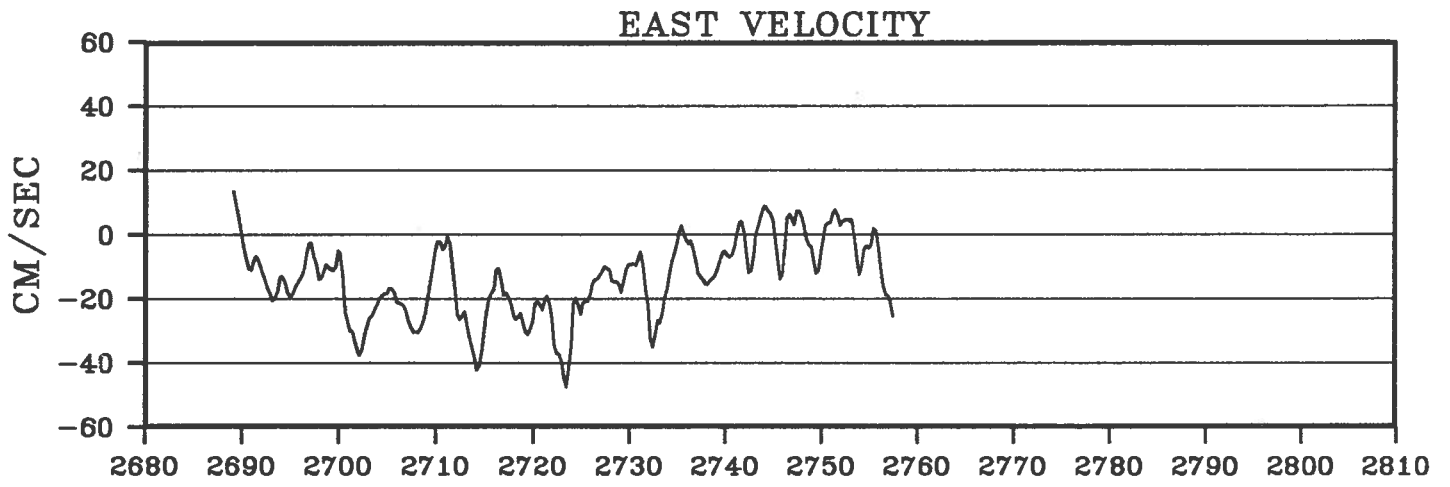
BUOY 2973



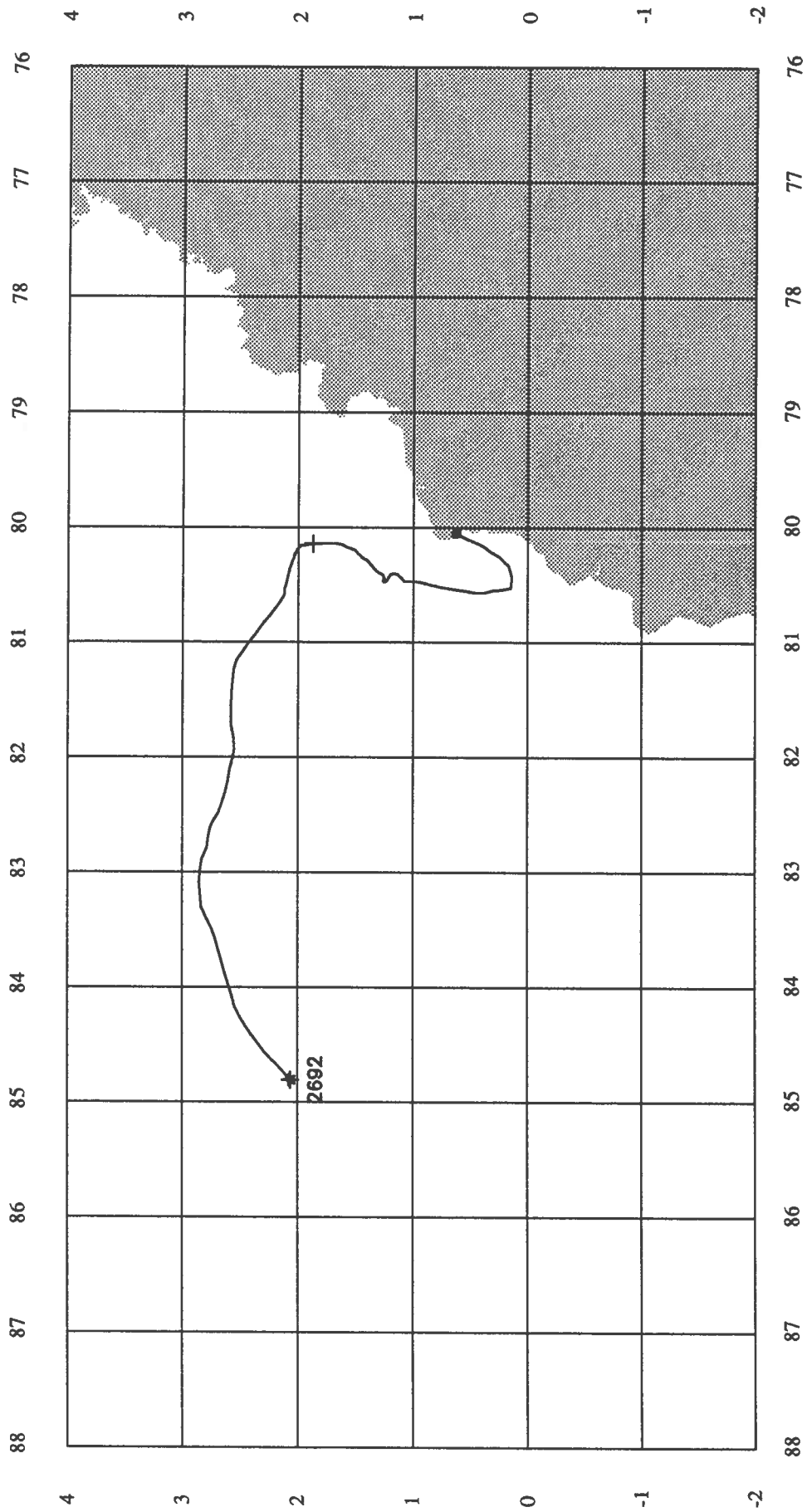
BUOY 2975



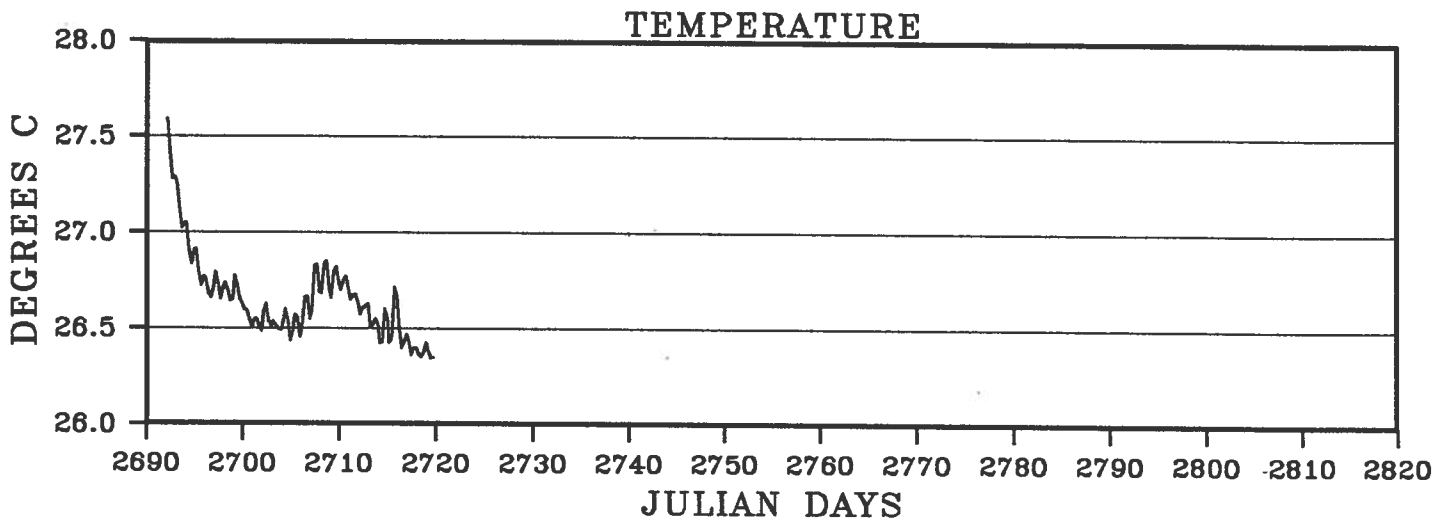
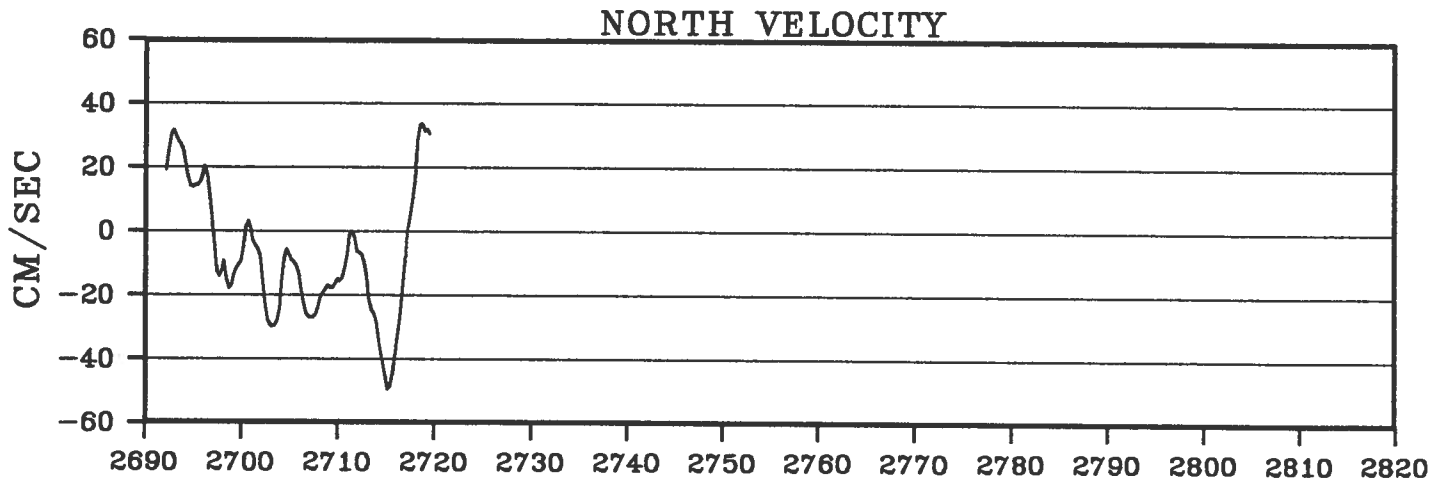
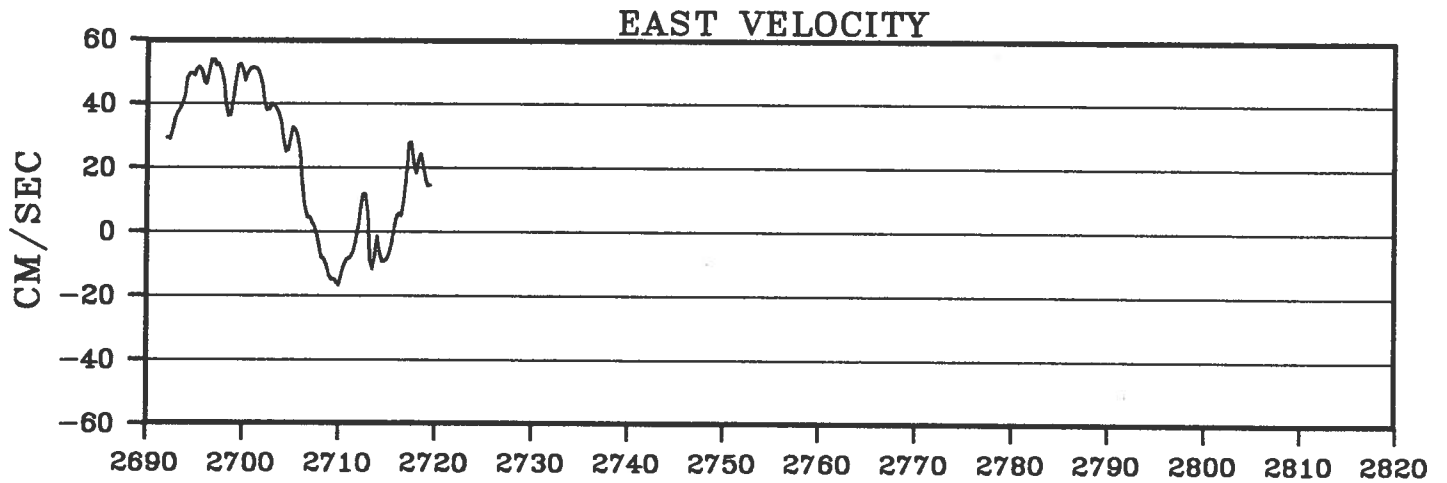
BUOY 2975



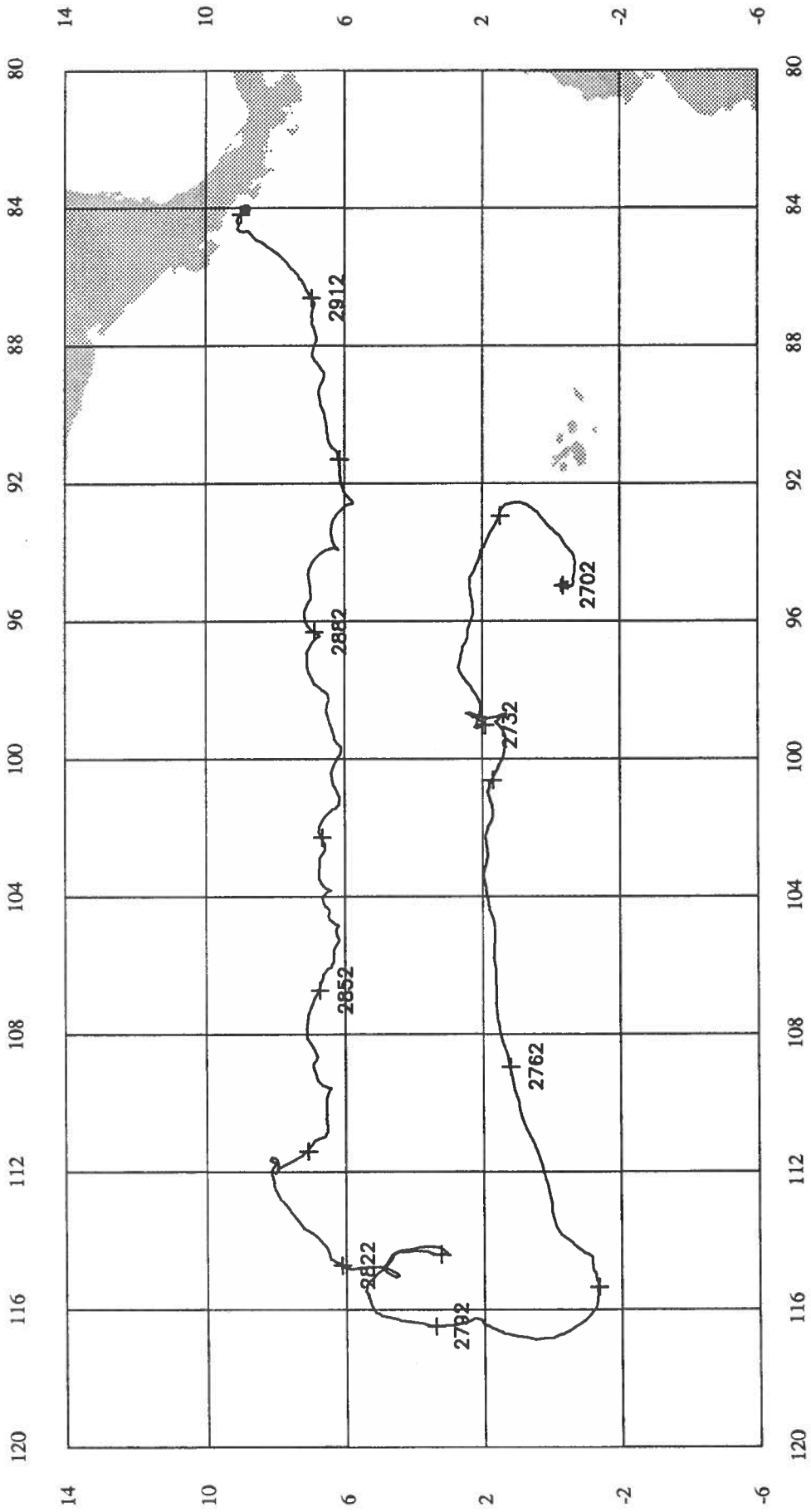
BUOY 2976



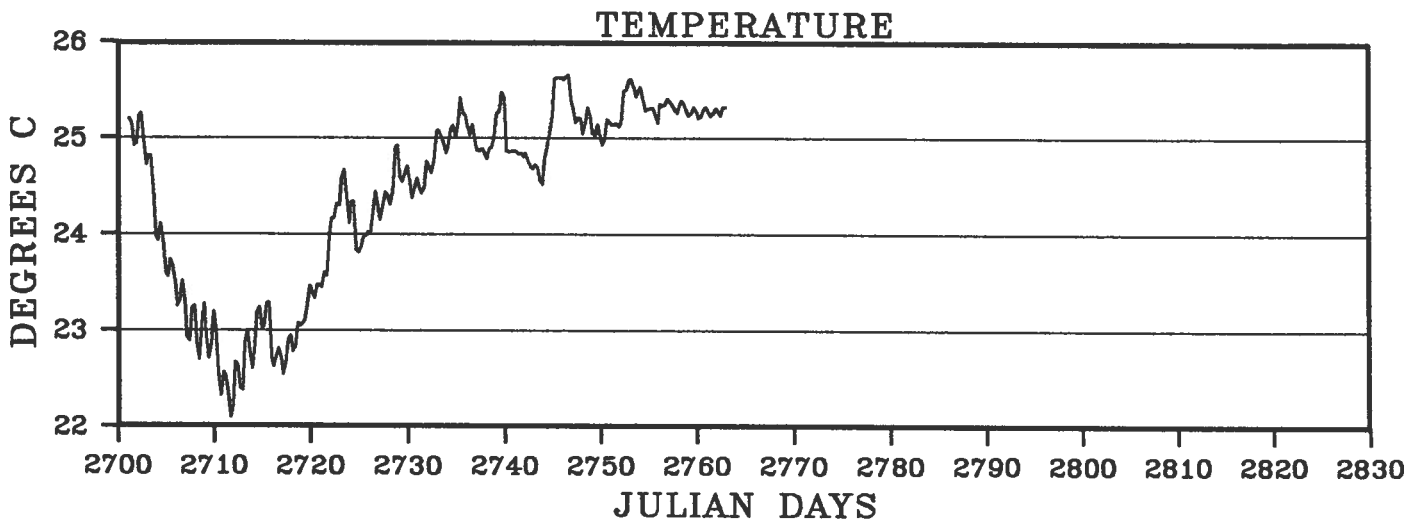
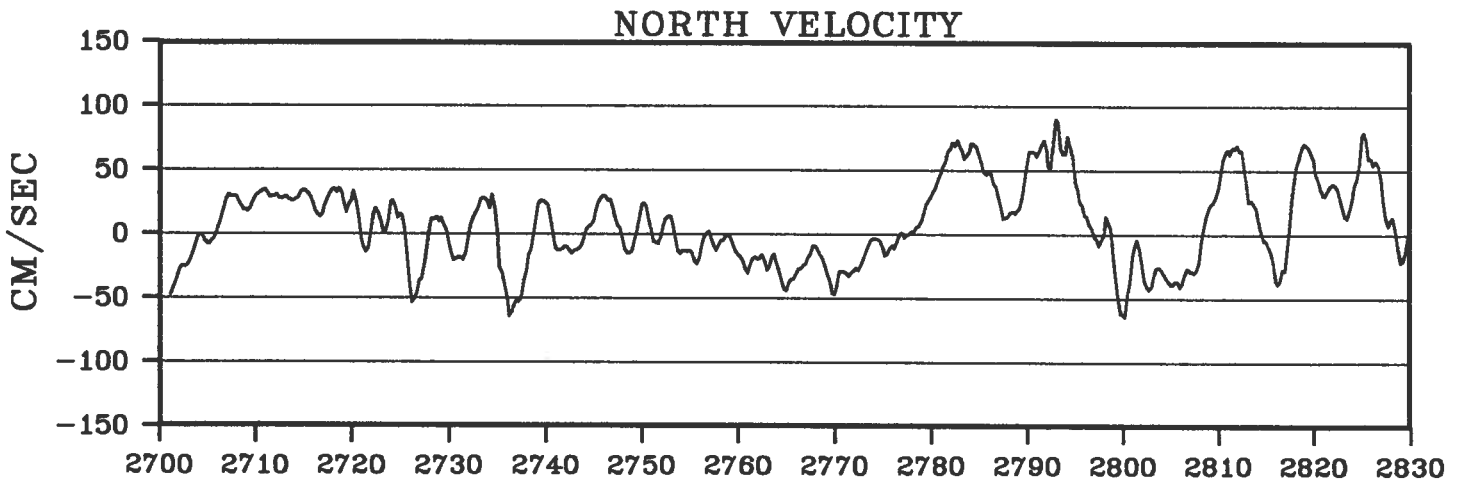
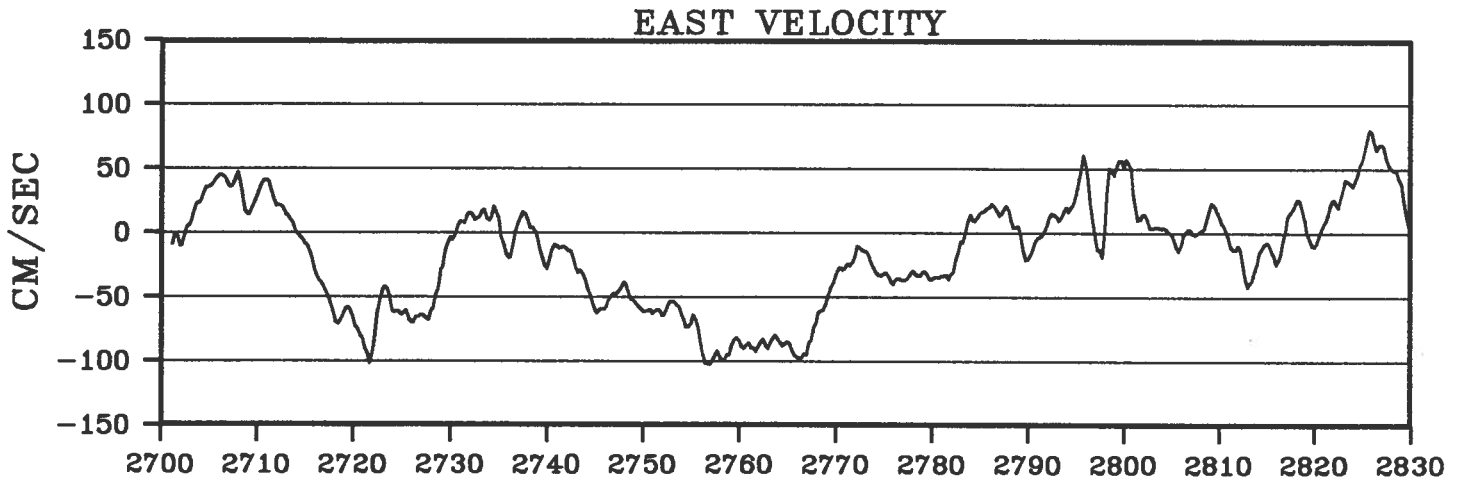
BUOY 2976



BUOY 2980

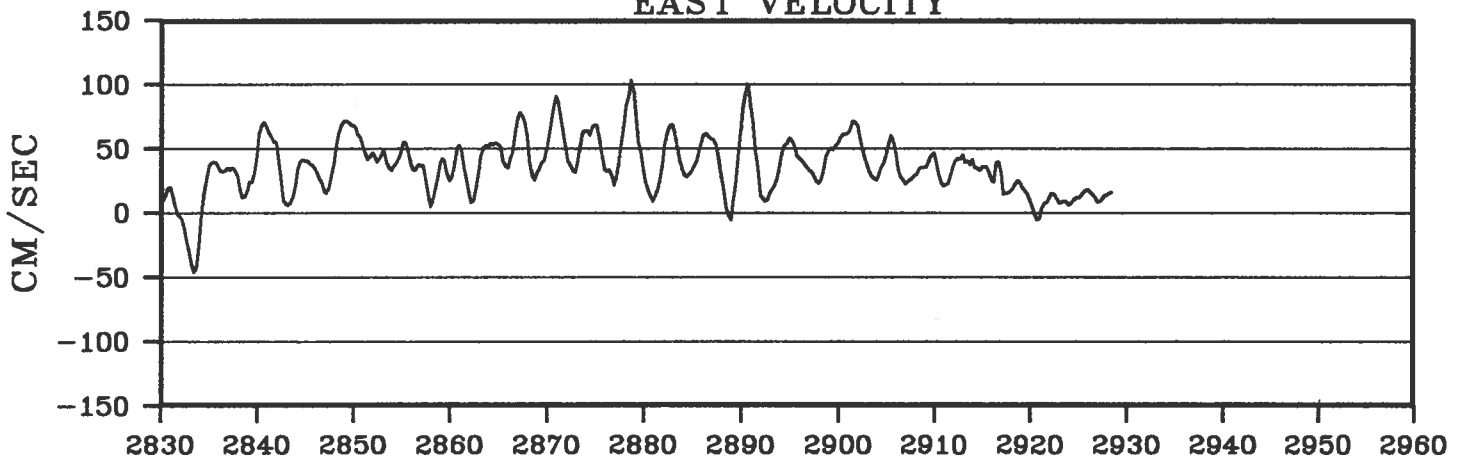


BUOY 2980

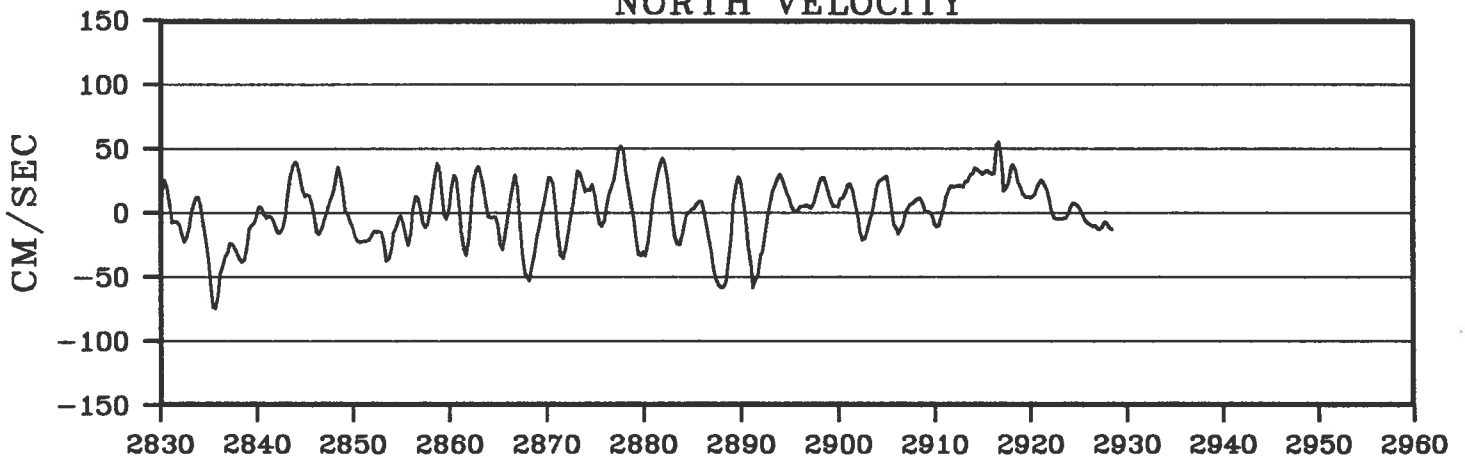


BUOY 2980

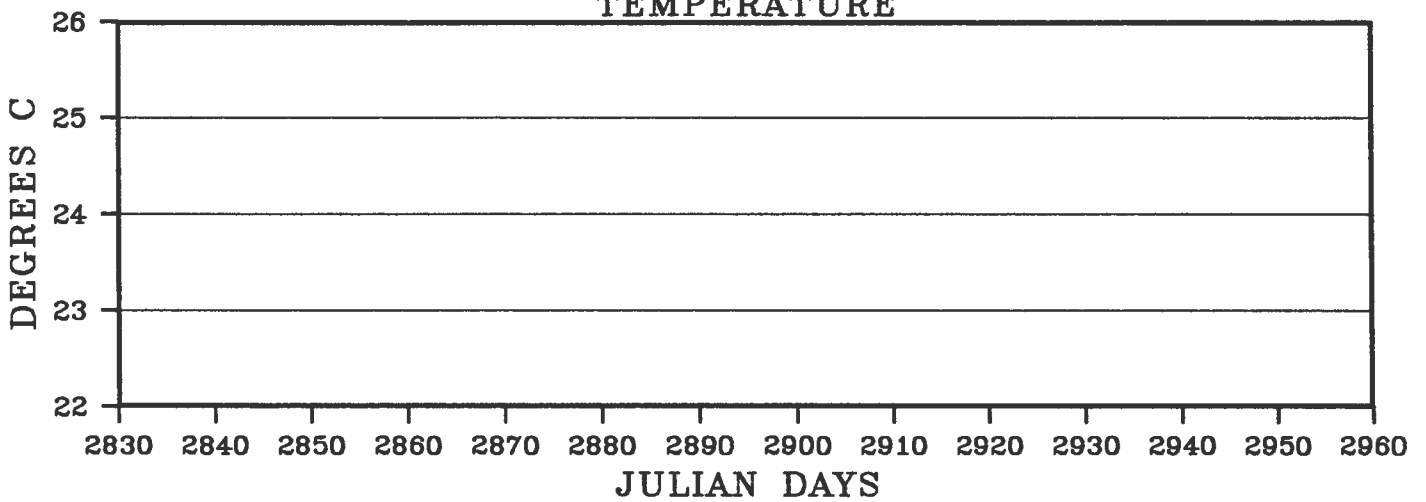
EAST VELOCITY



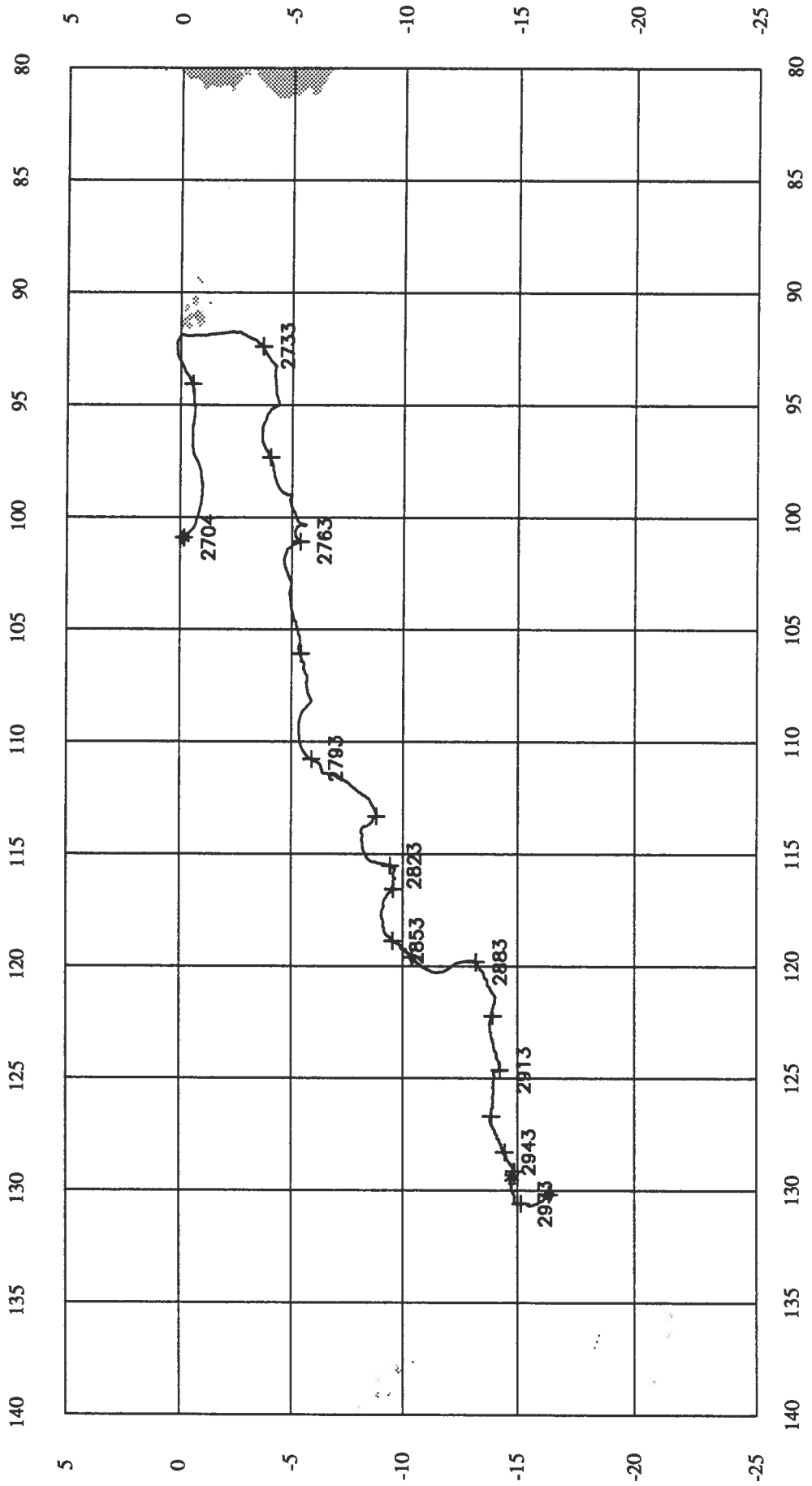
NORTH VELOCITY



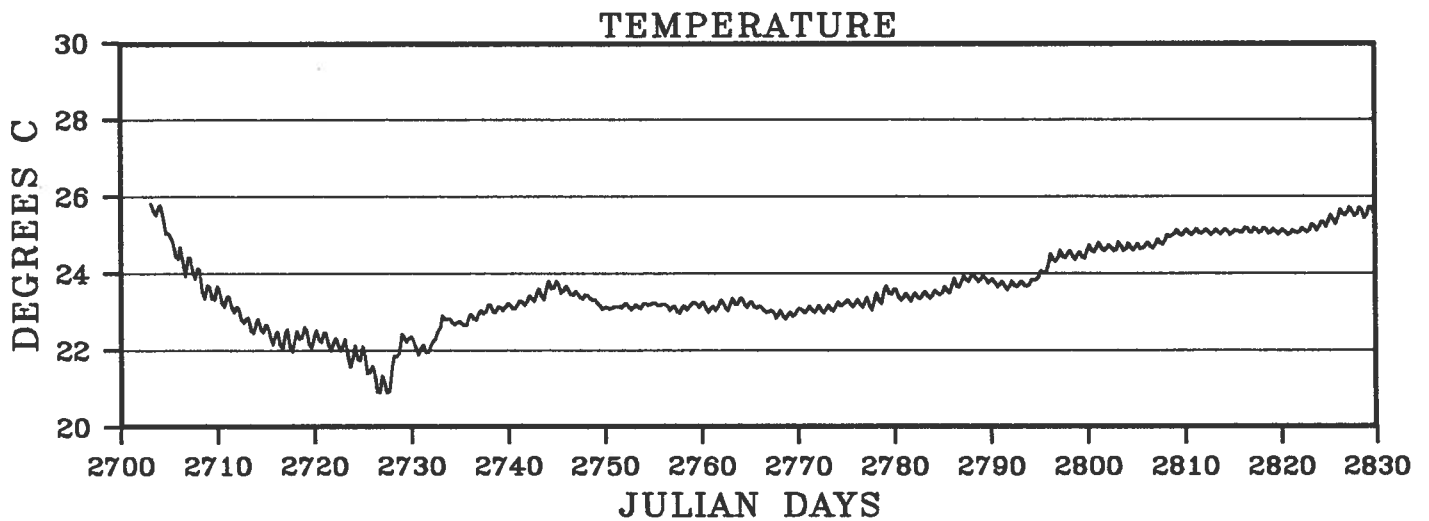
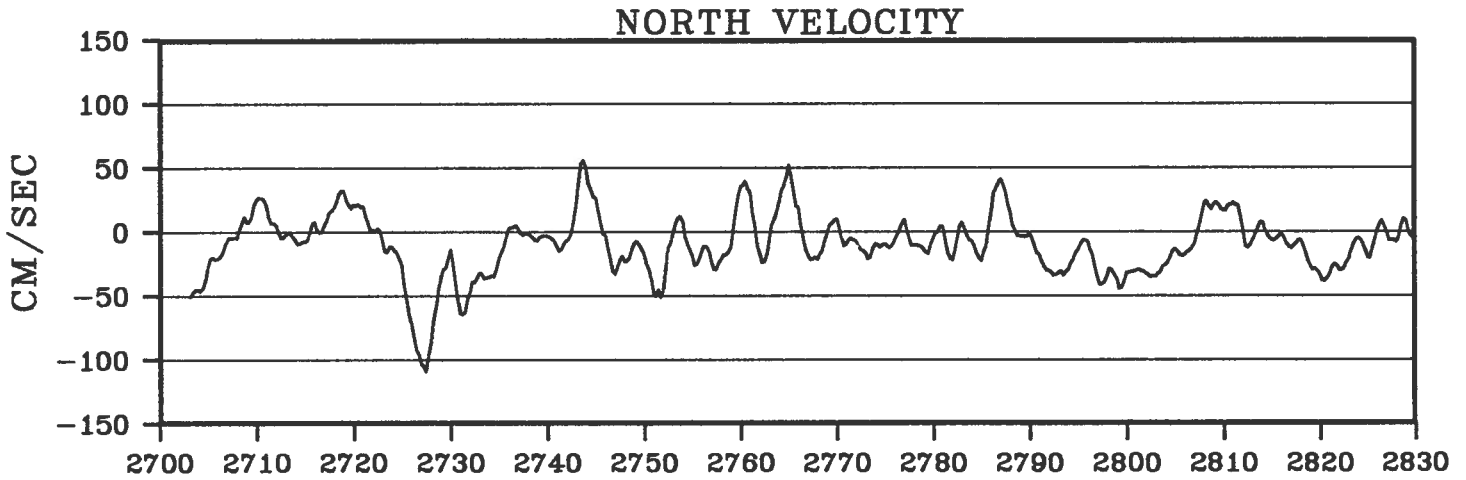
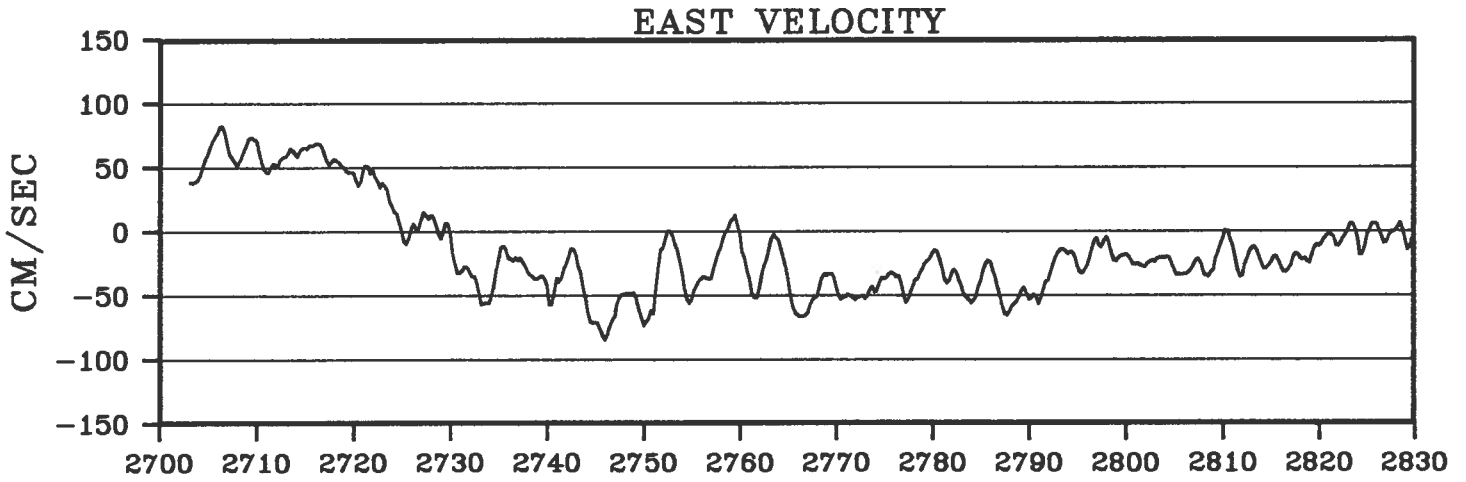
TEMPERATURE



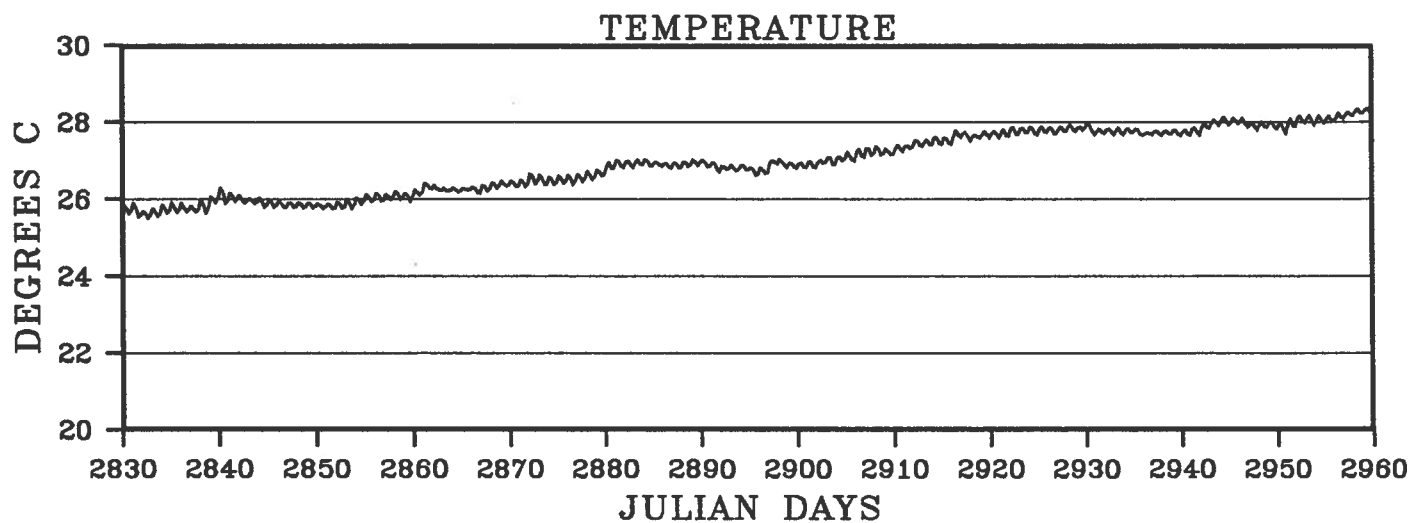
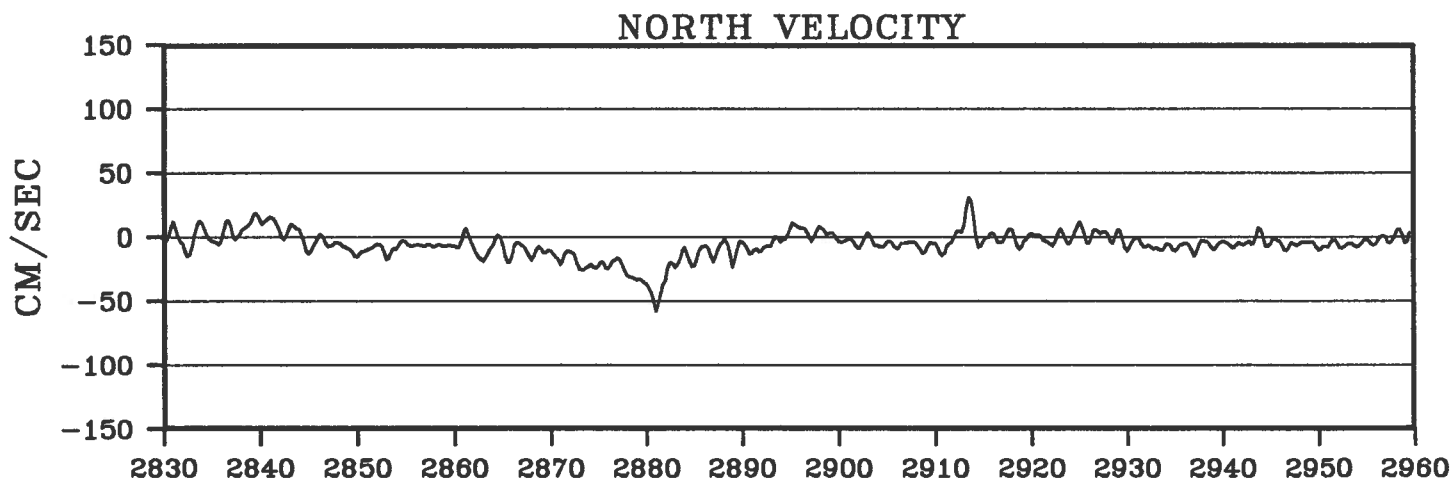
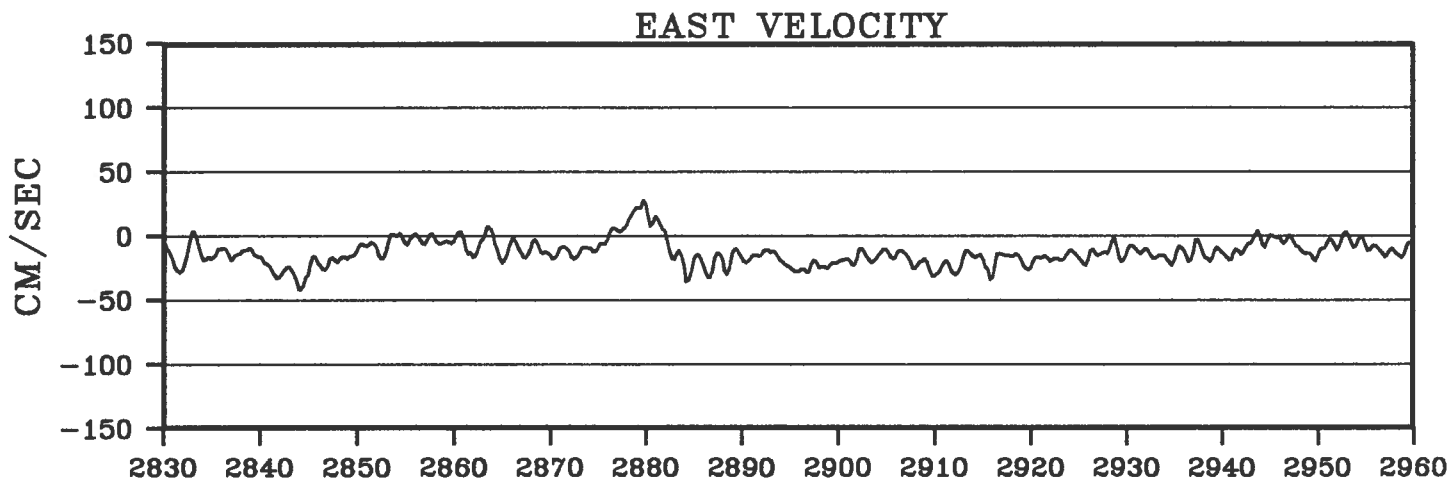
BUOY 2981



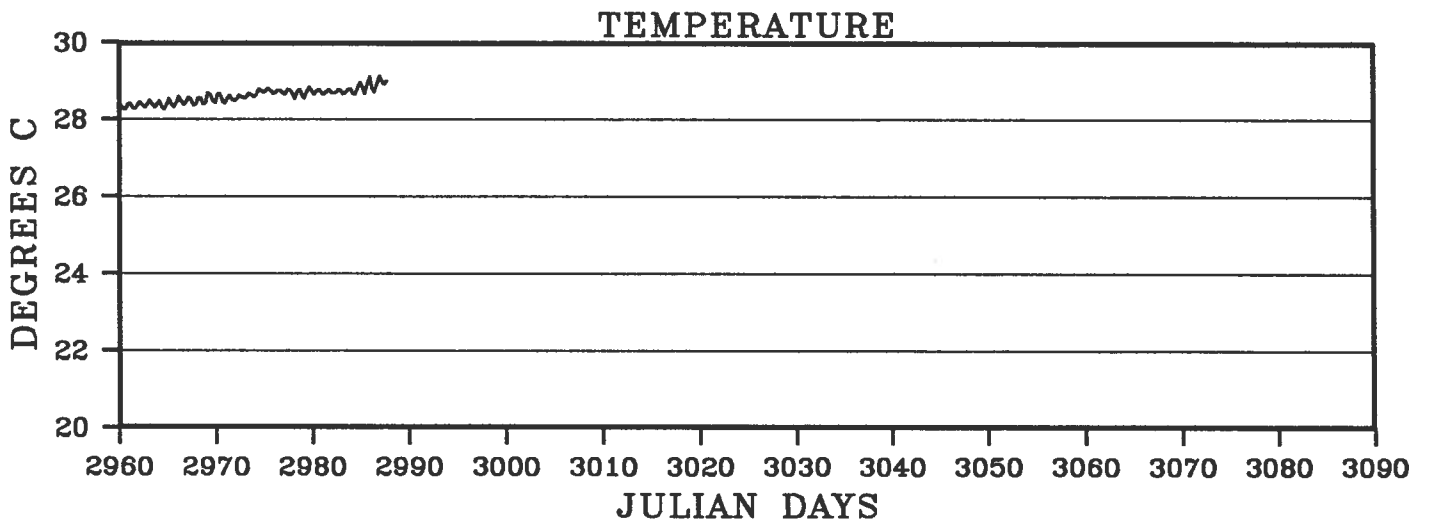
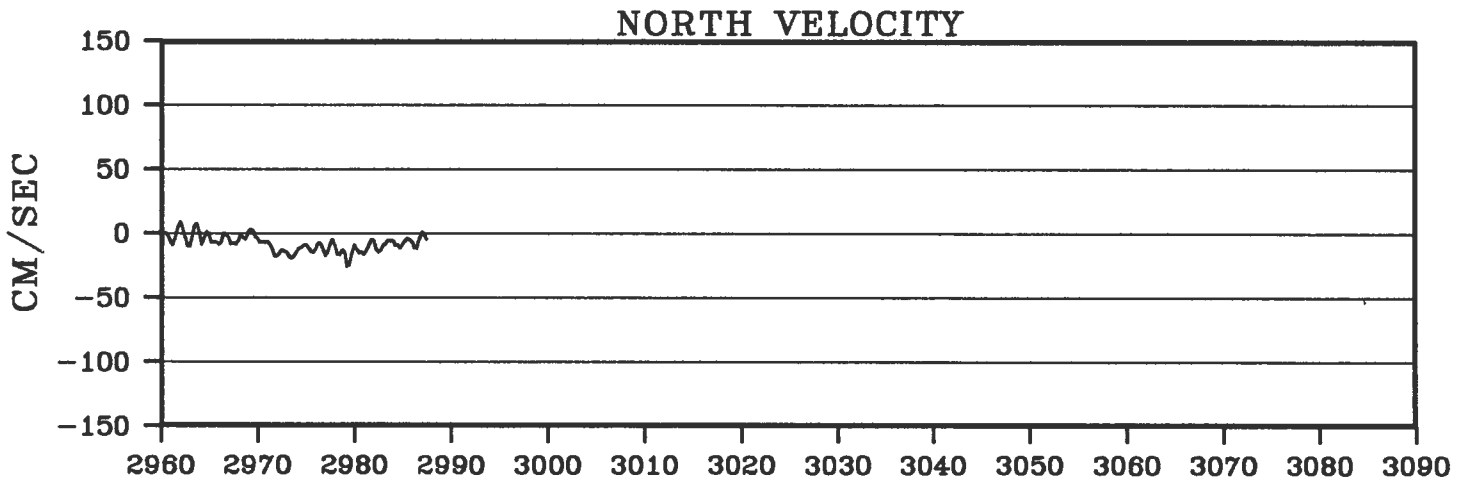
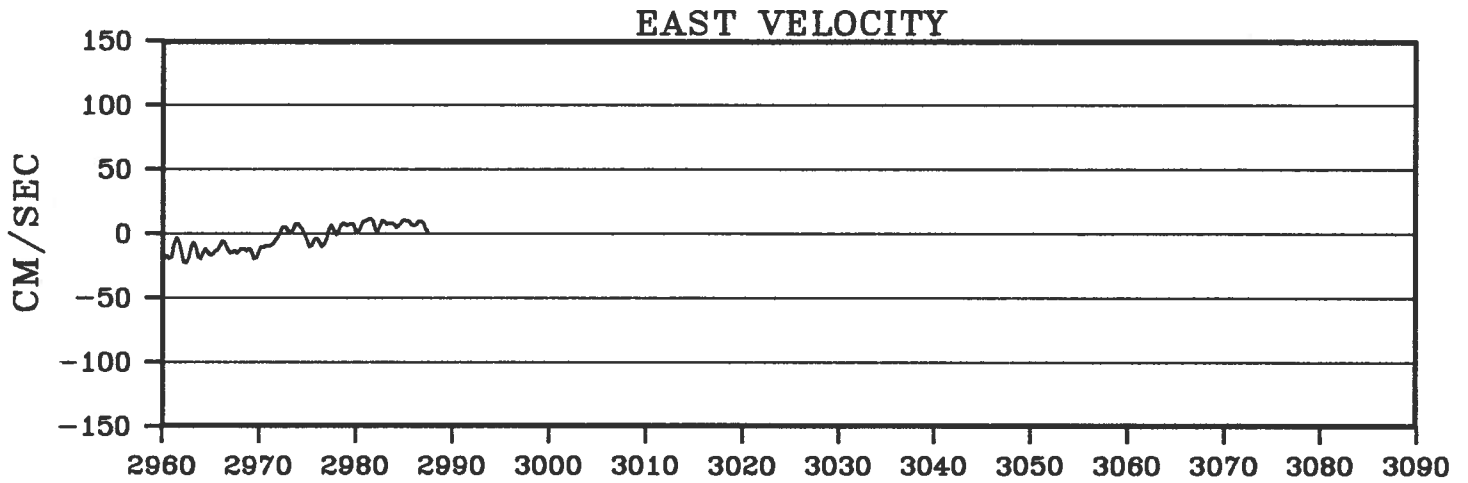
BUOY 2981



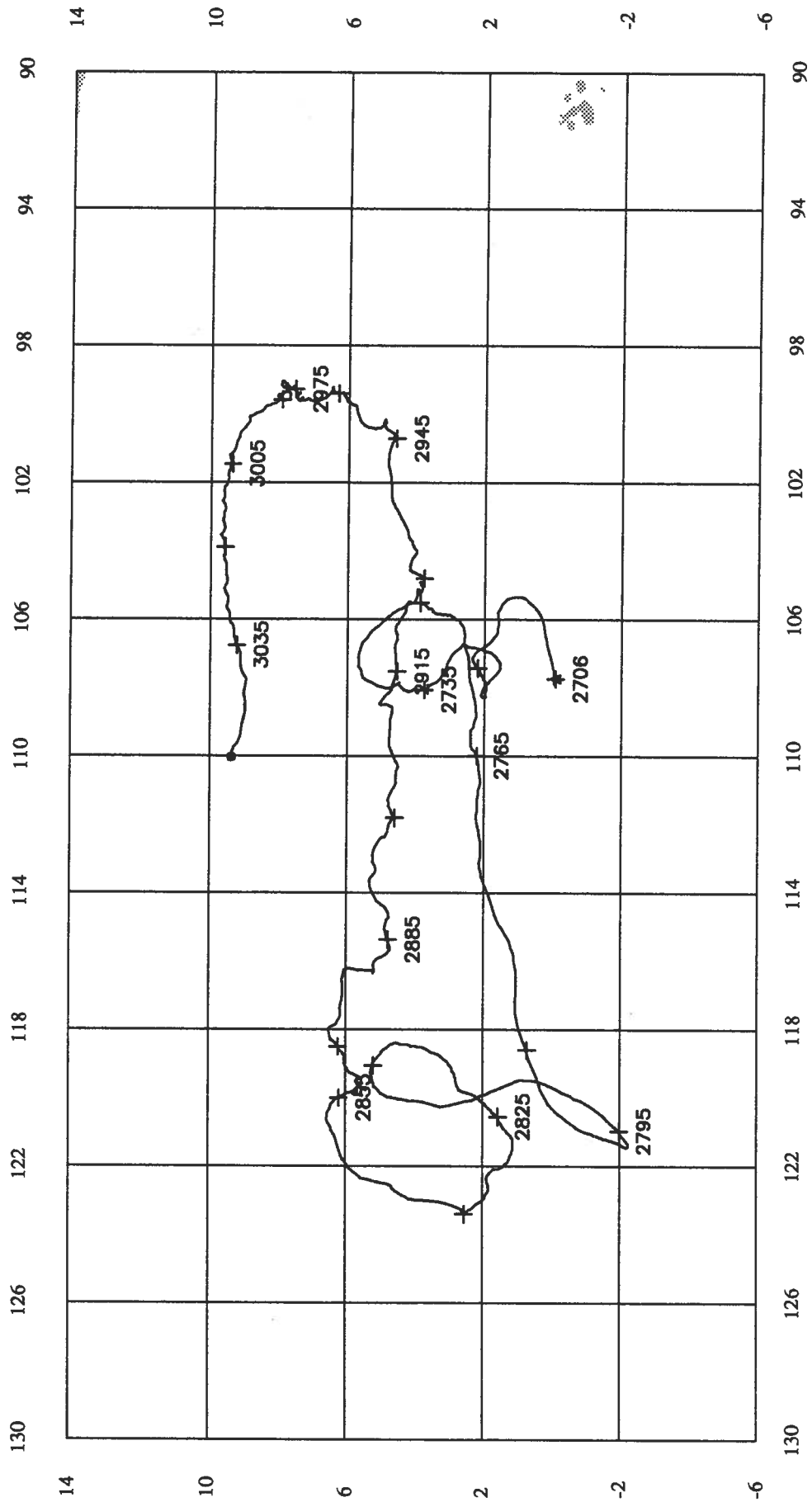
BUOY 2981



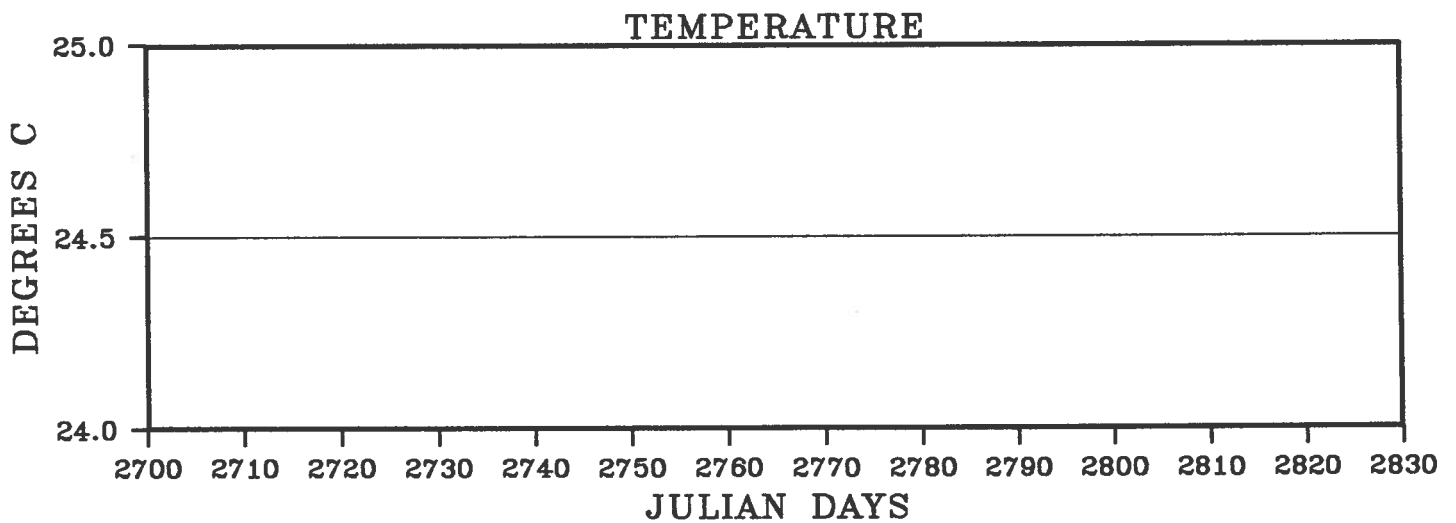
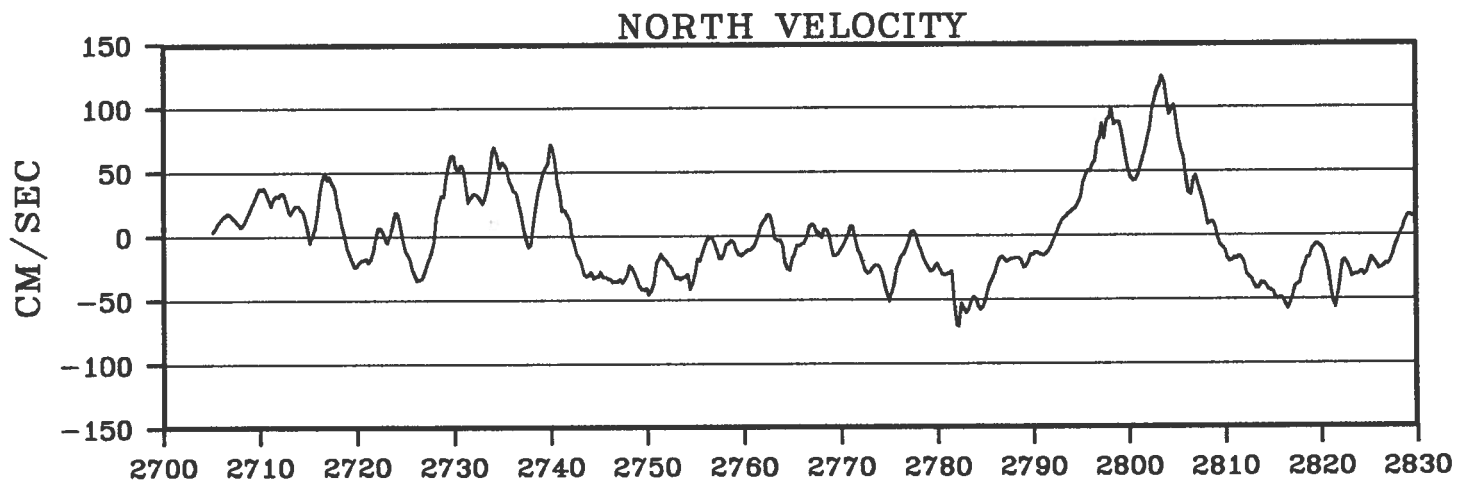
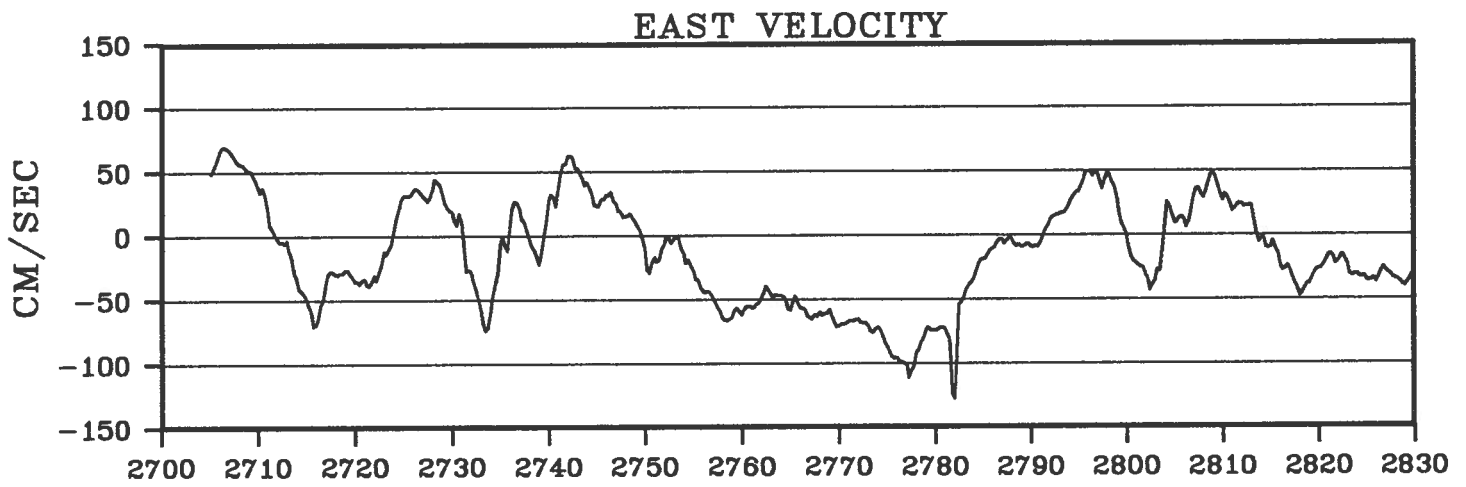
BUOY 2981



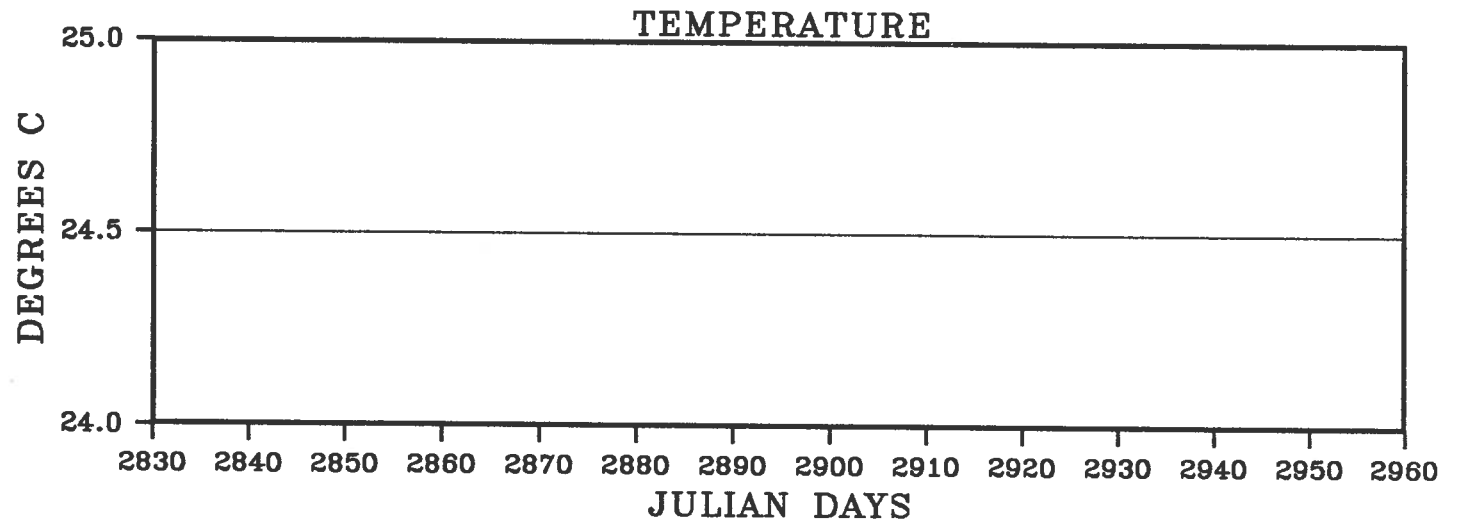
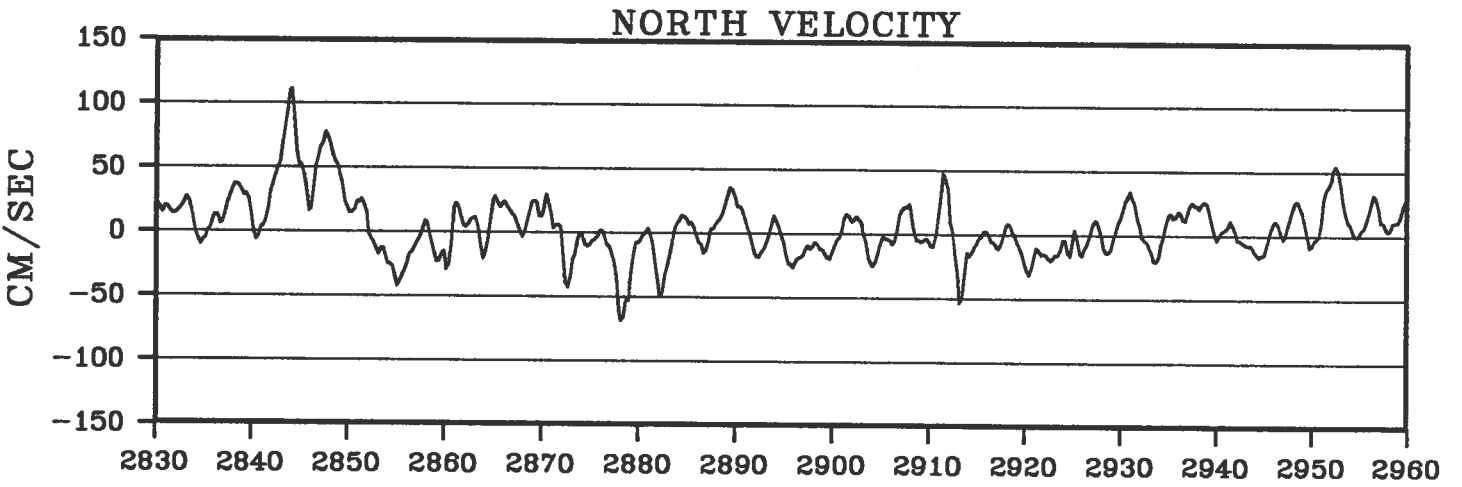
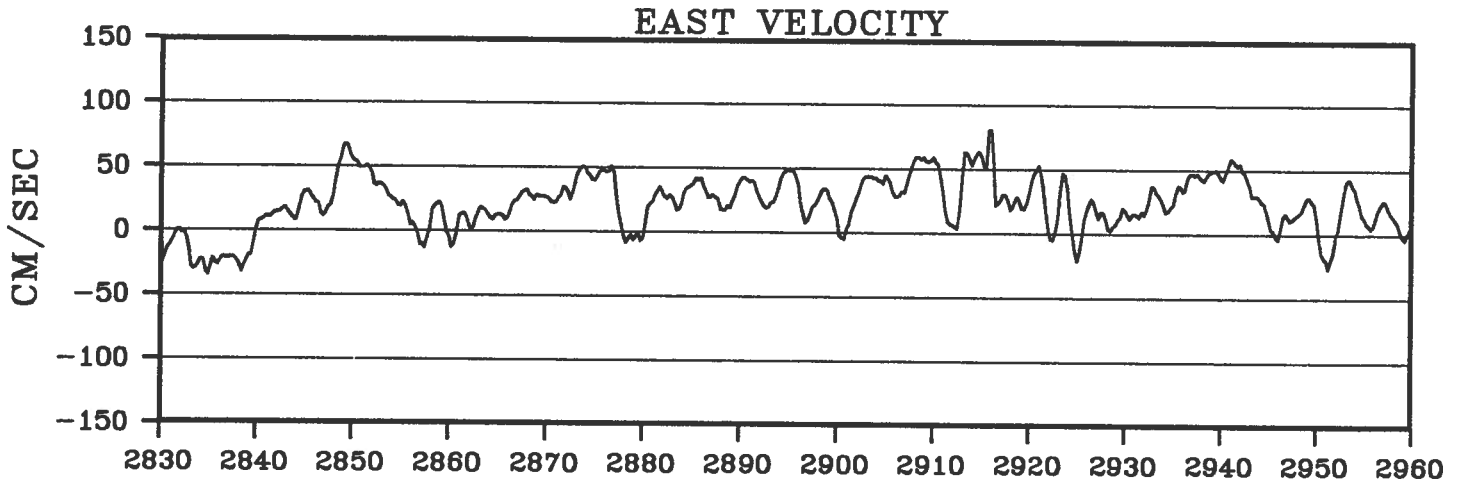
BUOY 2982



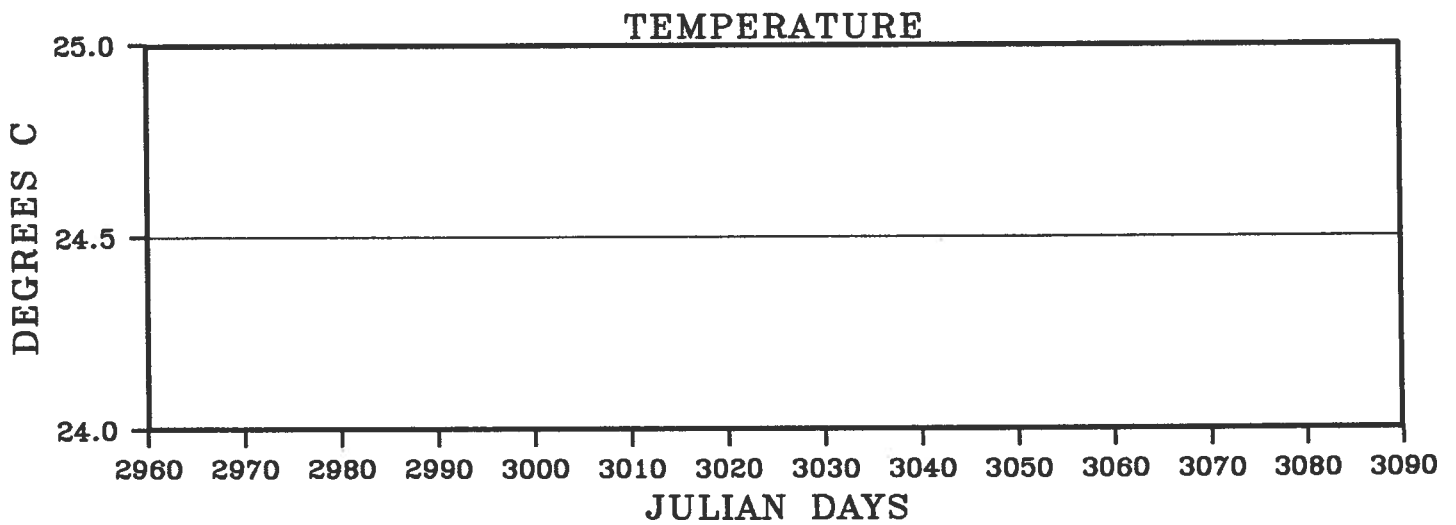
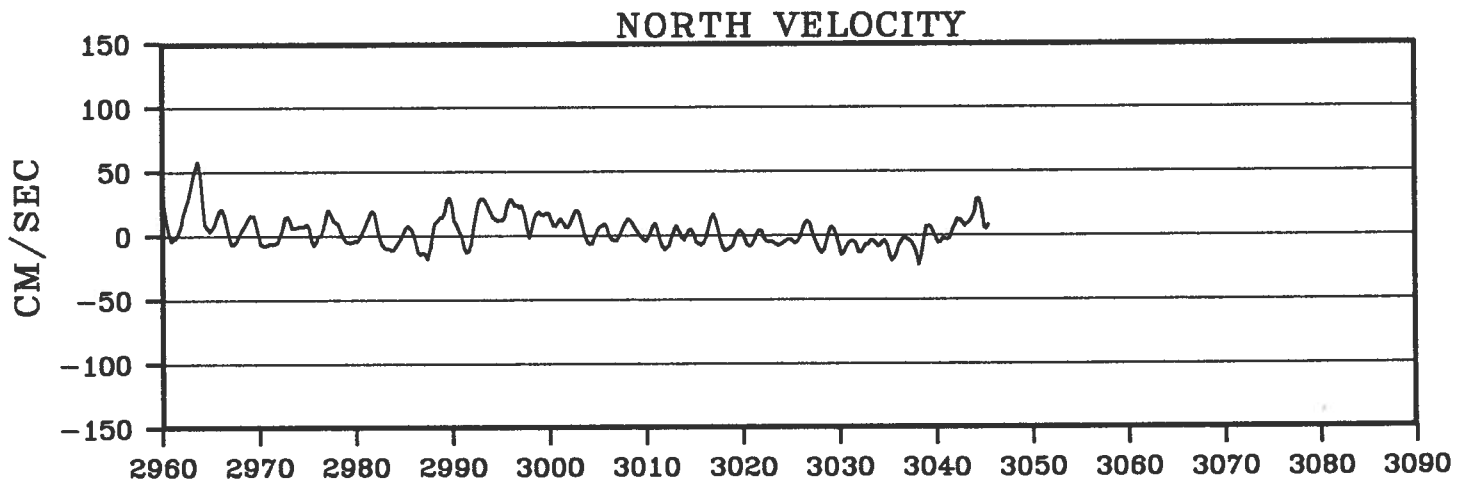
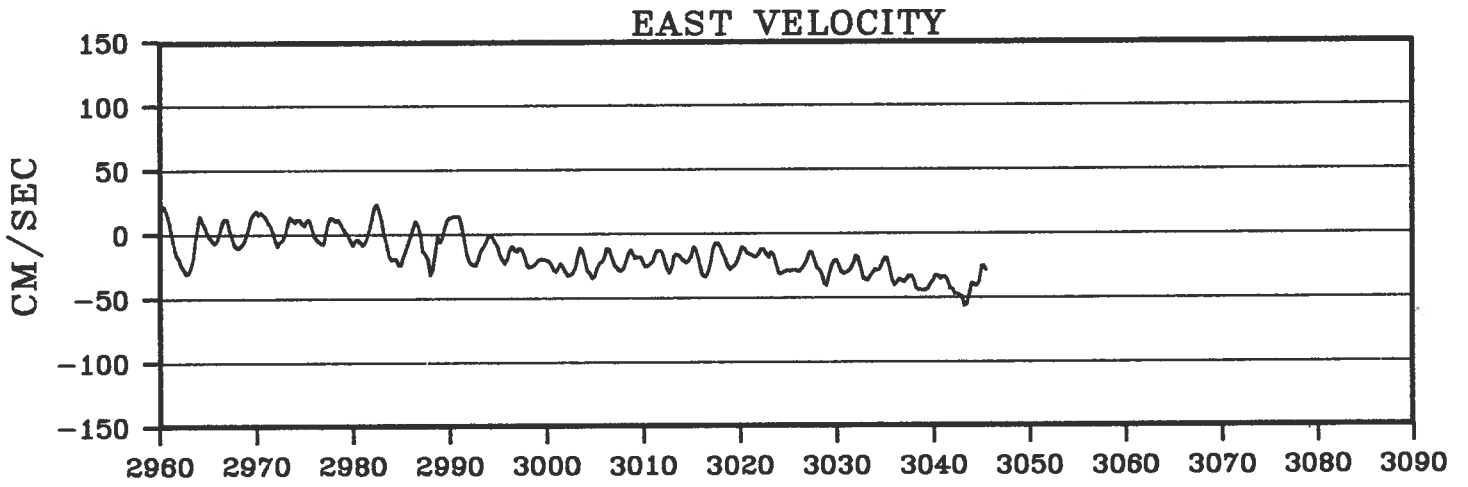
BUOY 2982



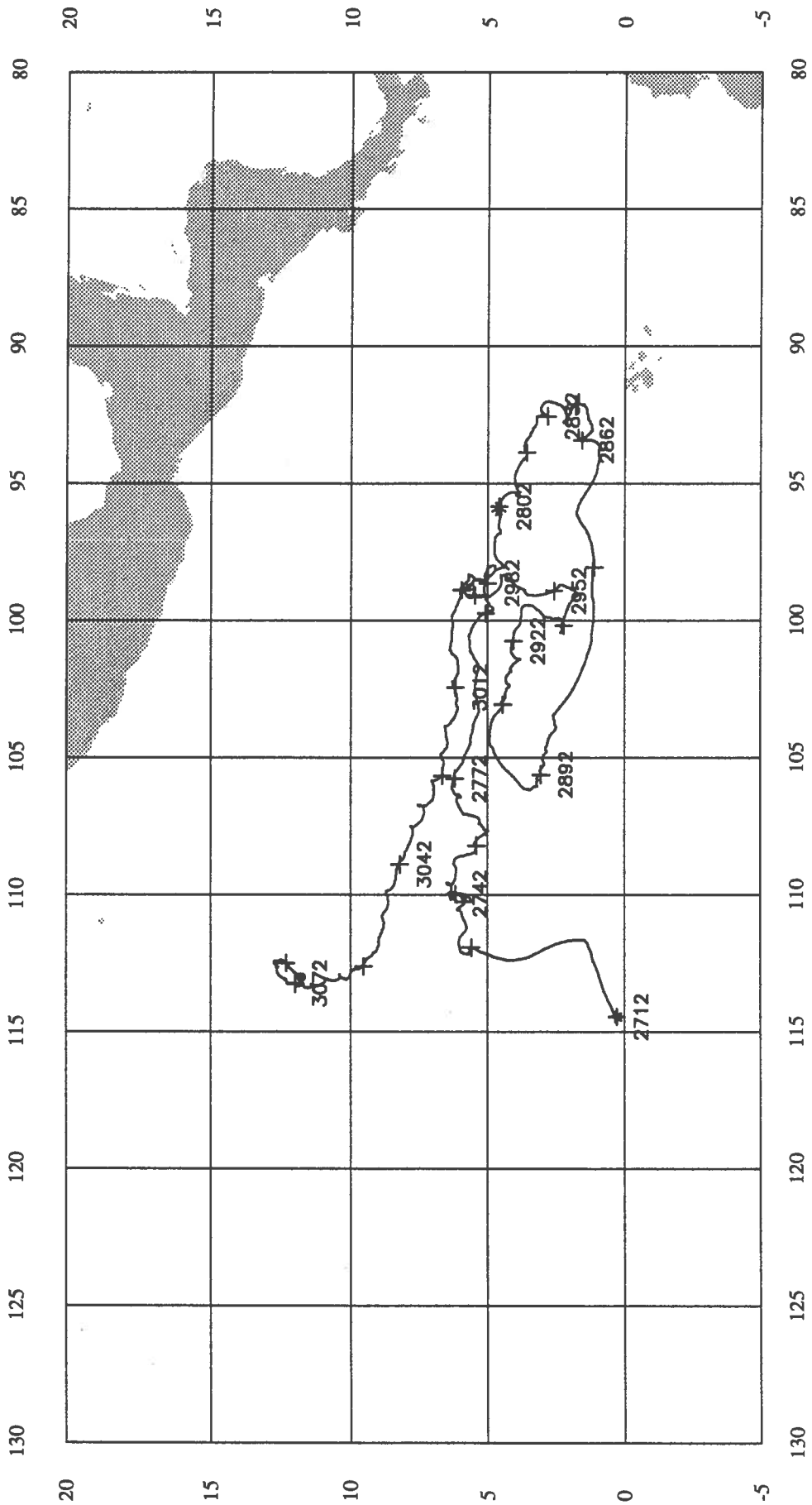
BUOY 2982



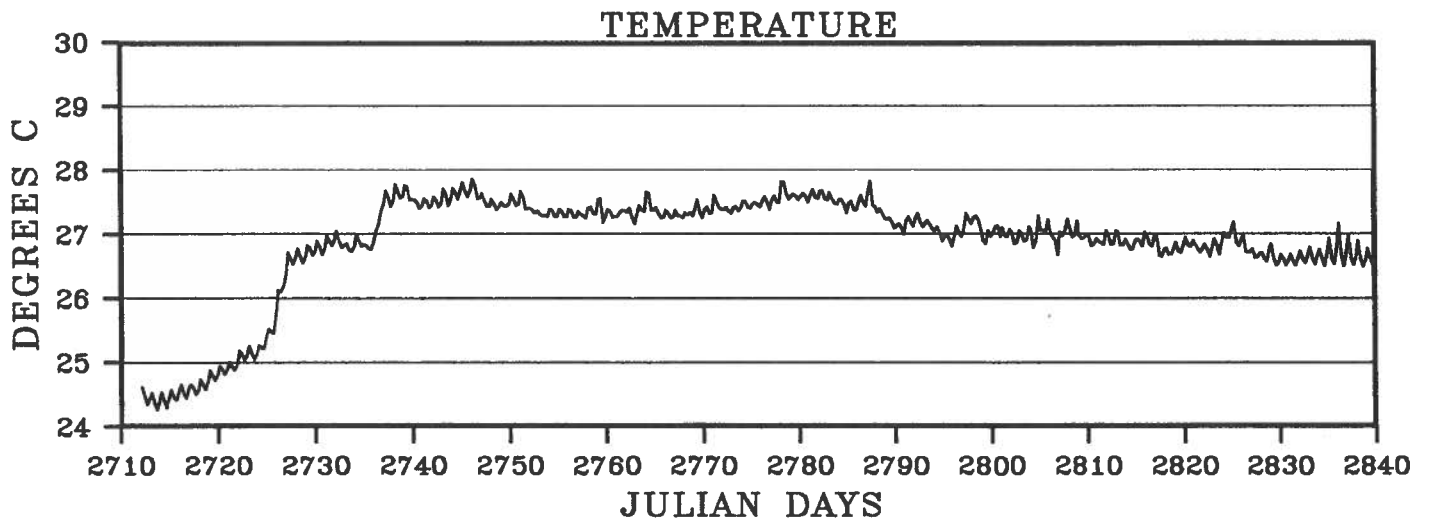
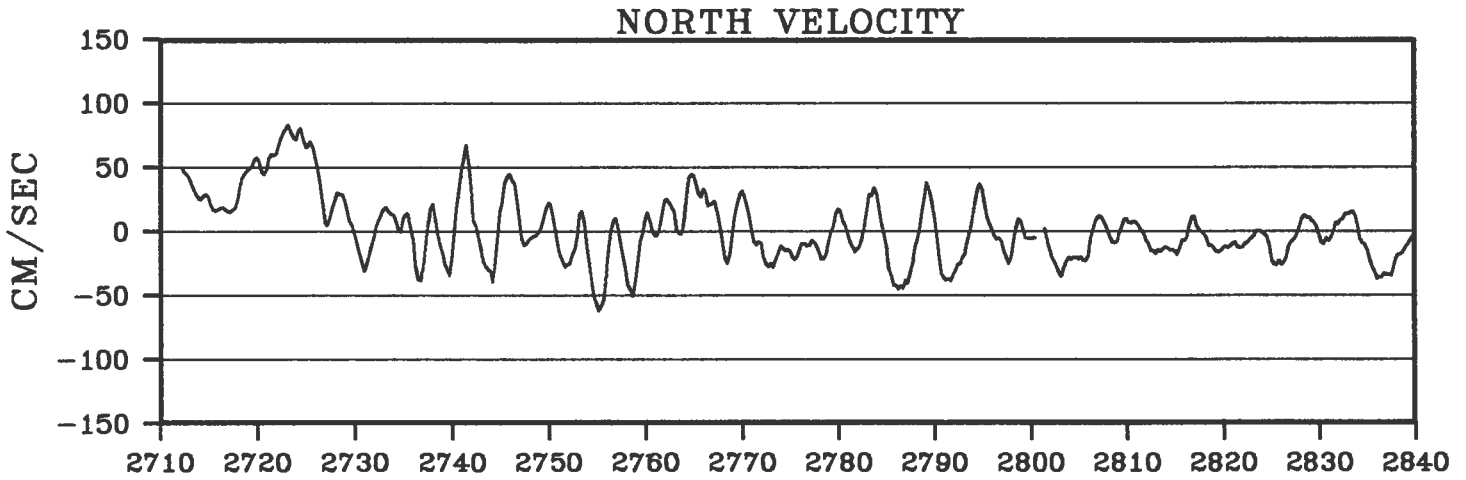
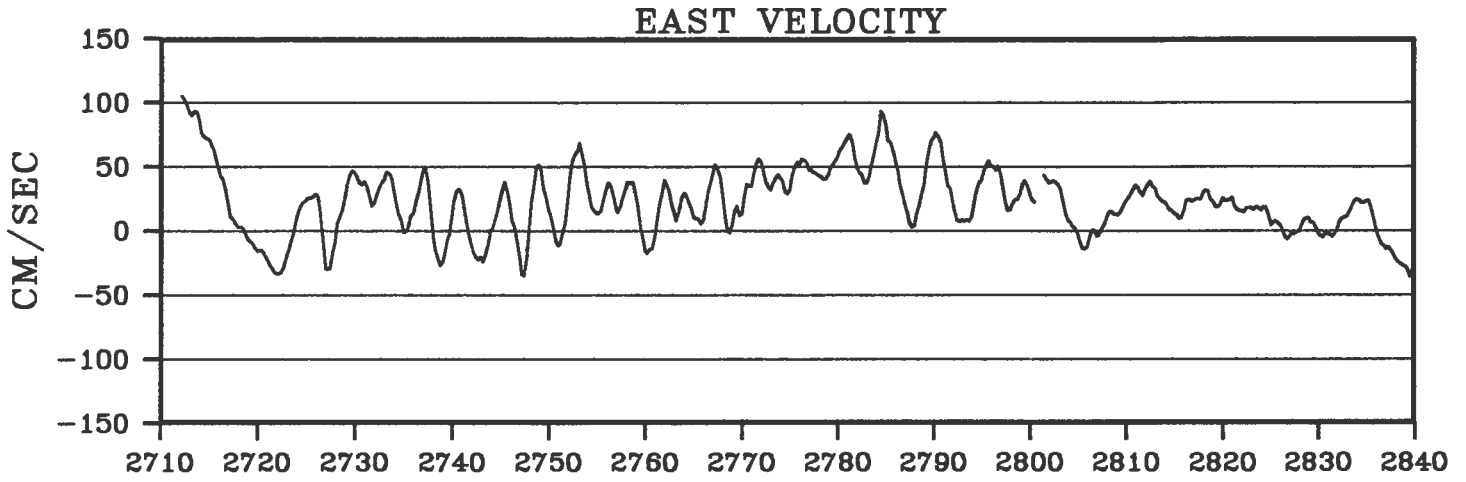
BUOY 2982



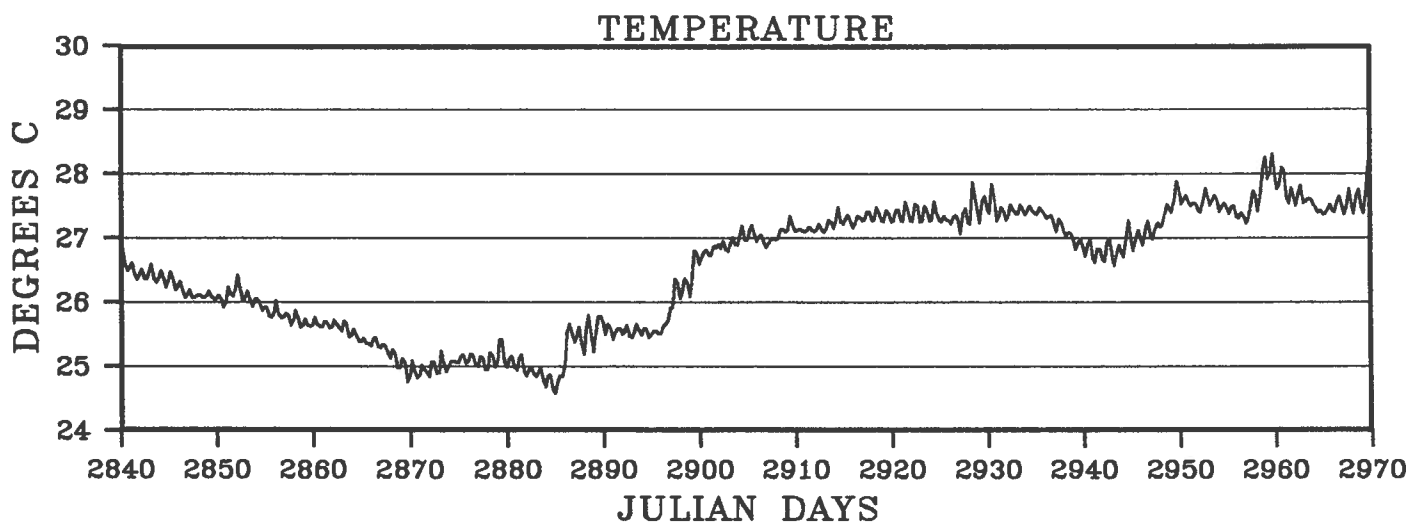
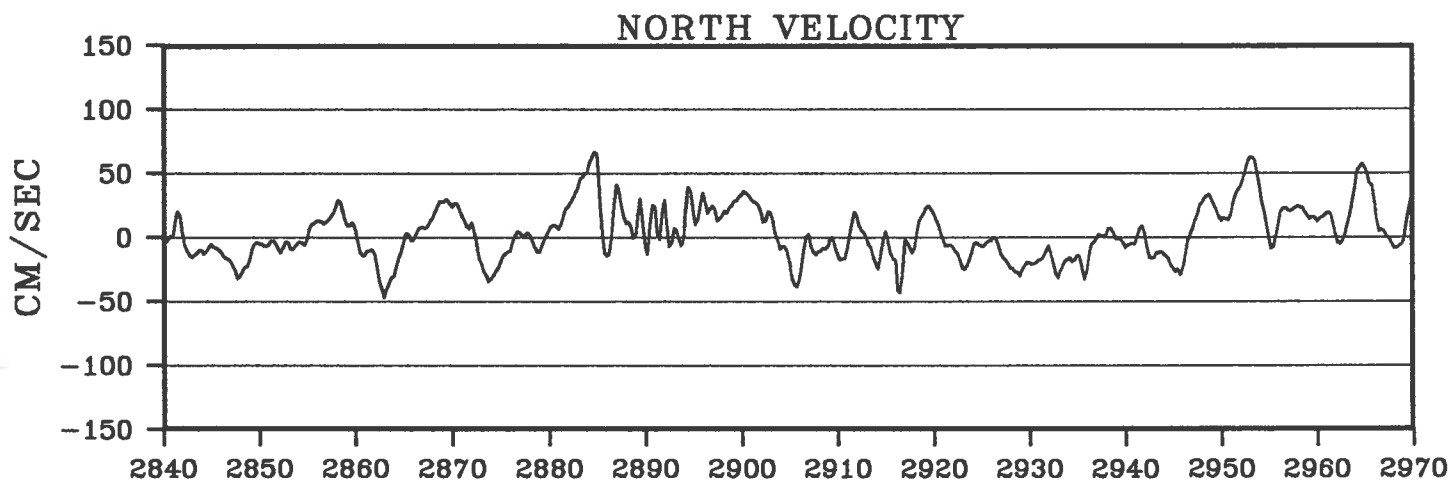
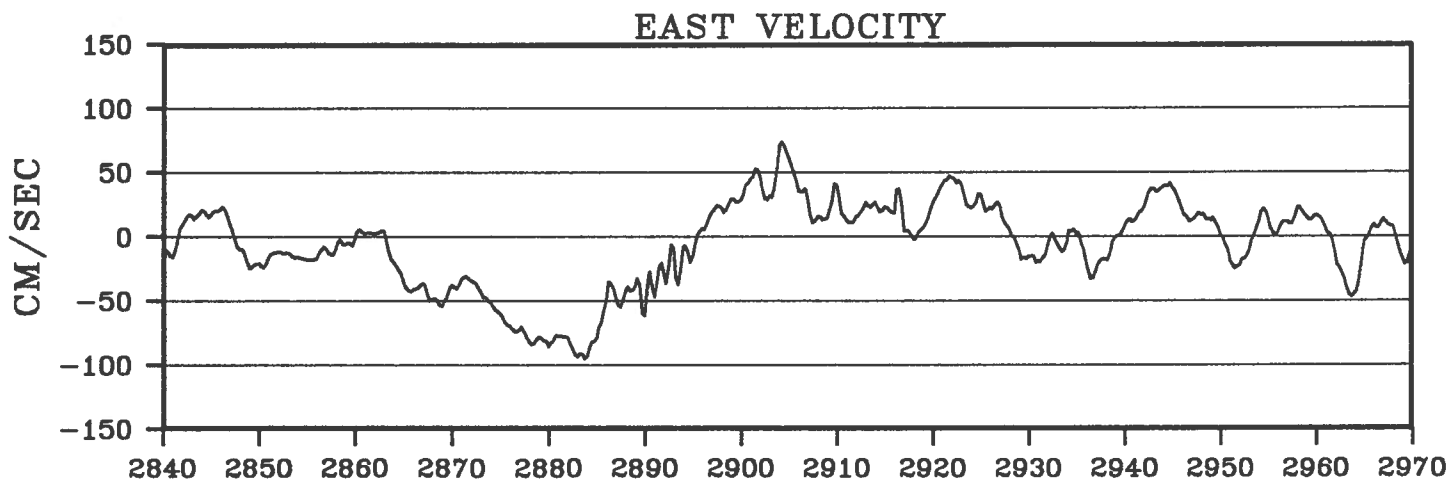
BUOY 2983



BUOY 2983

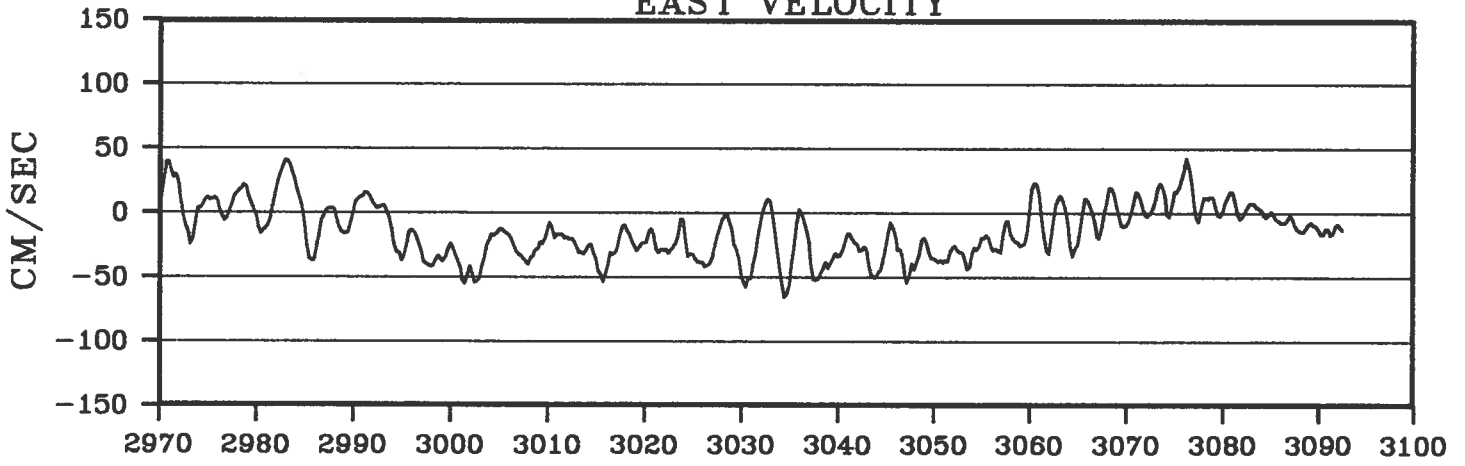


BUOY 2983

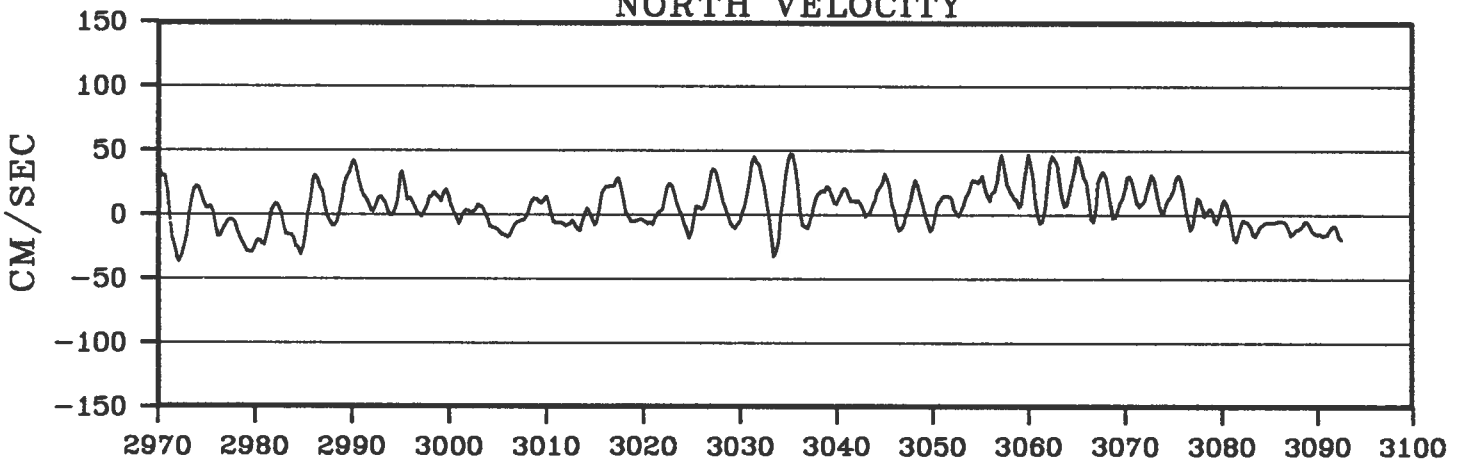


BUOY 2983

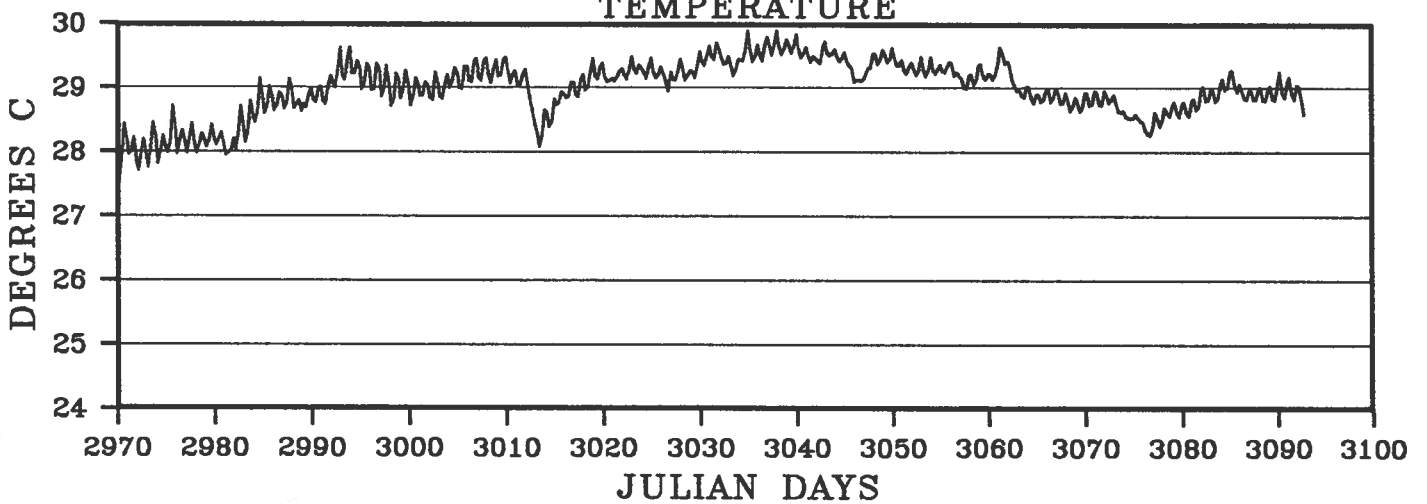
EAST VELOCITY



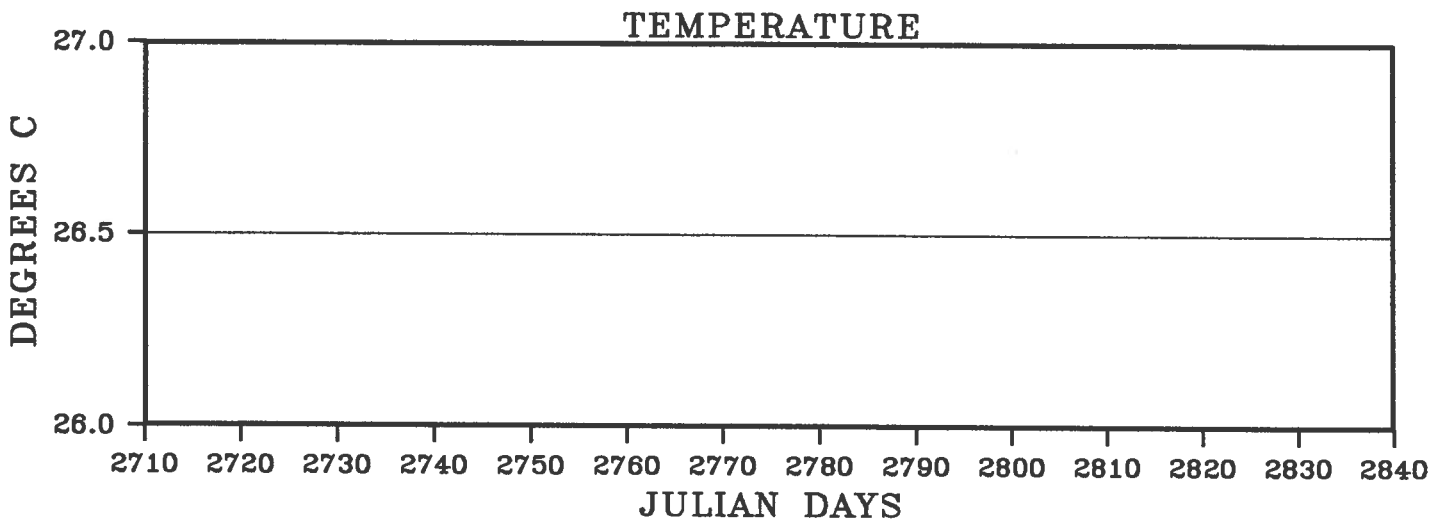
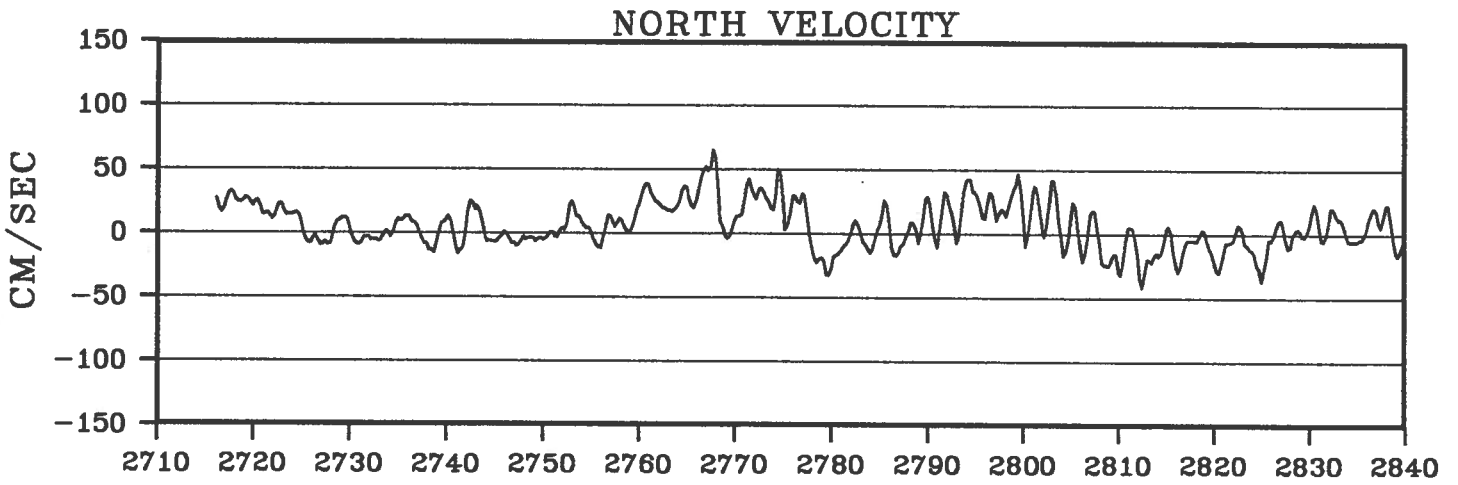
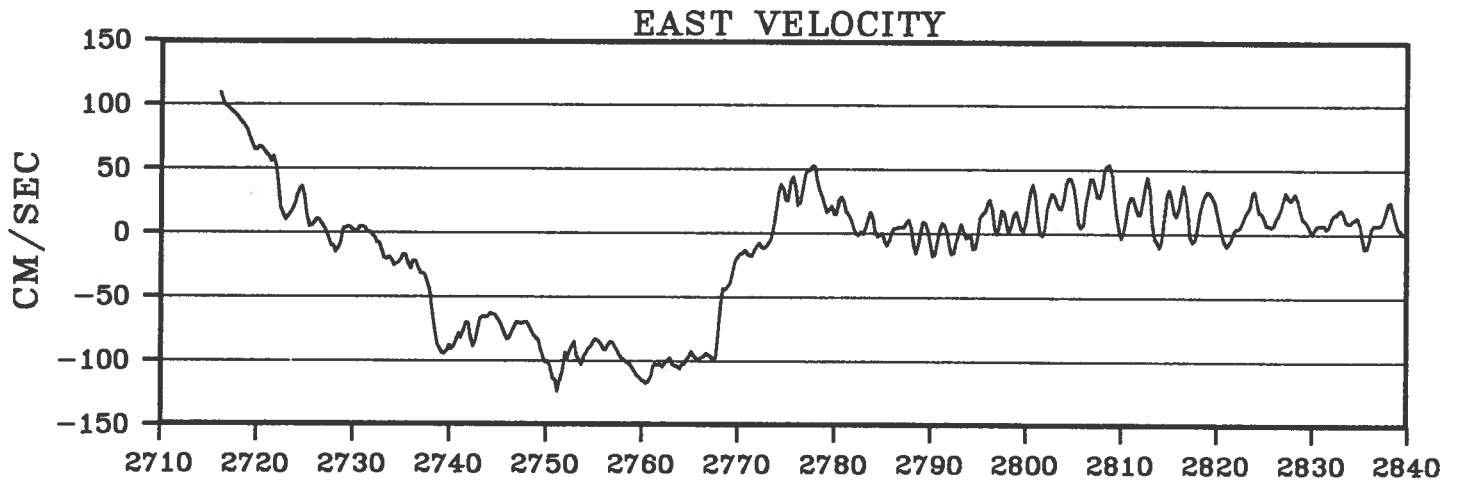
NORTH VELOCITY



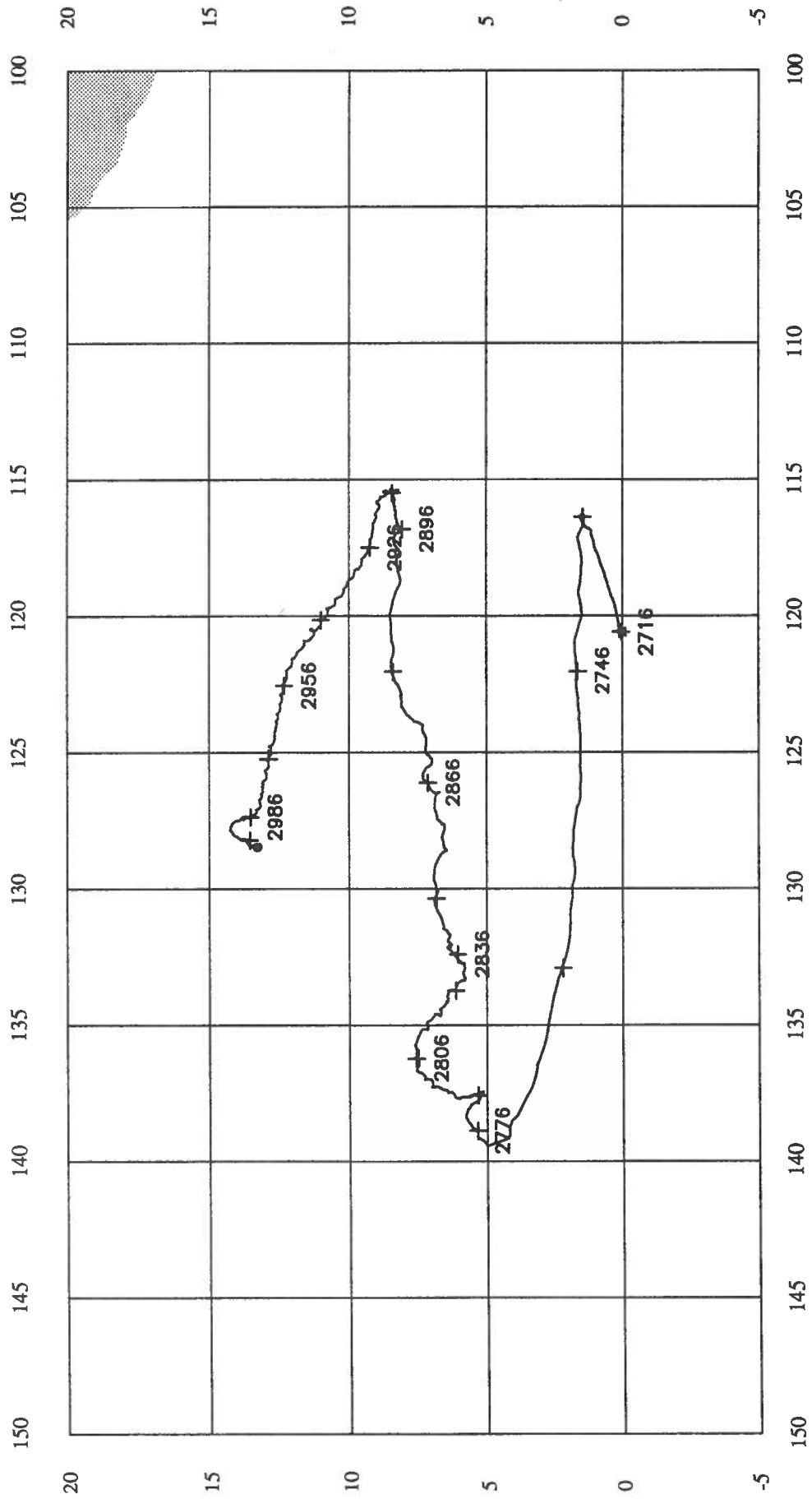
TEMPERATURE



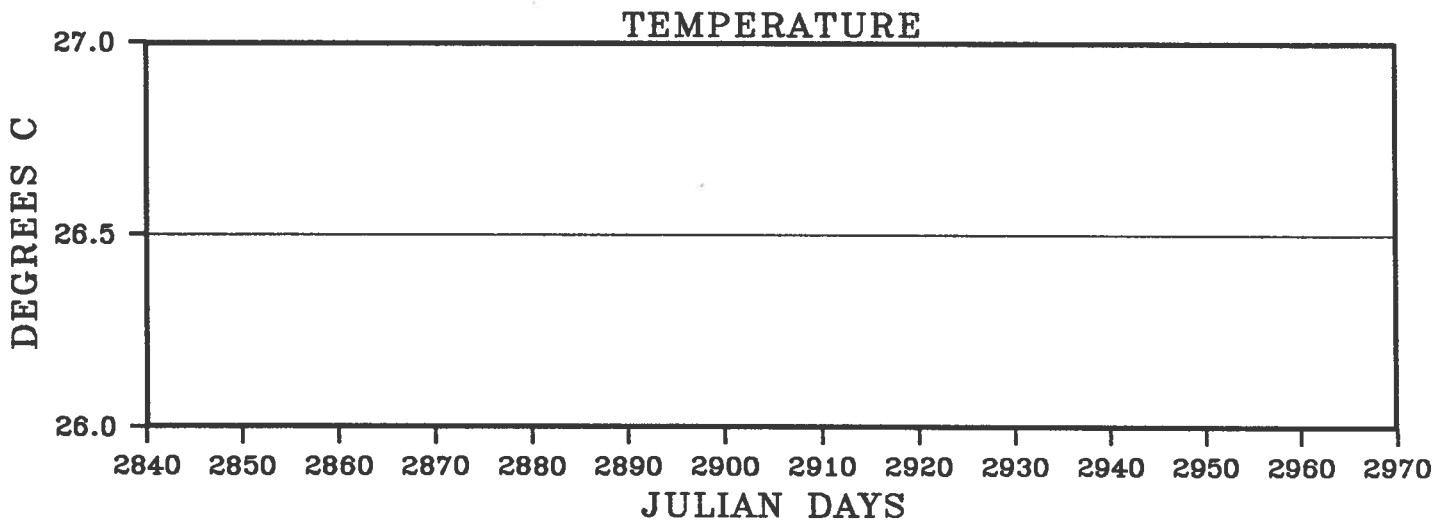
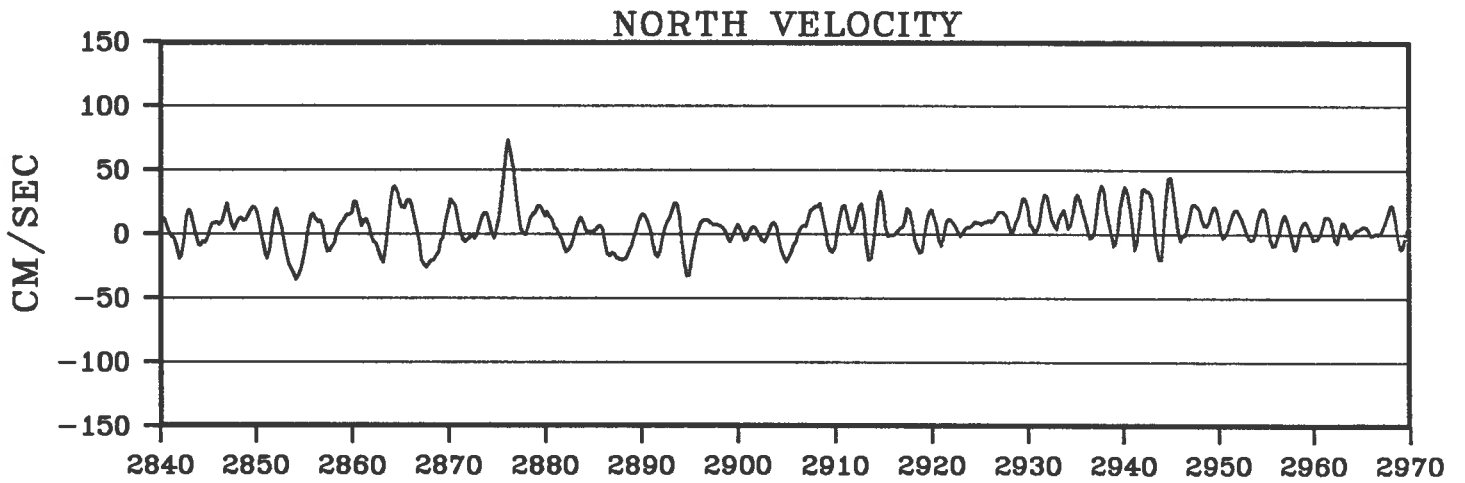
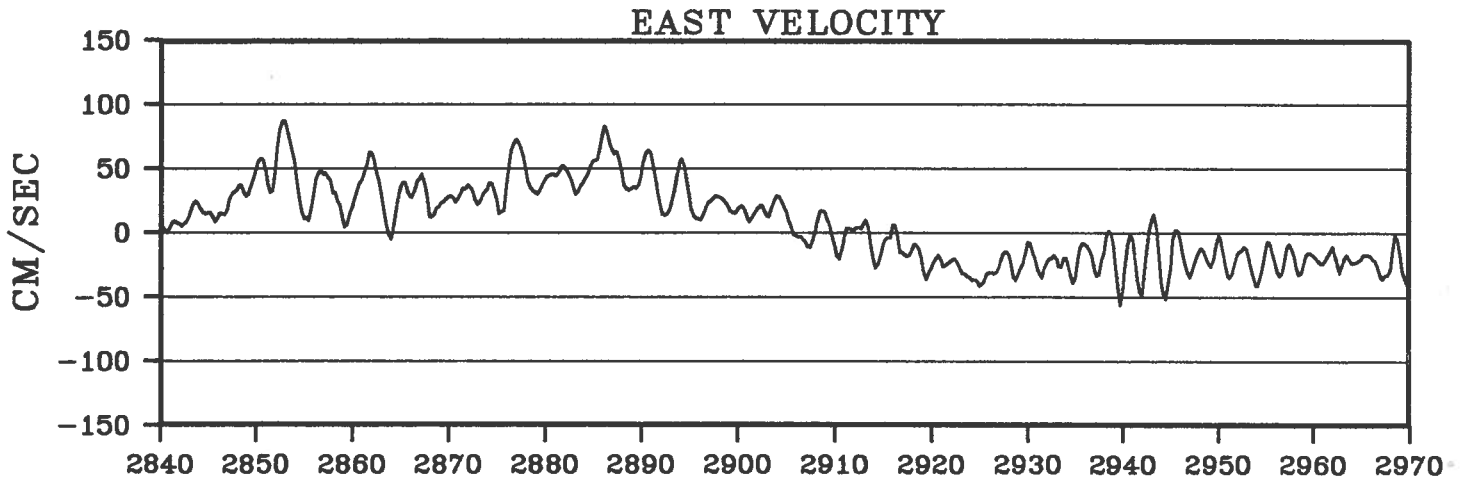
BUOY 2984



BUOY 2984

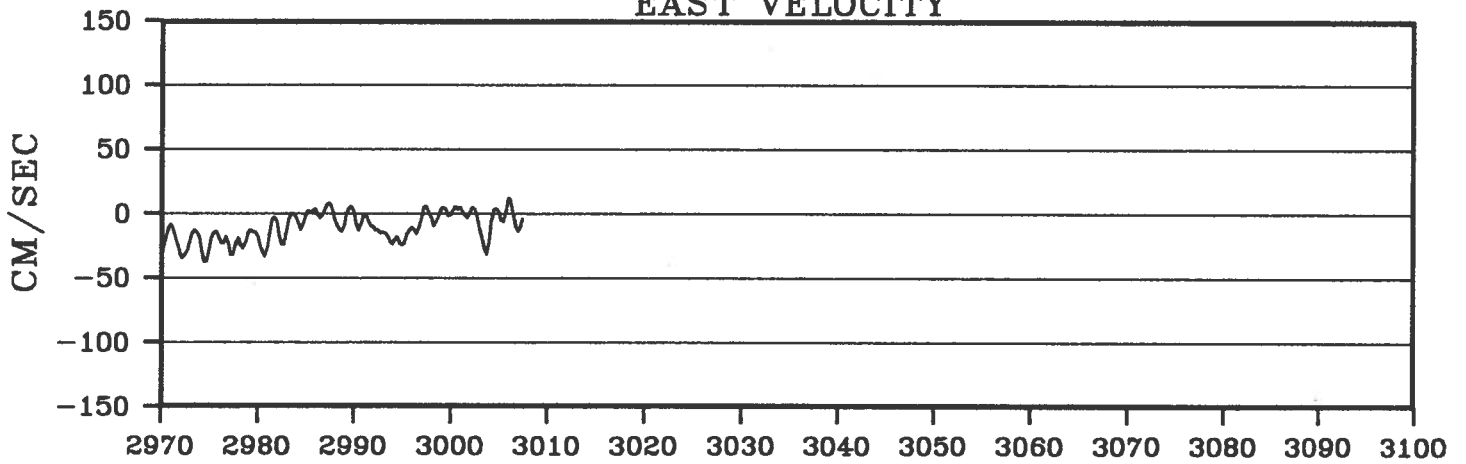


BUOY 2984

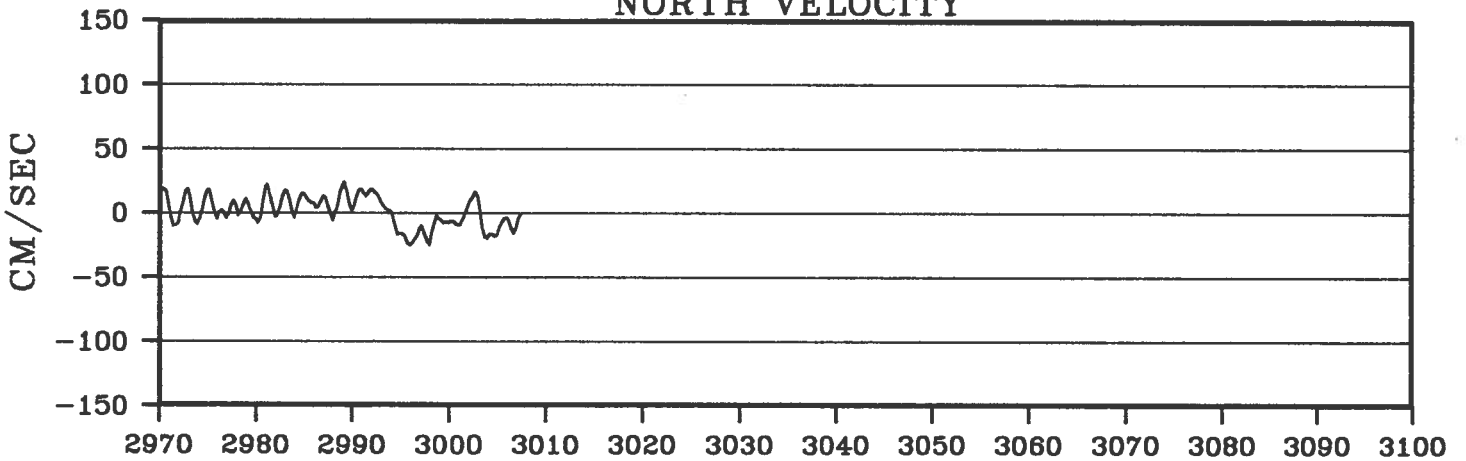


BUOY 2984

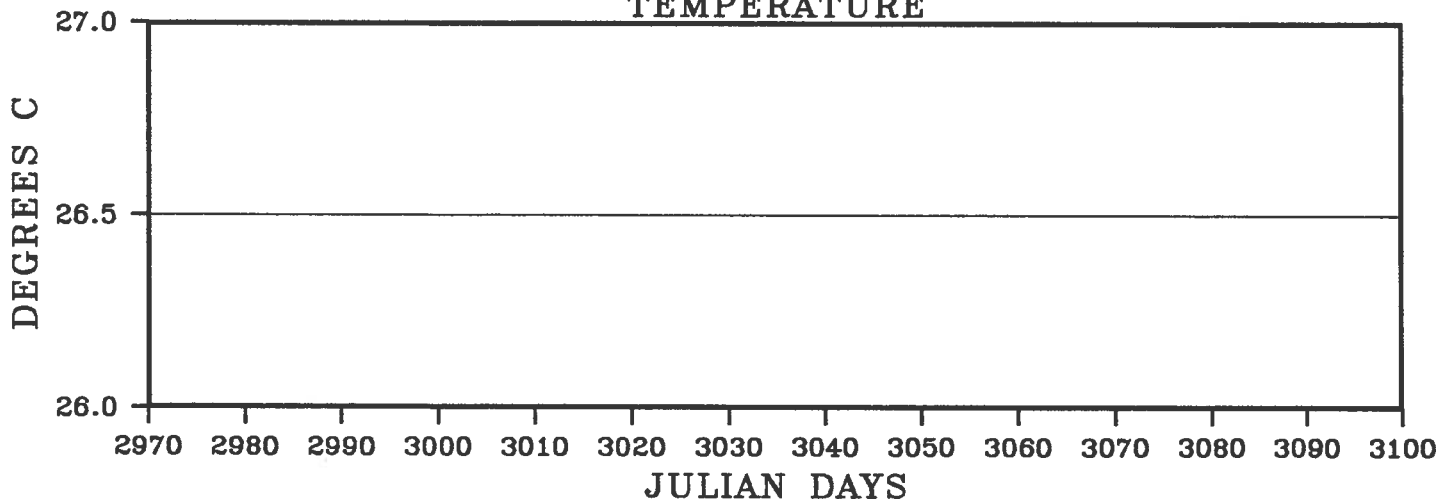
EAST VELOCITY



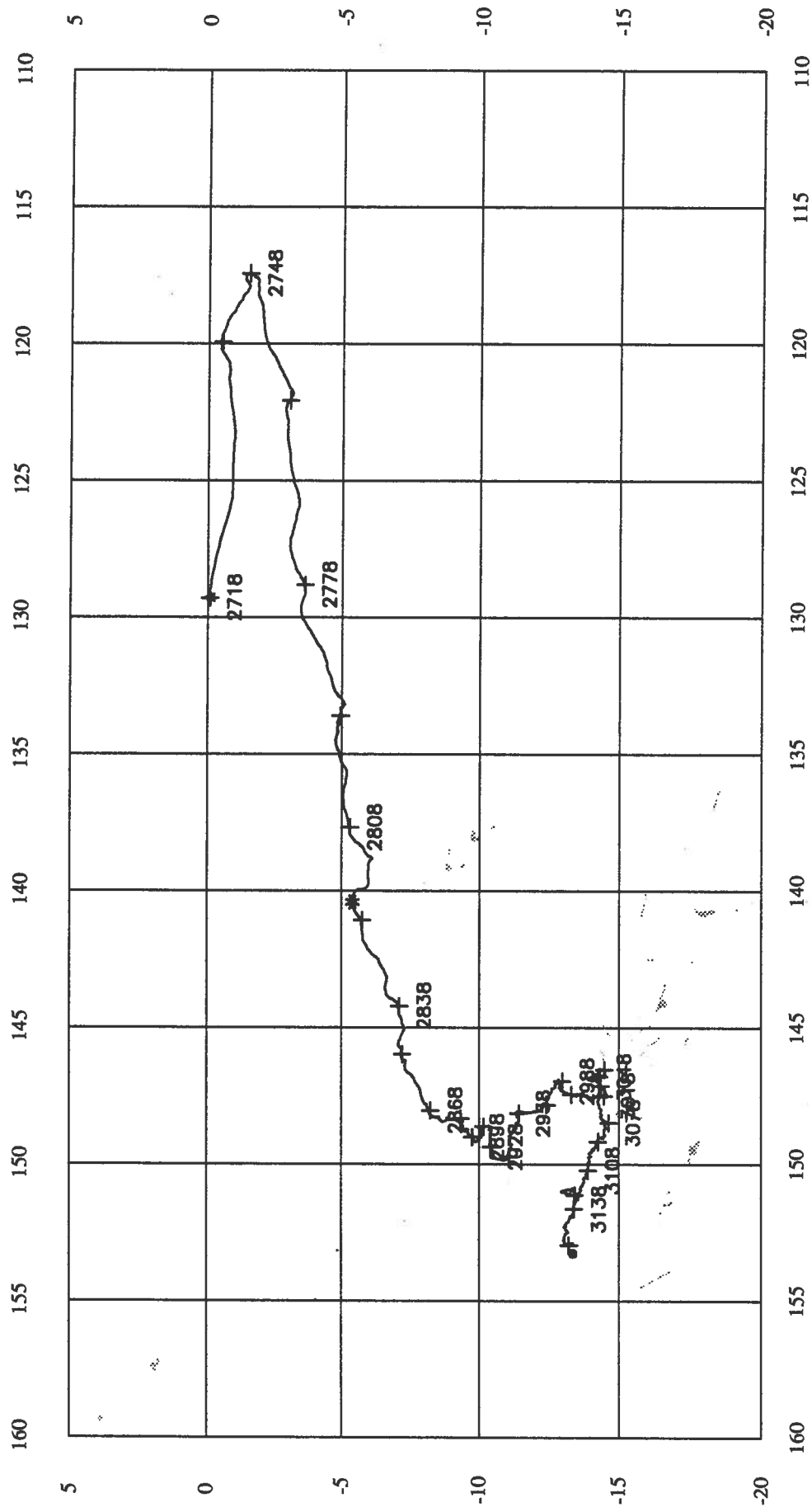
NORTH VELOCITY



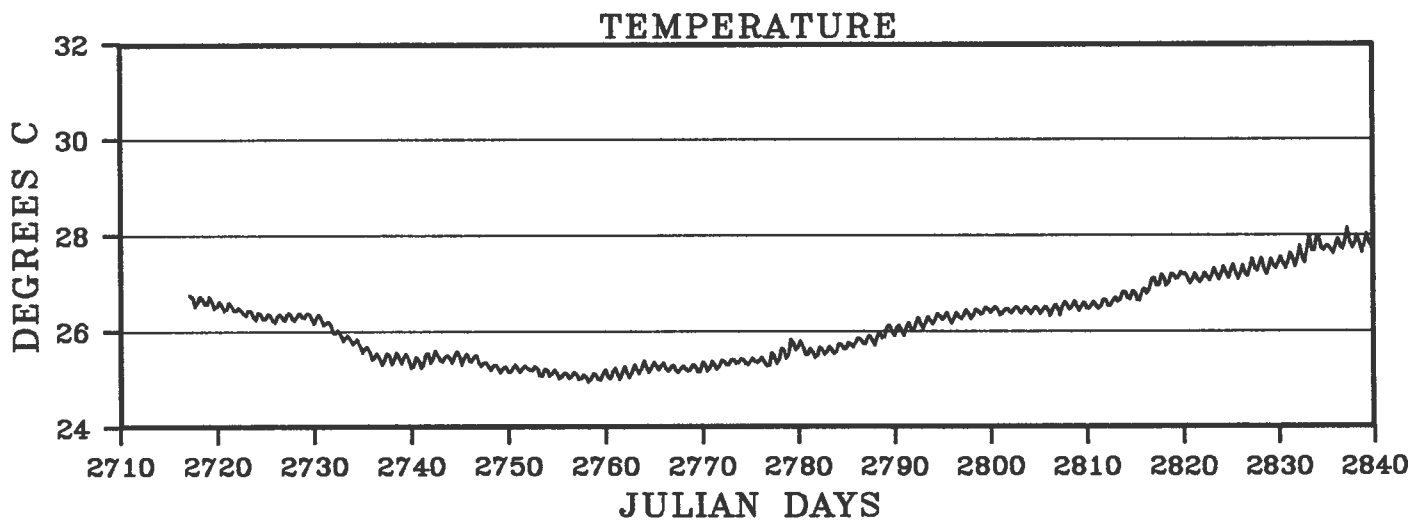
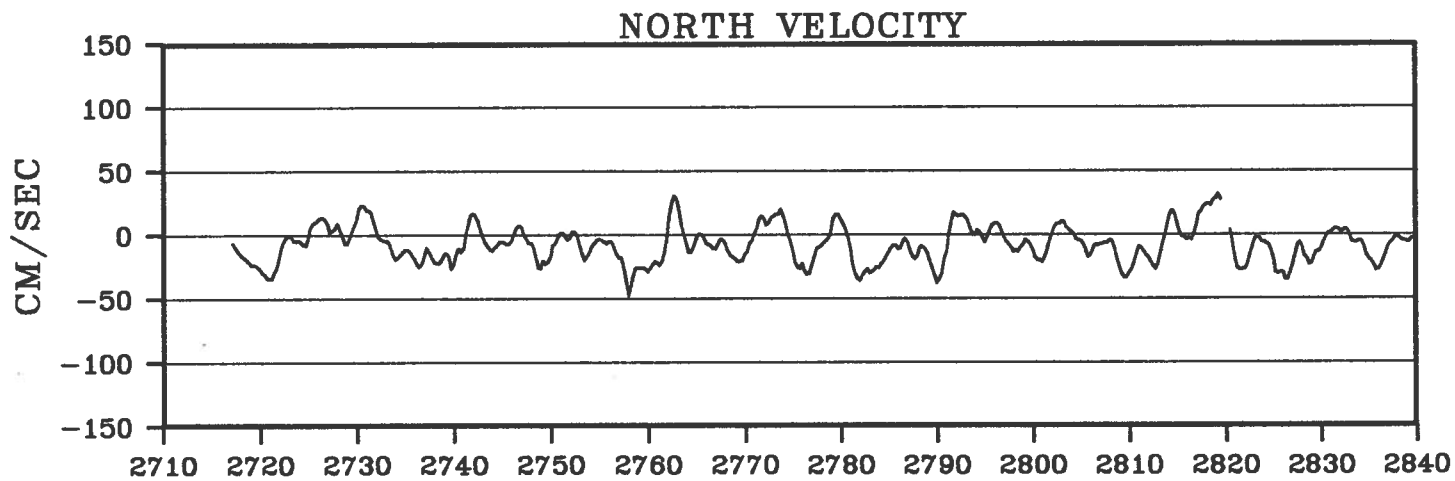
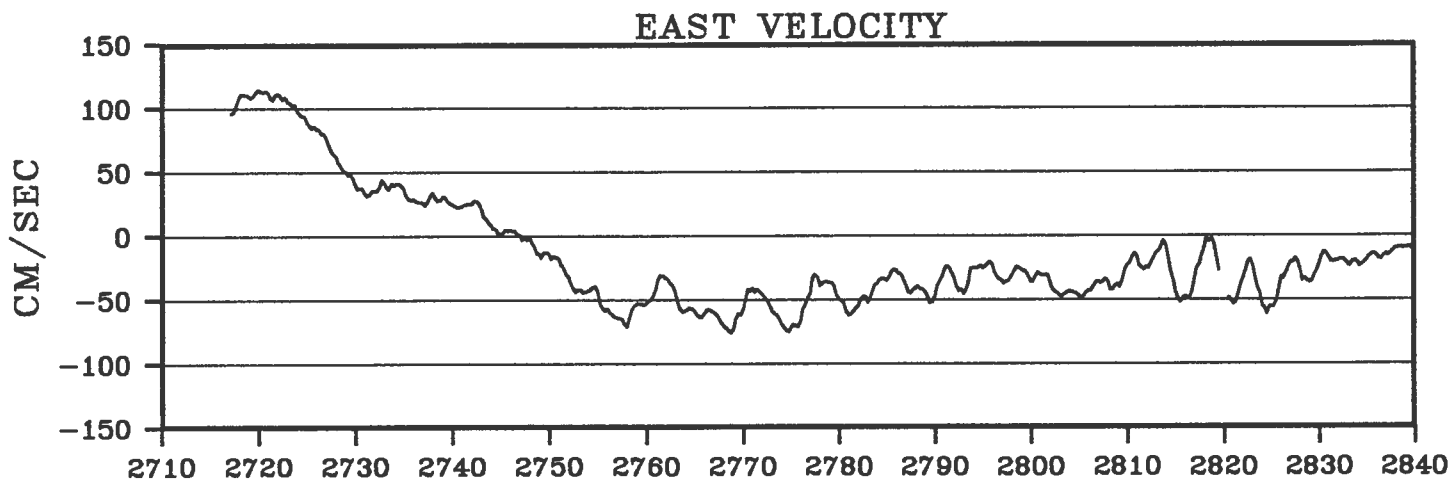
TEMPERATURE



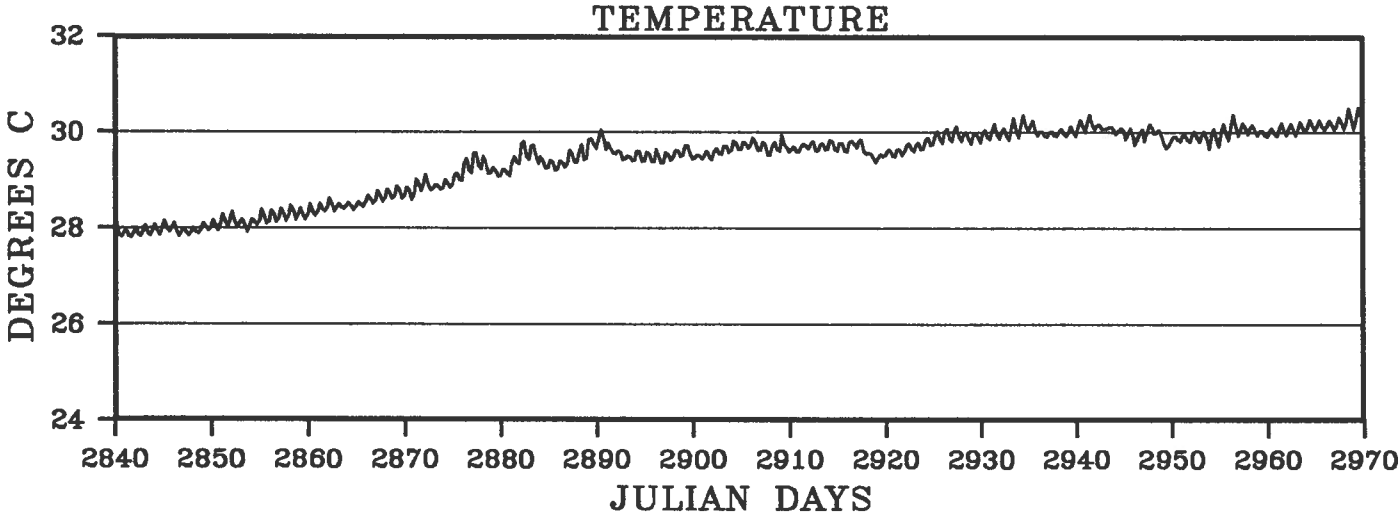
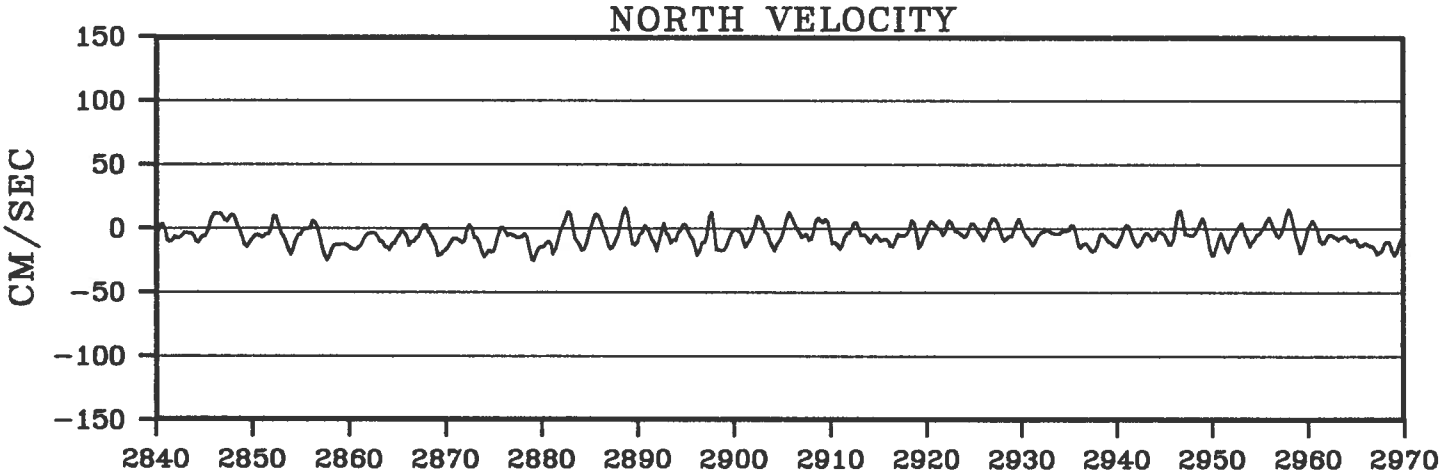
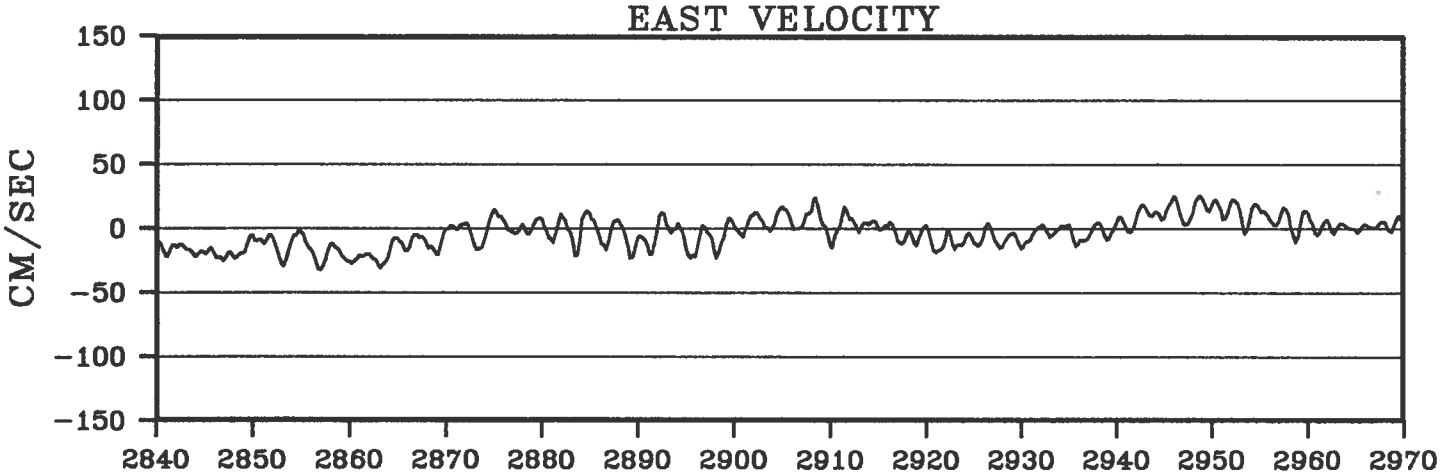
BUOY 2985



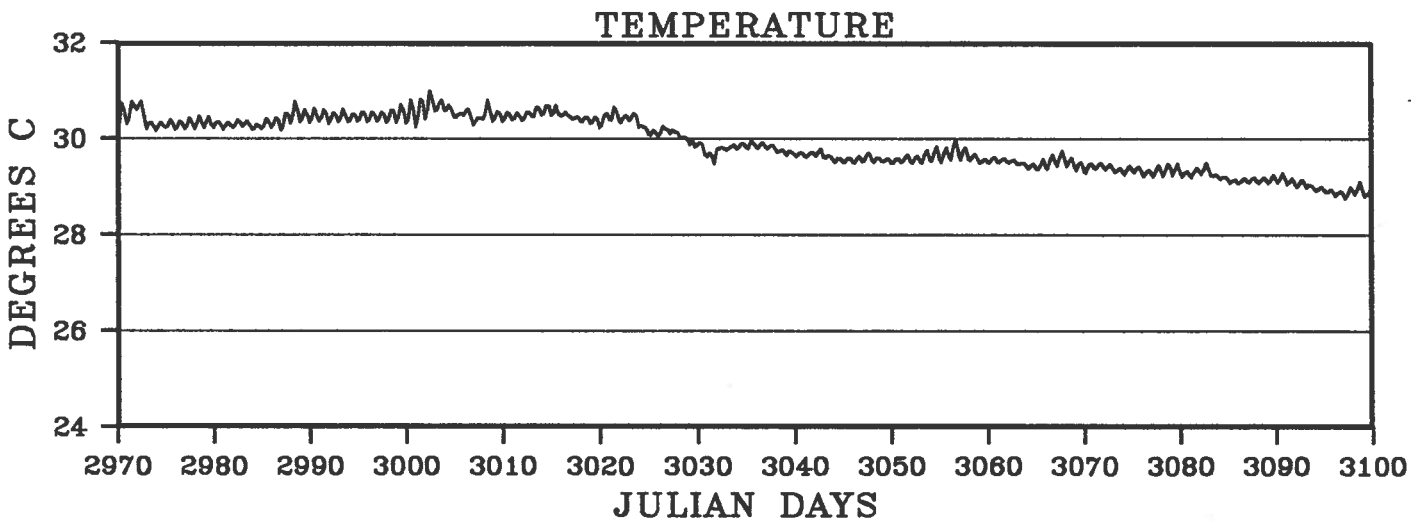
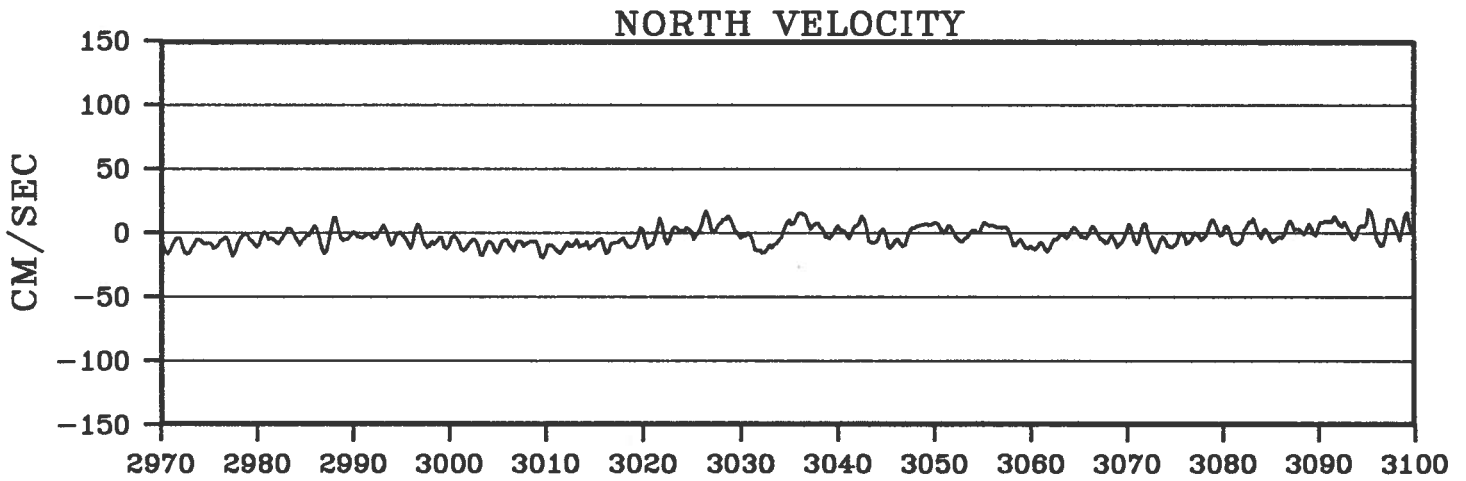
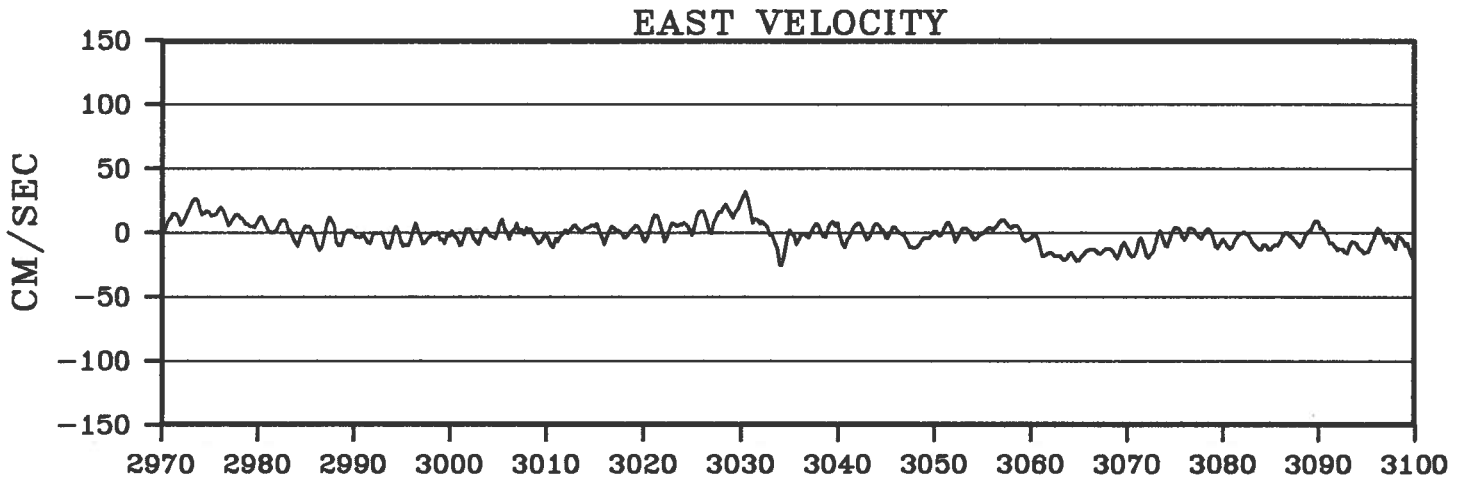
BUOY 2985



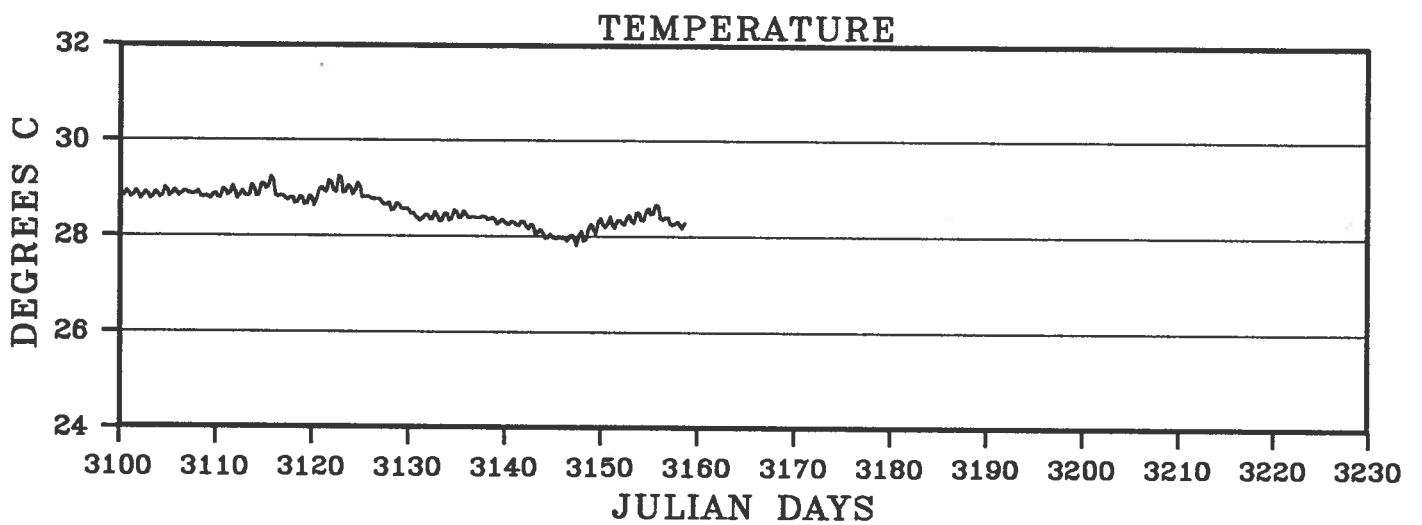
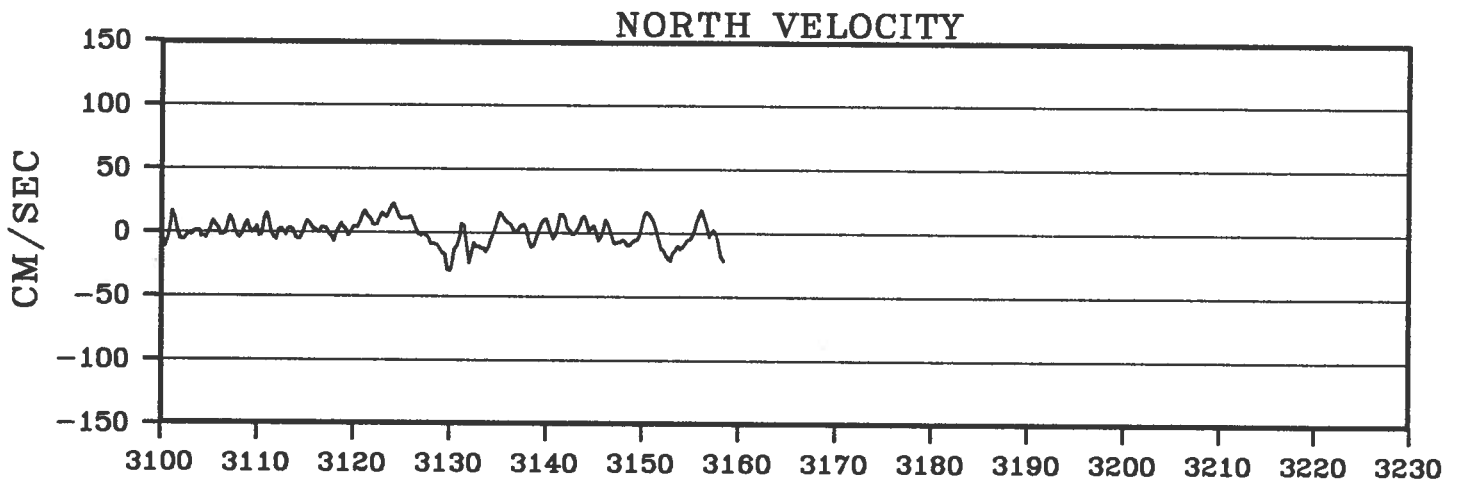
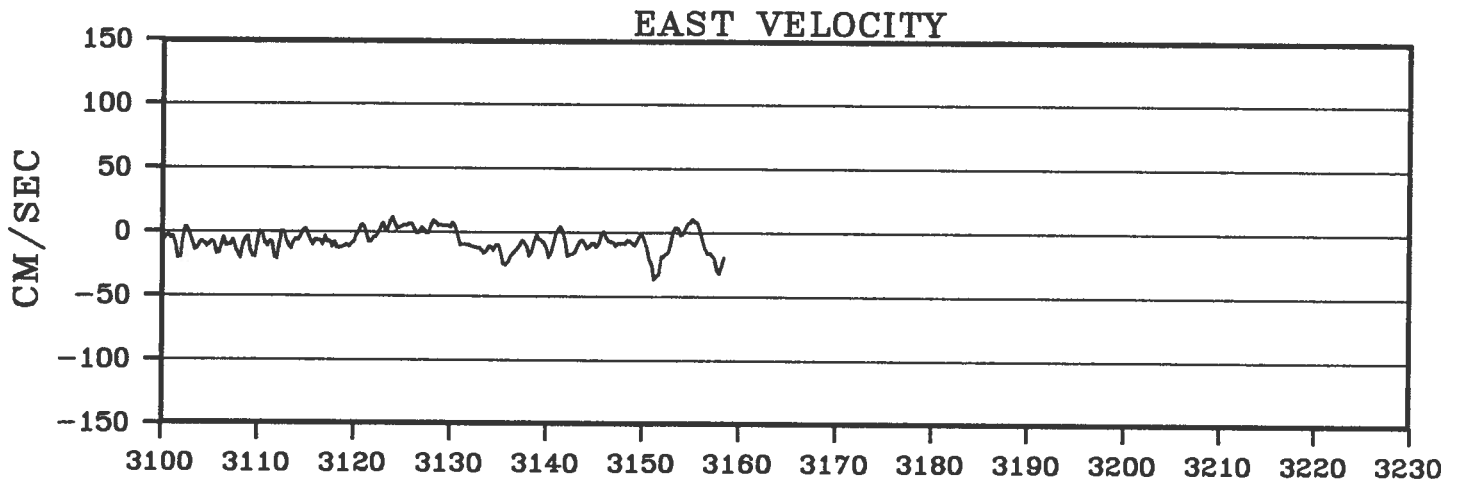
BUOY 2985



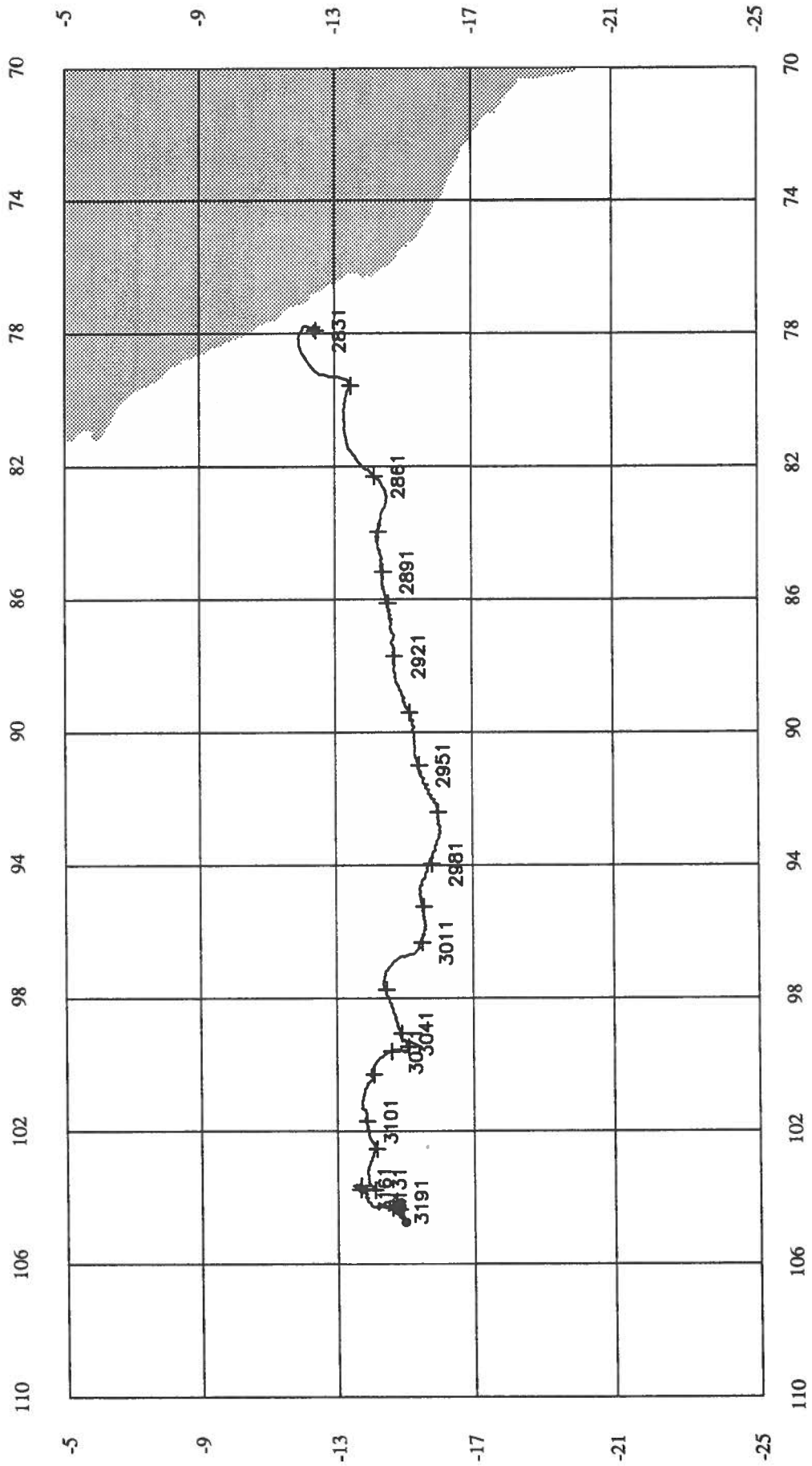
BUOY 2985



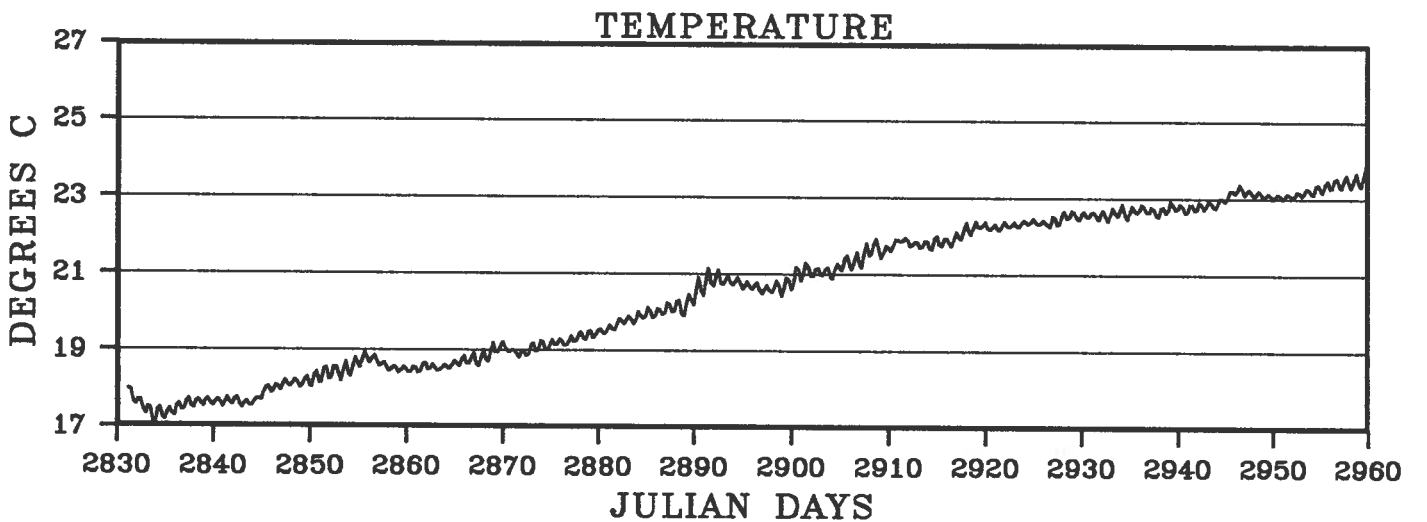
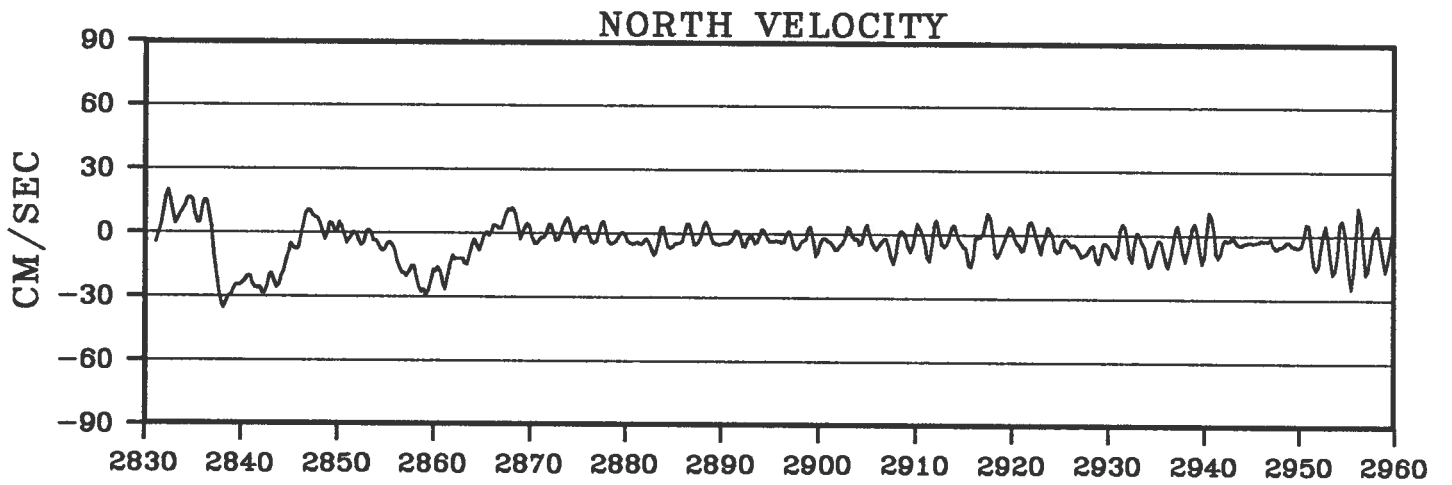
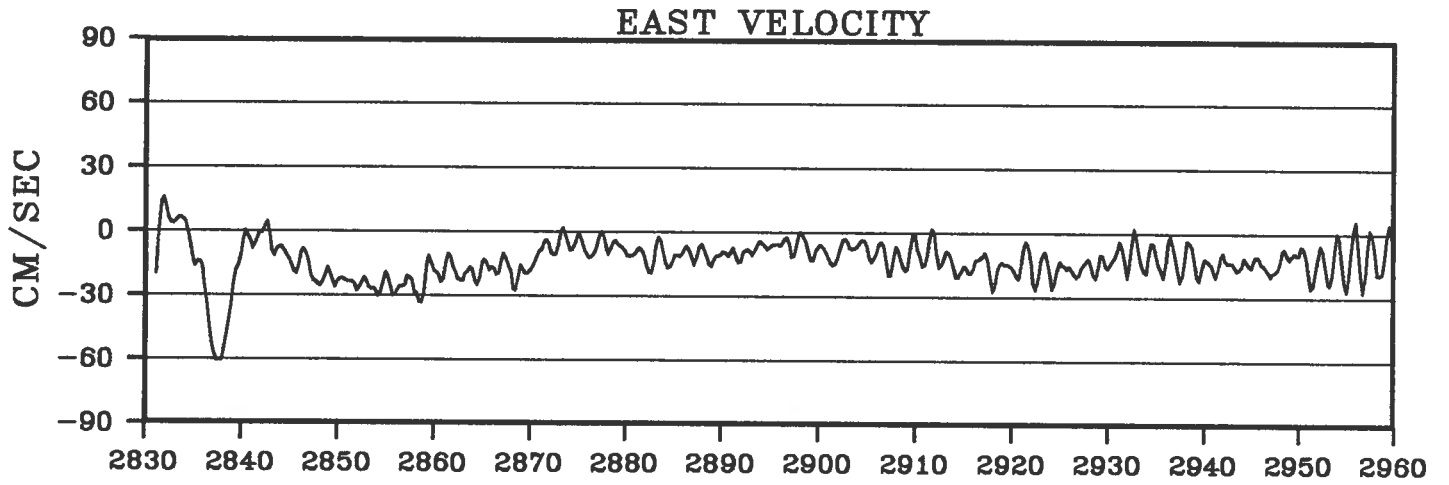
BUOY 2985



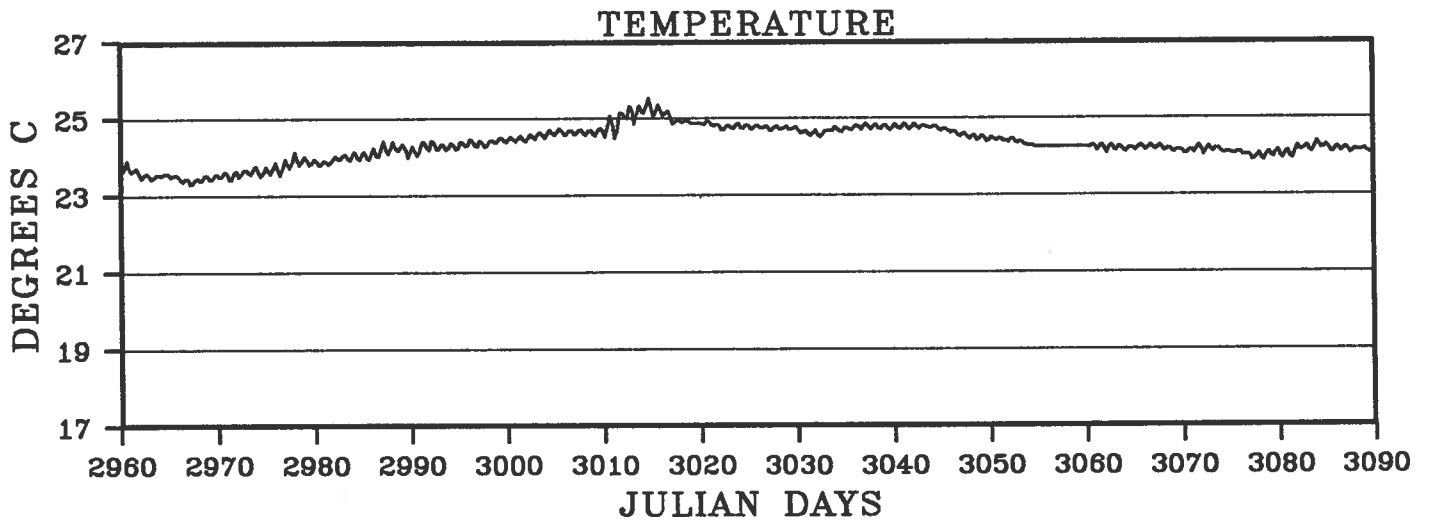
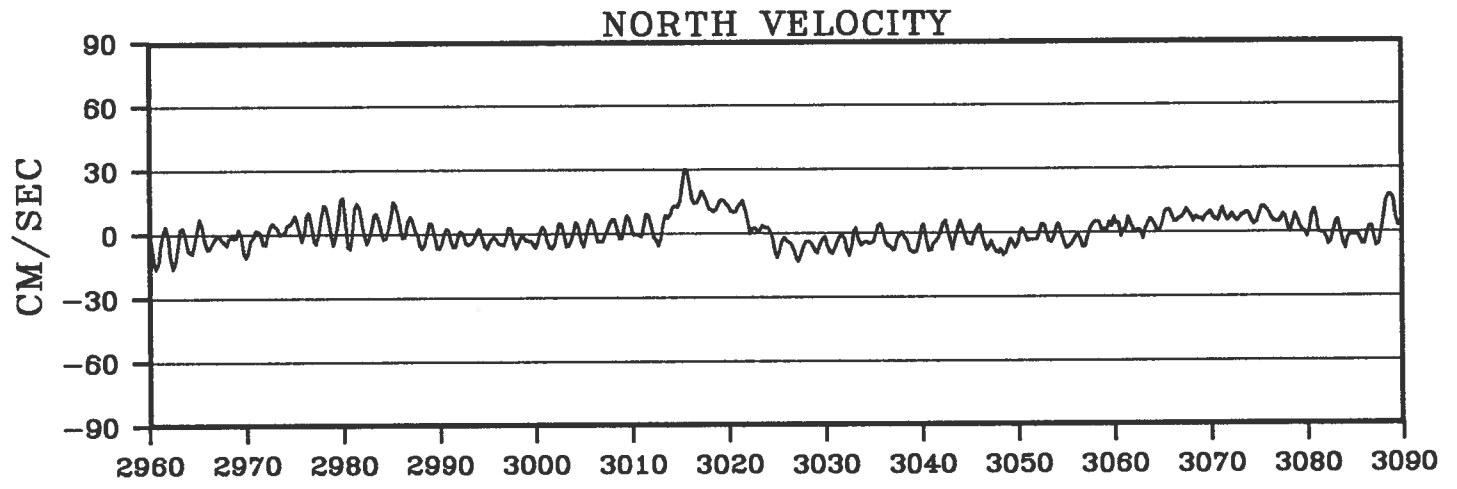
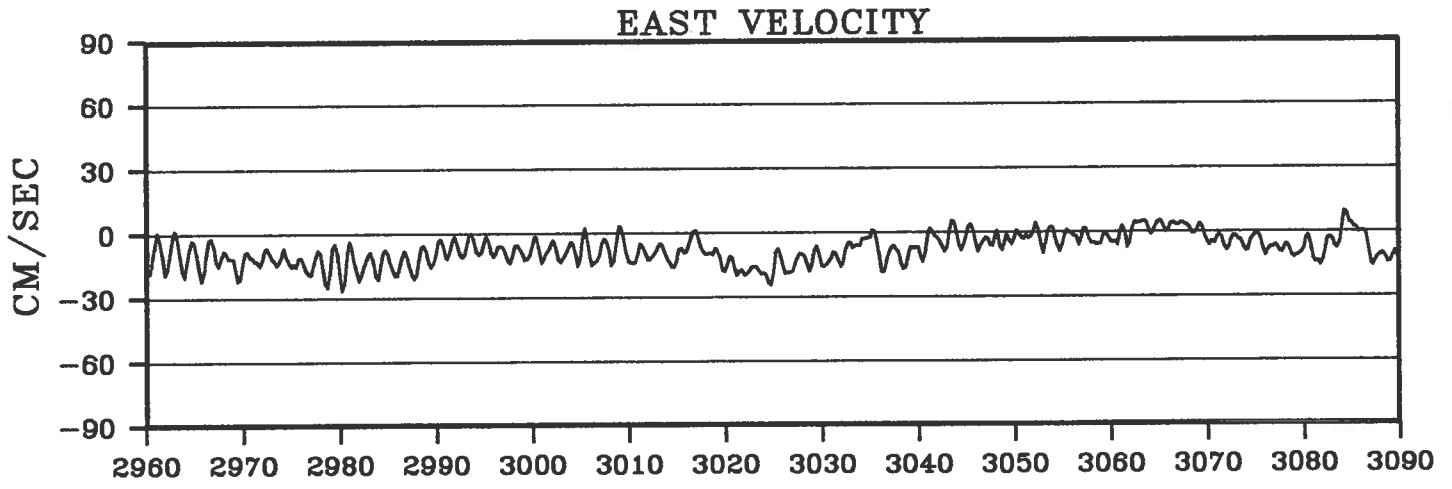
BUOY 3130



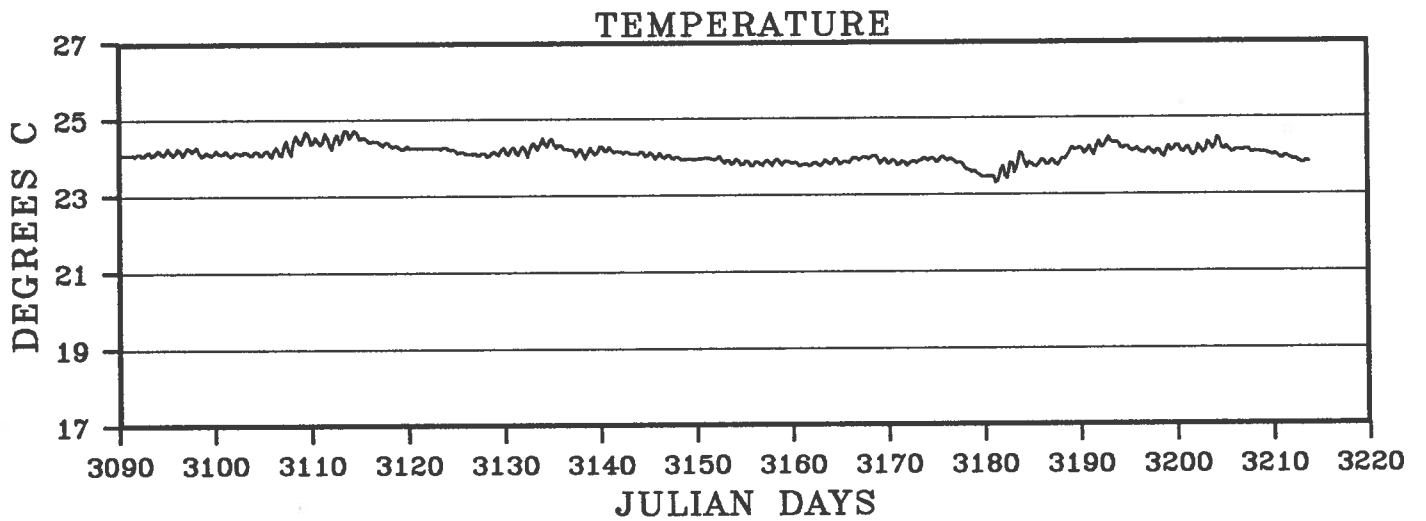
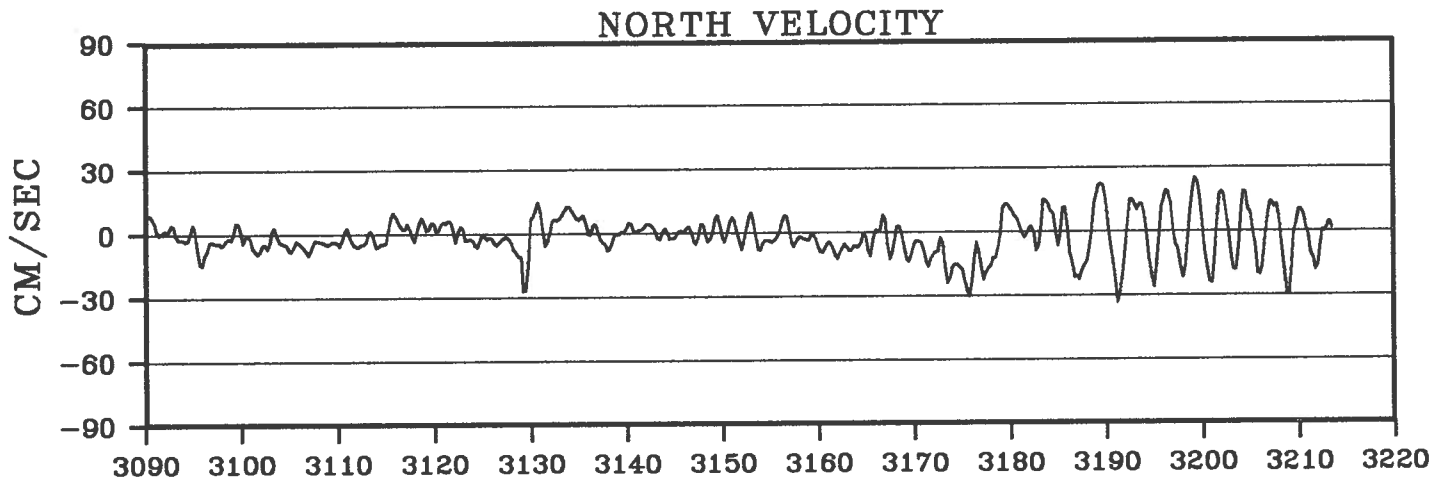
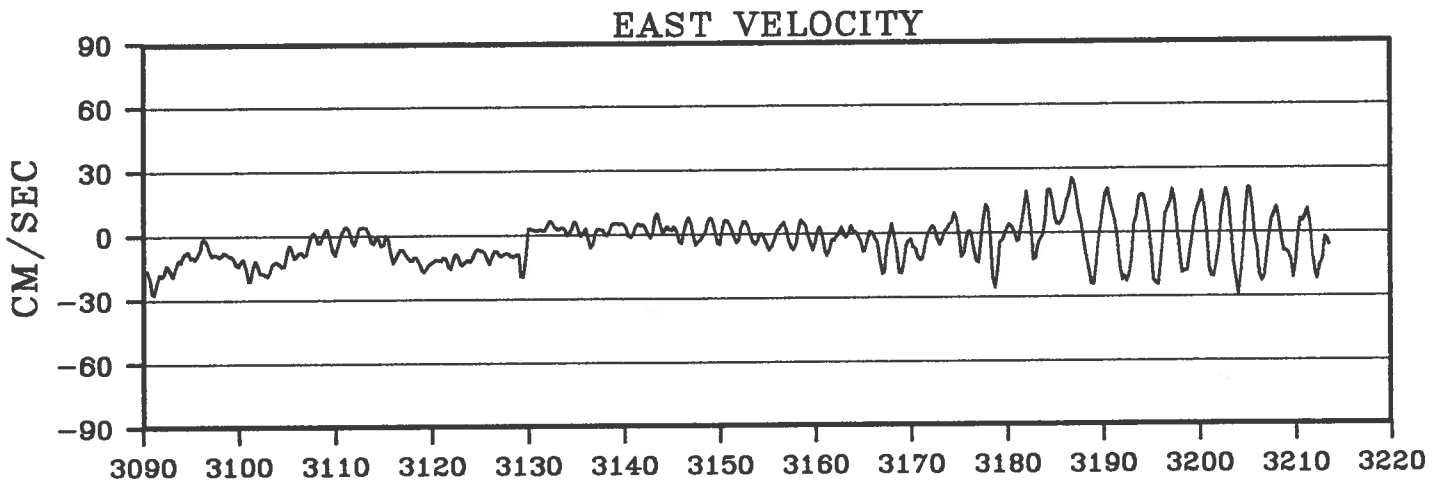
BUOY 3130



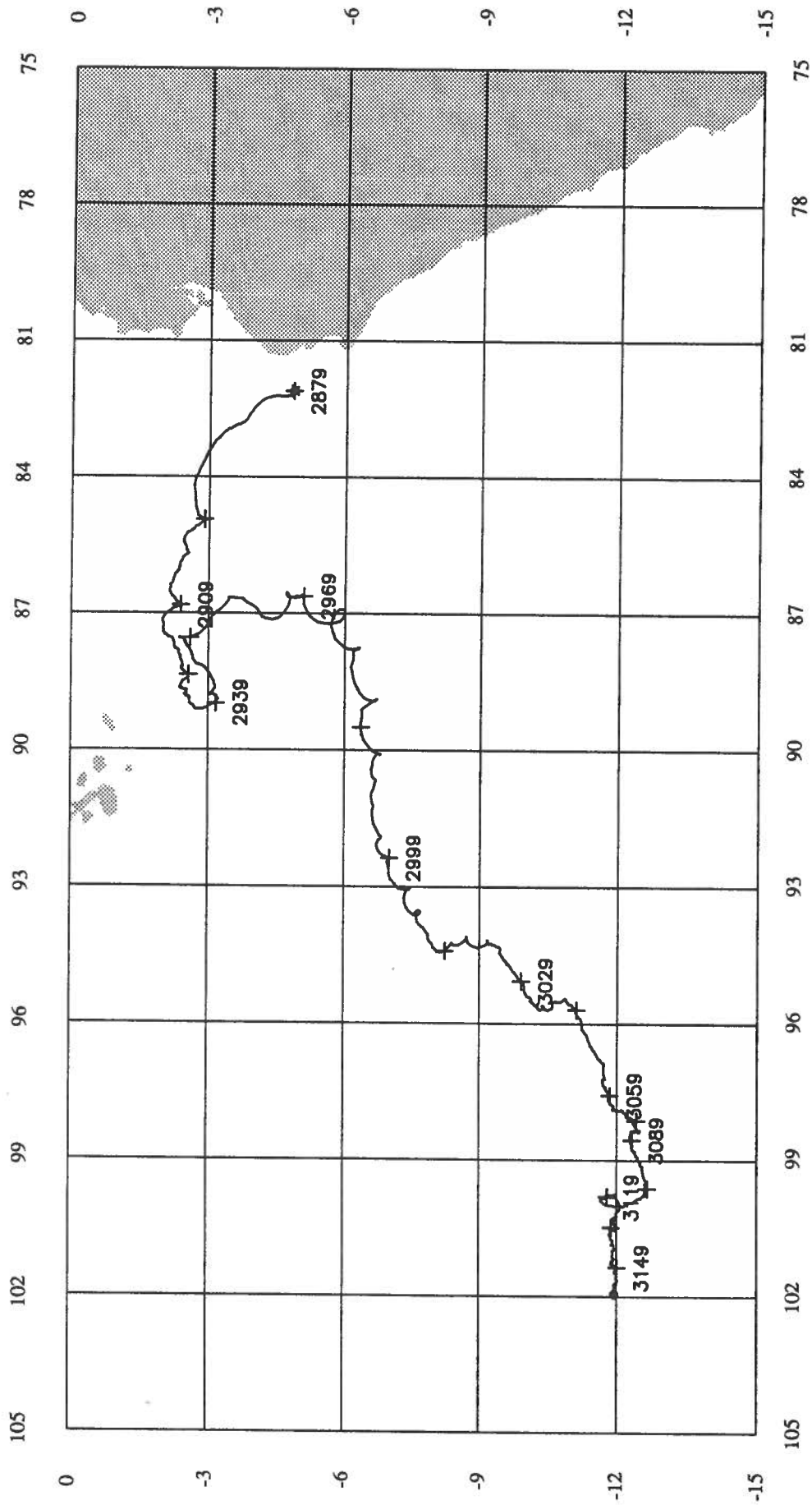
BUOY 3130



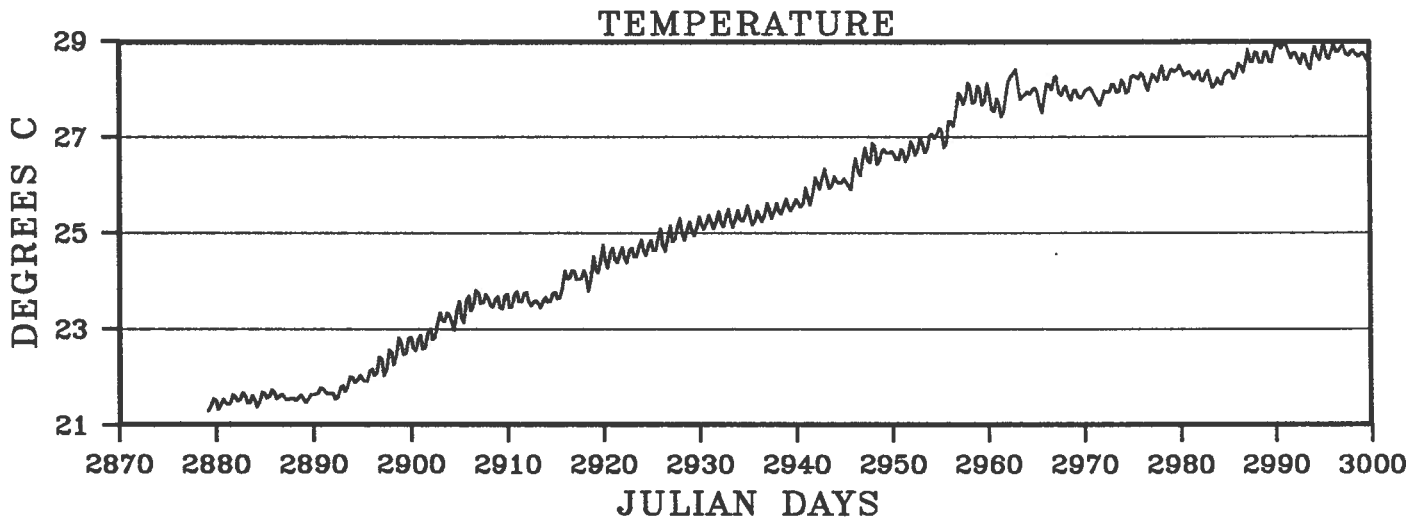
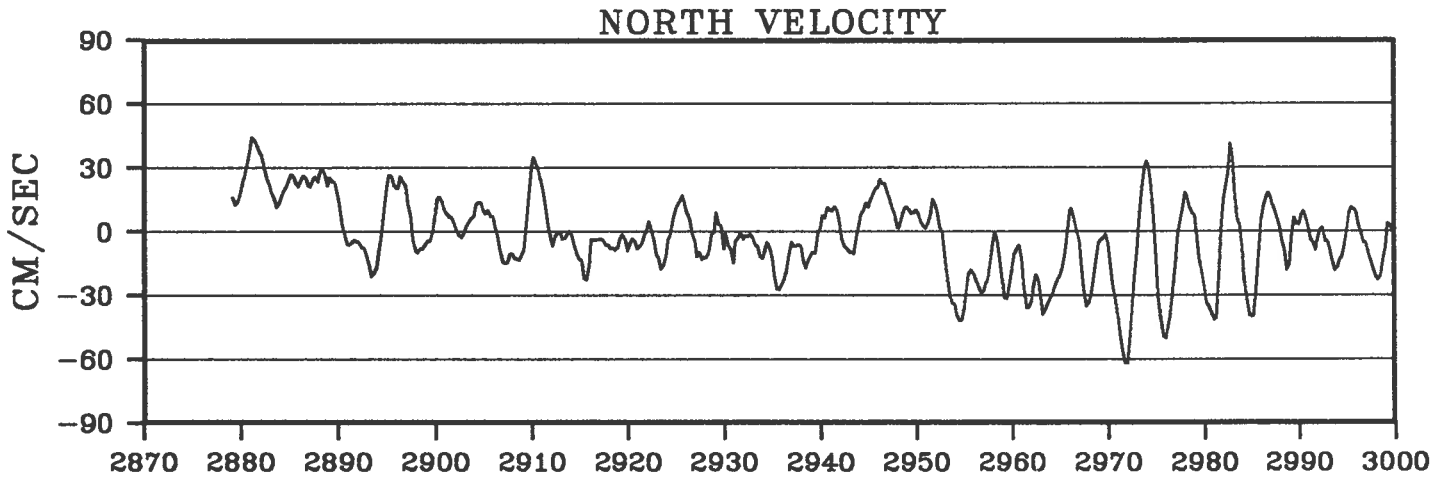
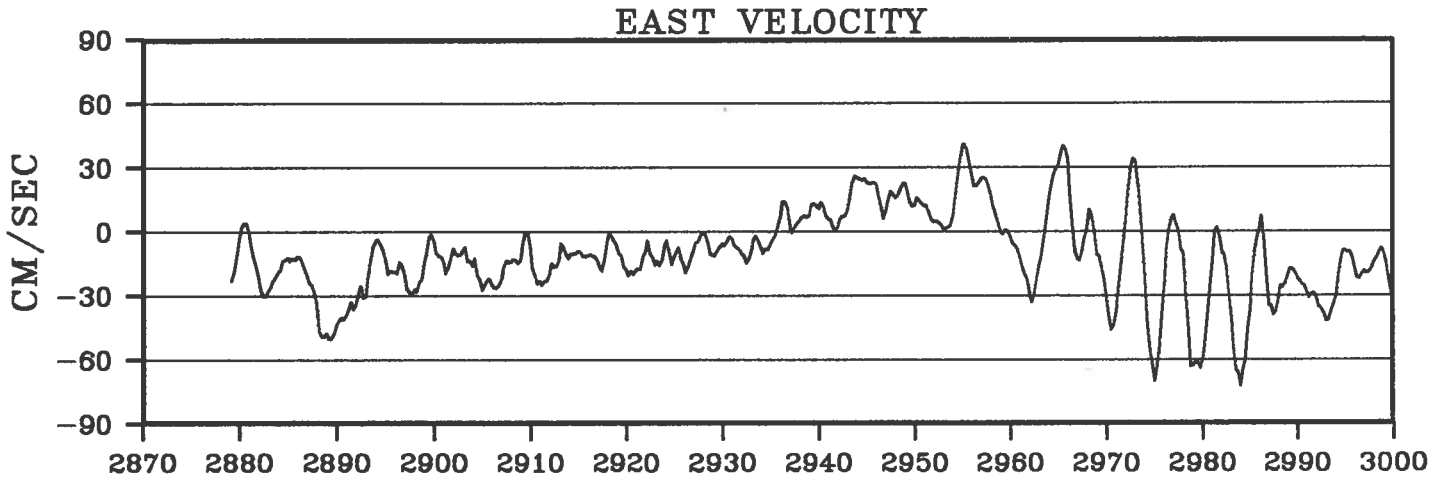
BUOY 3130



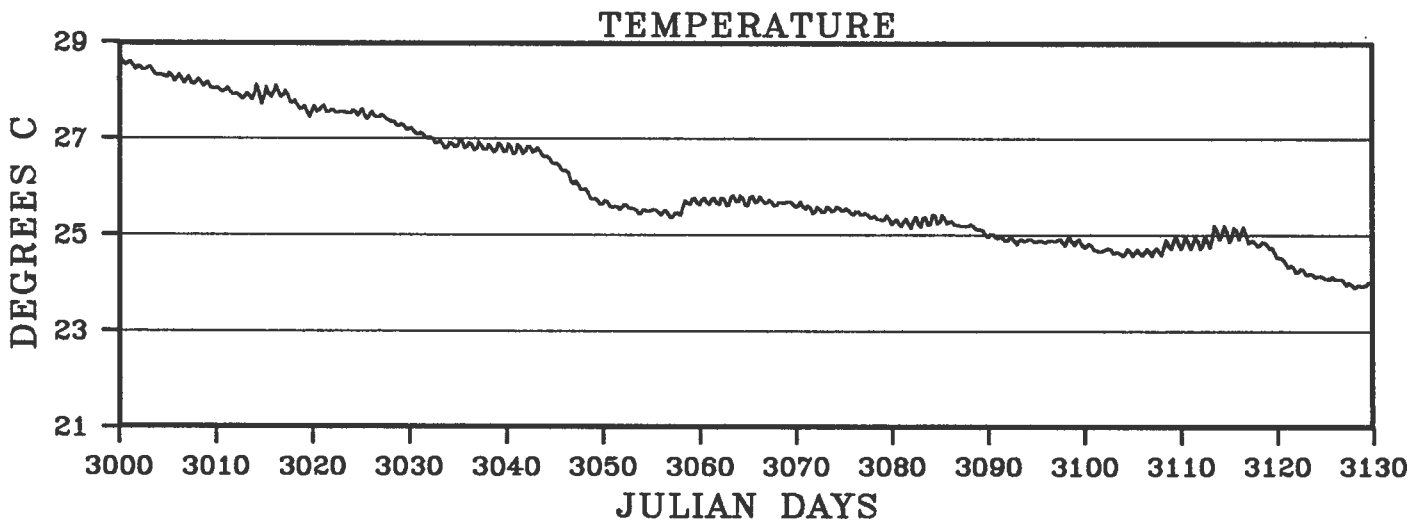
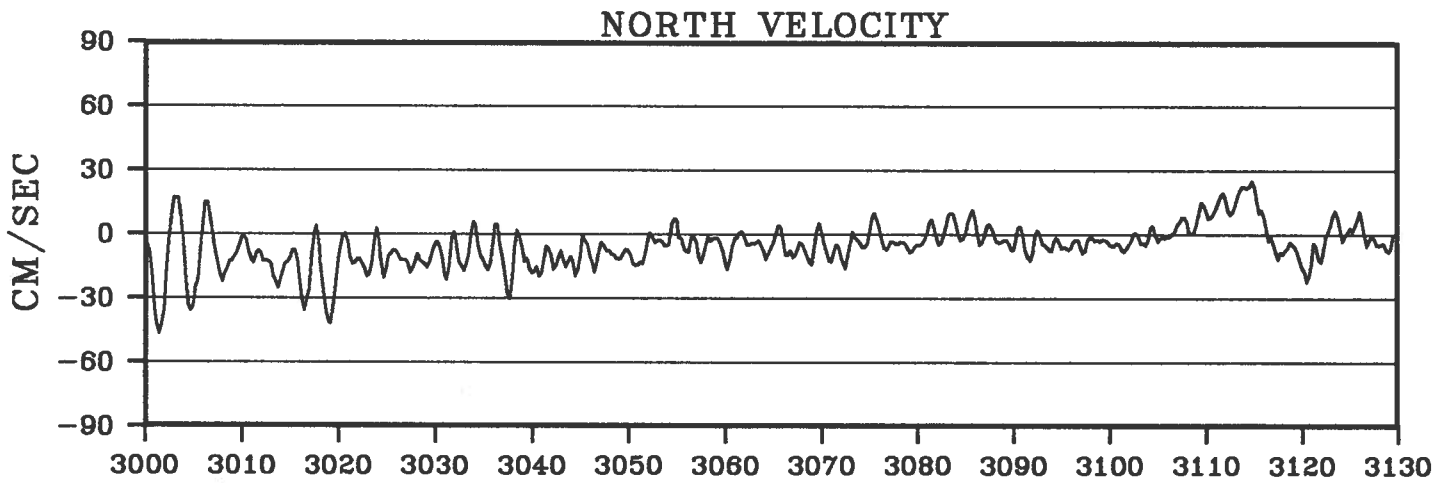
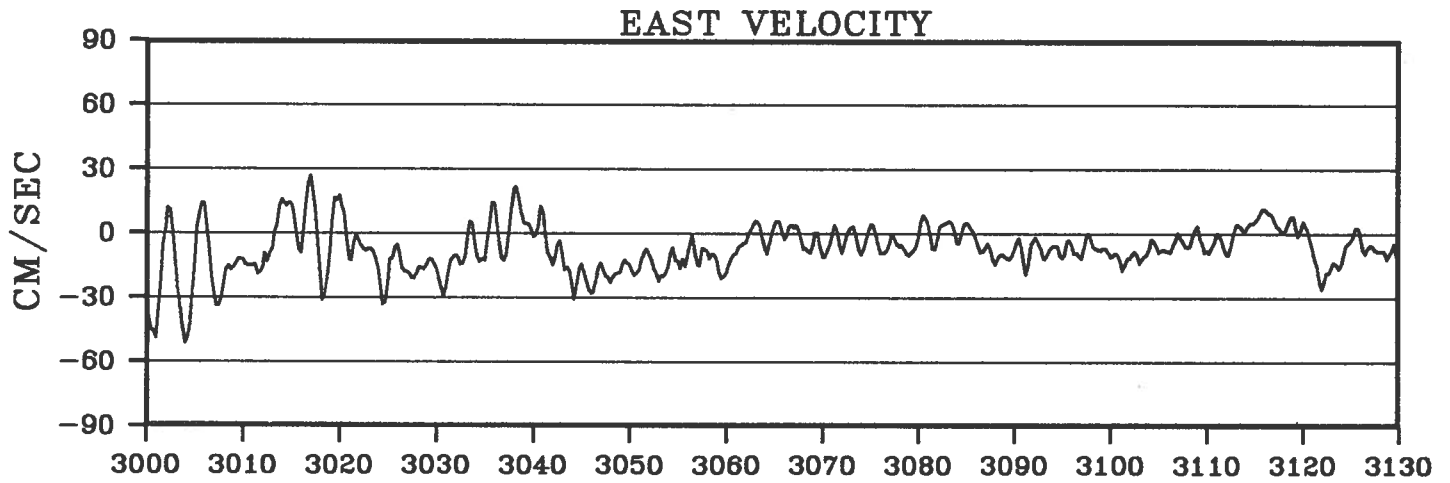
BUOY 3131



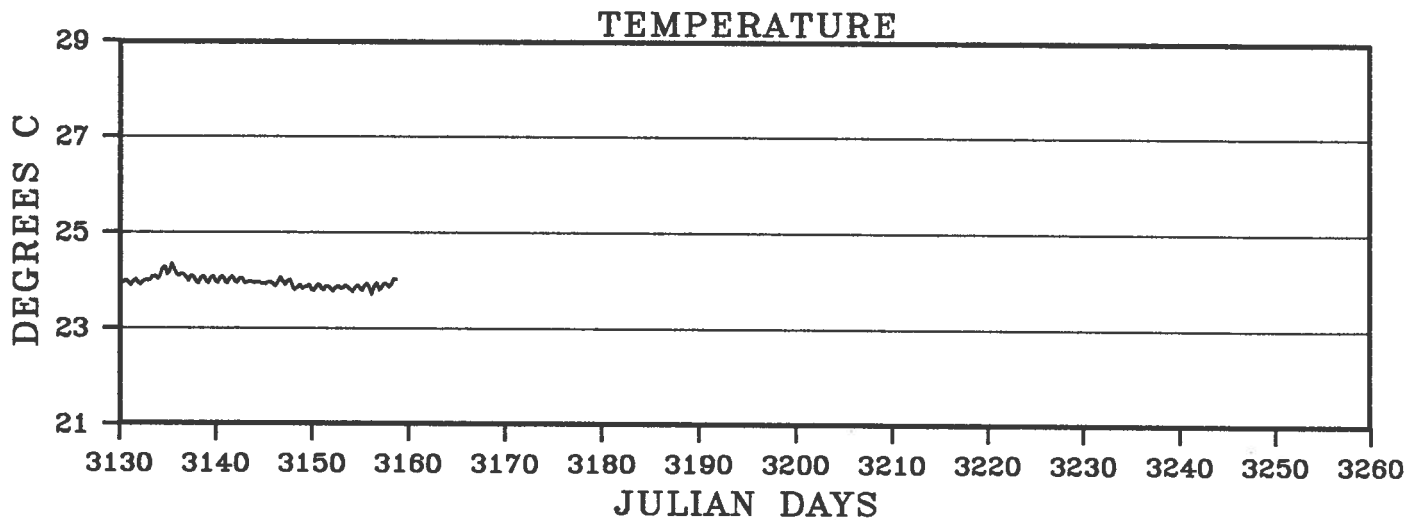
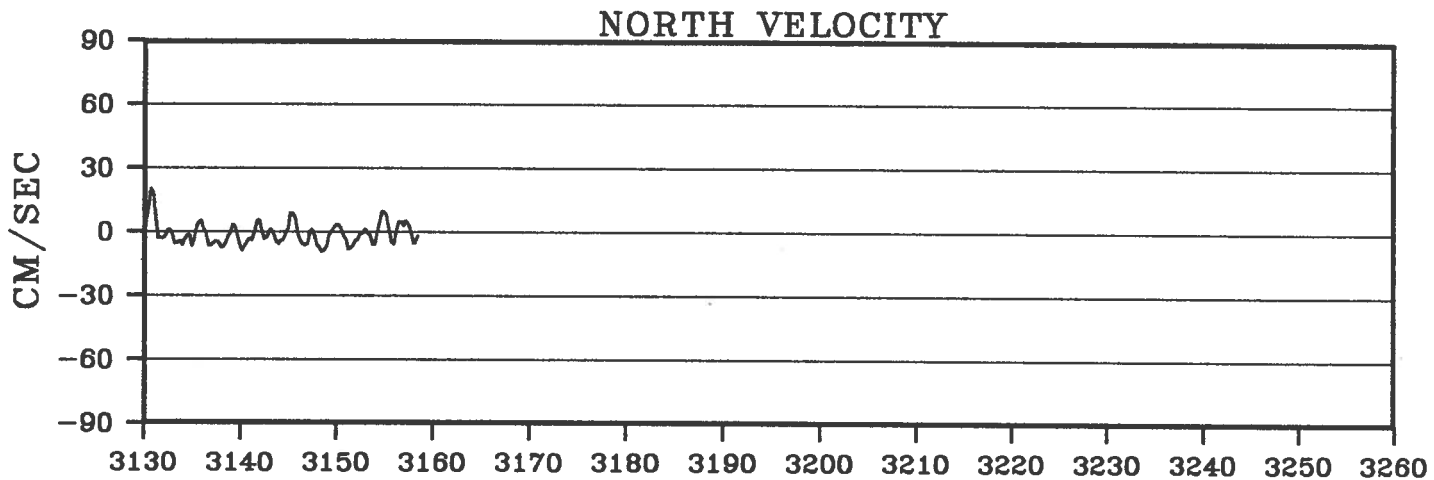
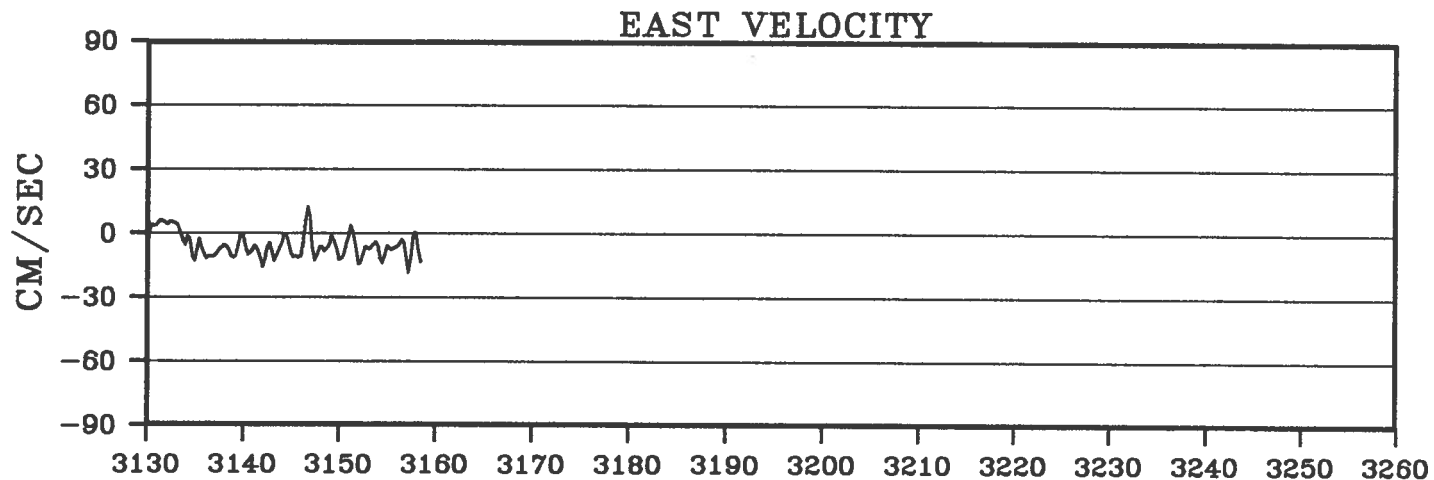
BUOY 3131



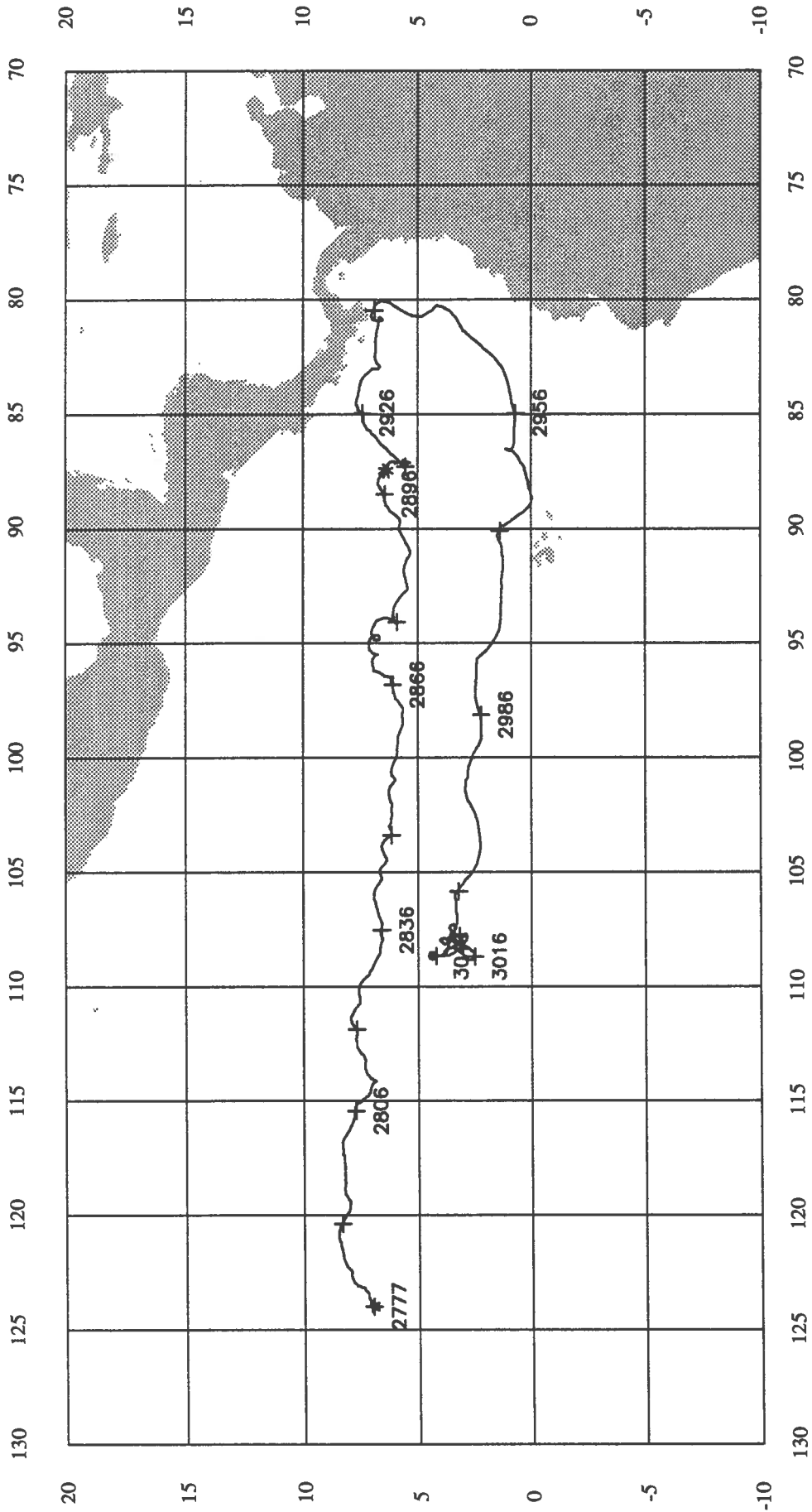
BUOY 3131



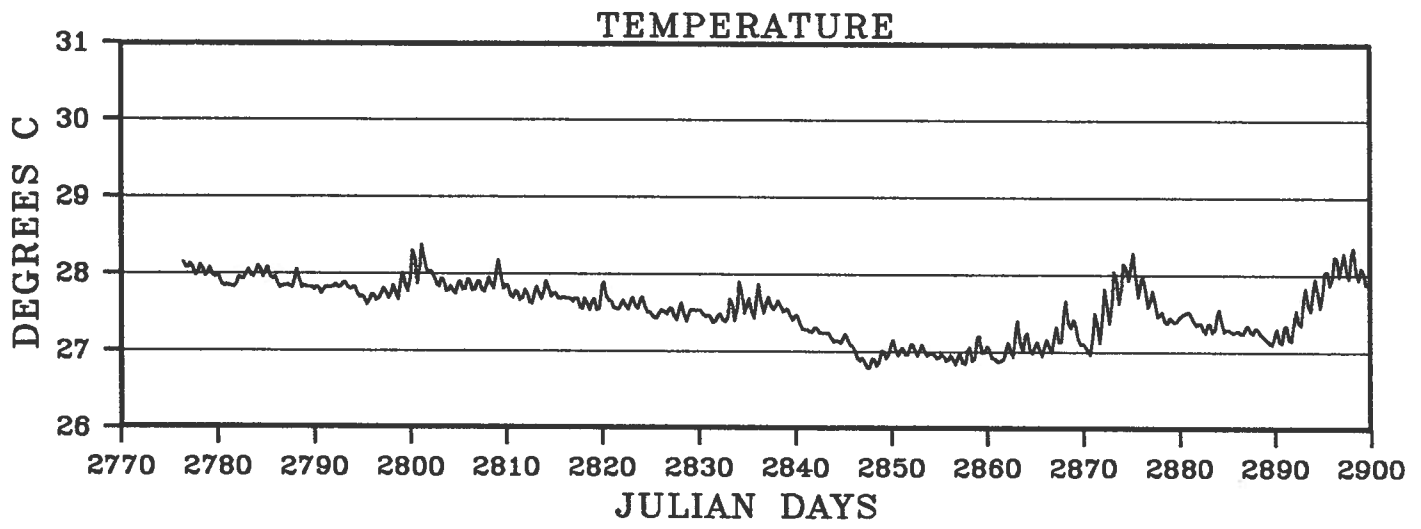
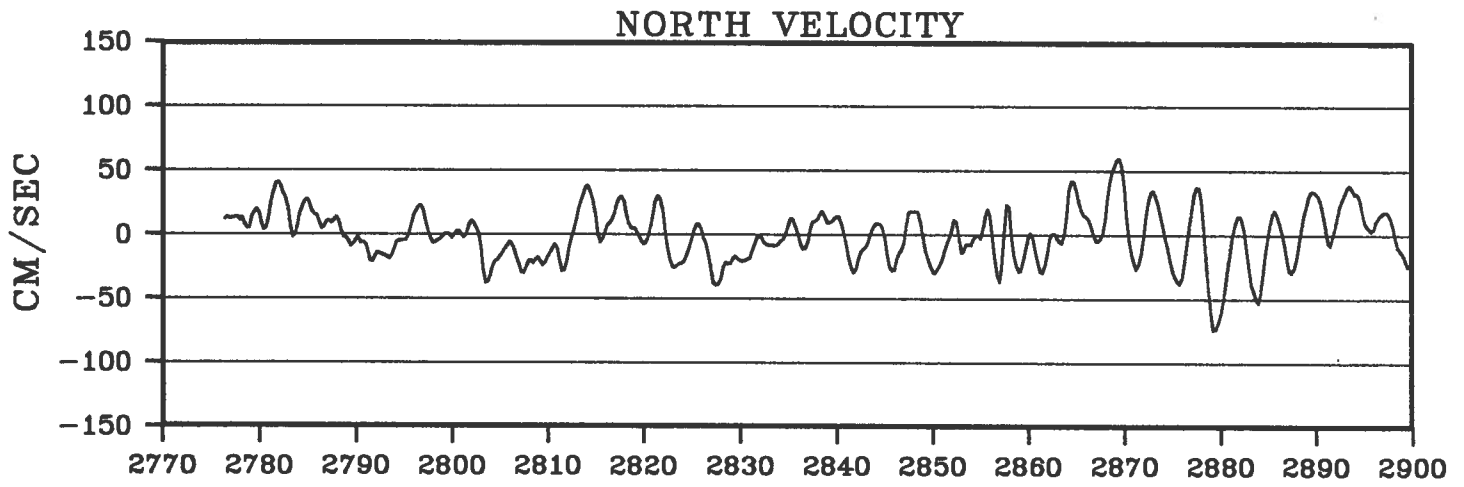
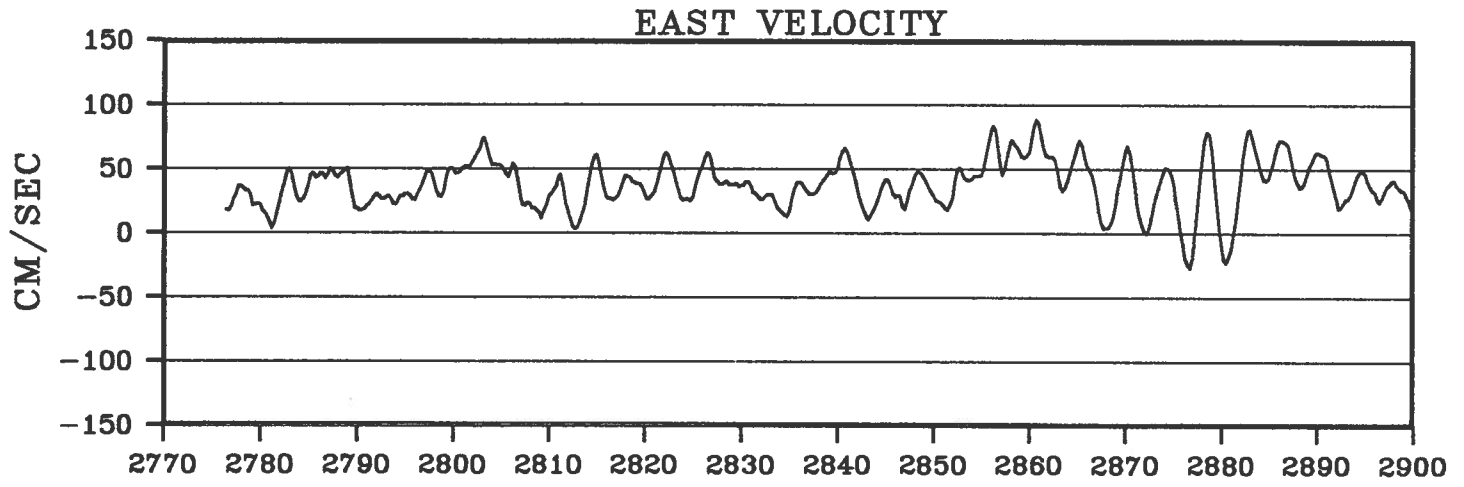
BUOY 3131



BUOY 3134

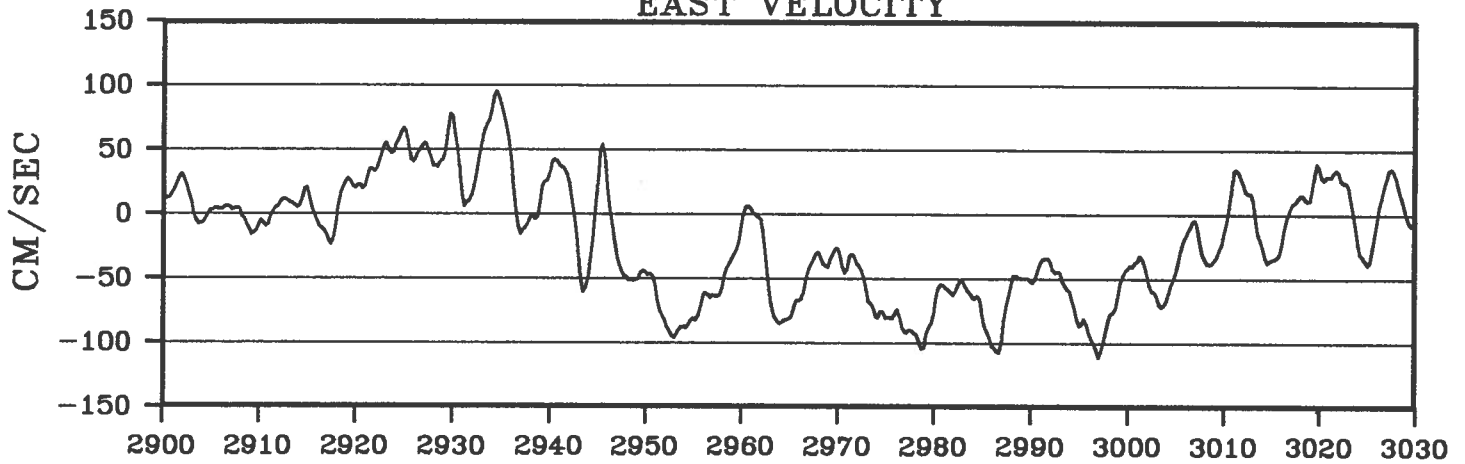


BUOY 3134

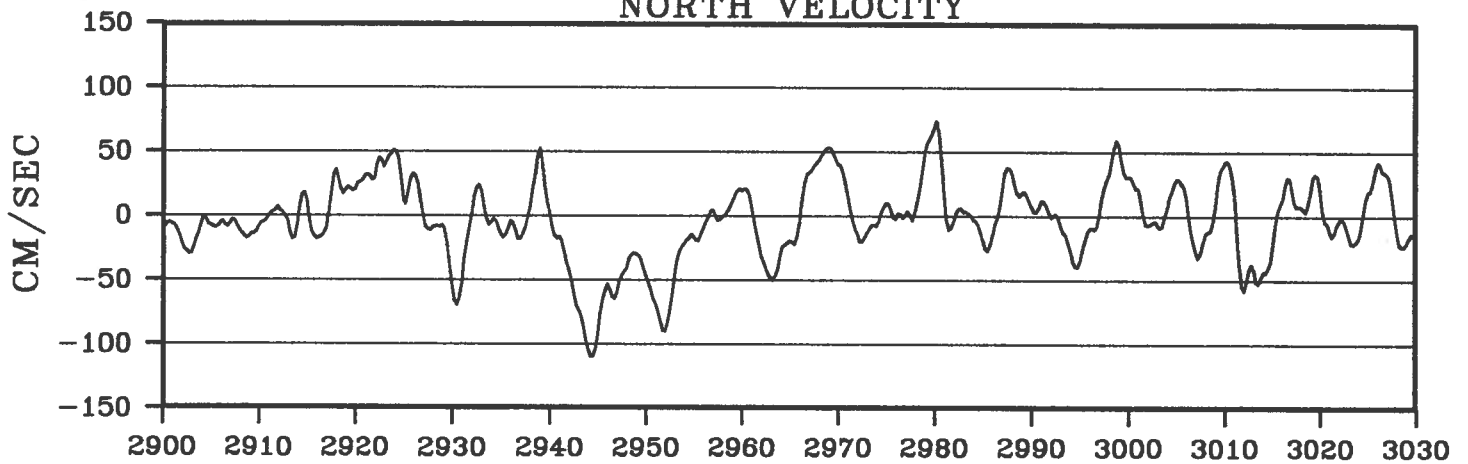


BUOY 3134

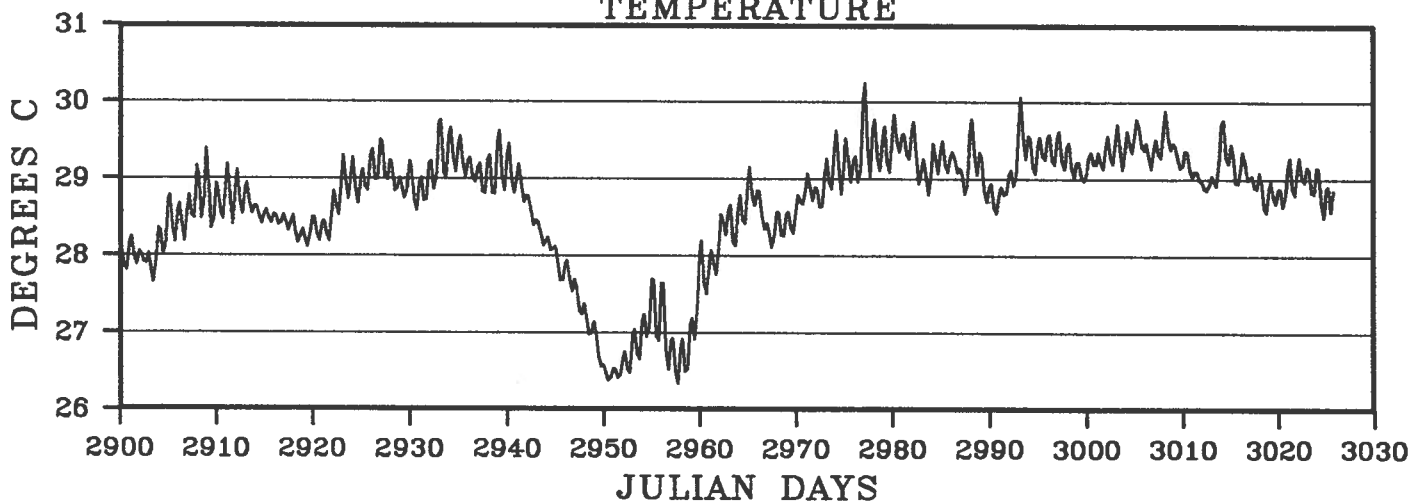
EAST VELOCITY



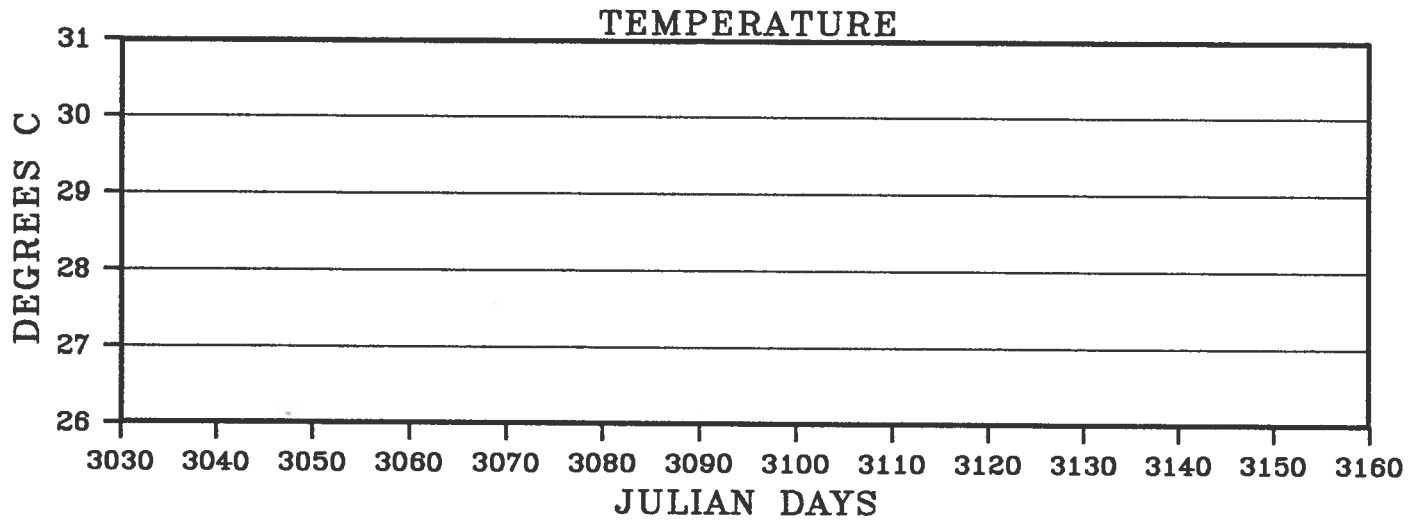
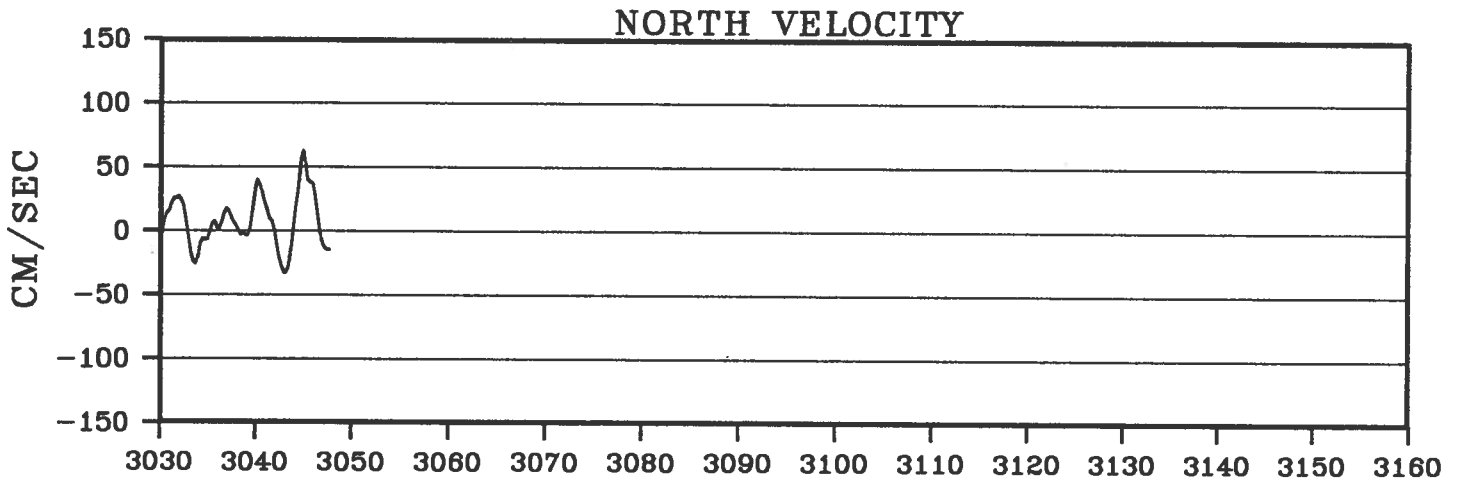
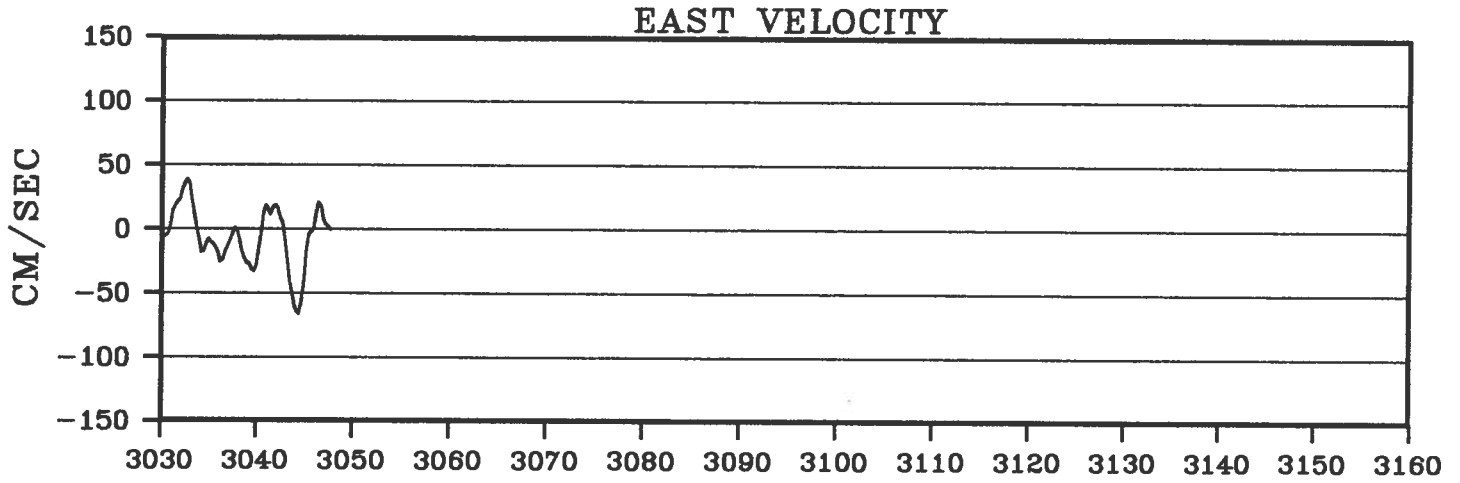
NORTH VELOCITY



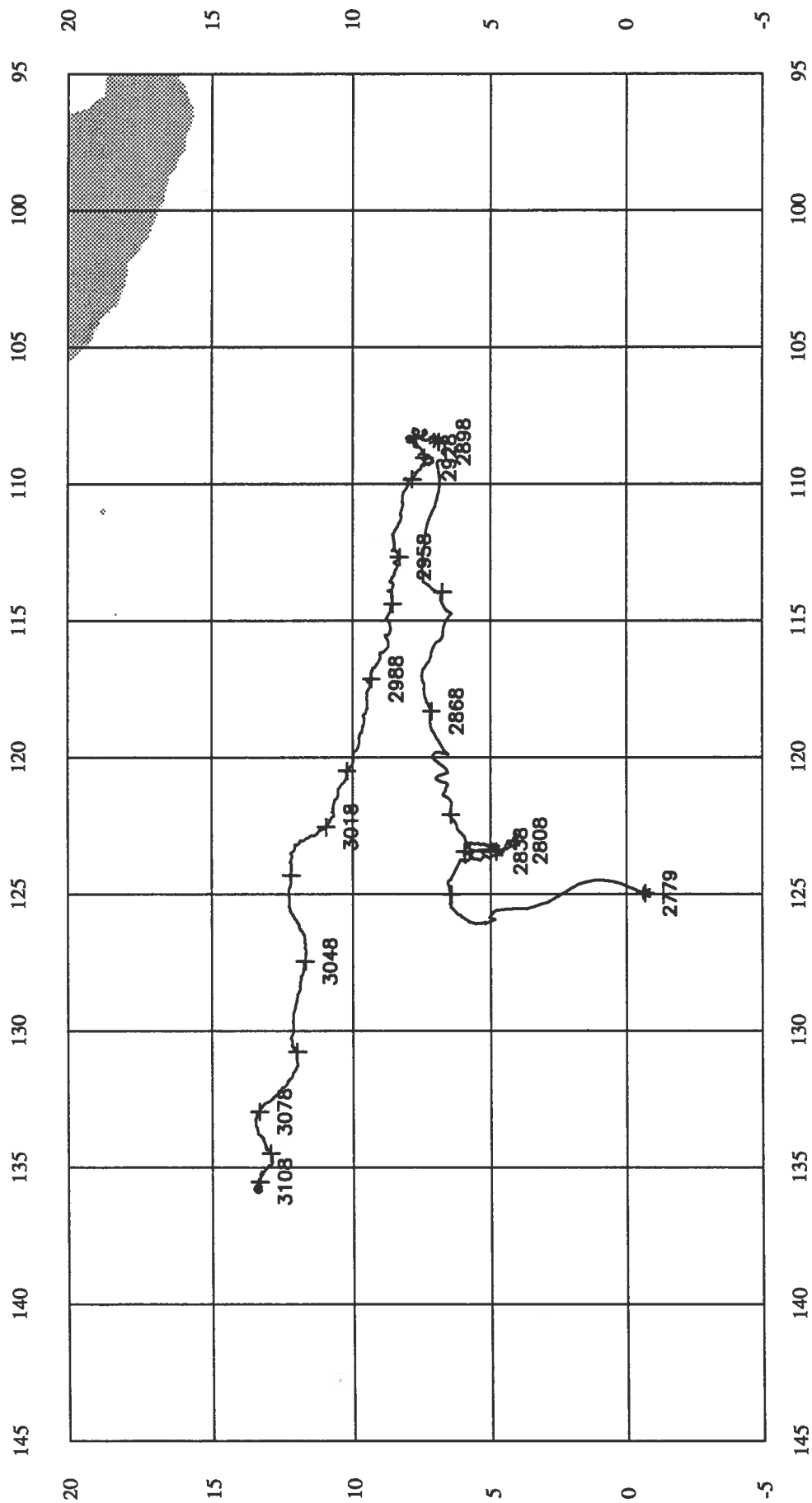
TEMPERATURE



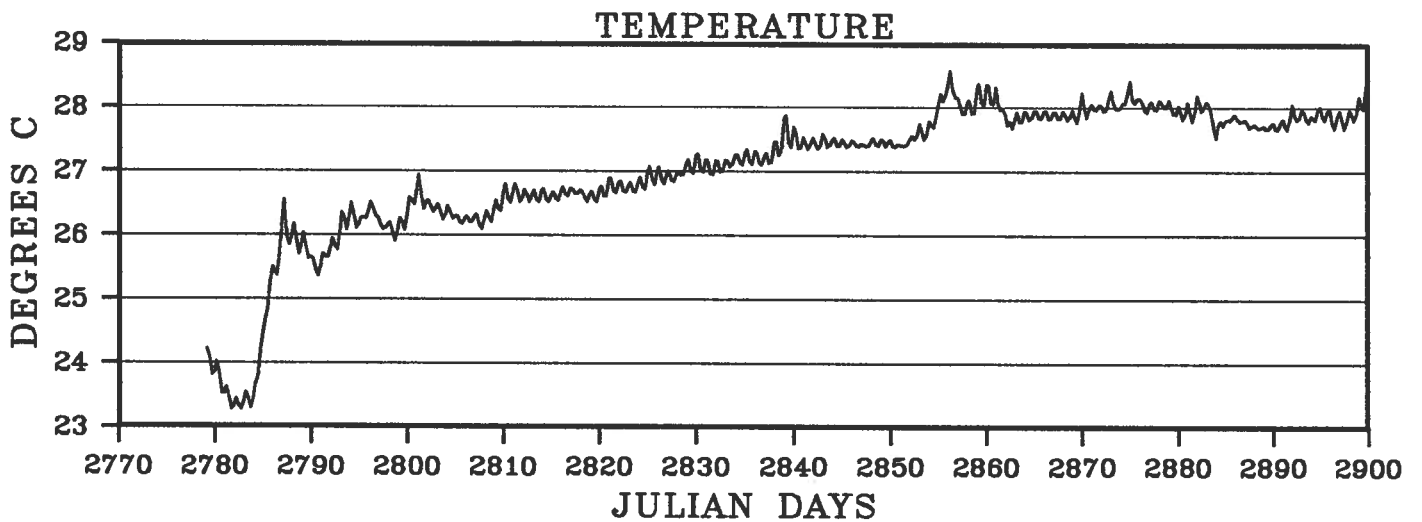
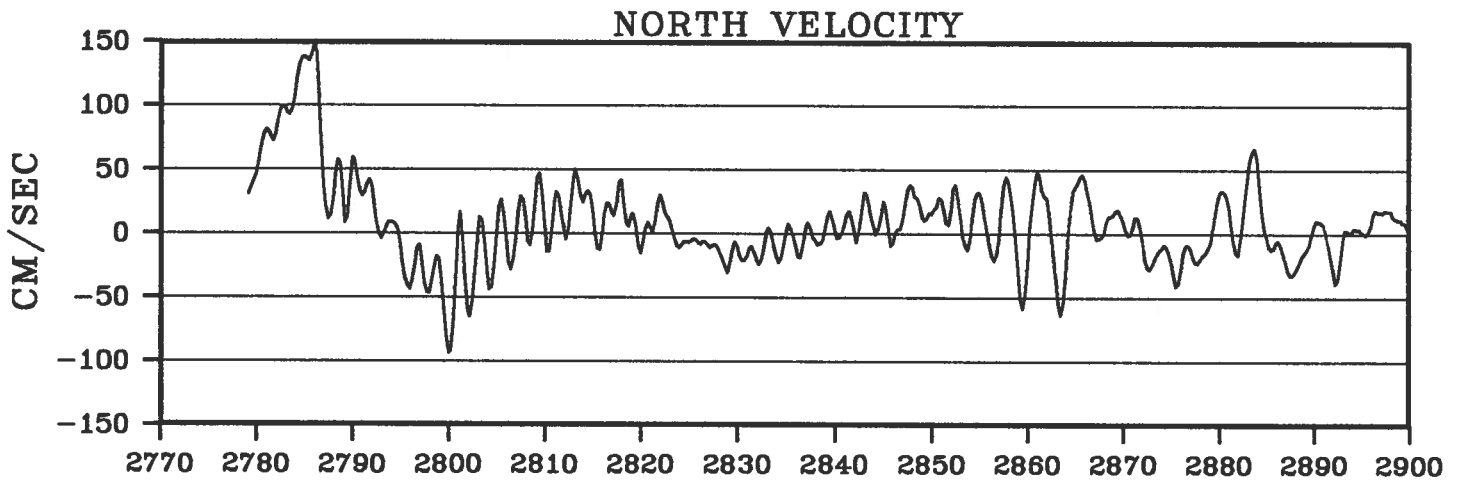
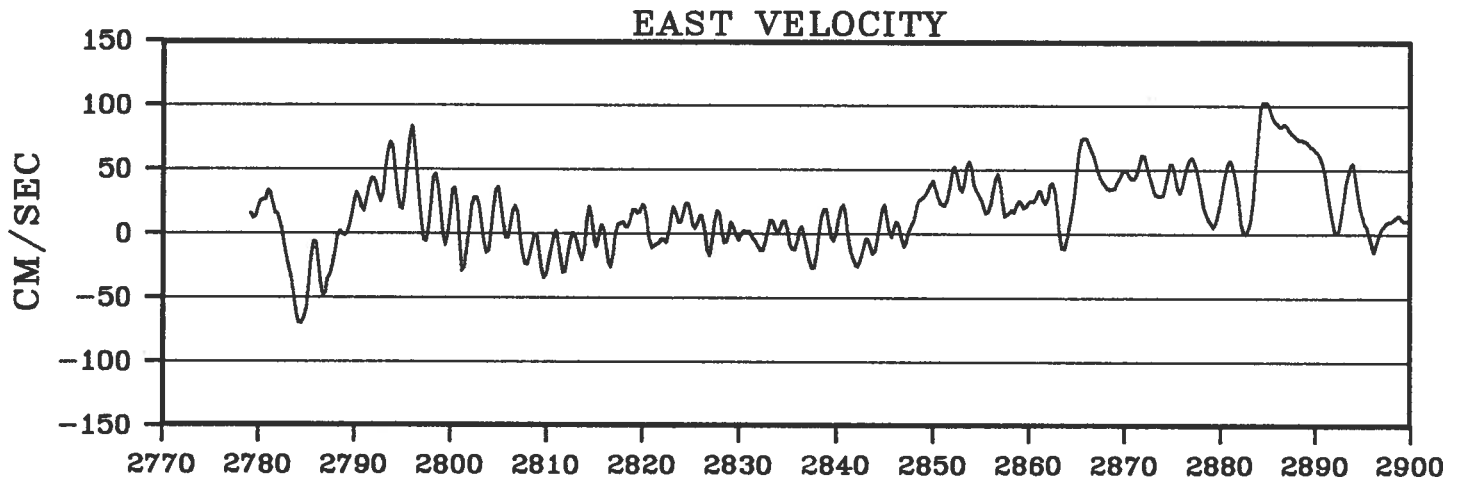
BUOY 3134



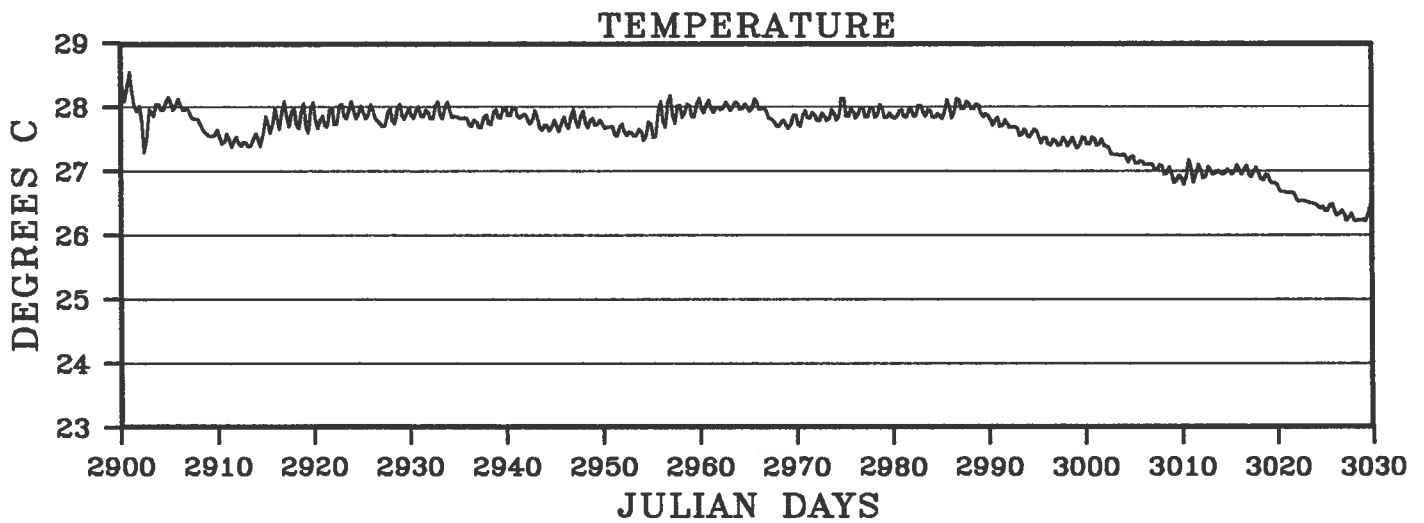
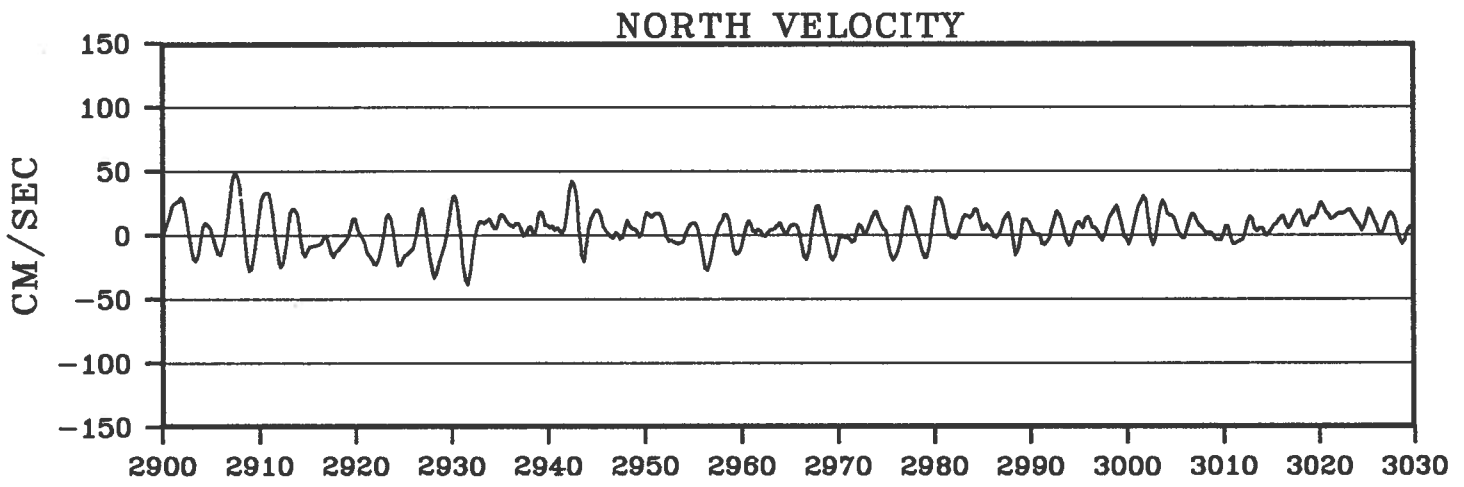
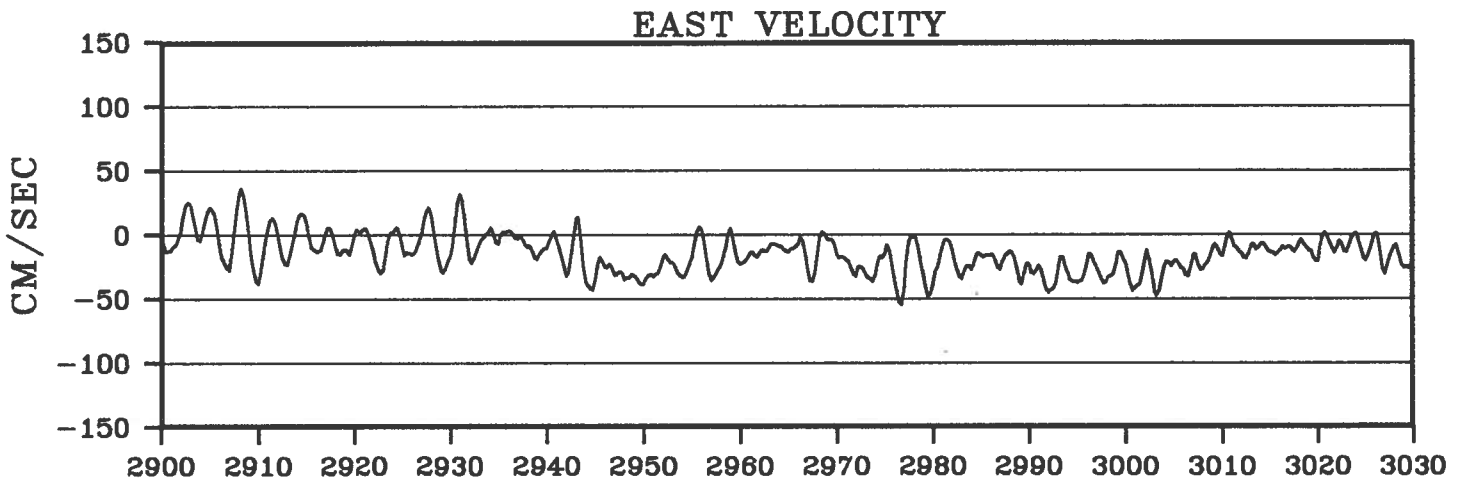
BUOY 3135



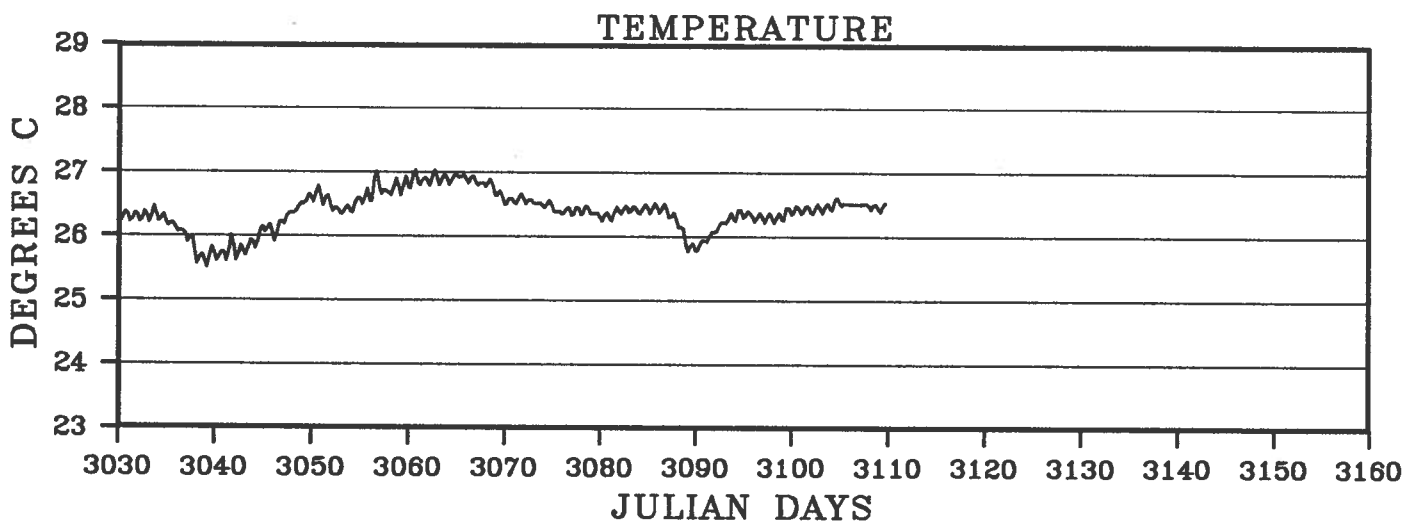
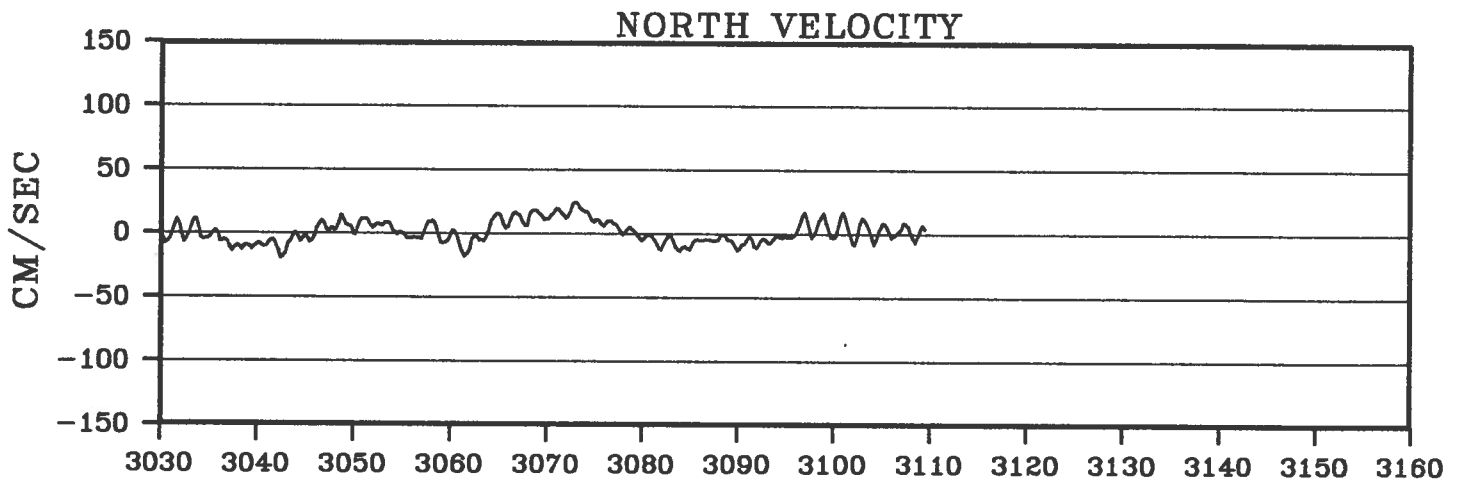
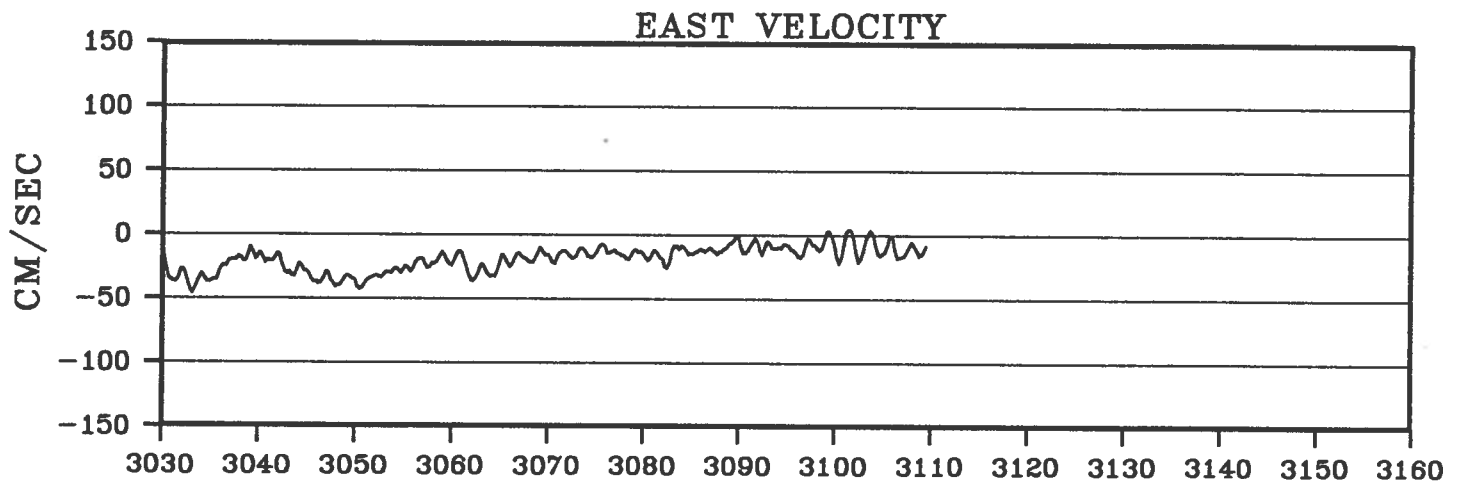
BUOY 3135



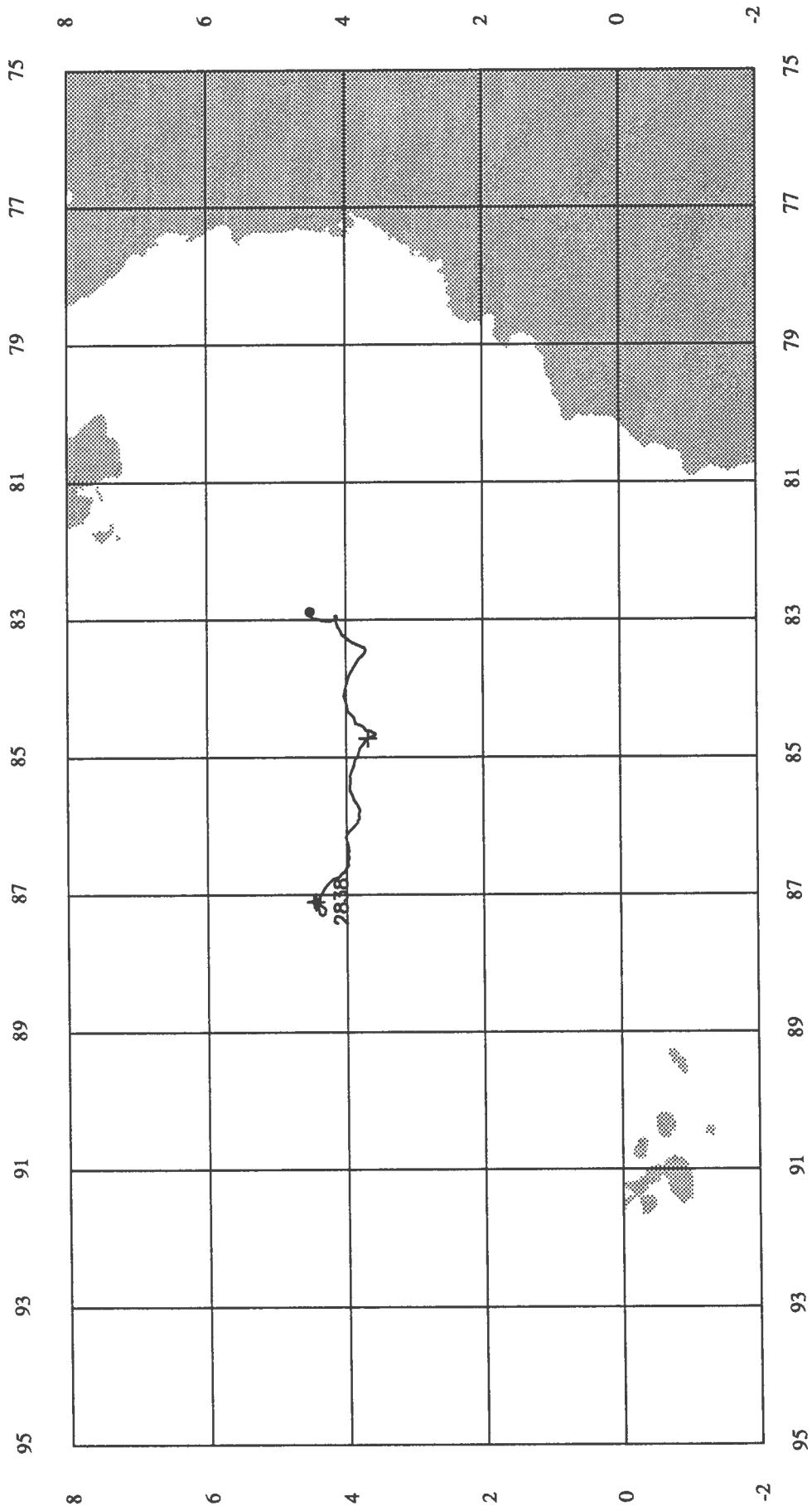
BUOY 3135



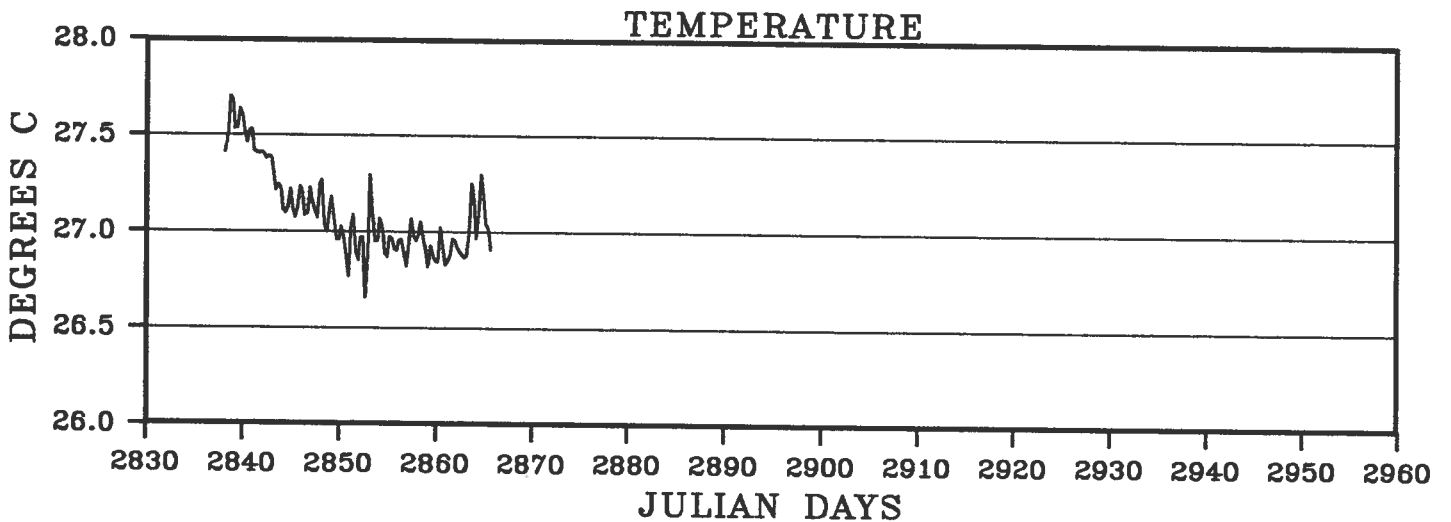
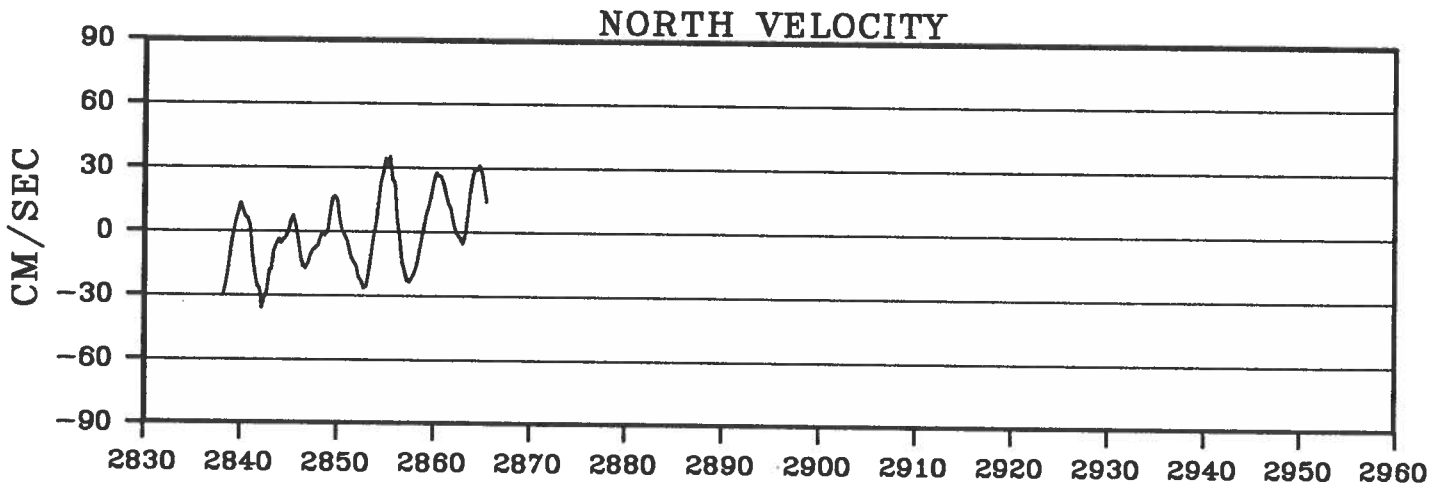
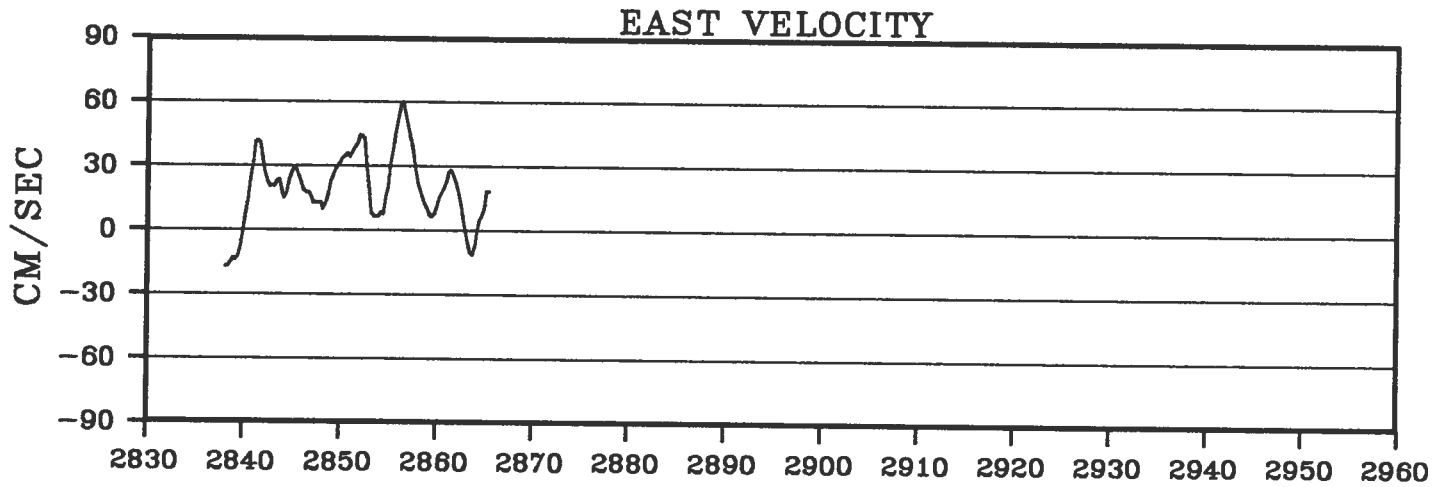
BUOY 3135



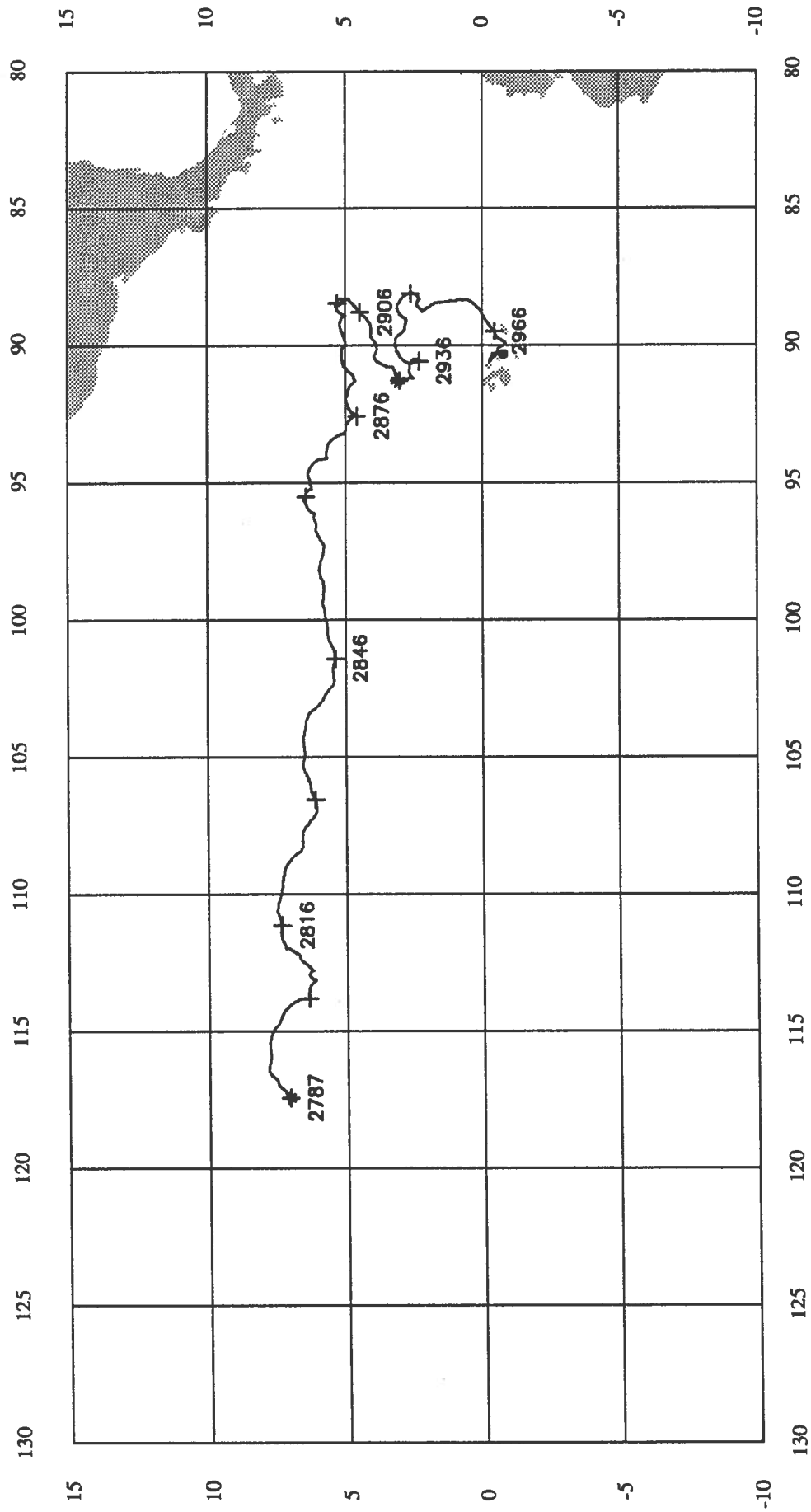
BUOY 3136



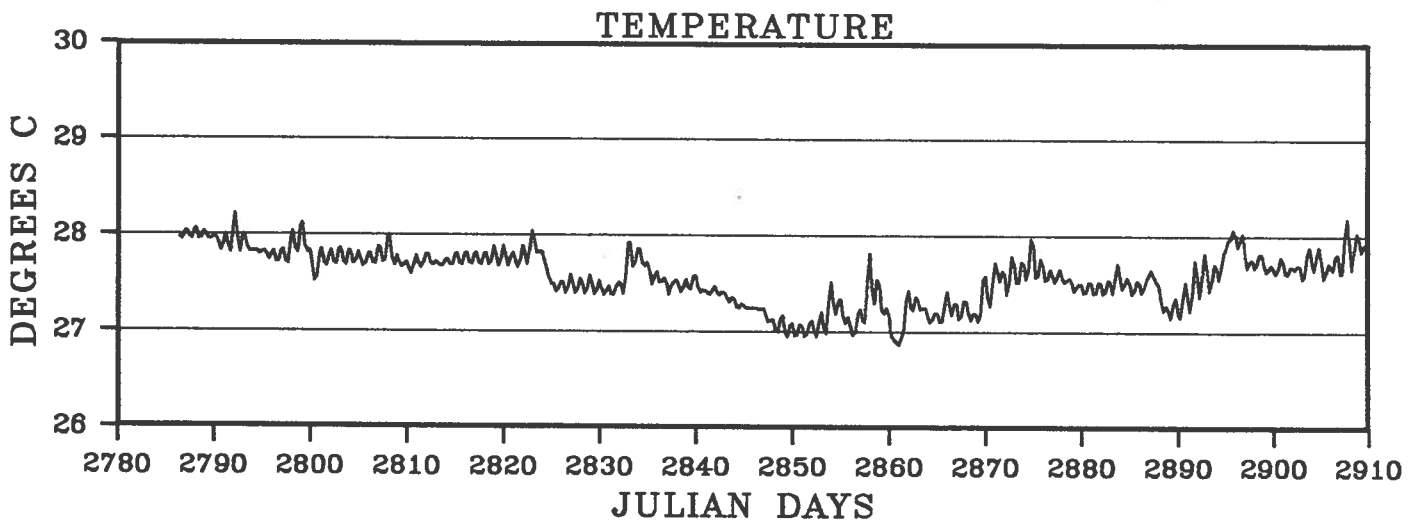
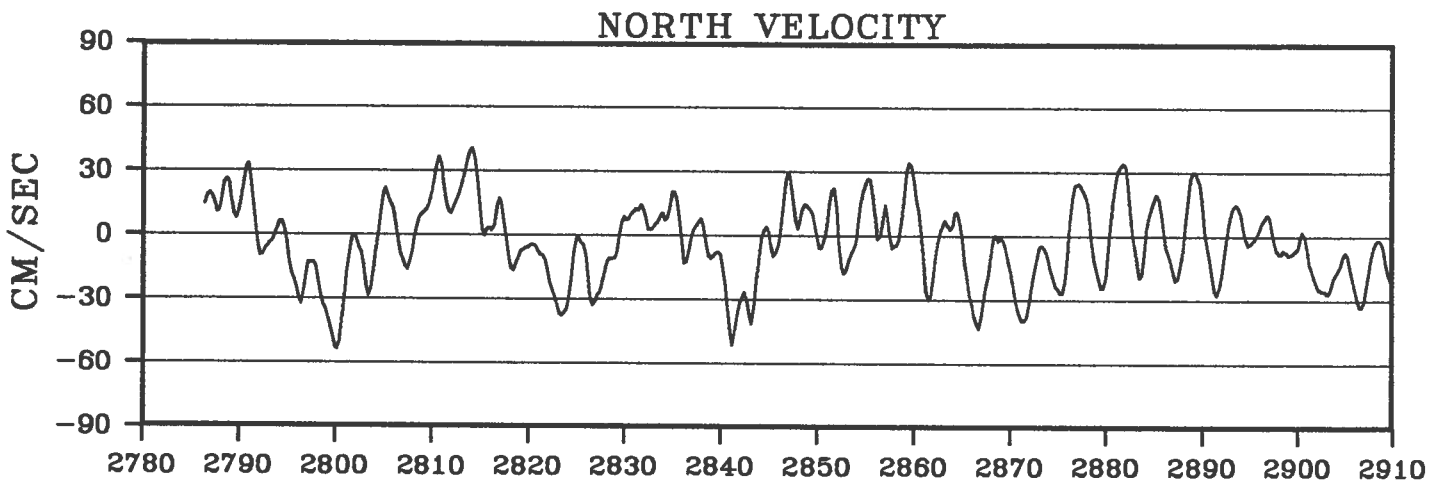
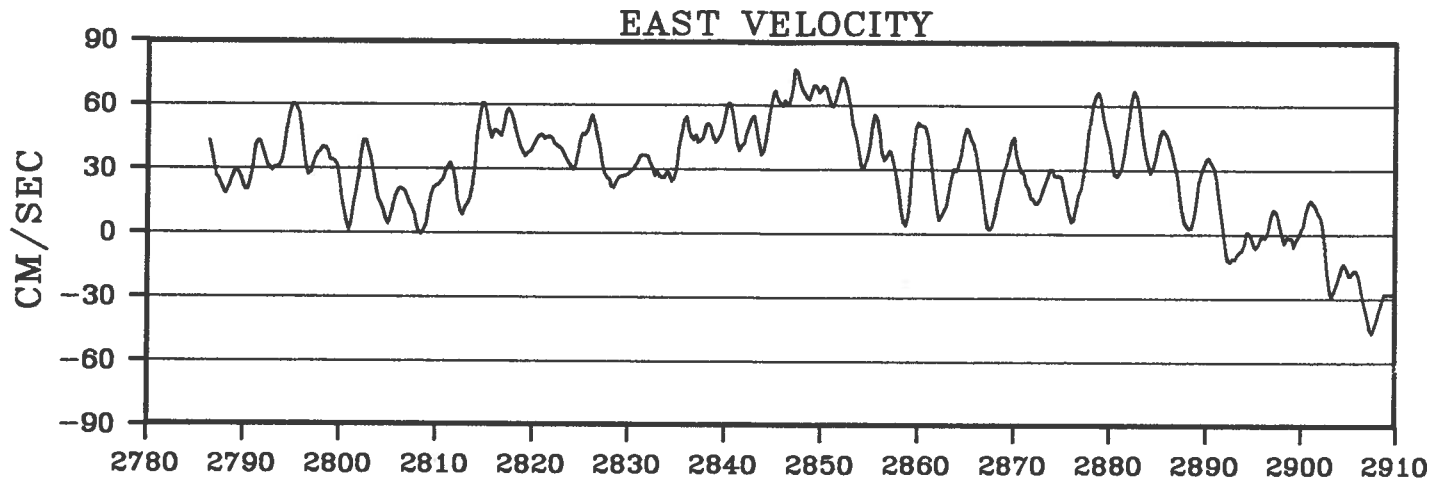
BUOY 3136



BUOY 3137

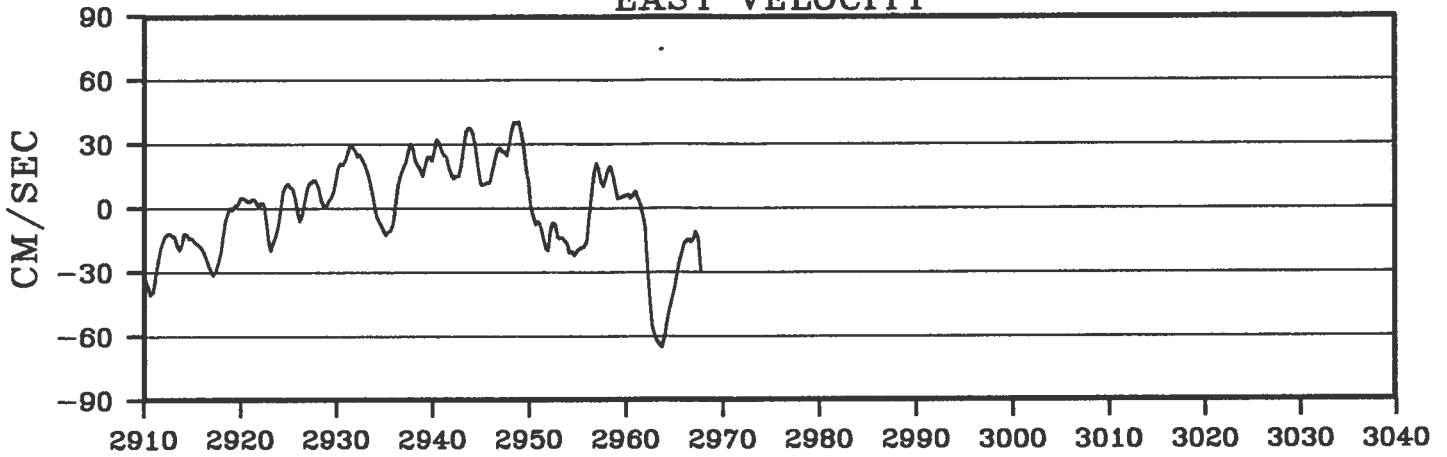


BUOY 3137

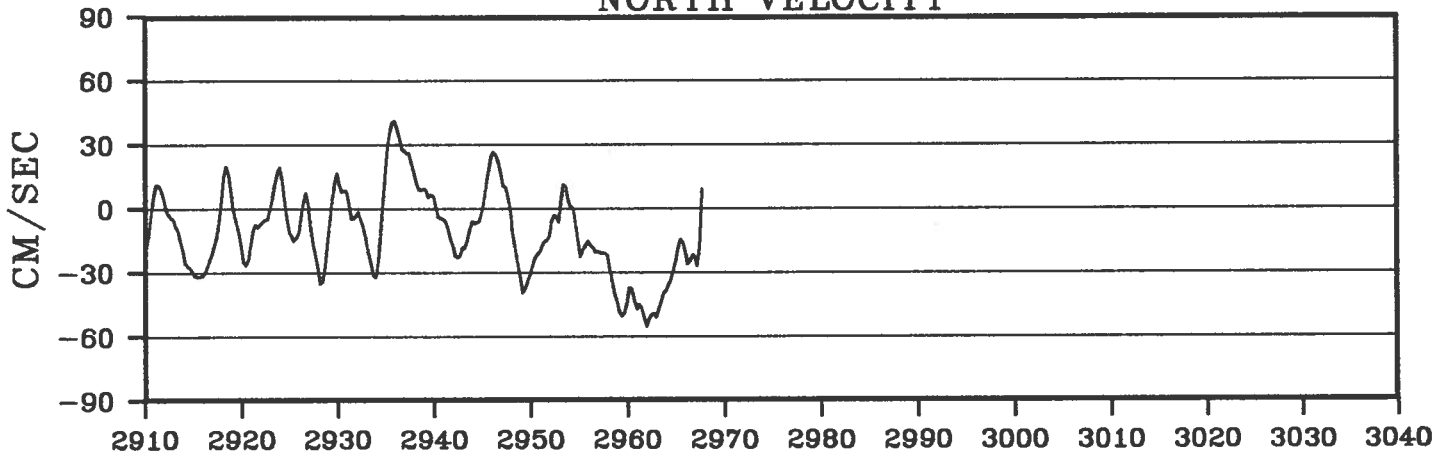


BUOY 3137

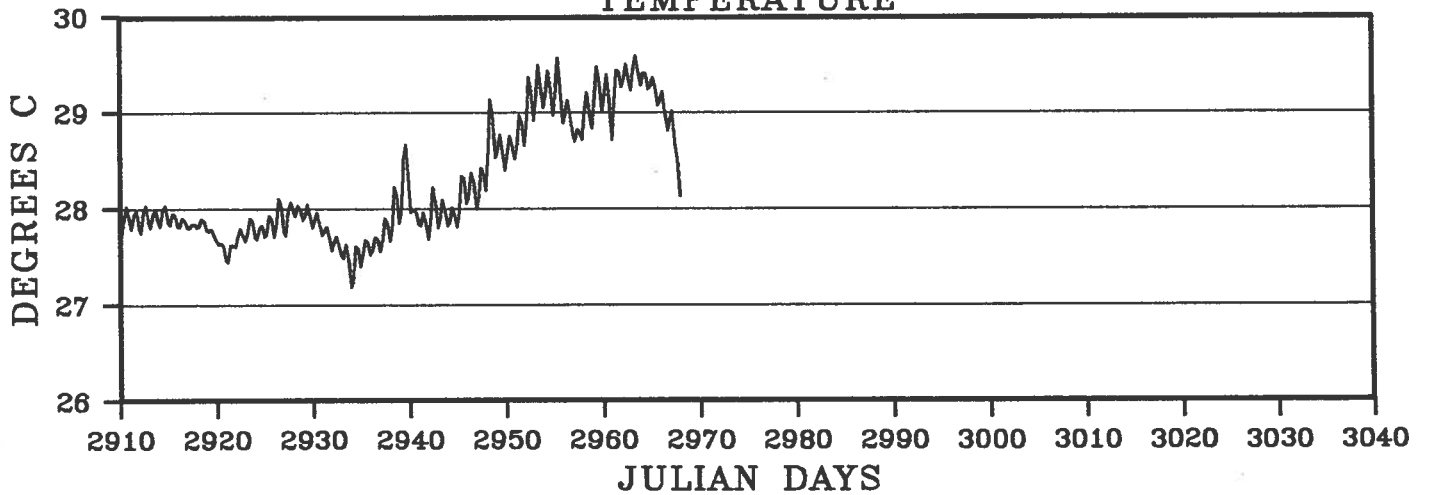
EAST VELOCITY



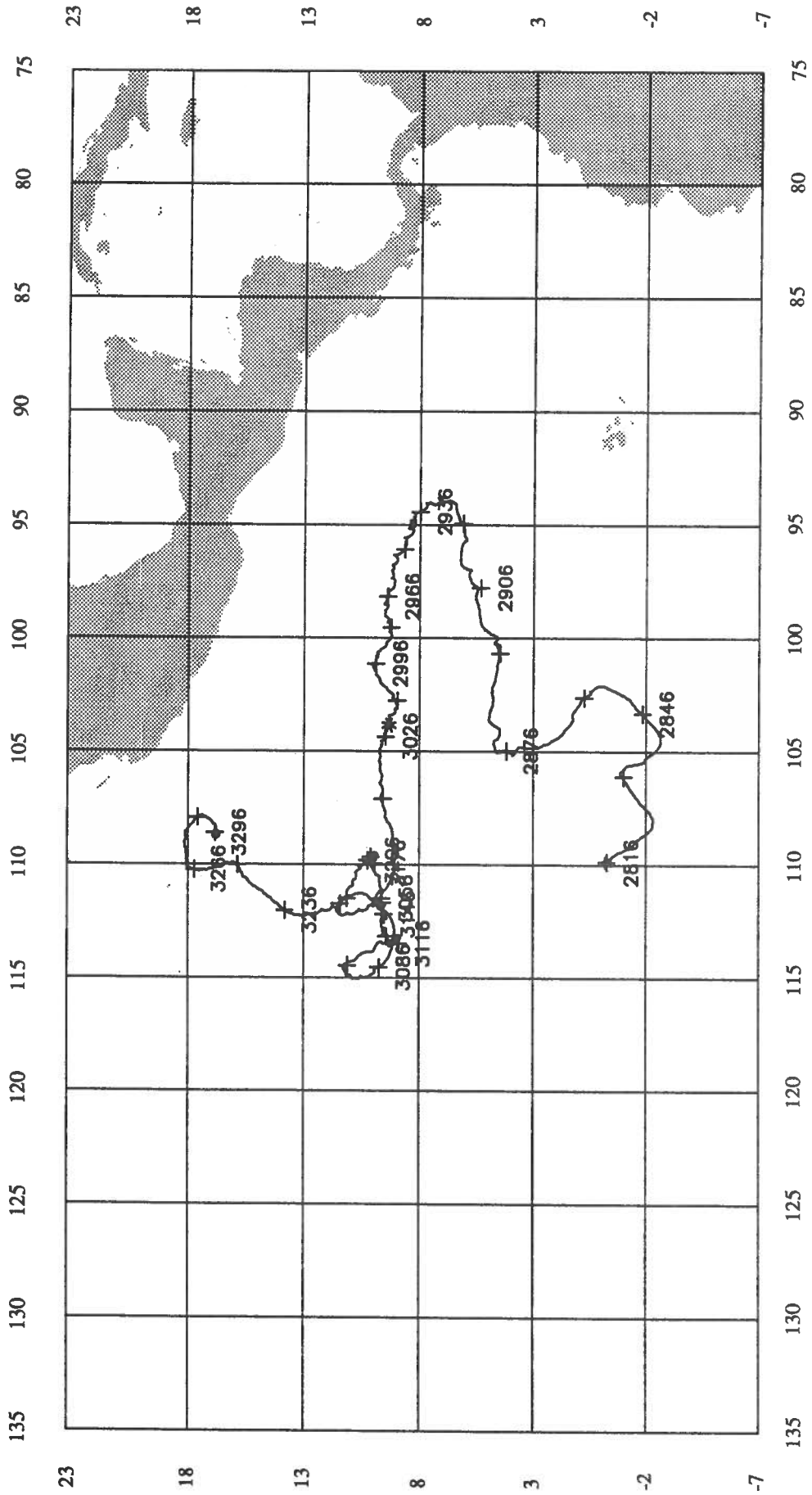
NORTH VELOCITY



TEMPERATURE

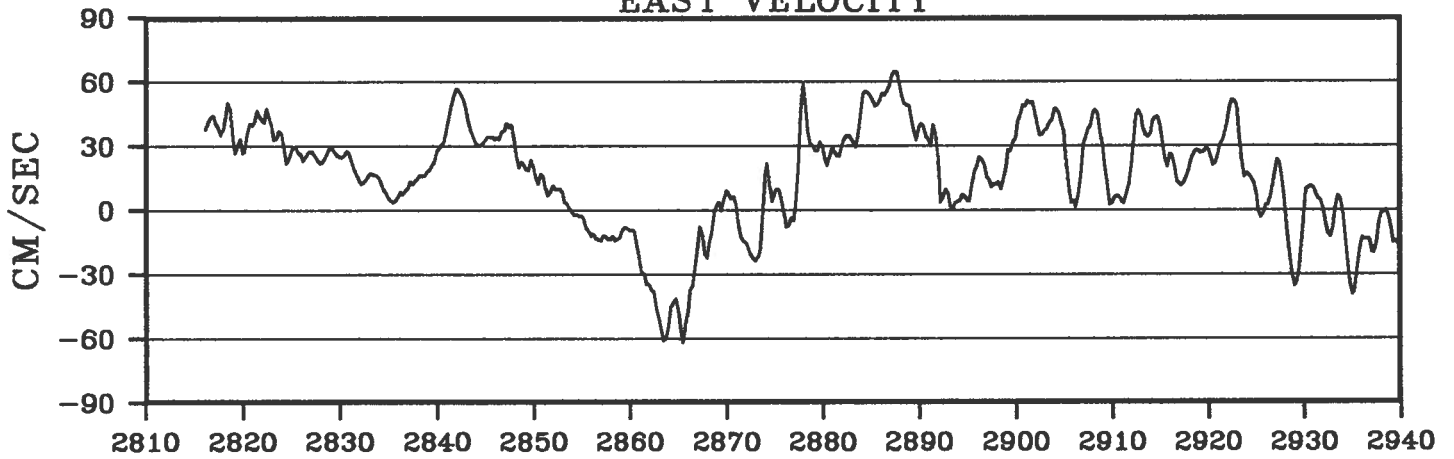


BUOY 3138

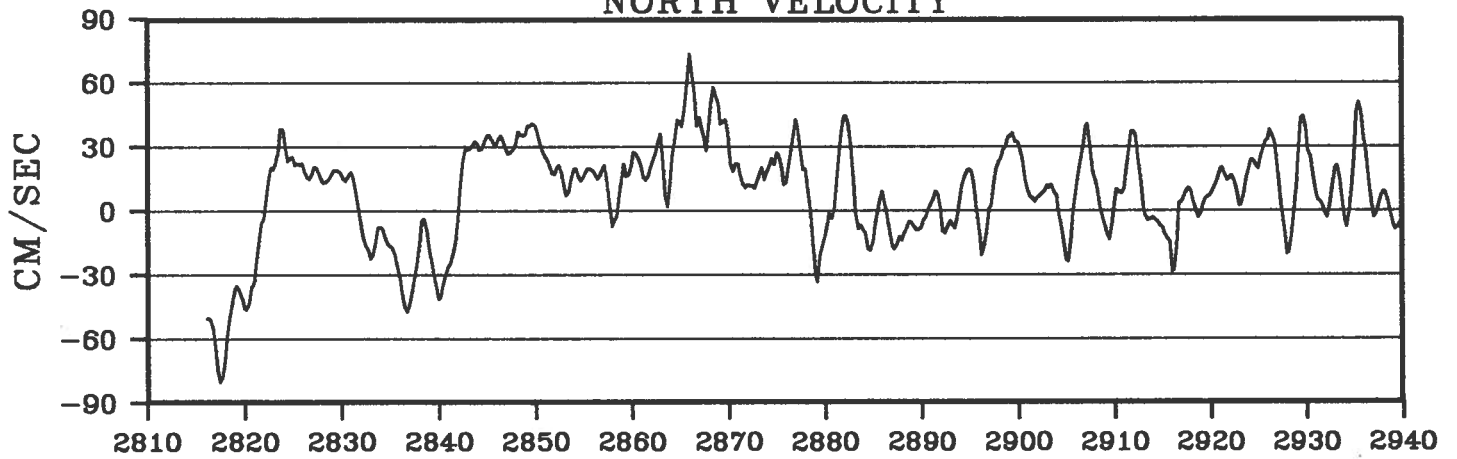


BUOY 3138

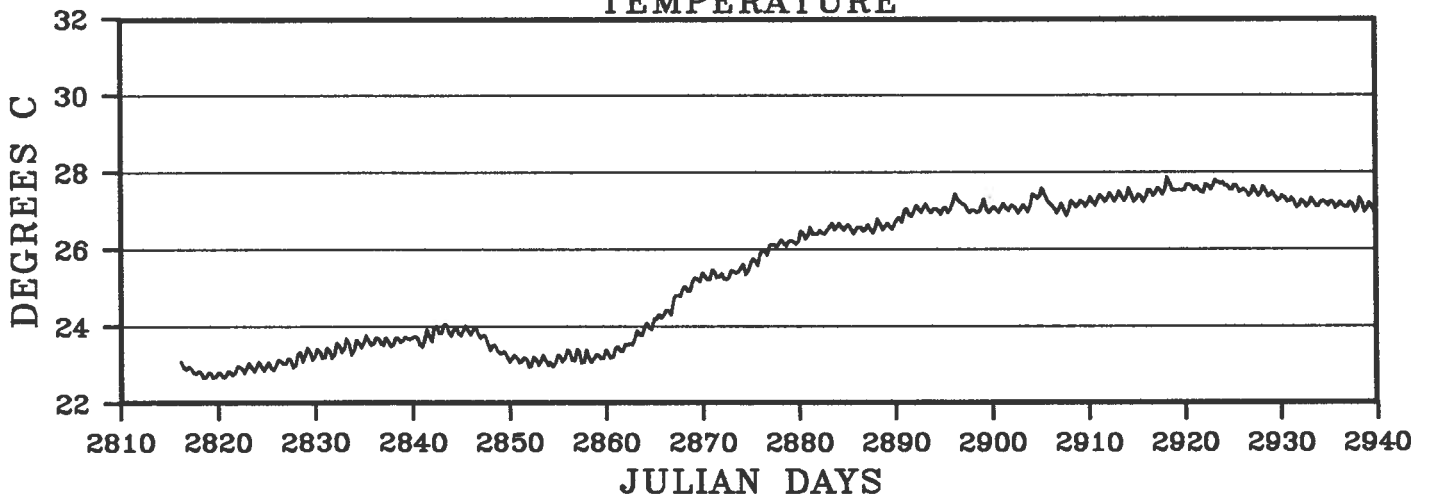
EAST VELOCITY



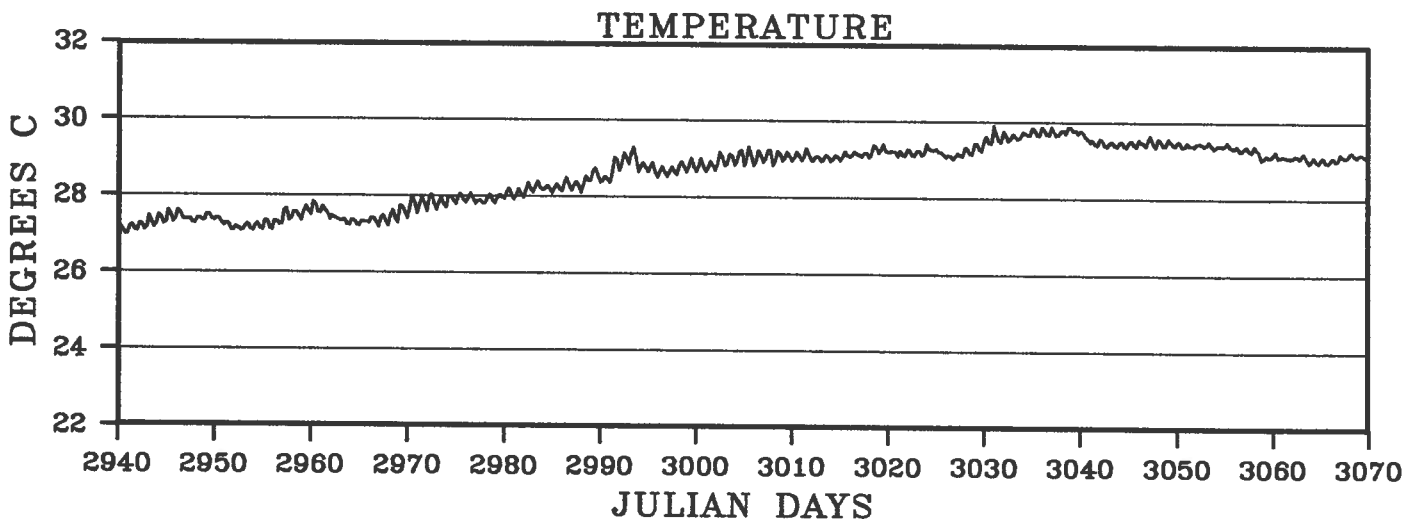
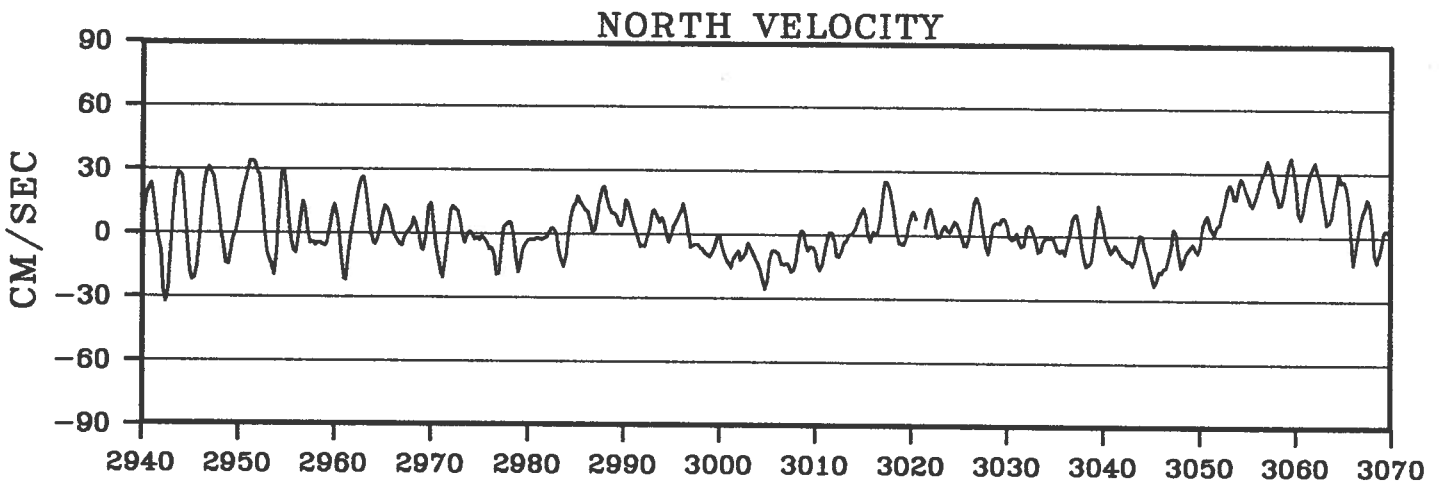
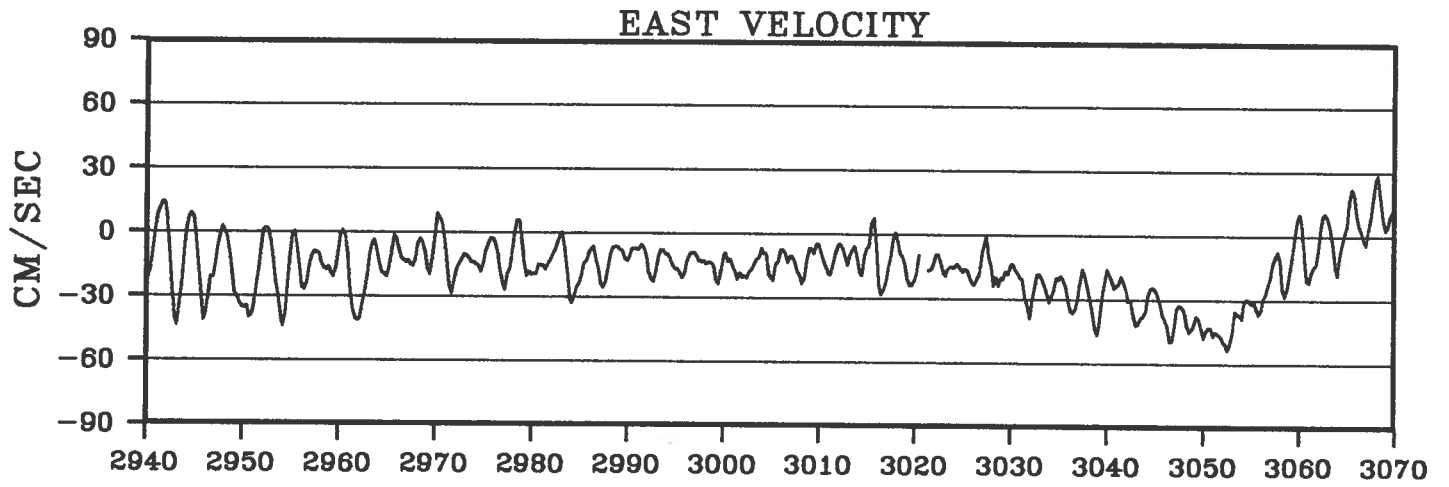
NORTH VELOCITY



TEMPERATURE

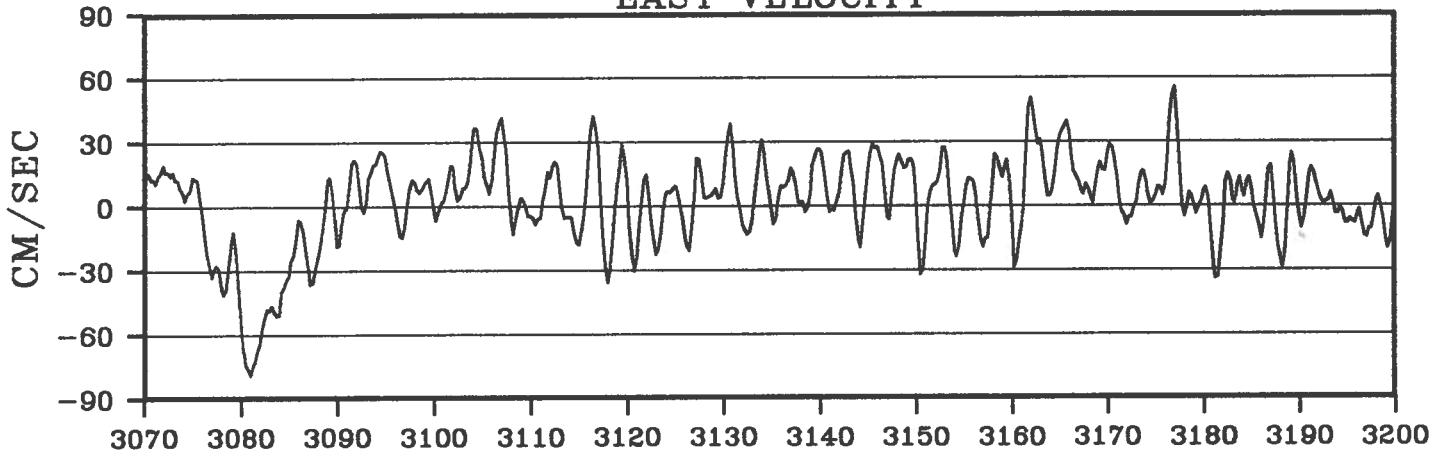


BUOY 3138

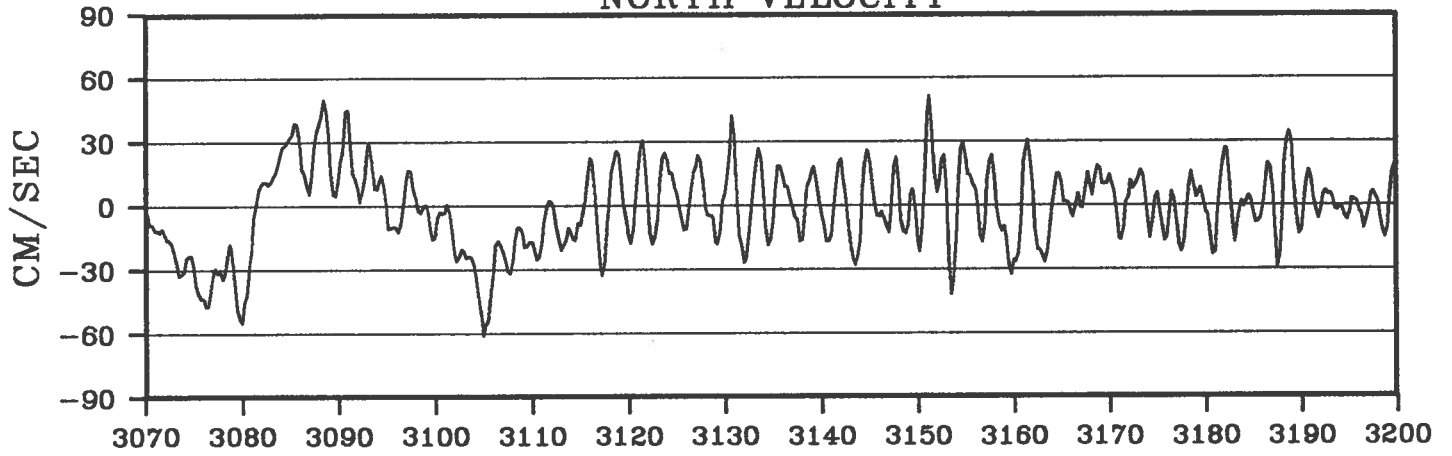


BUOY 3138

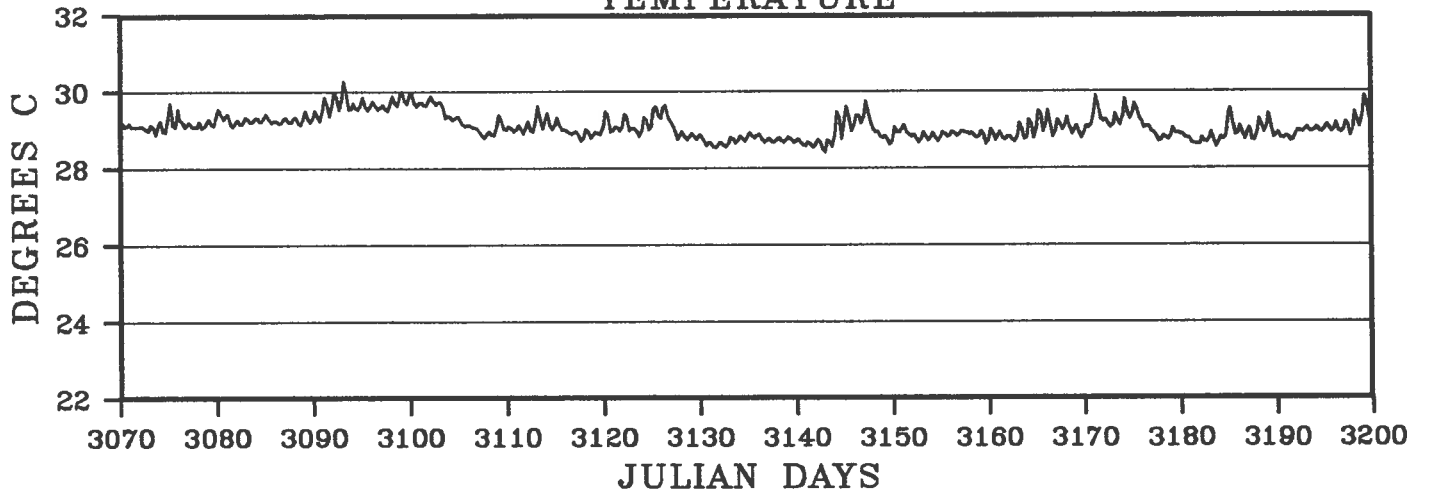
EAST VELOCITY



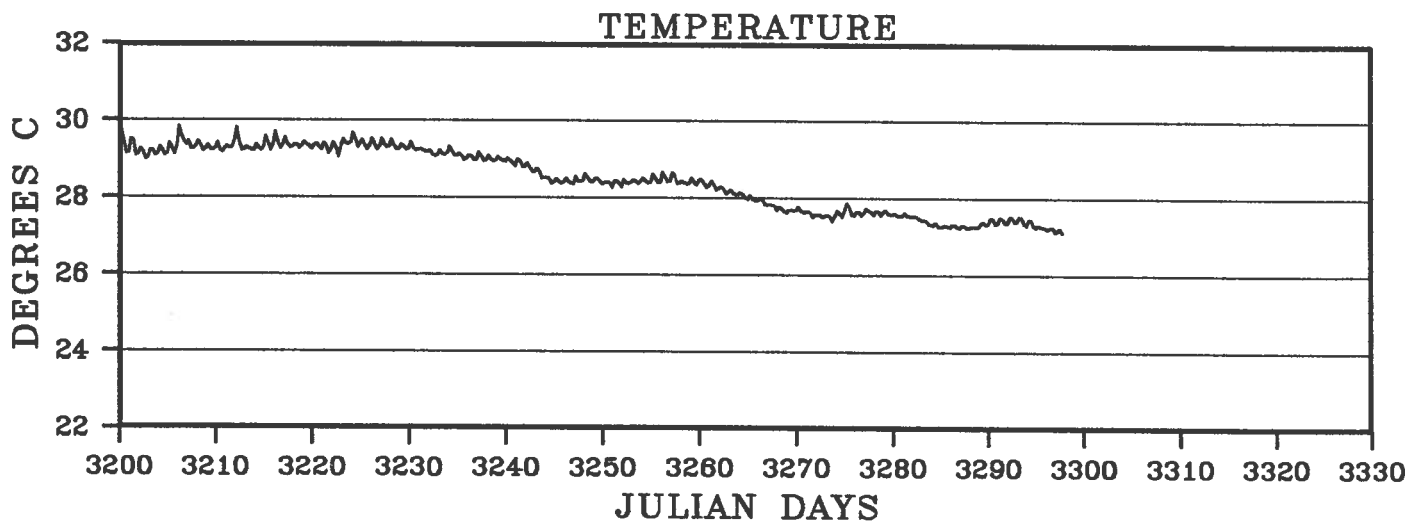
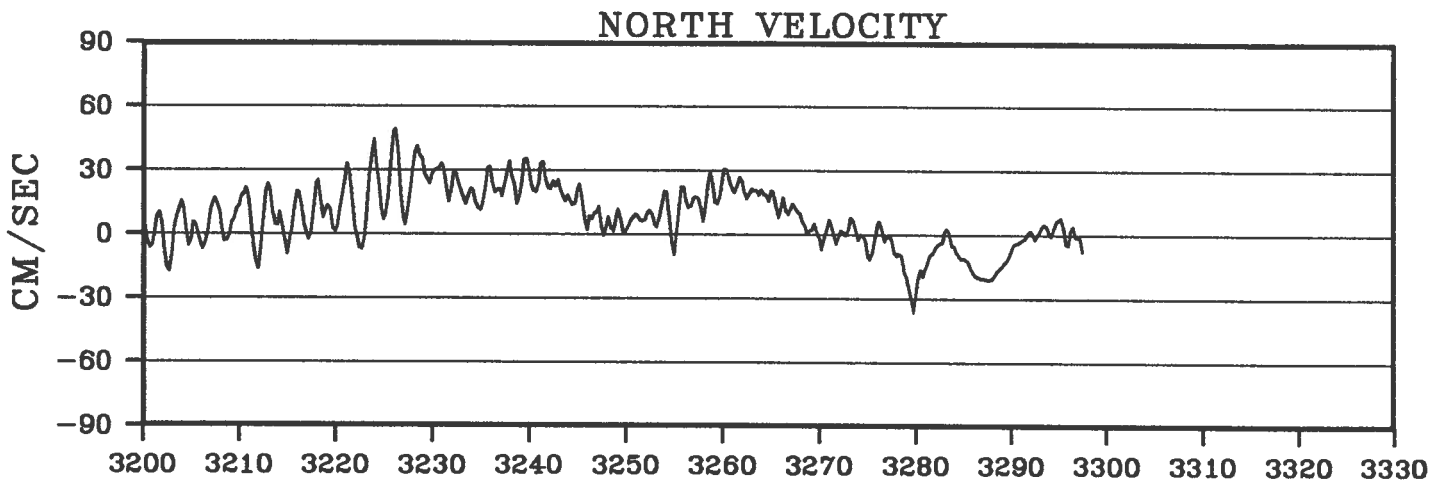
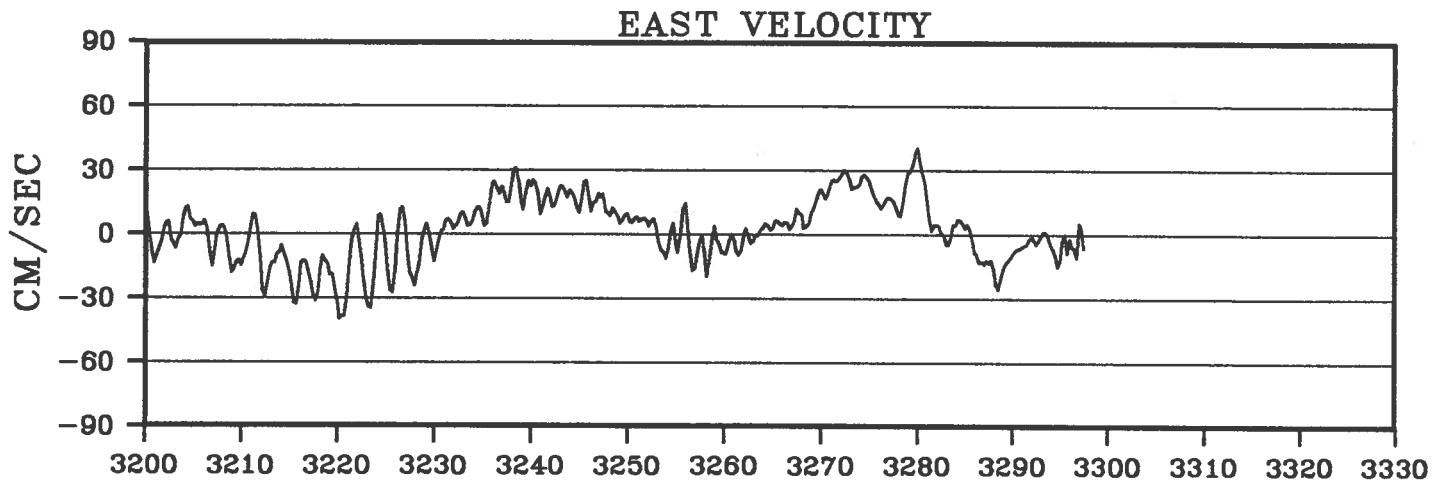
NORTH VELOCITY



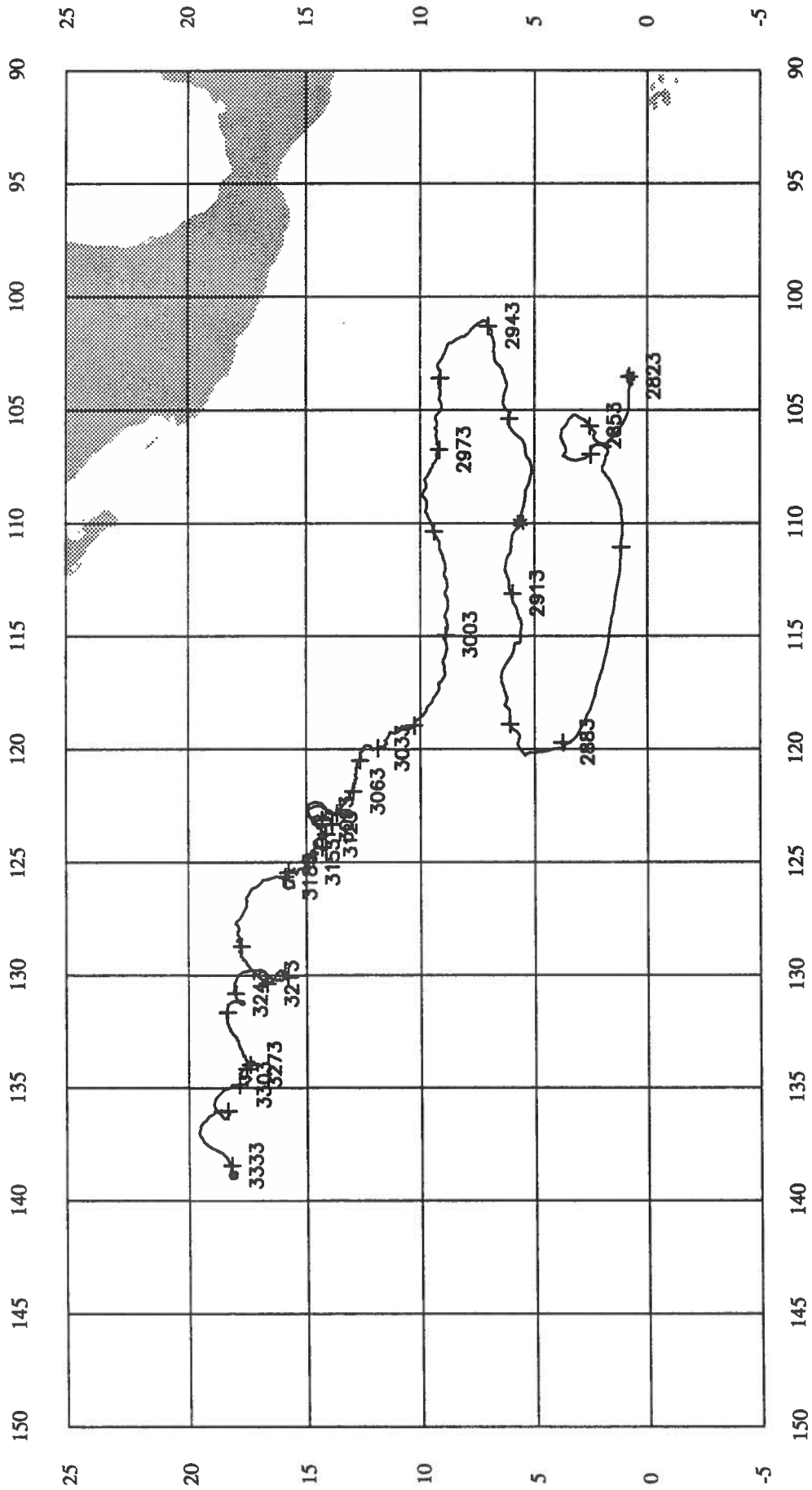
TEMPERATURE



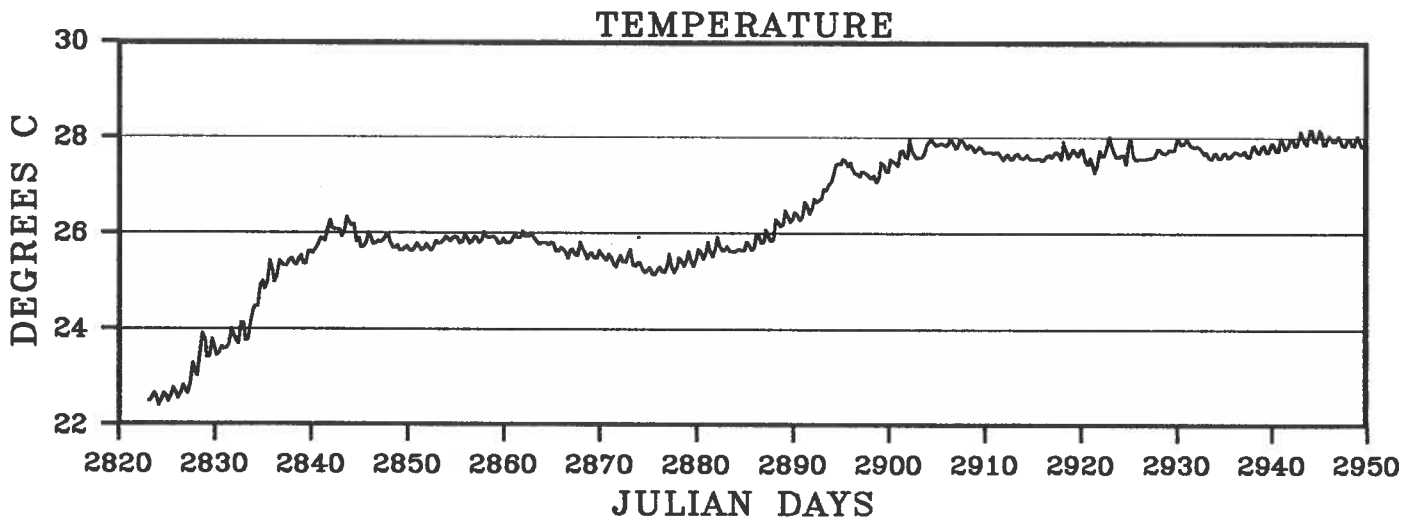
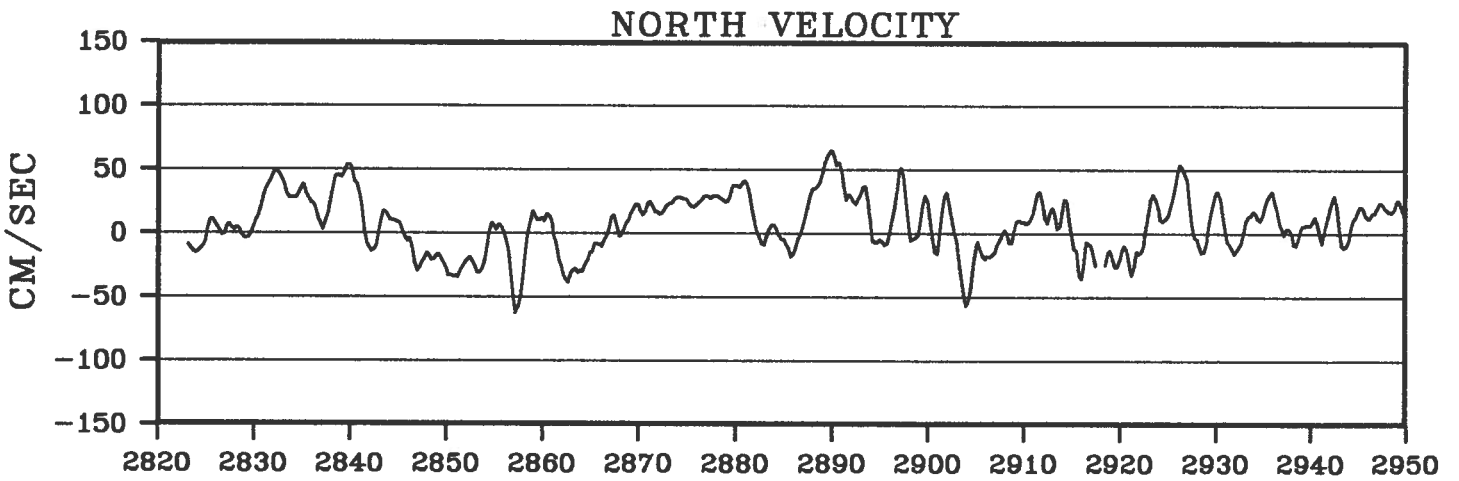
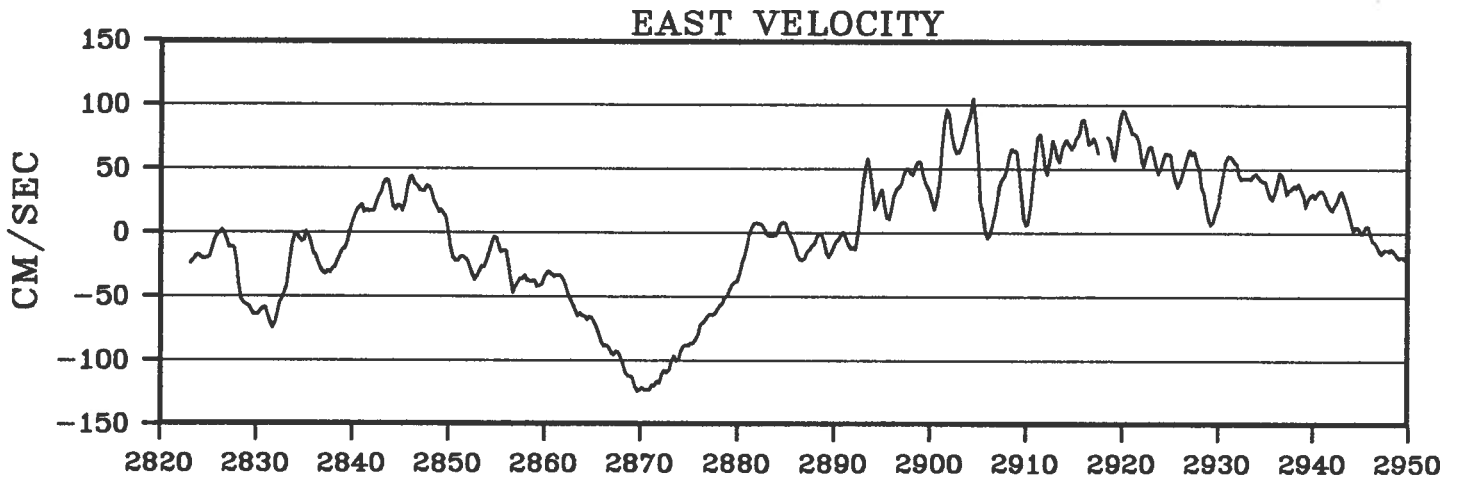
BUOY 3138



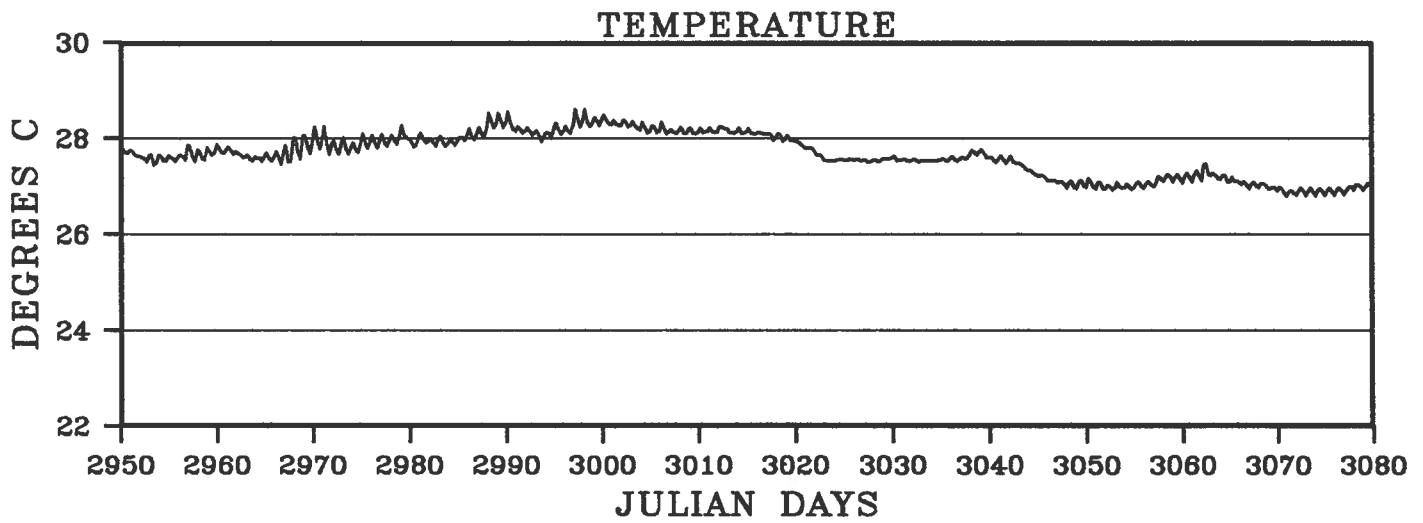
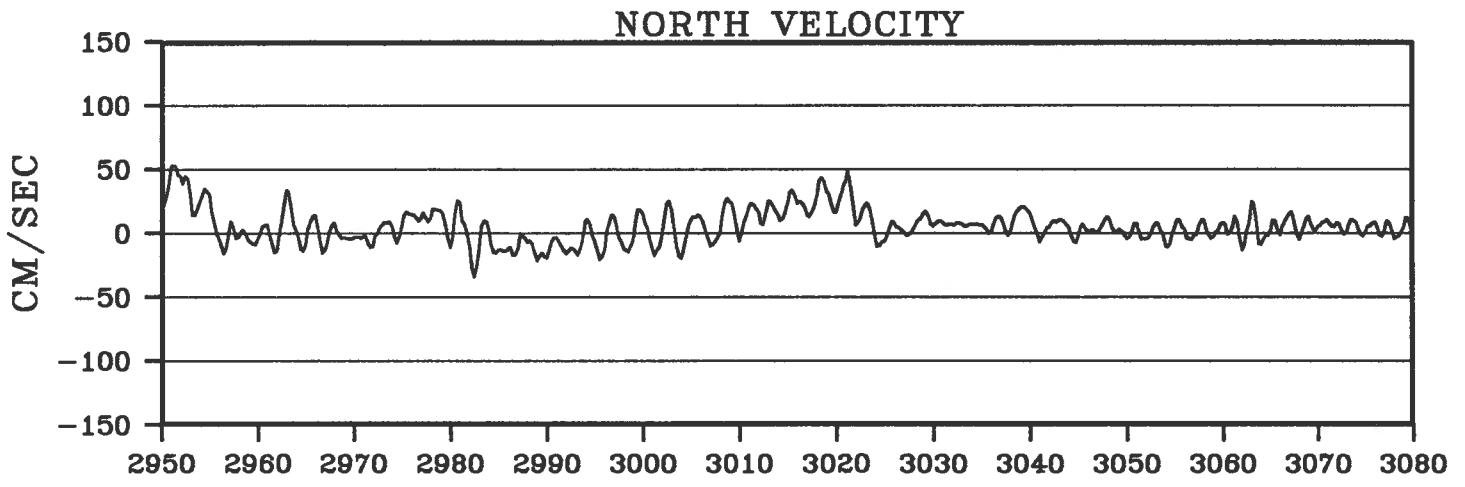
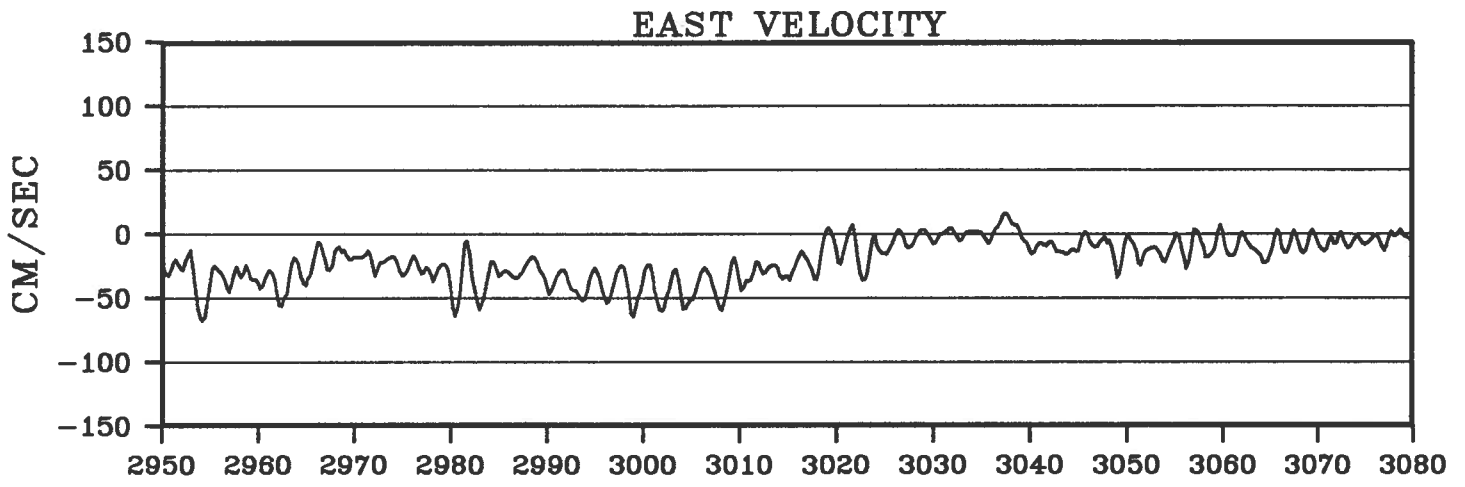
BUOY 3139



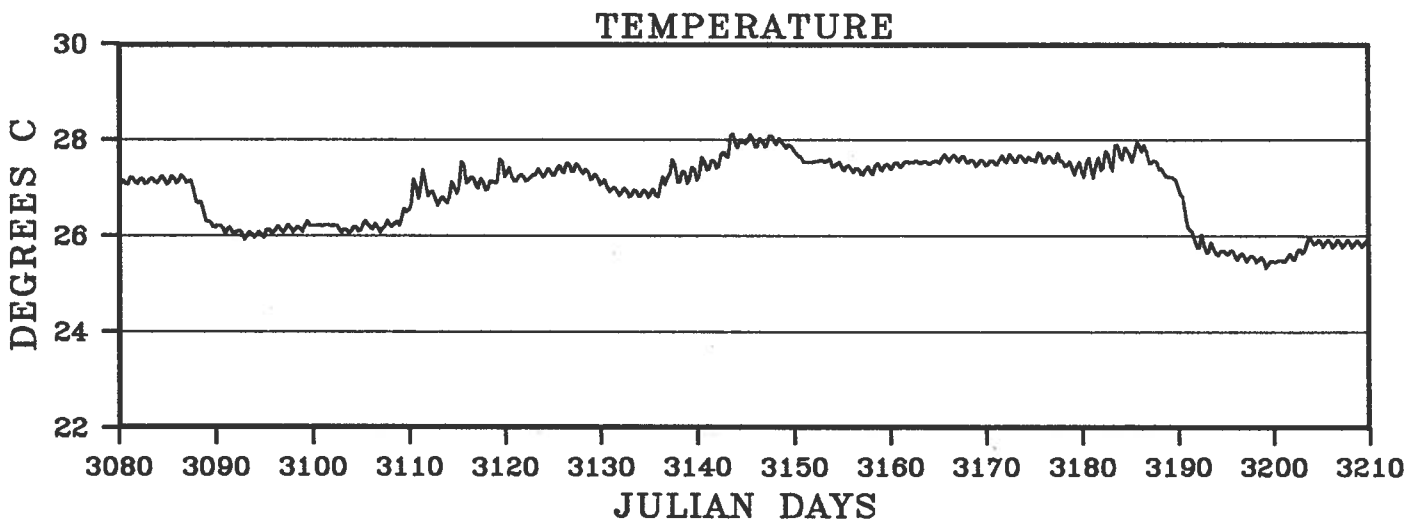
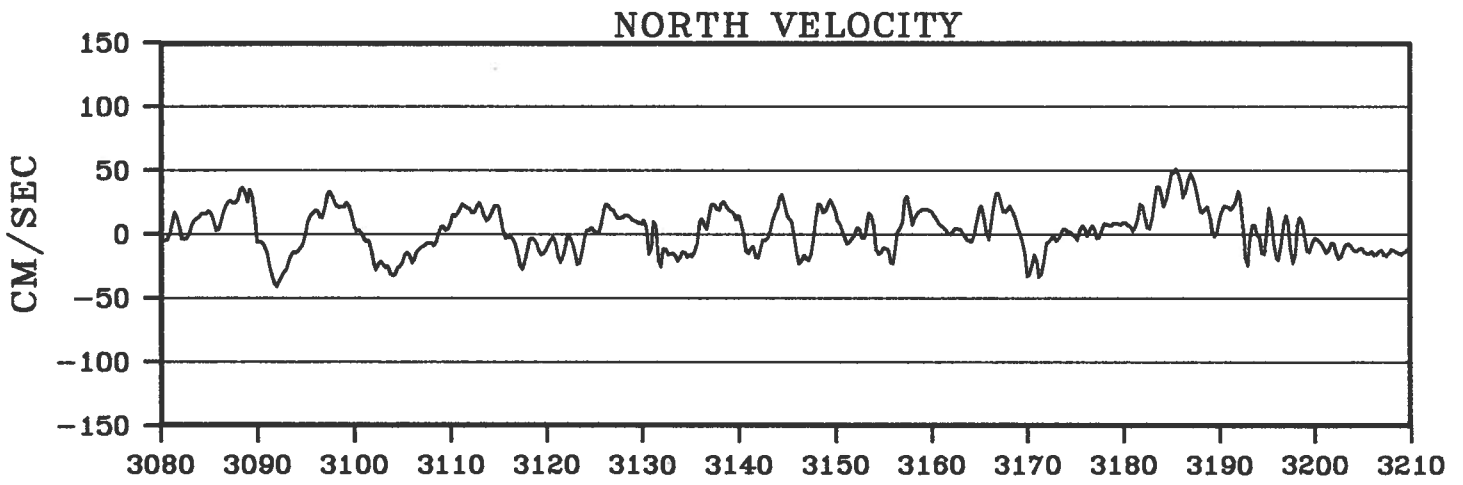
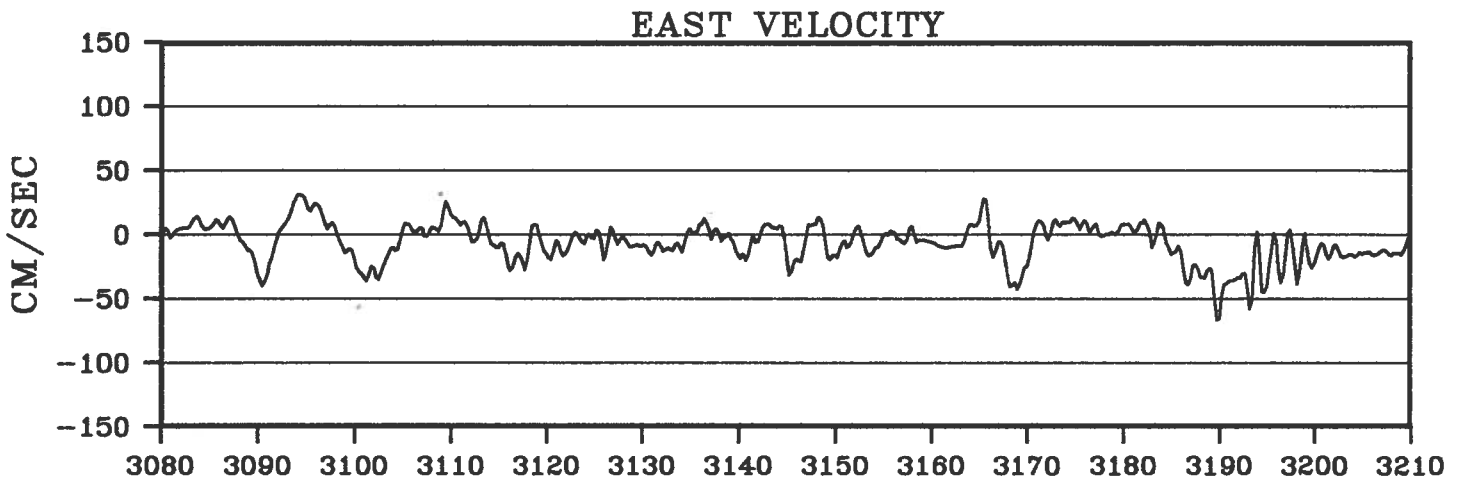
BUOY 3139



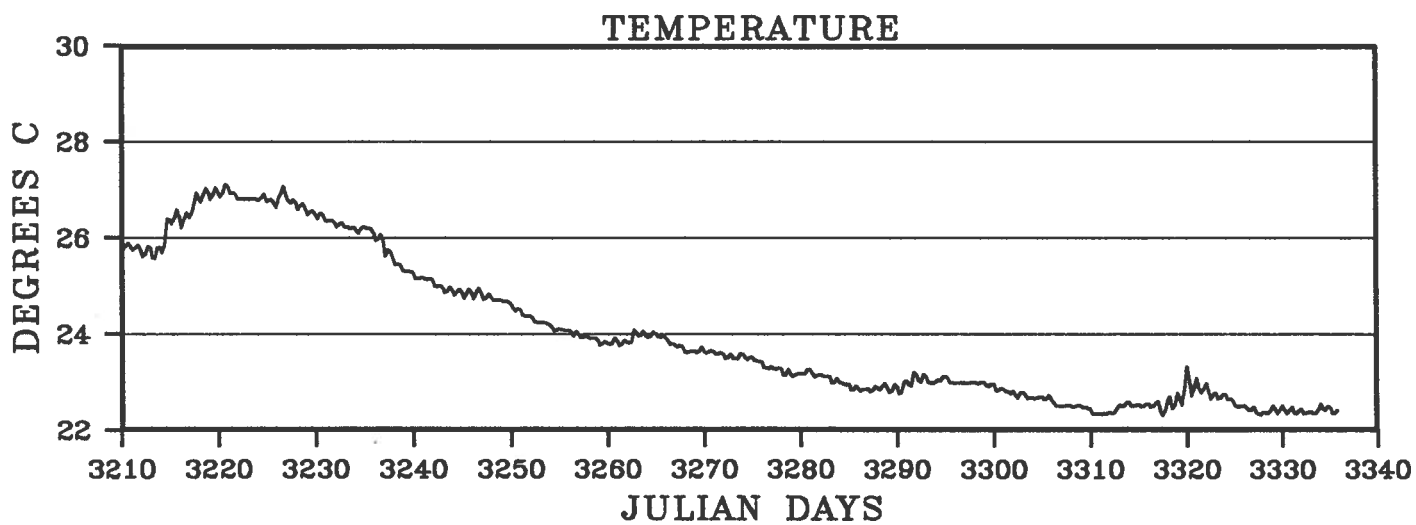
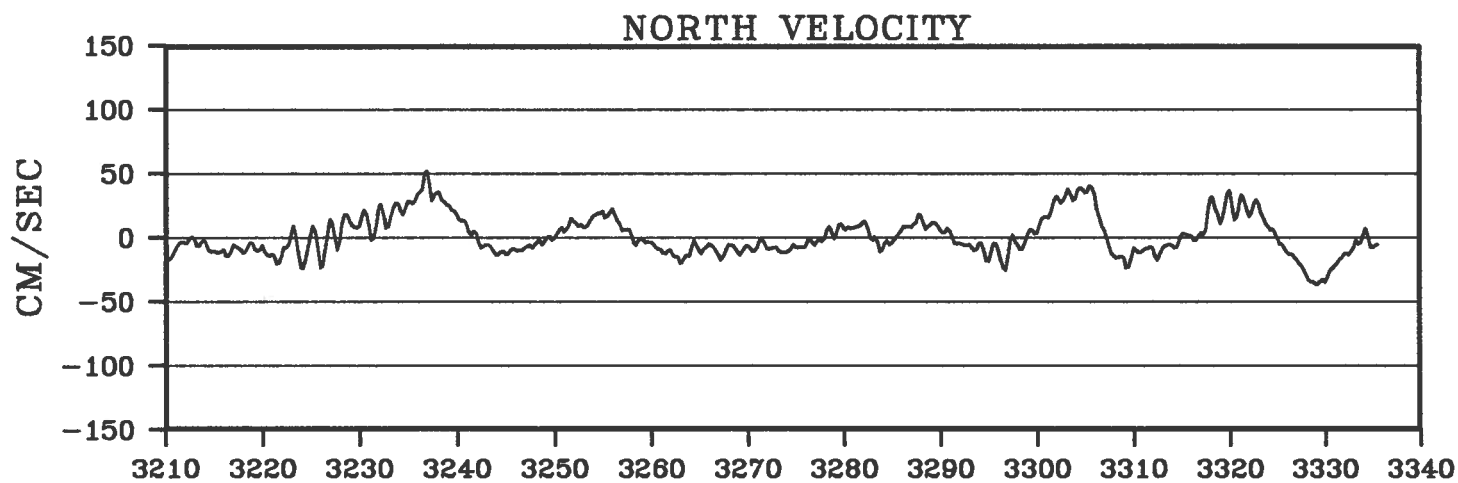
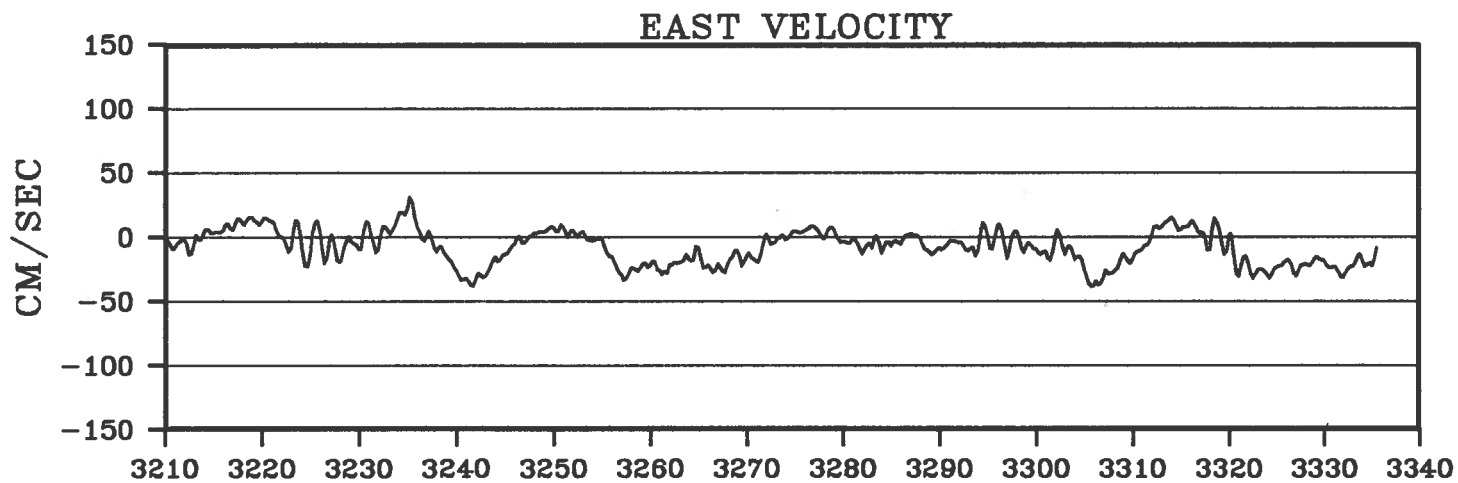
BUOY 3139



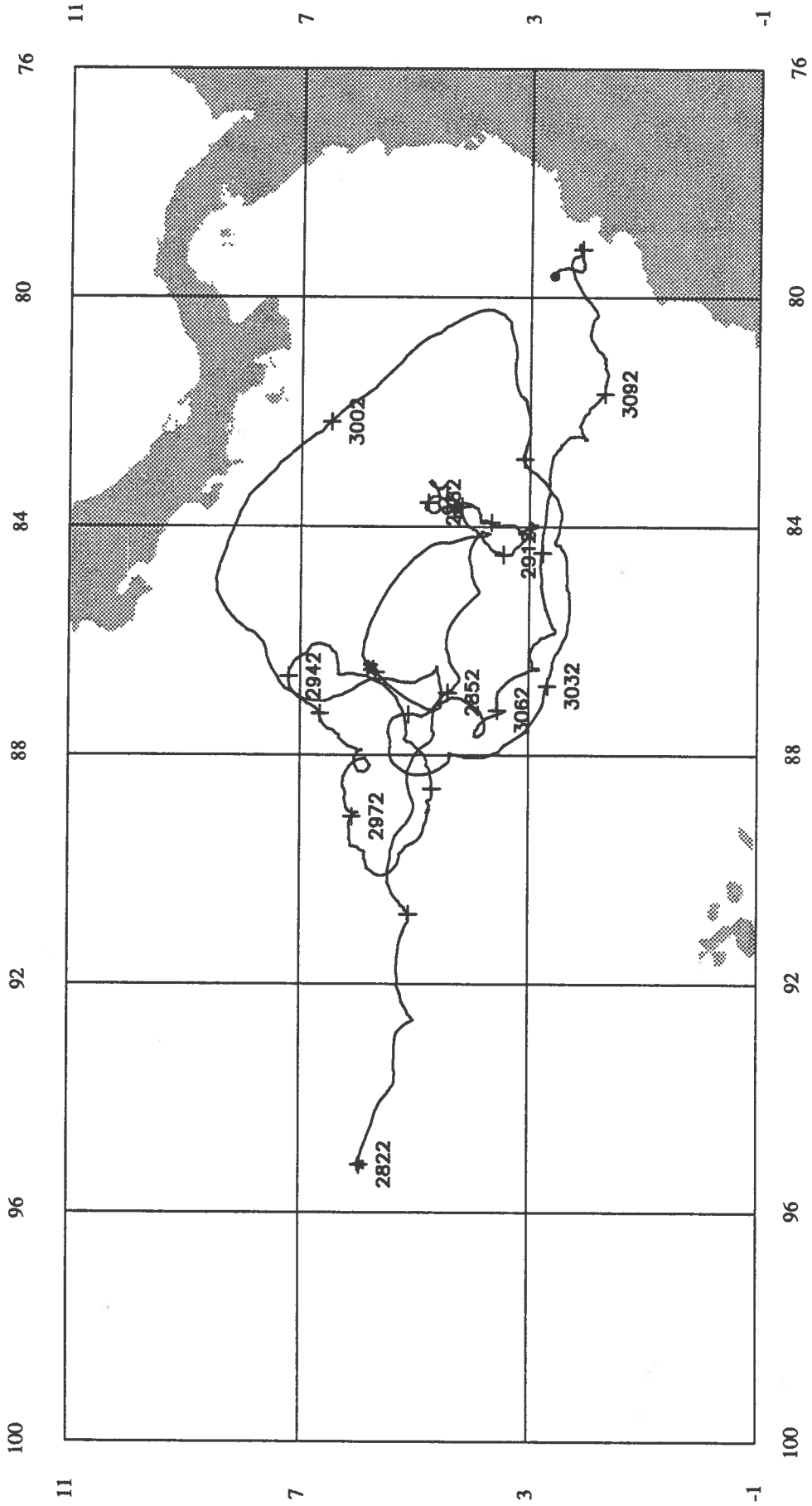
BUOY 3139



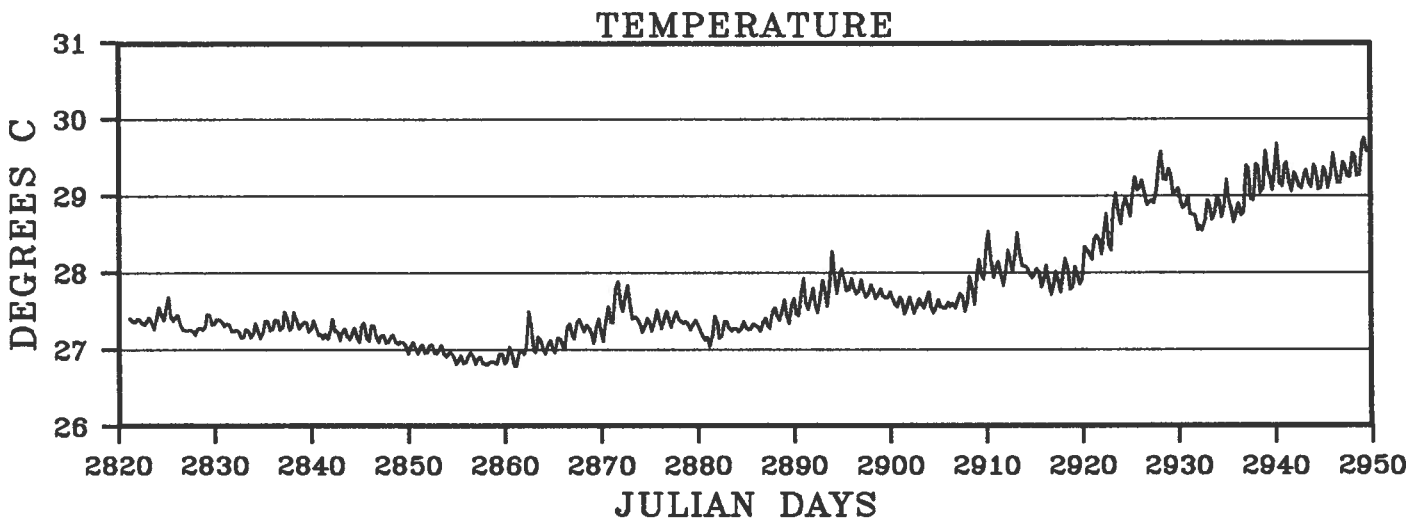
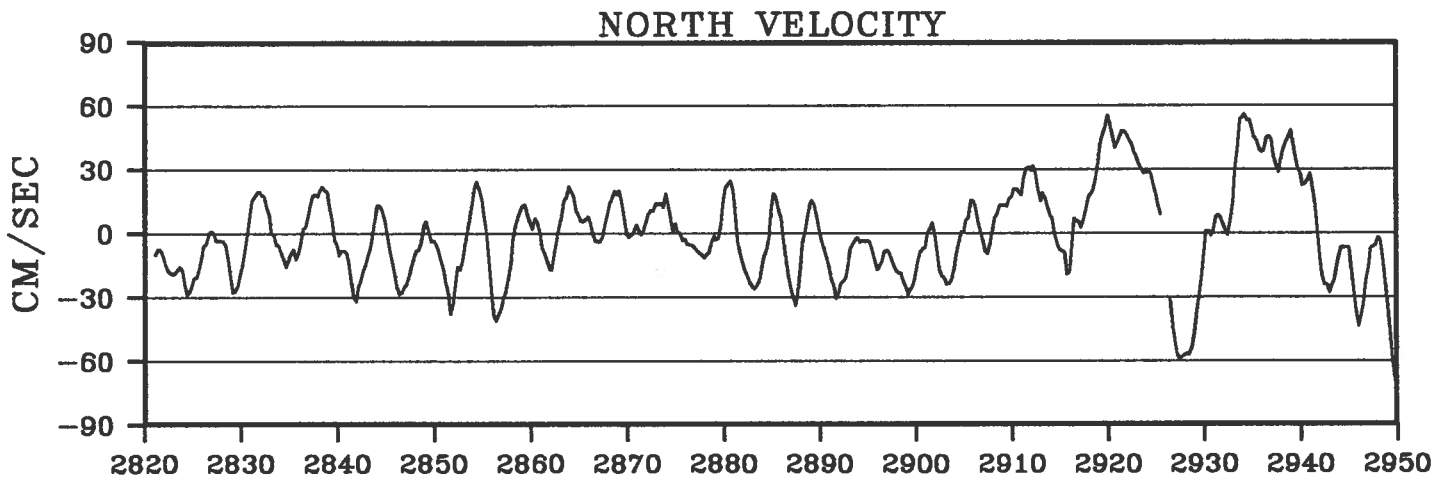
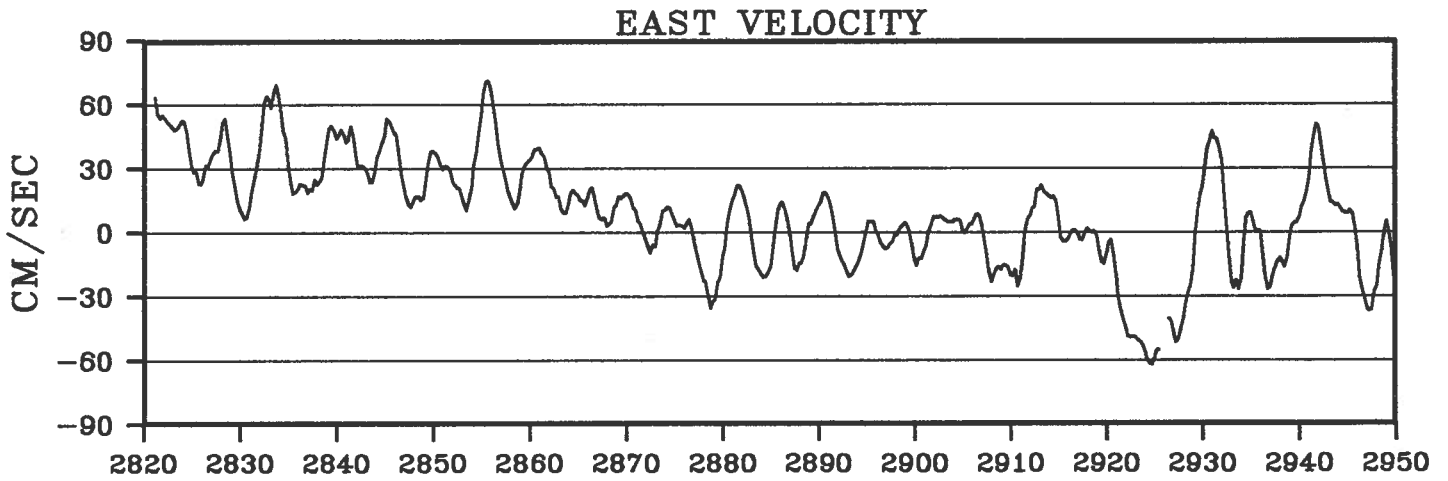
BUOY 3139



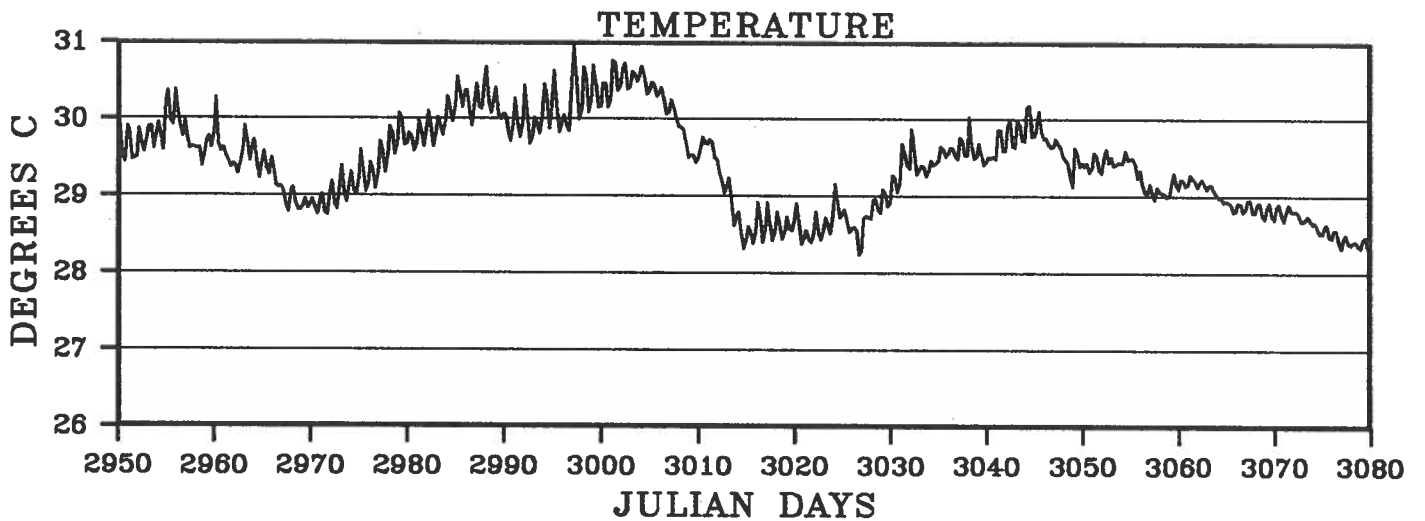
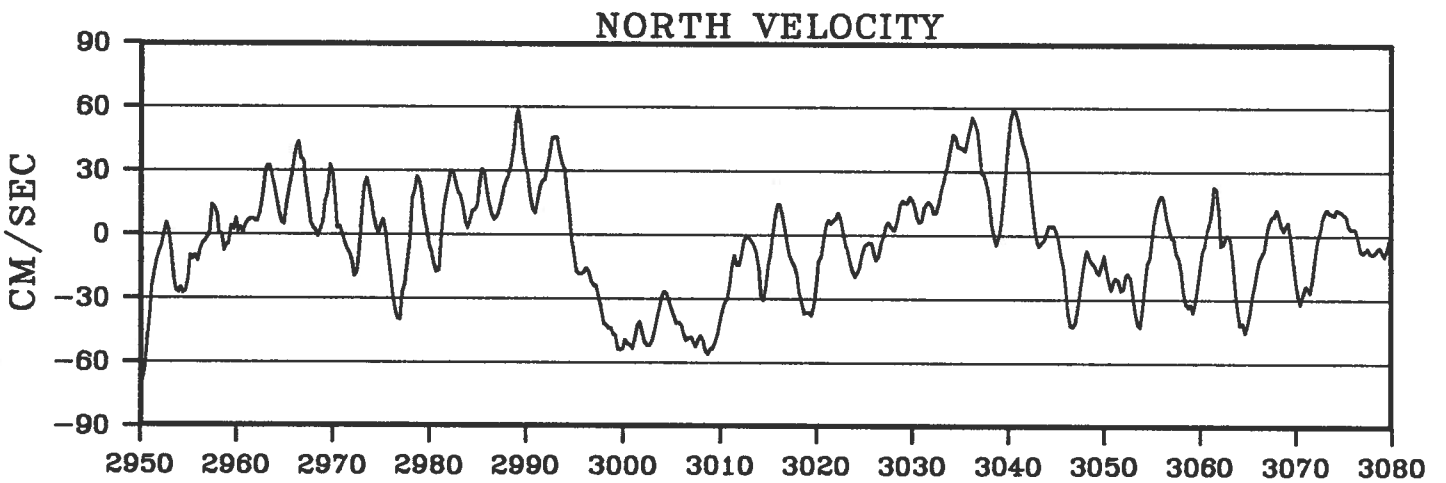
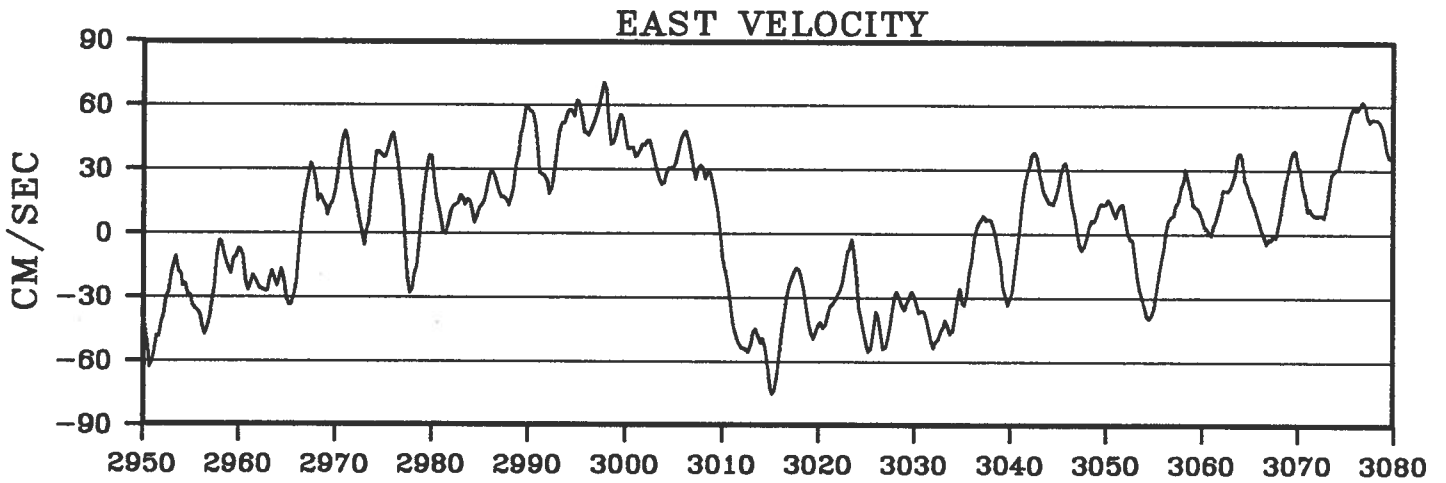
BUOY 3140



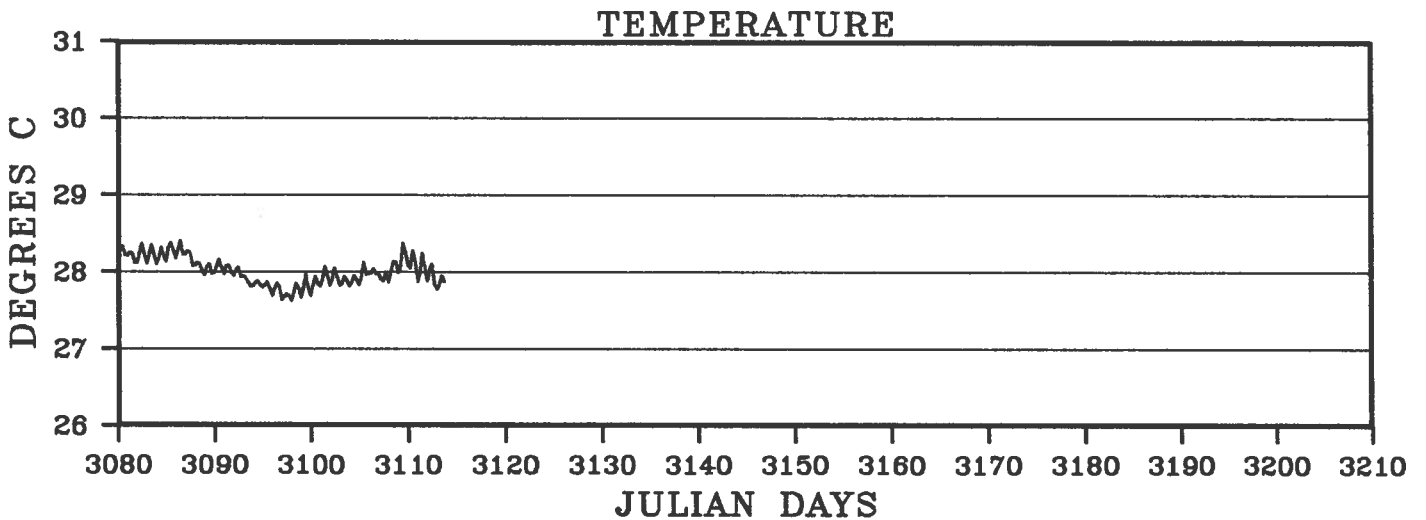
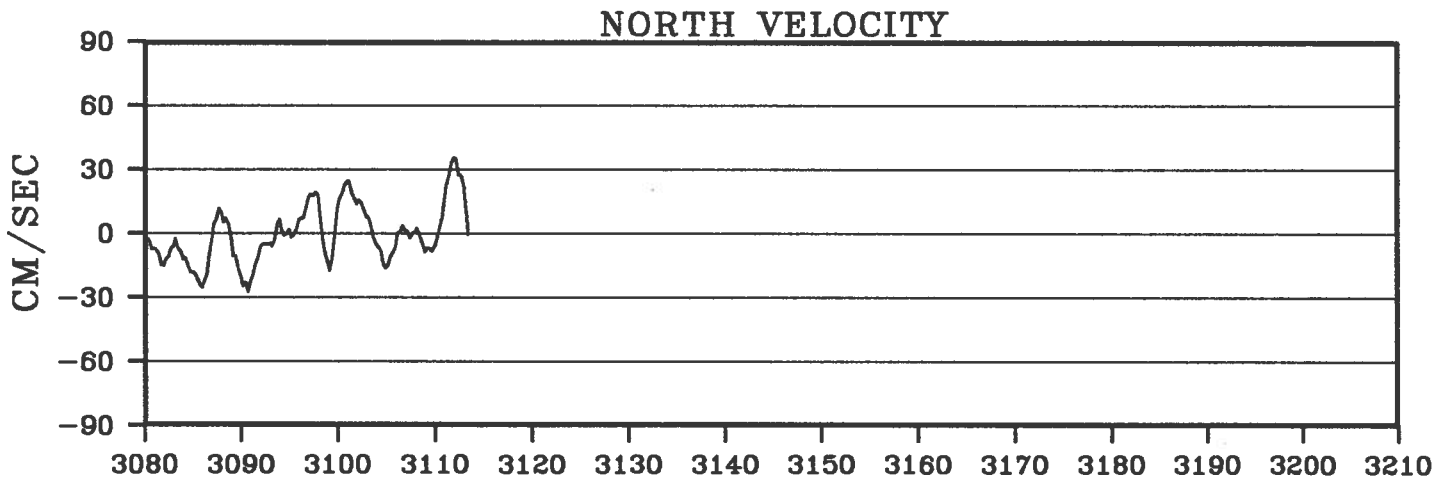
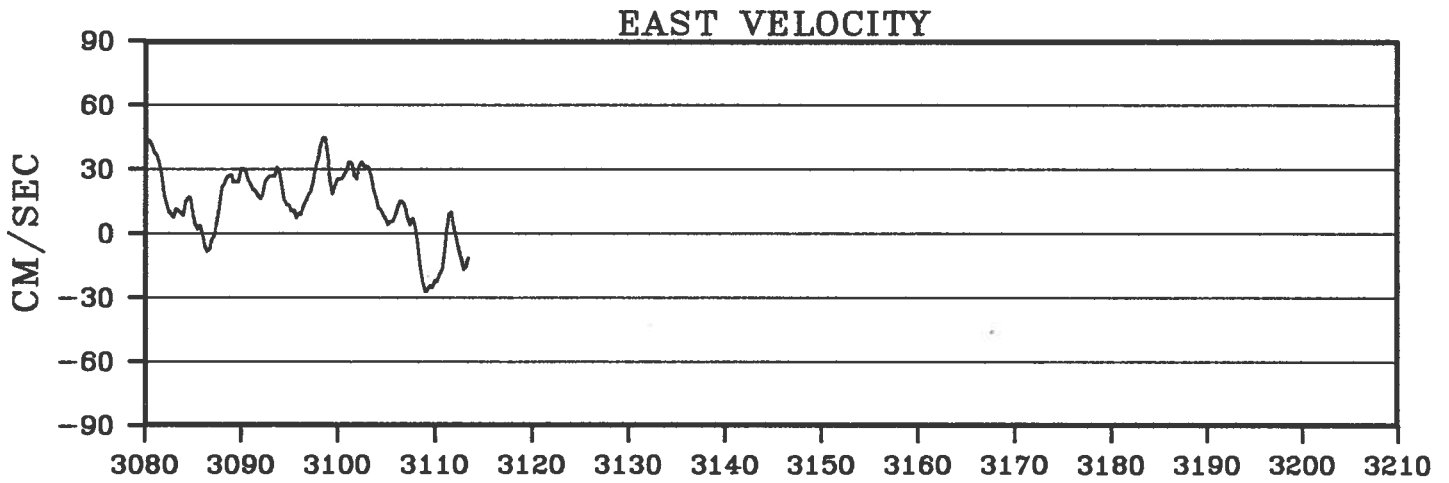
BUOY 3140



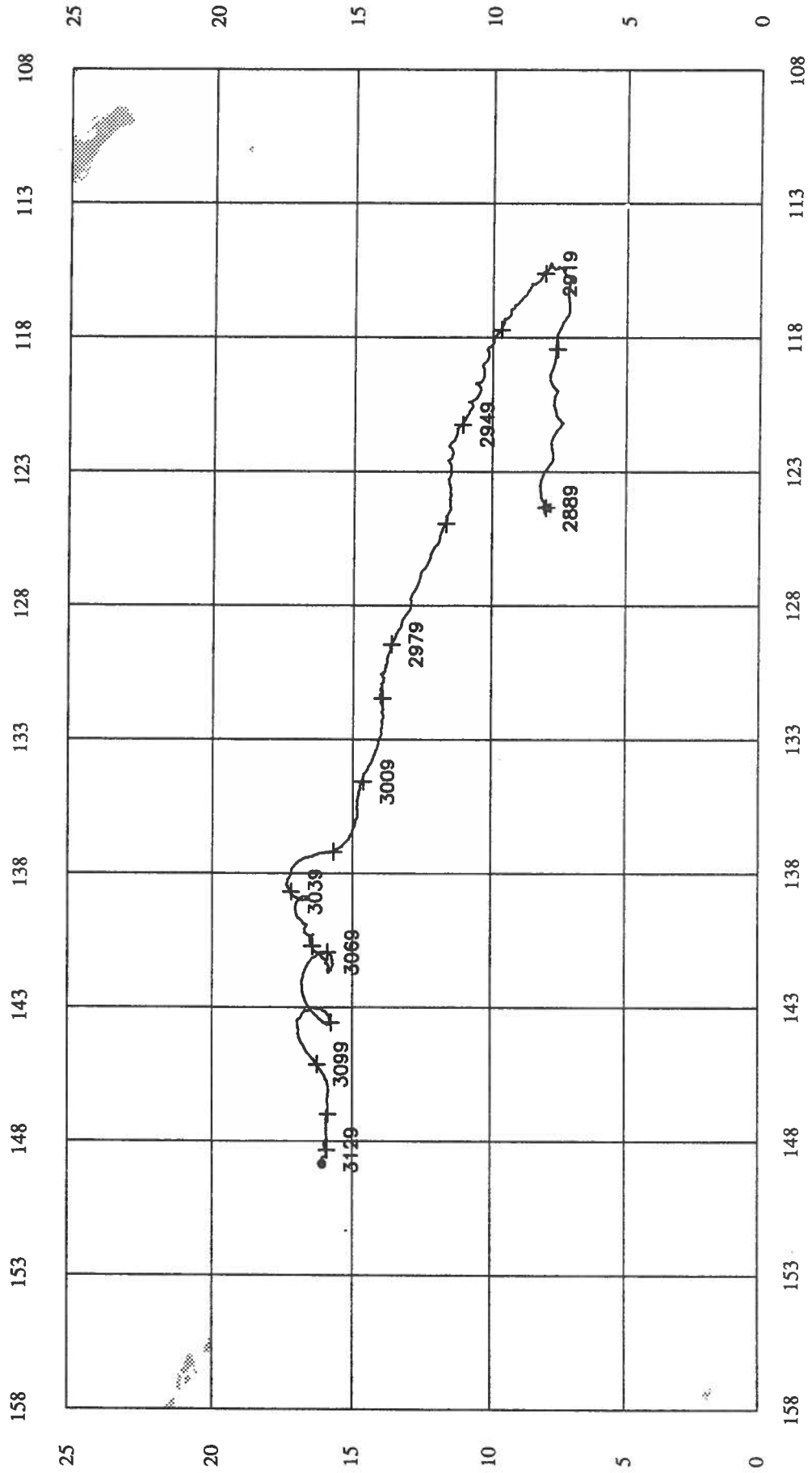
BUOY 3140



BUOY 3140

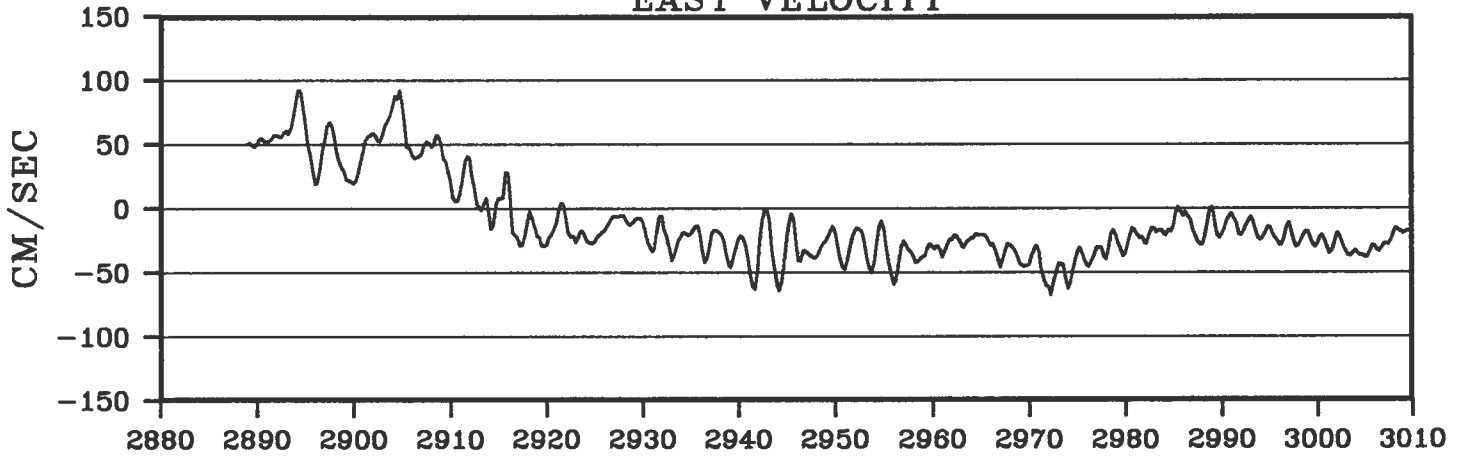


BUOY 3141

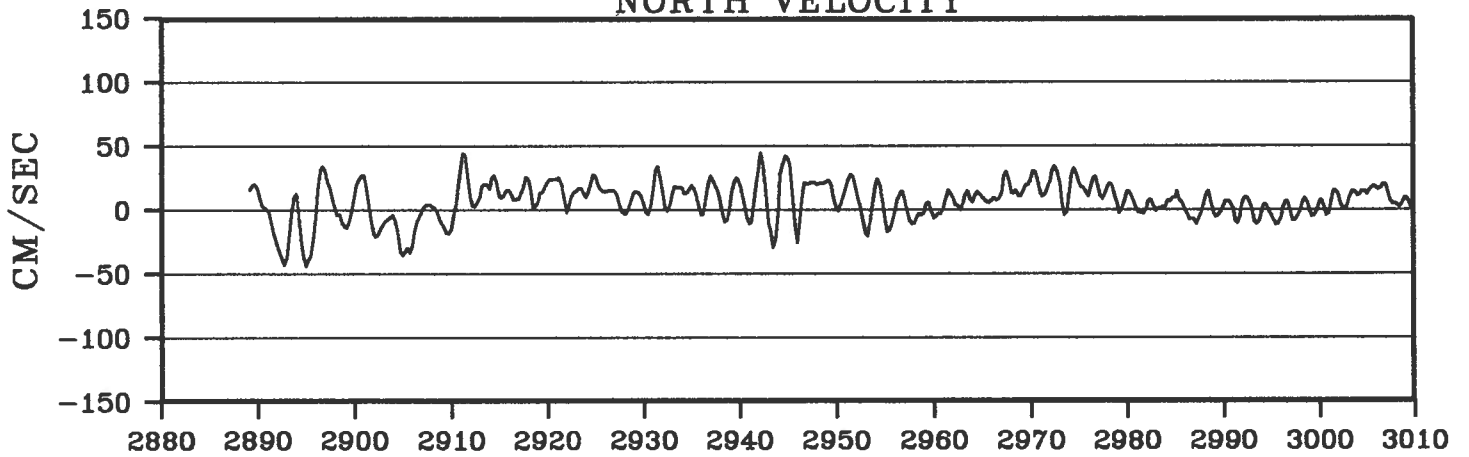


BUOY 3141

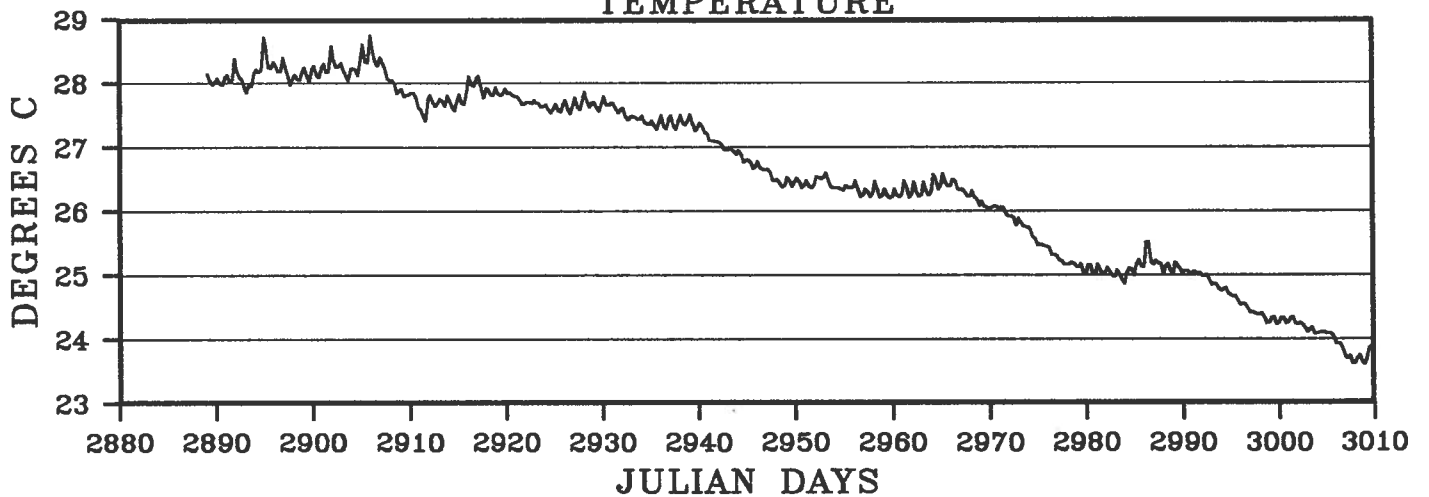
EAST VELOCITY



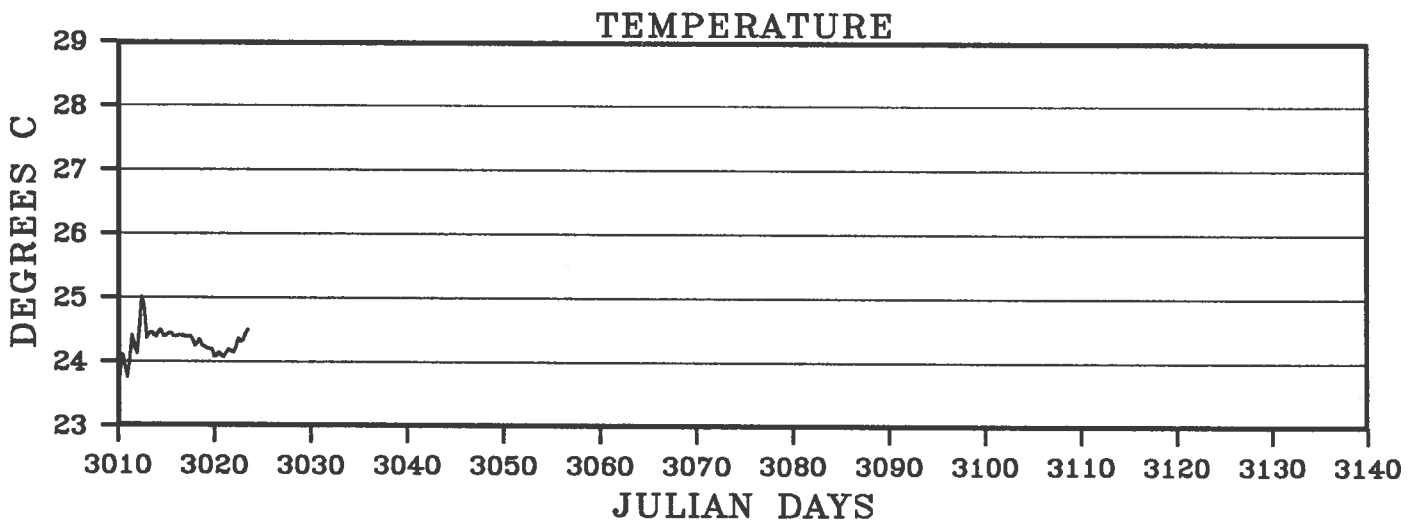
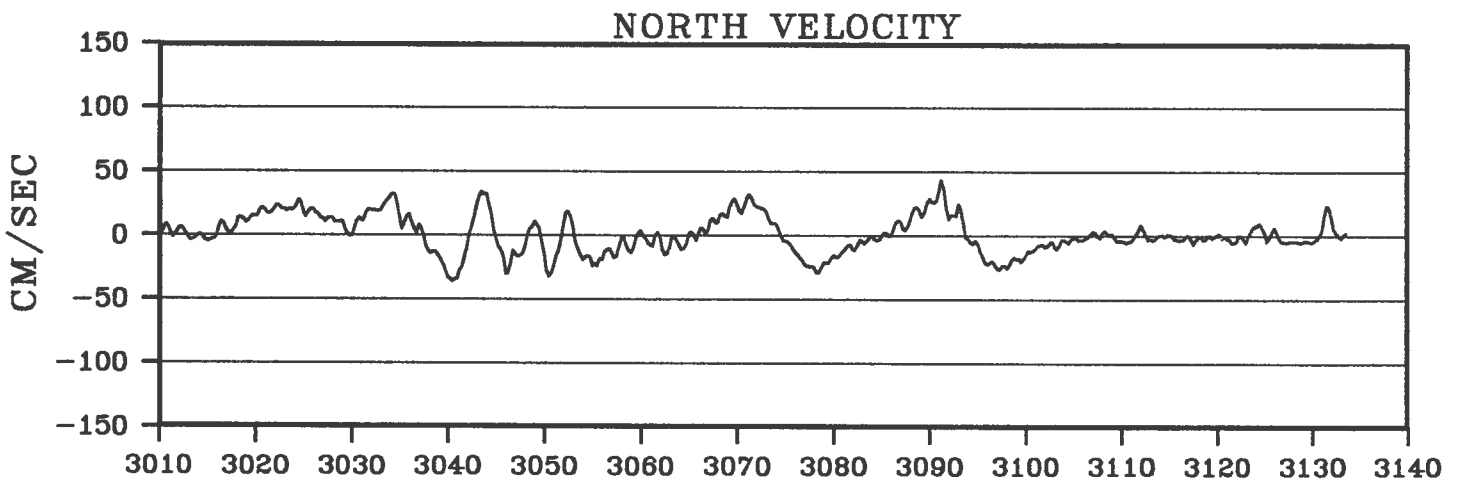
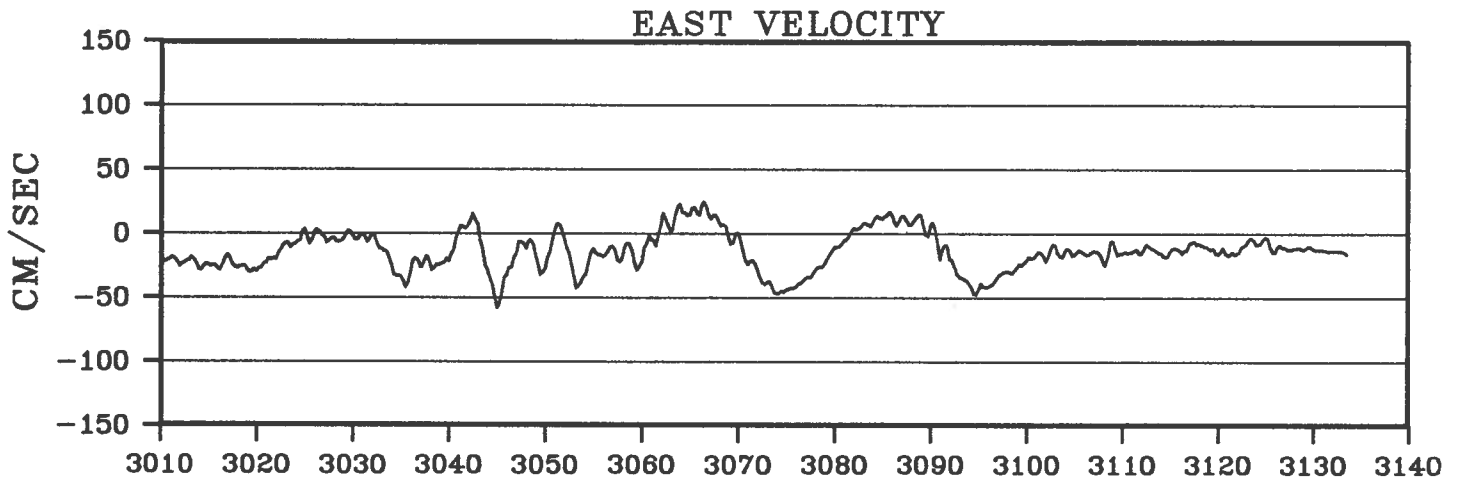
NORTH VELOCITY



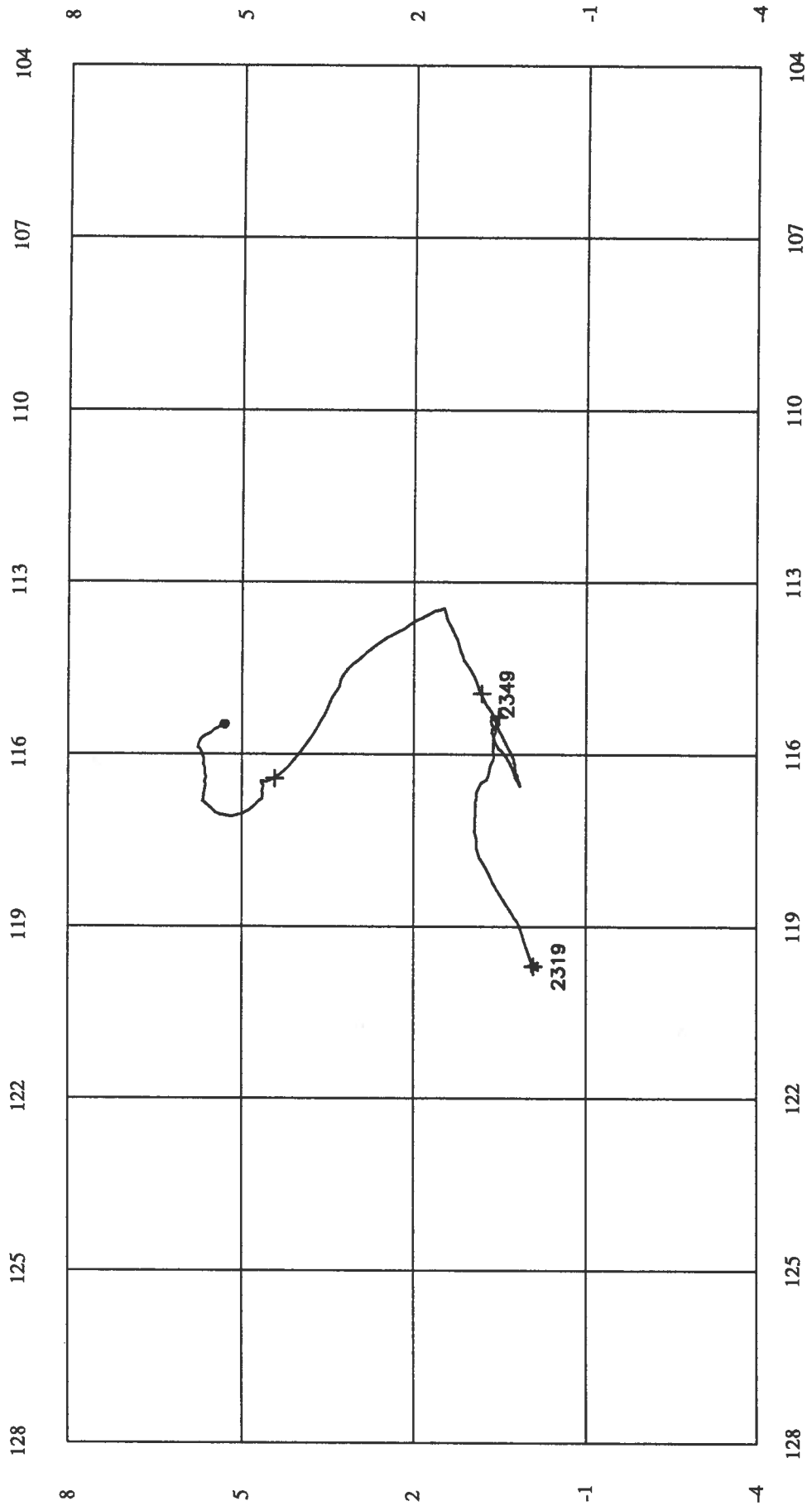
TEMPERATURE



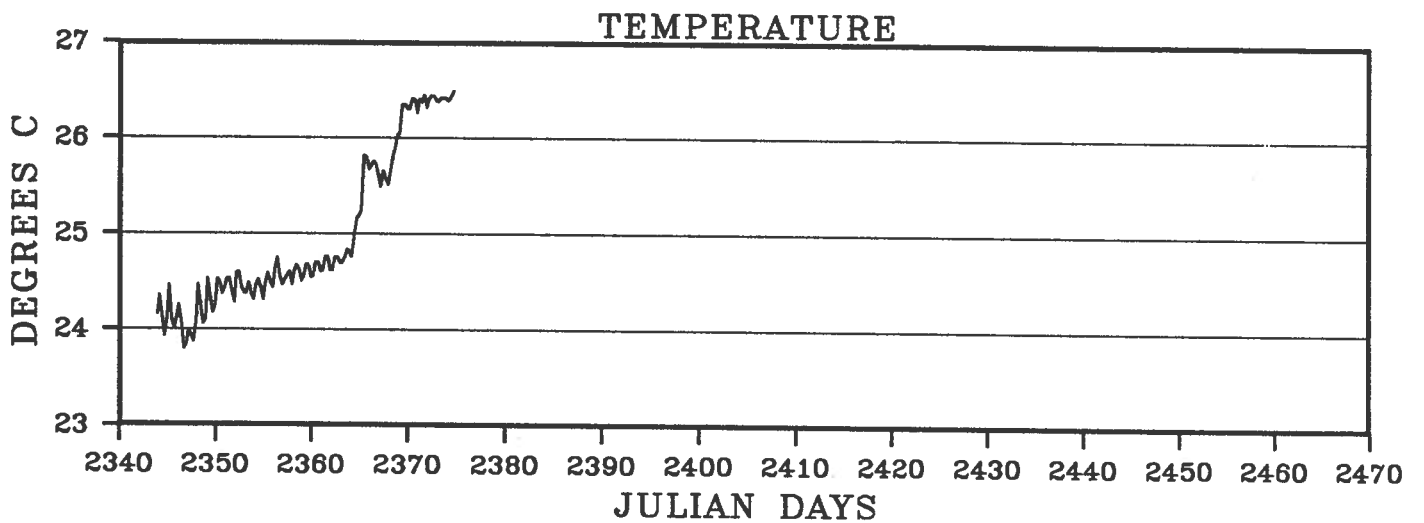
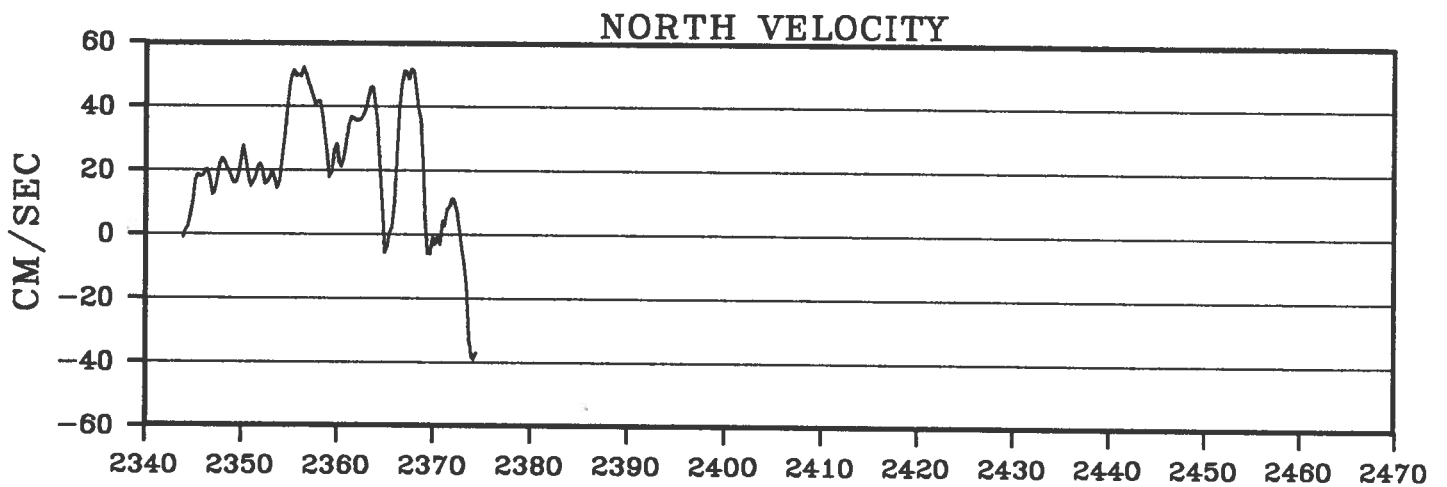
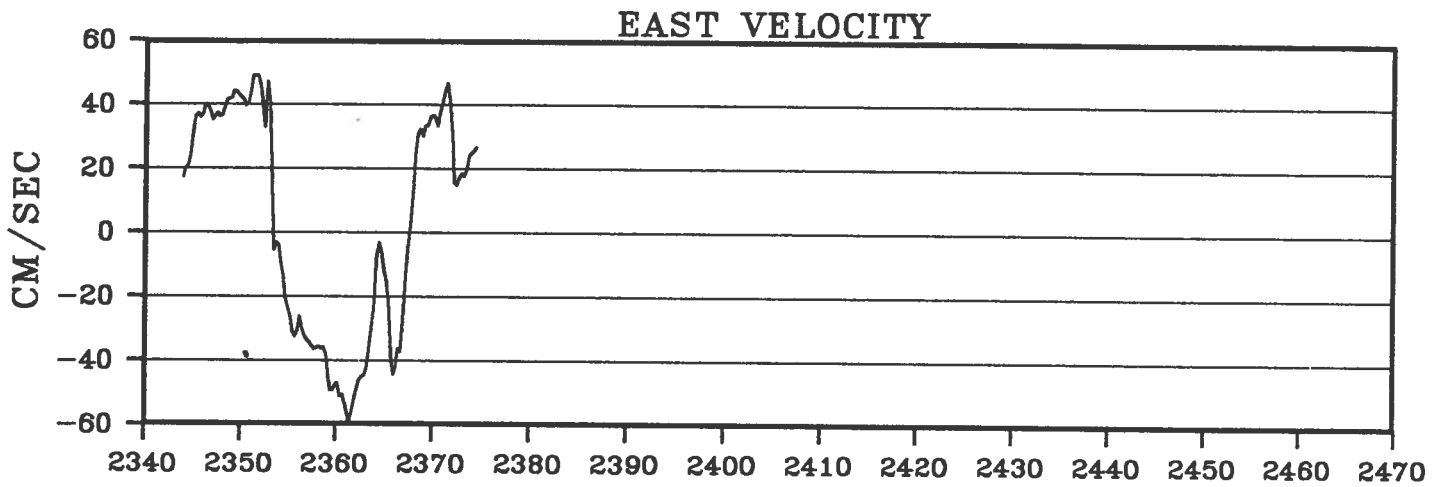
BUOY 3141



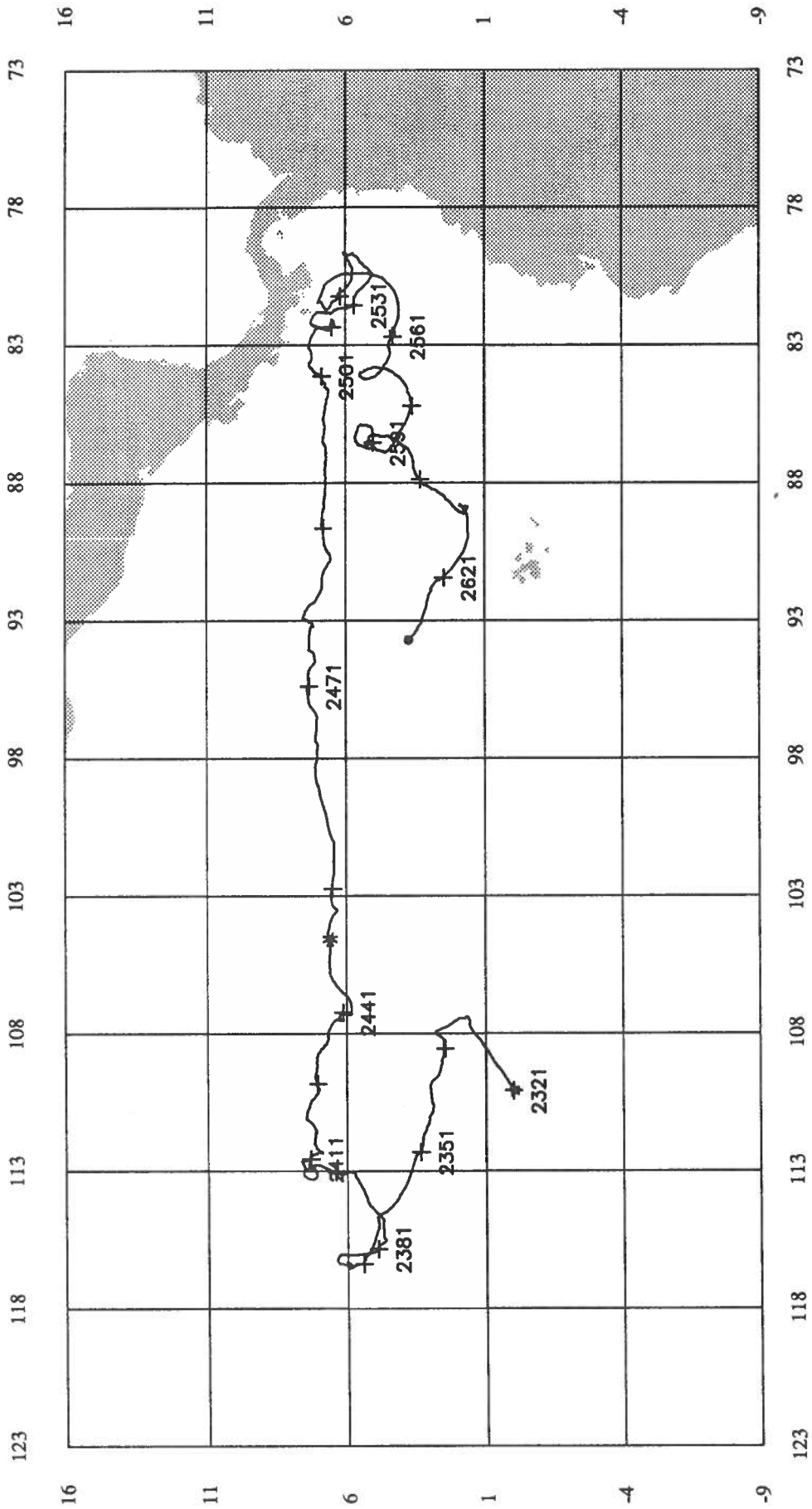
BUOY 4420



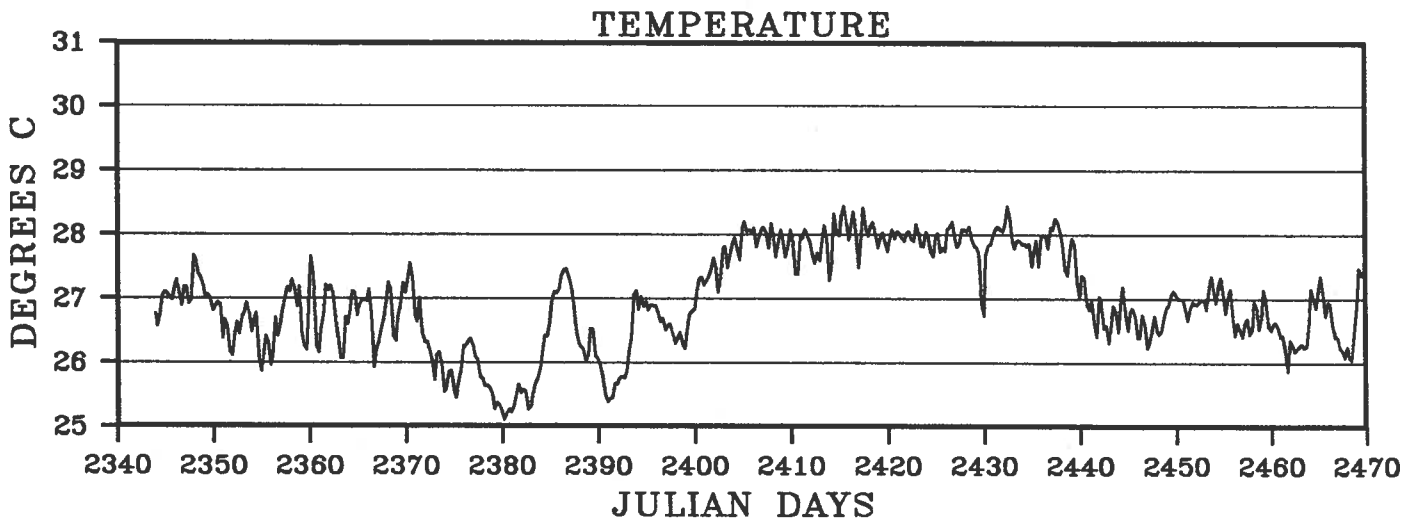
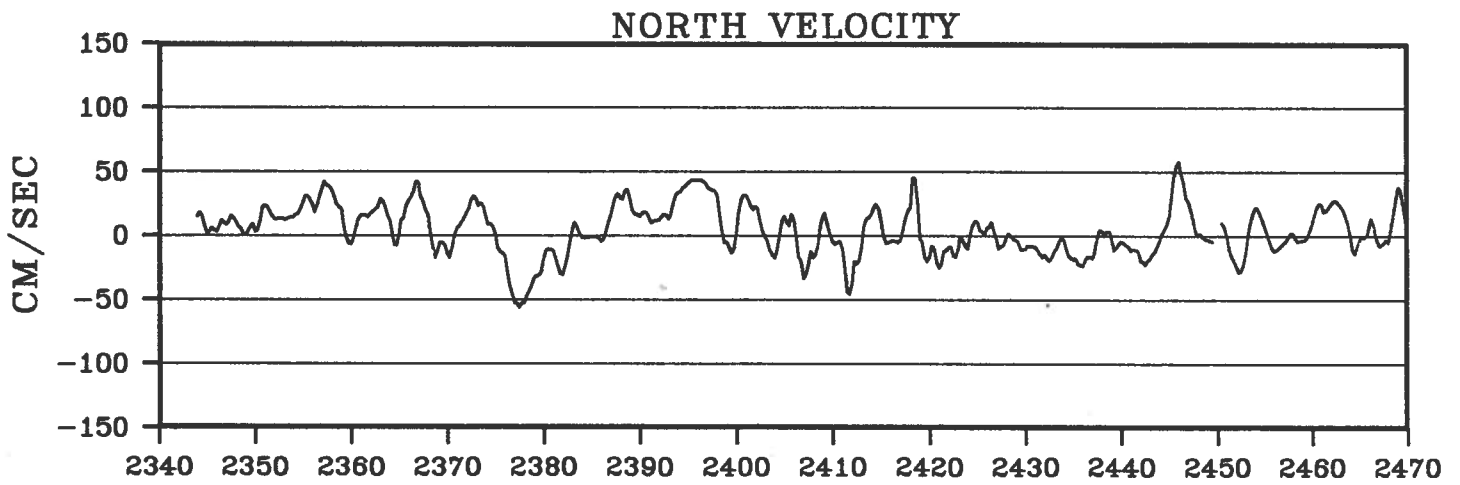
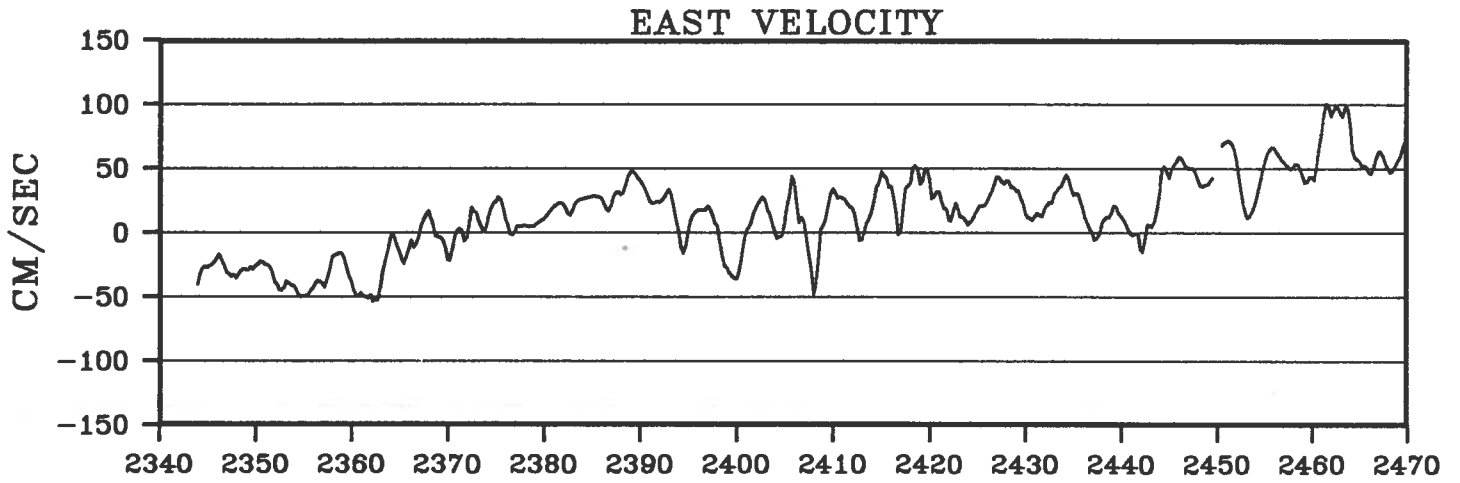
BUOY 4420



BUOY 4422

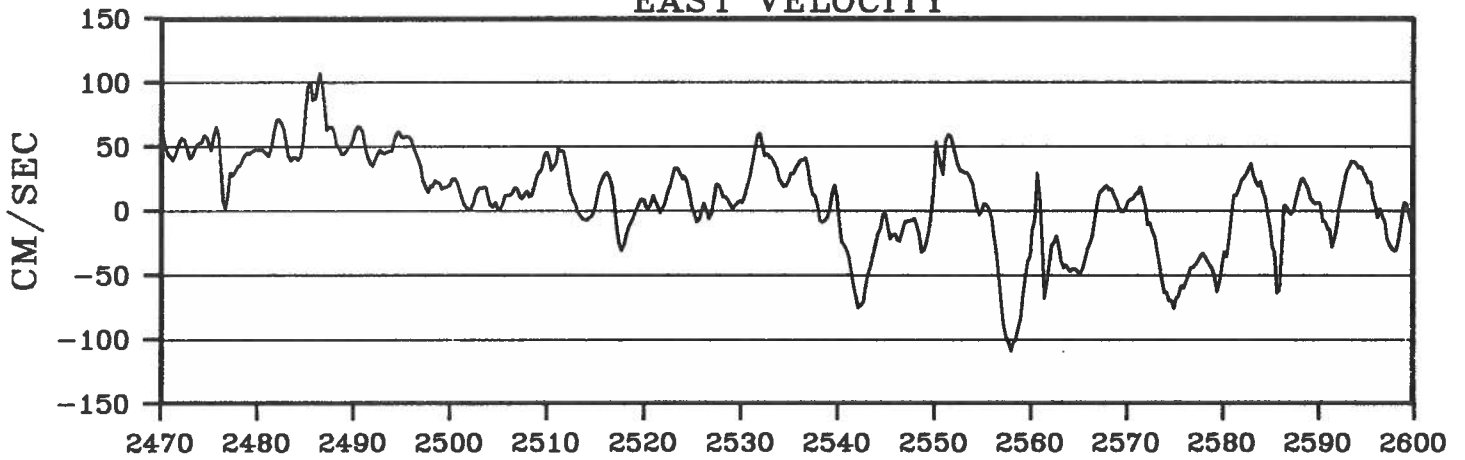


BUOY 4422

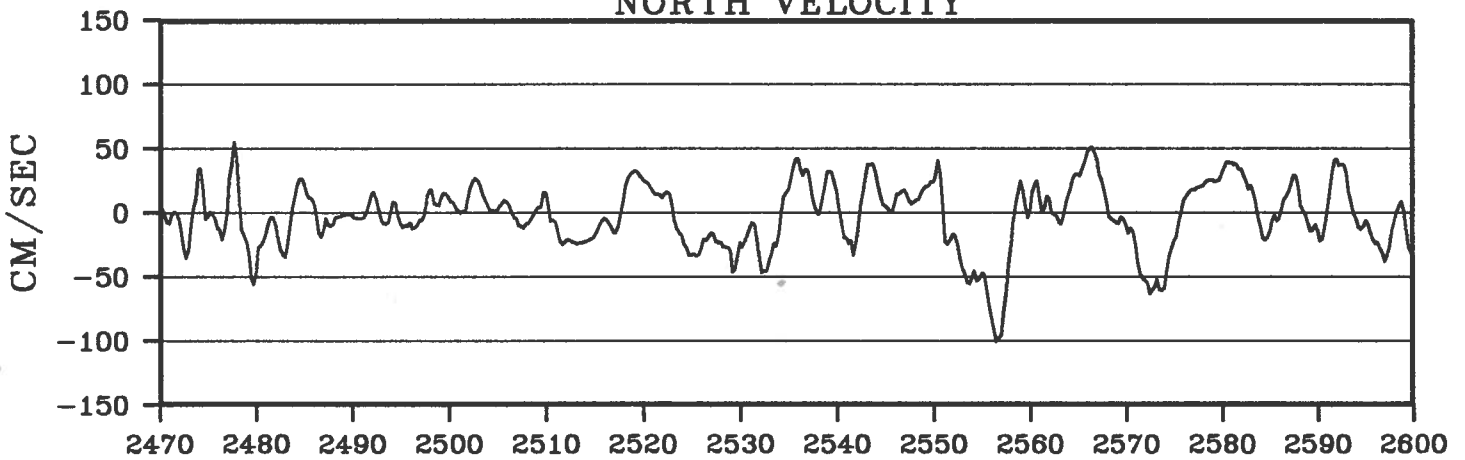


BUOY 4422

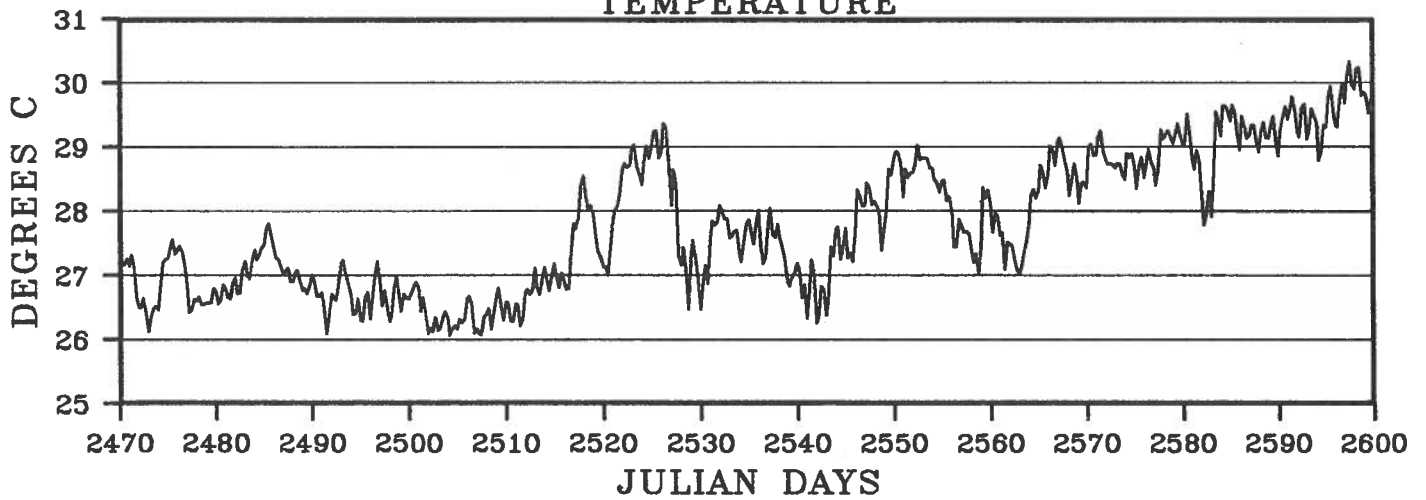
EAST VELOCITY



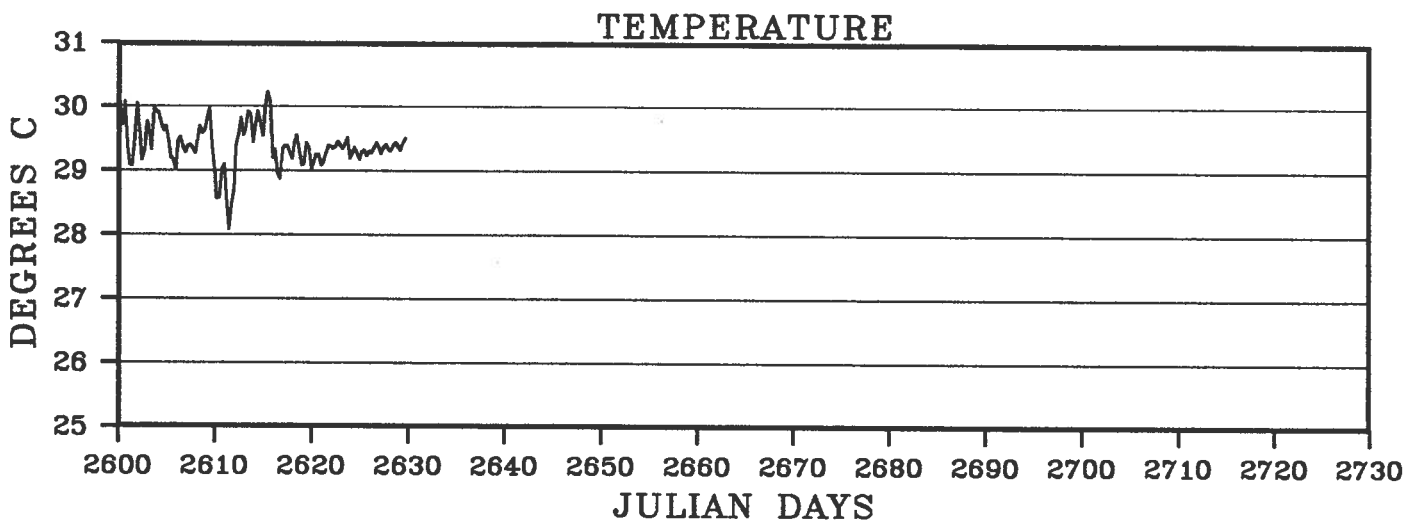
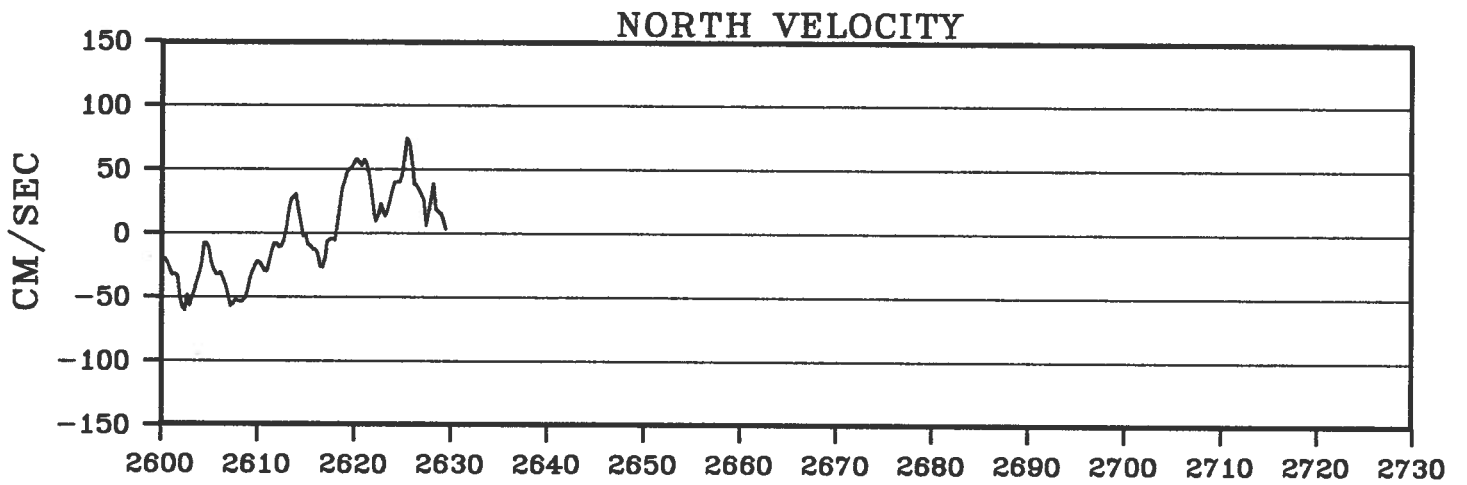
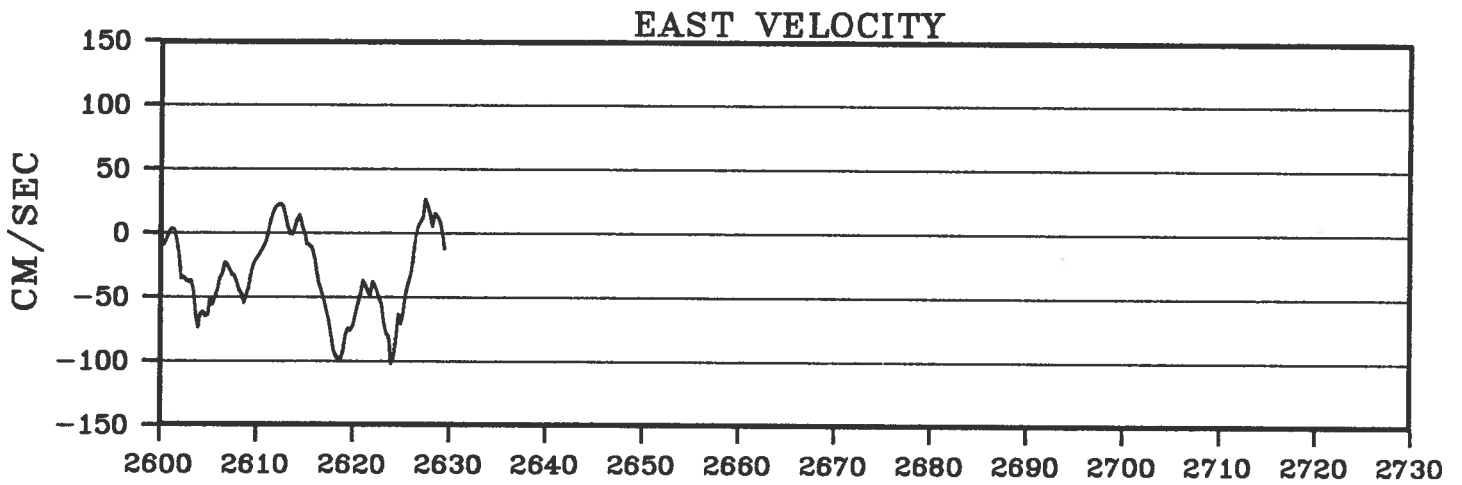
NORTH VELOCITY



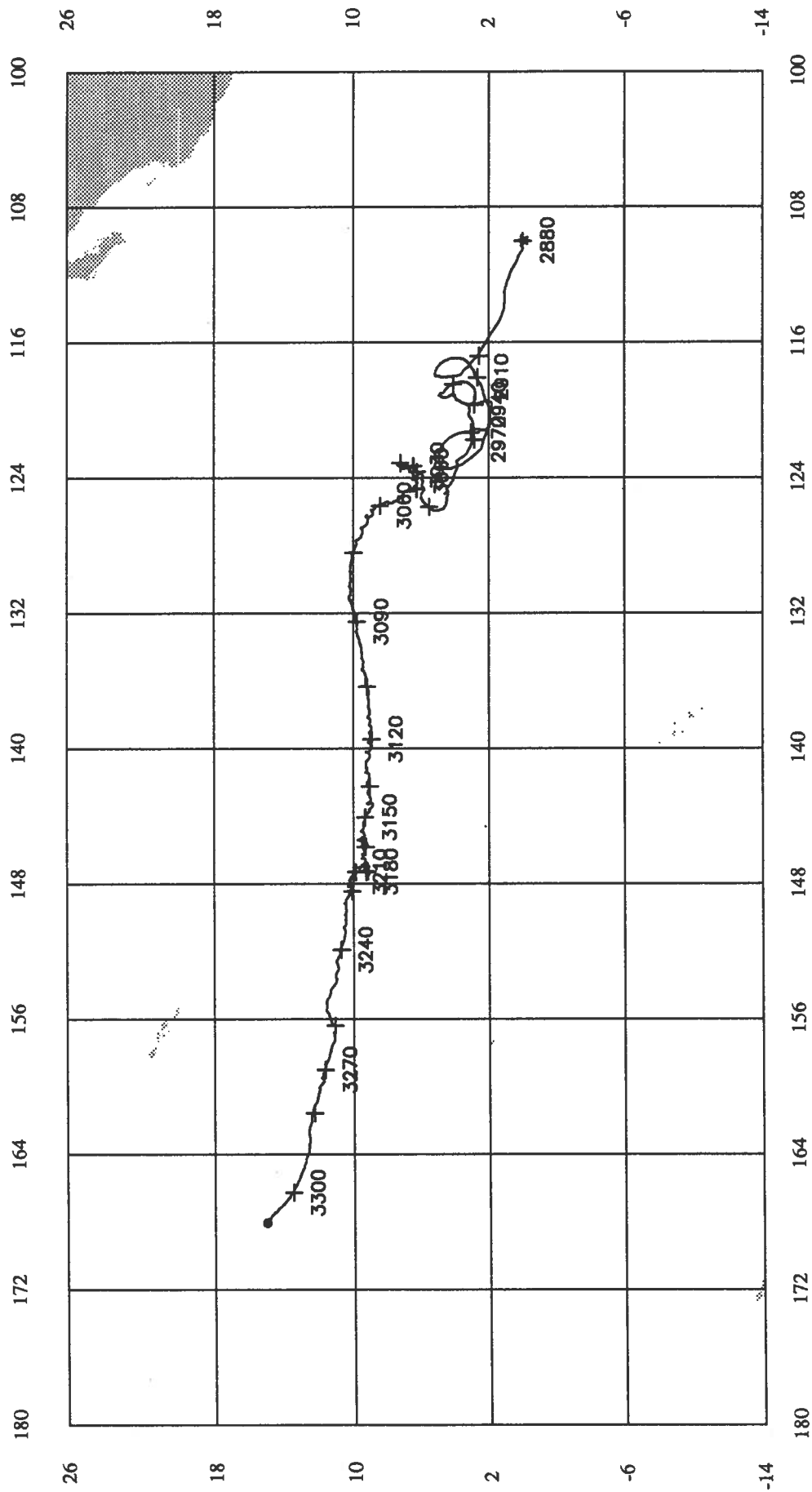
TEMPERATURE



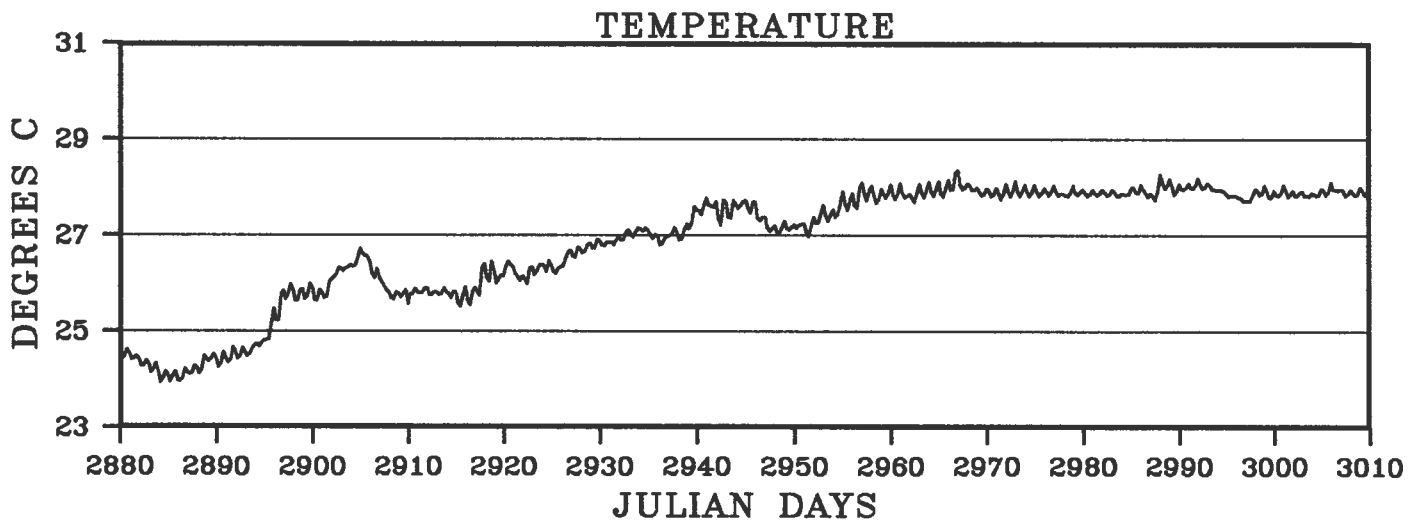
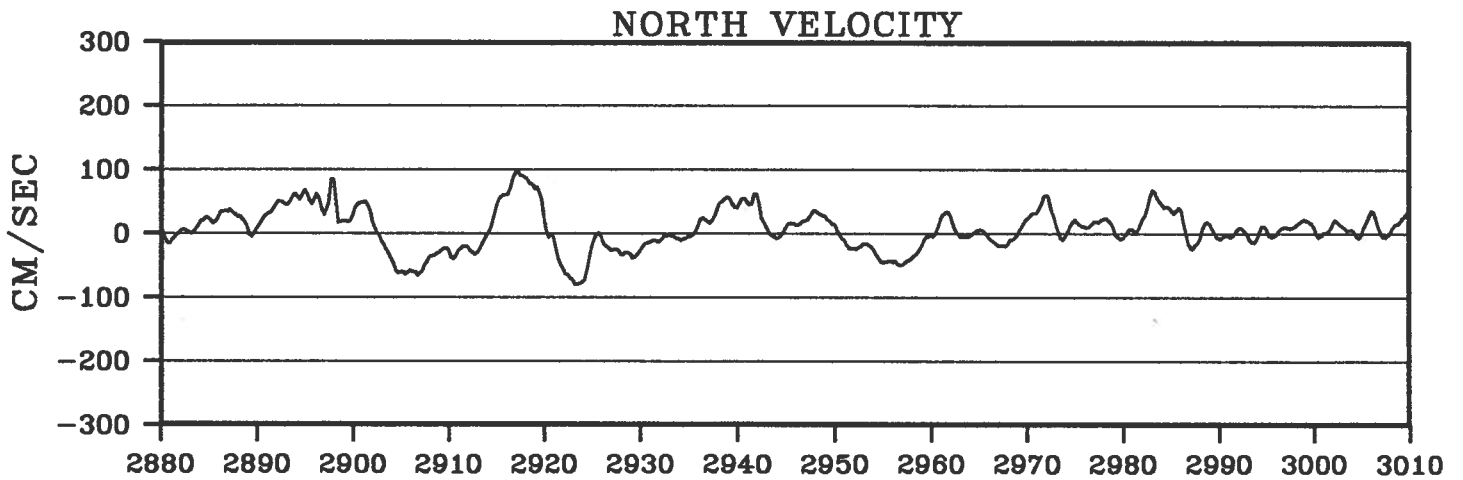
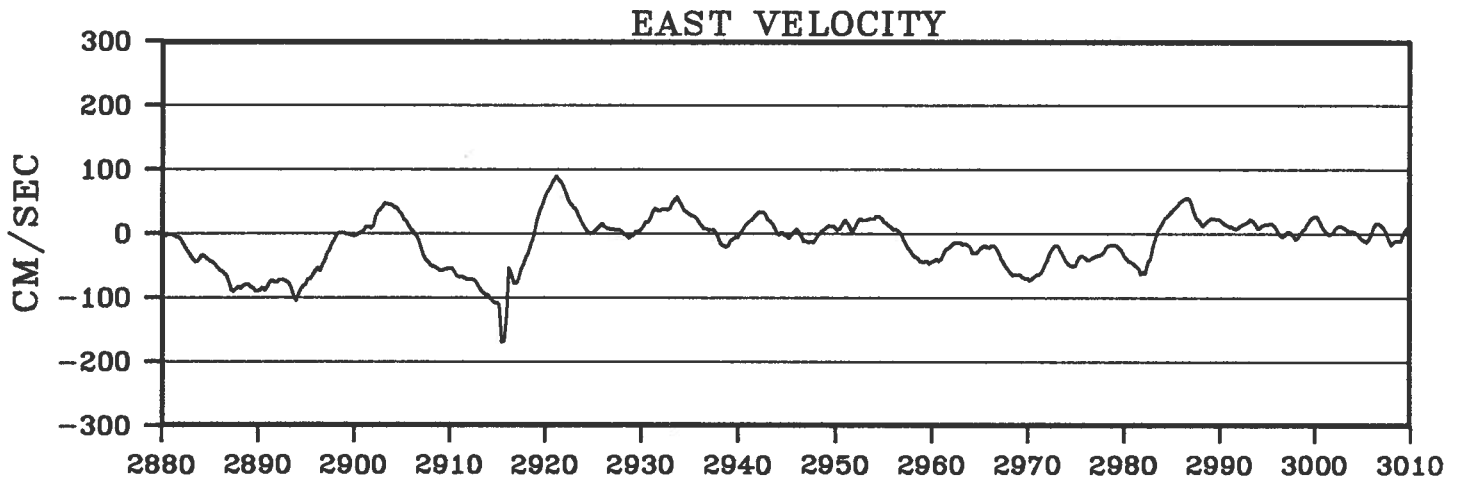
BUOY 4422



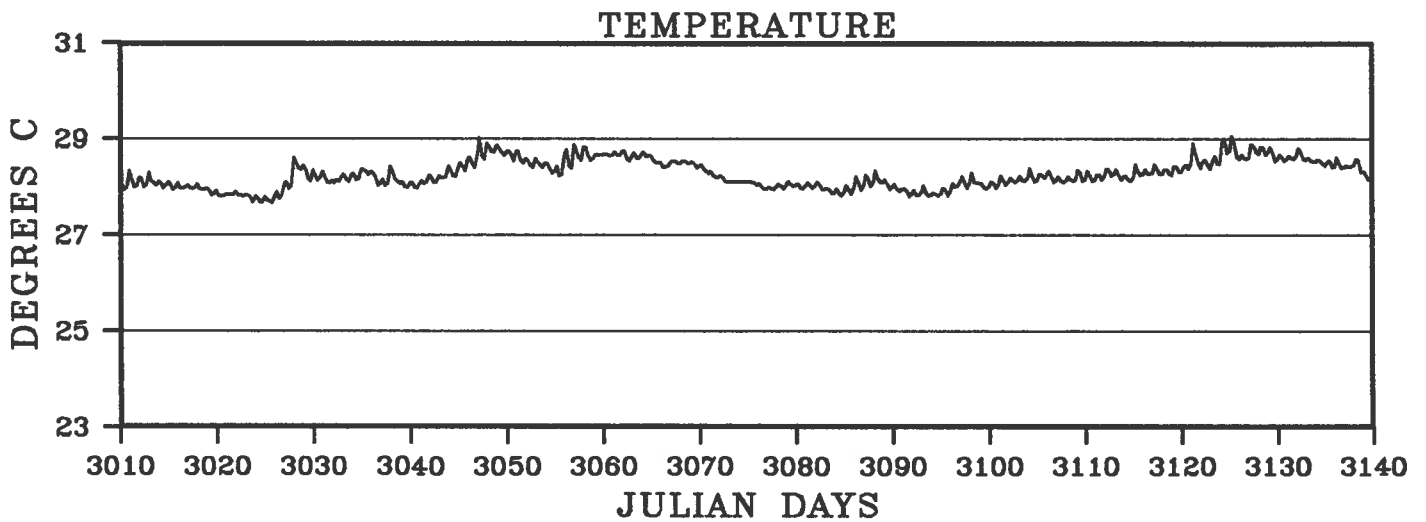
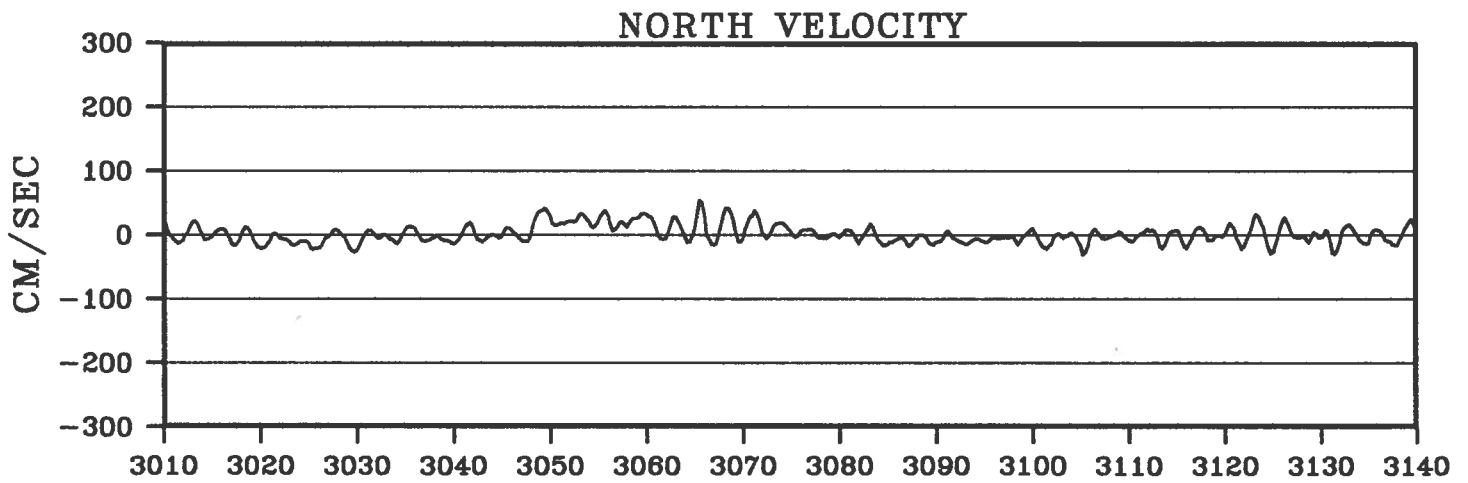
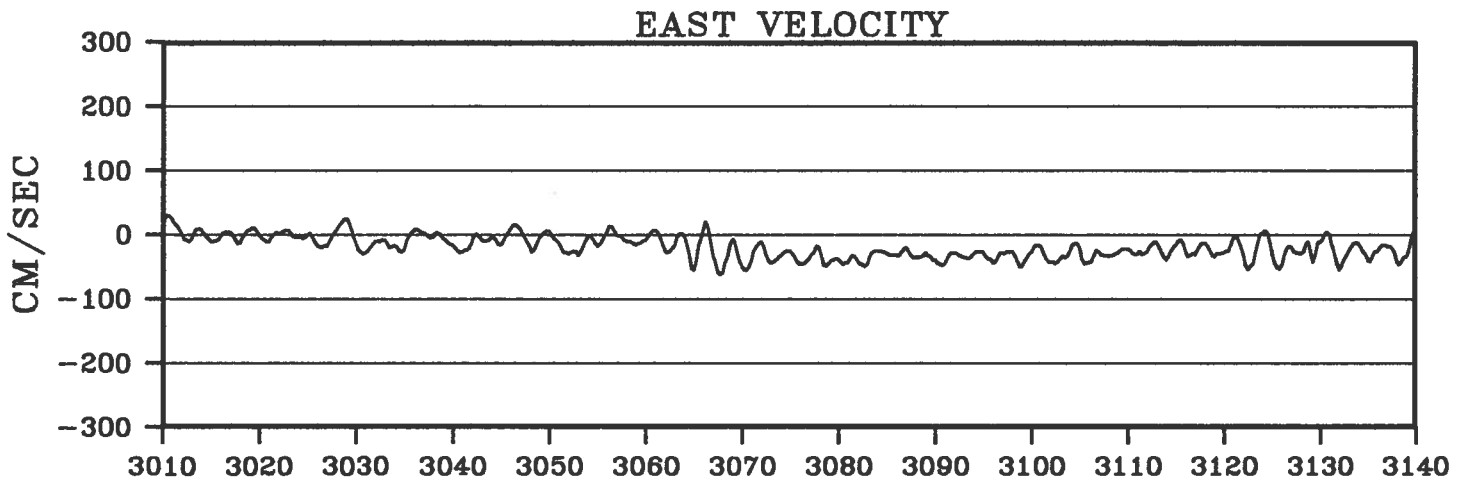
BUOY 4806



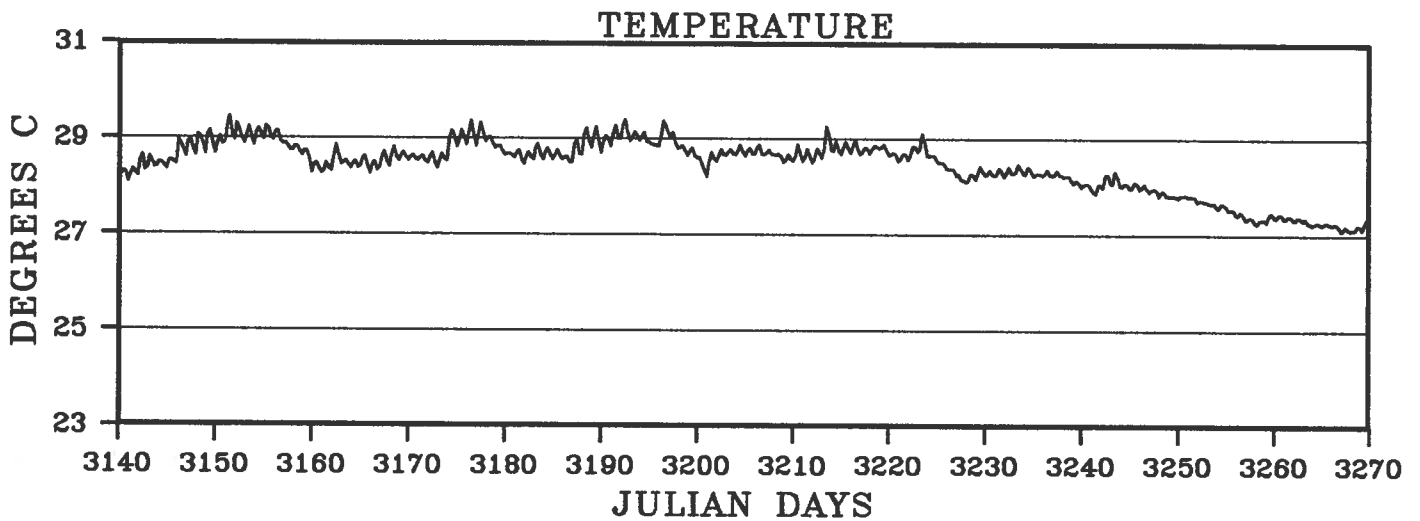
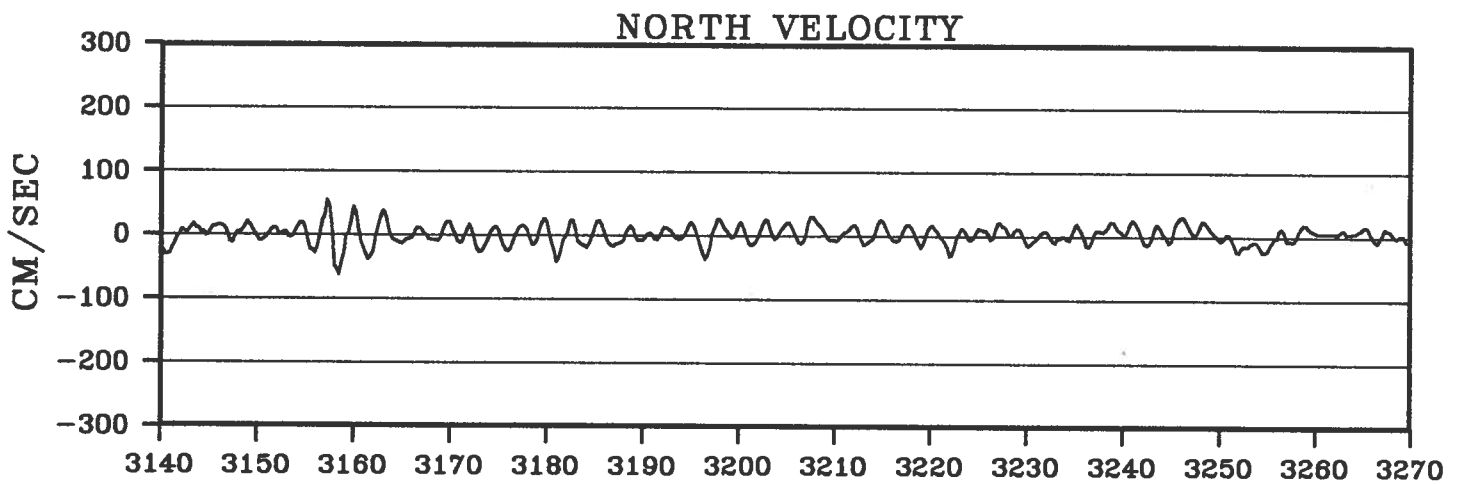
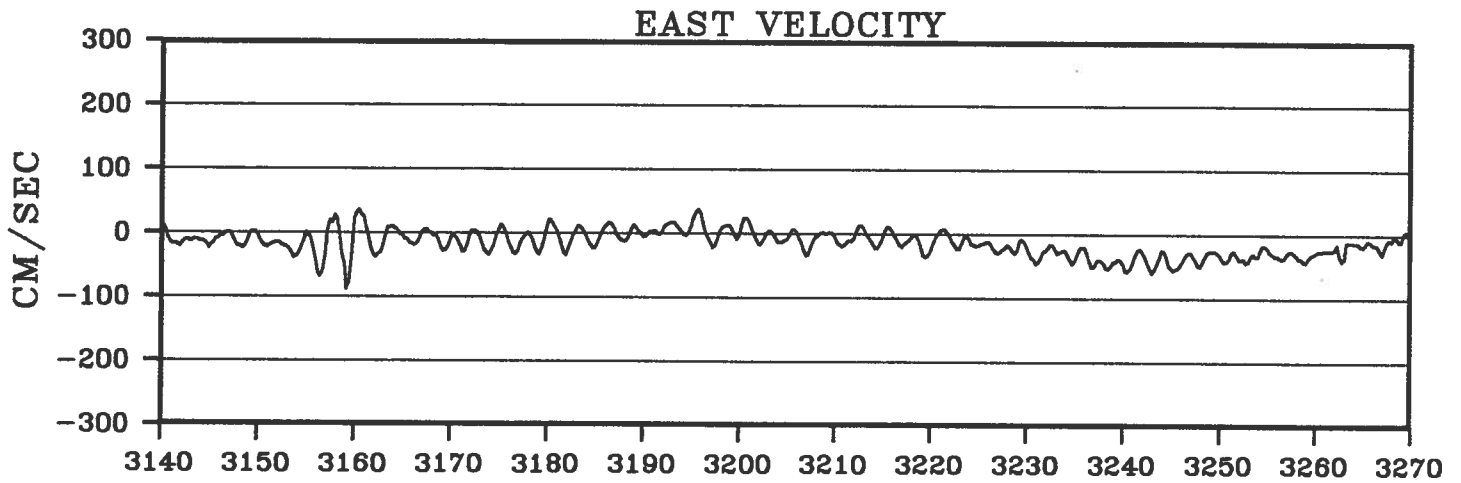
BUOY 4806



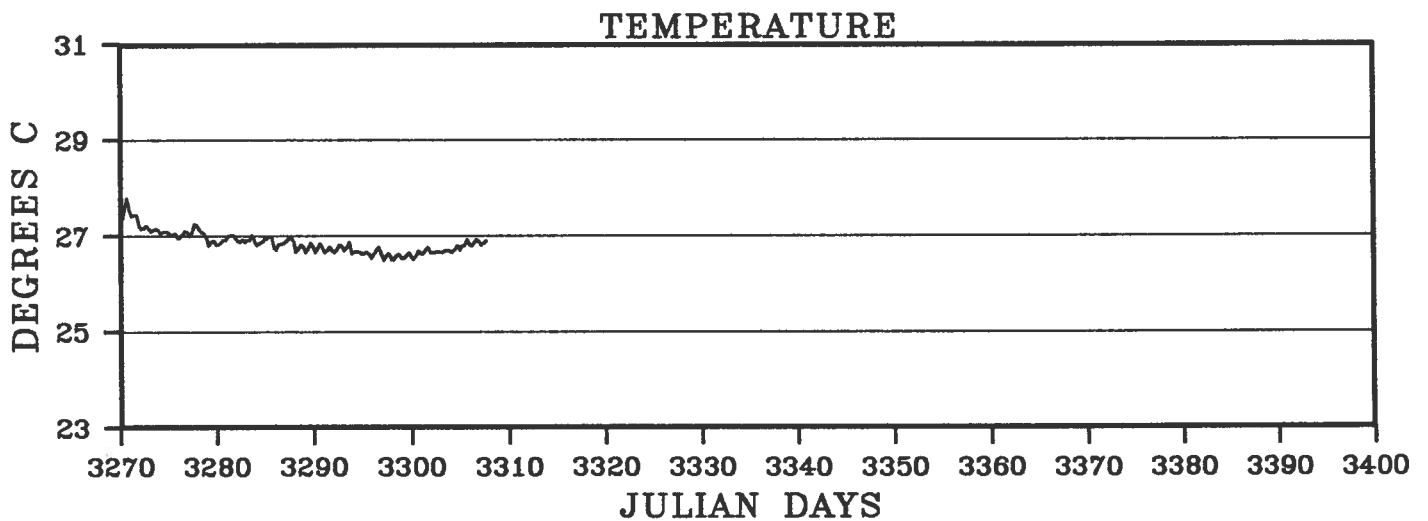
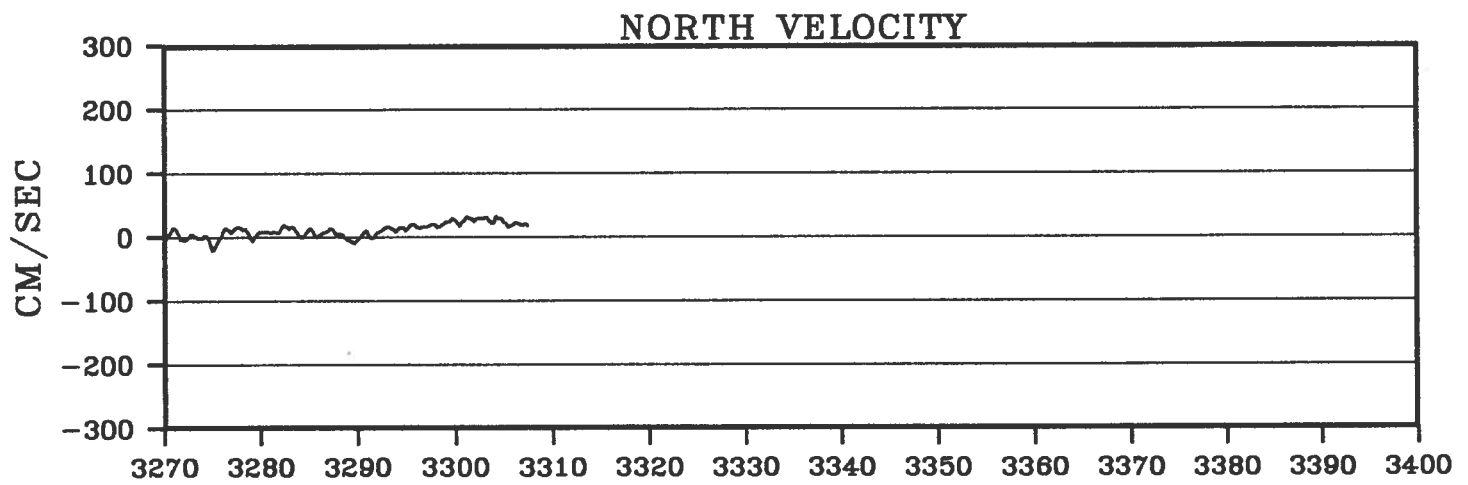
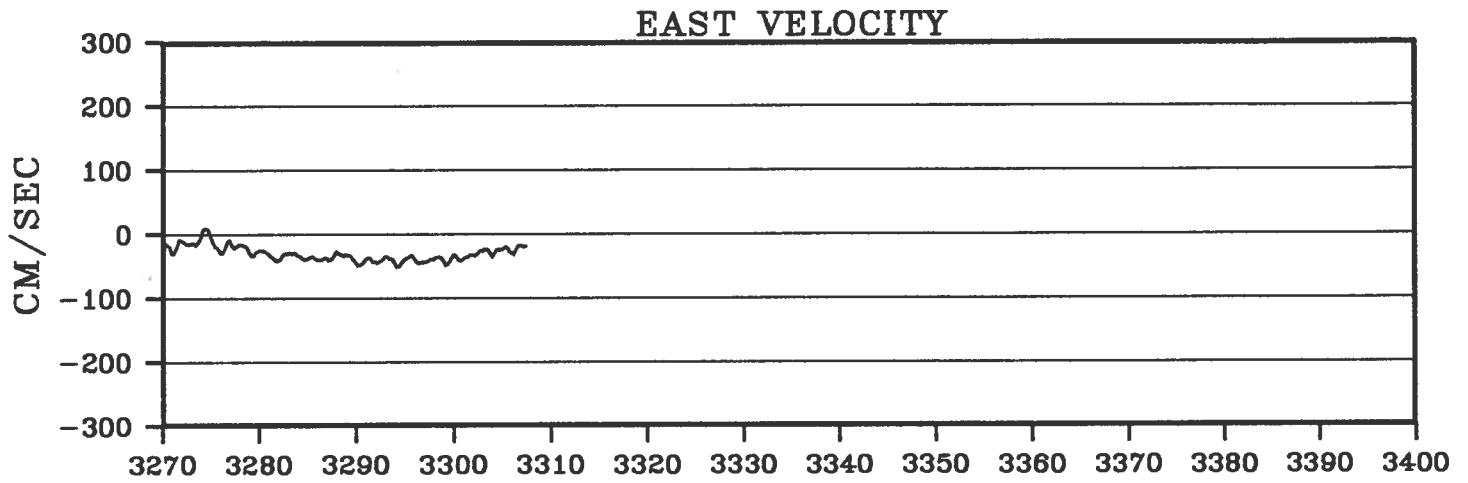
BUOY 4806



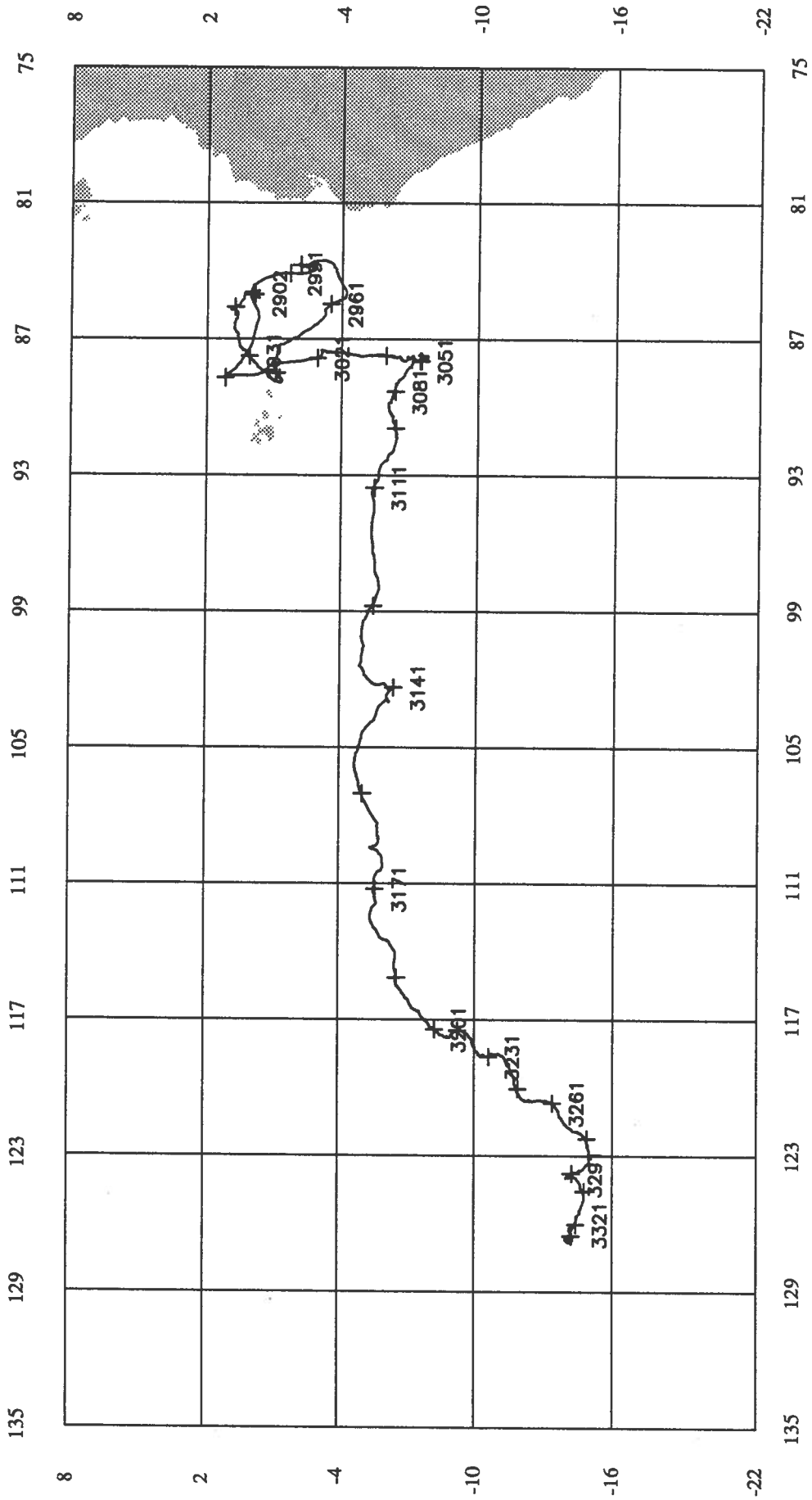
BUOY 4806



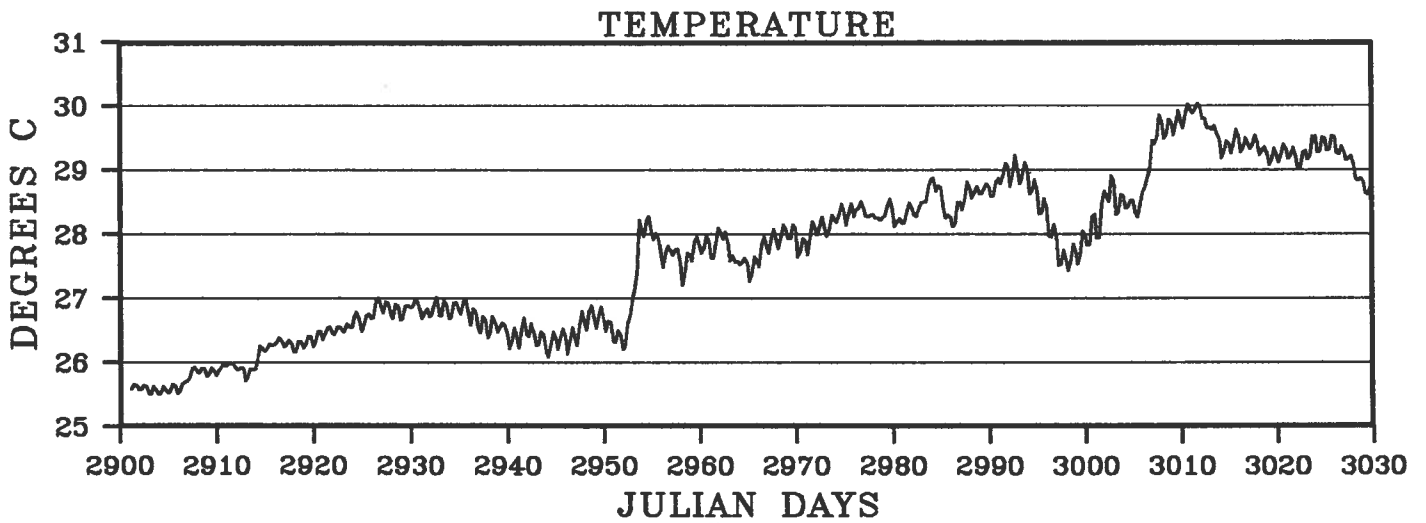
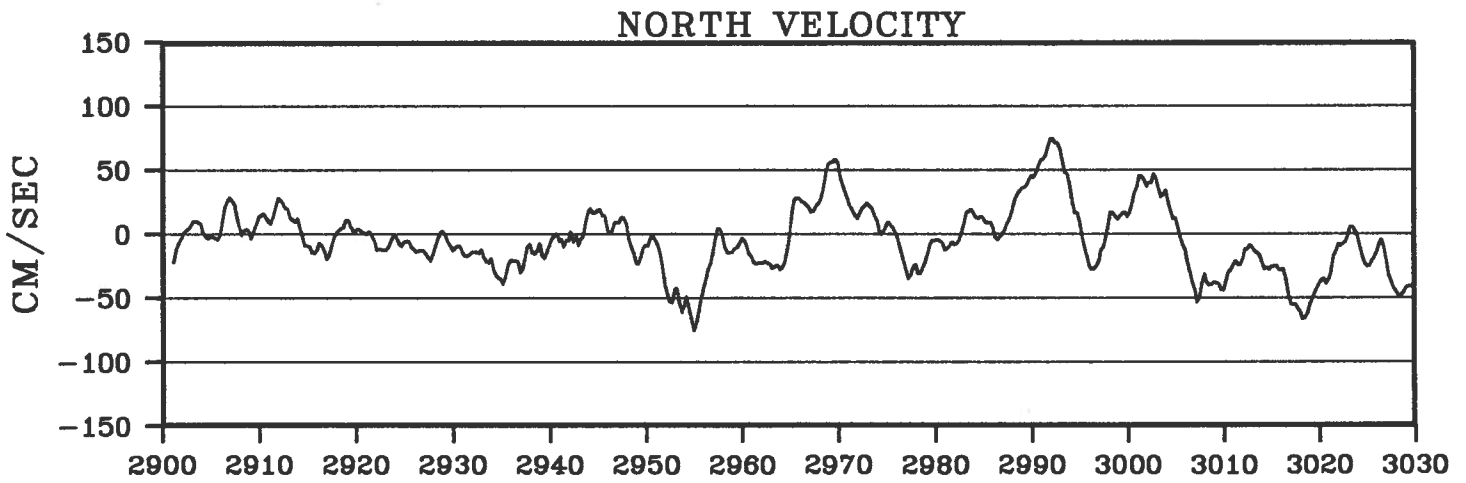
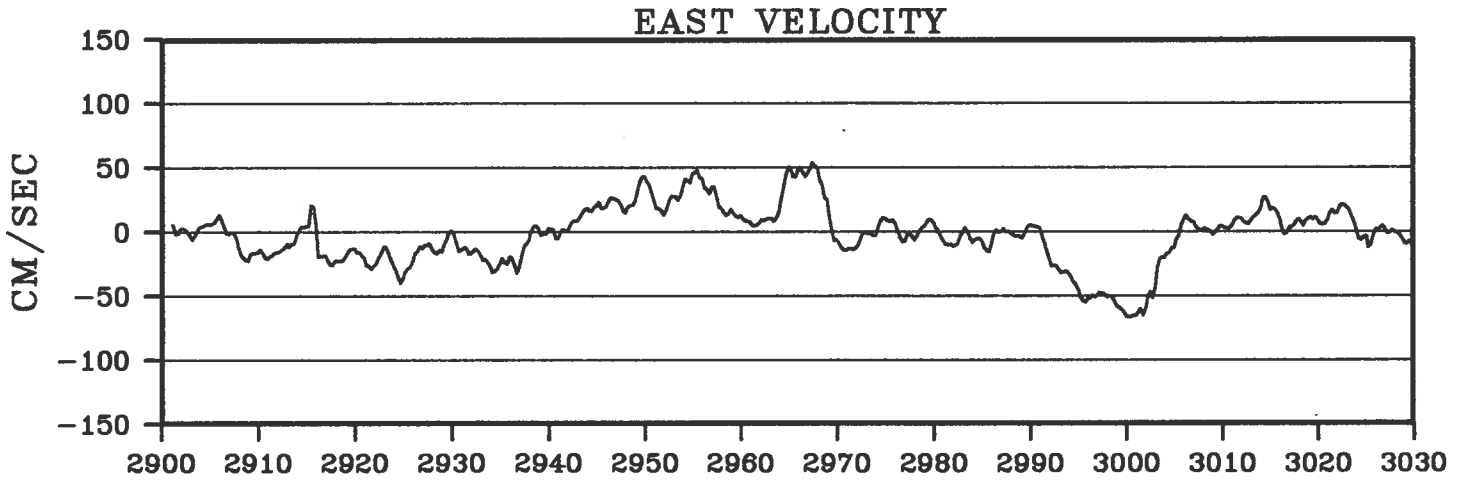
BUOY 4806



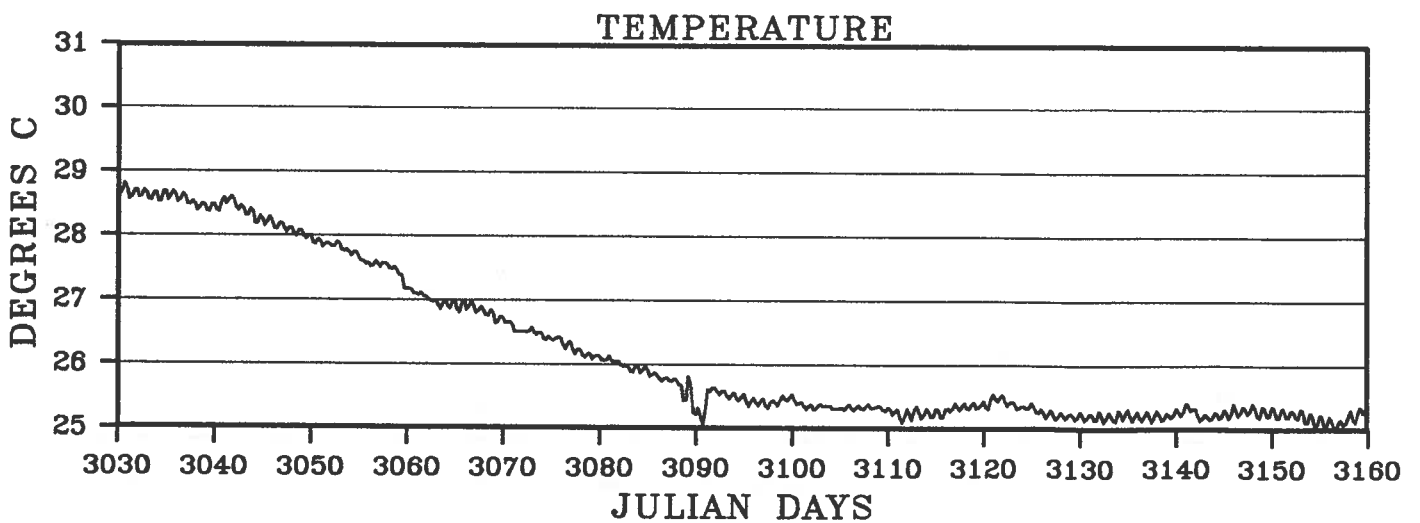
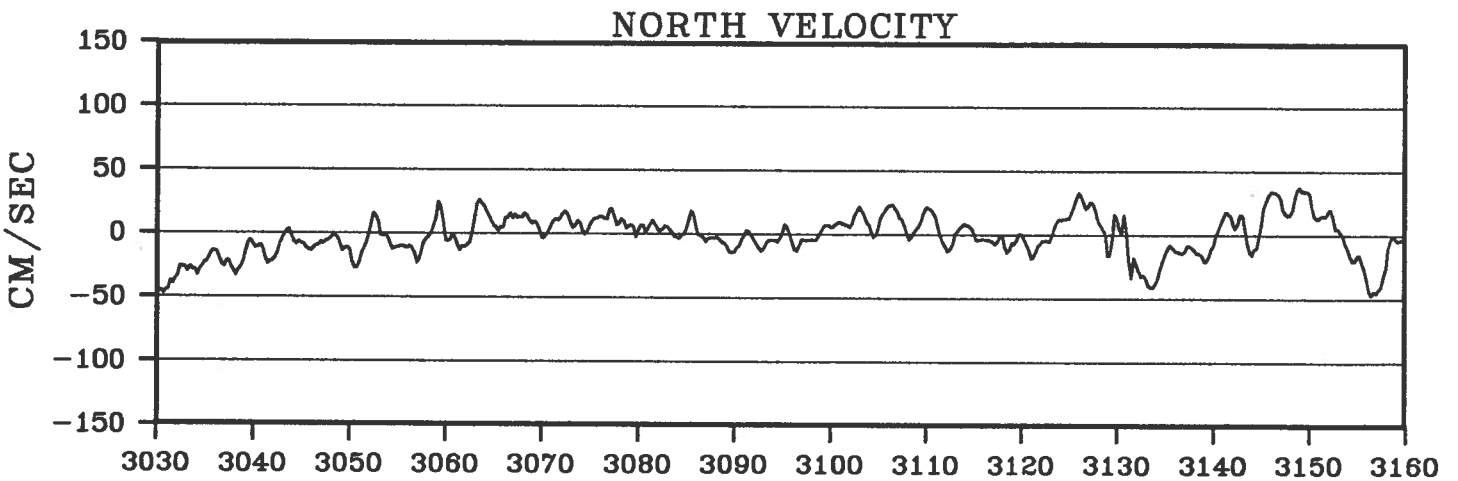
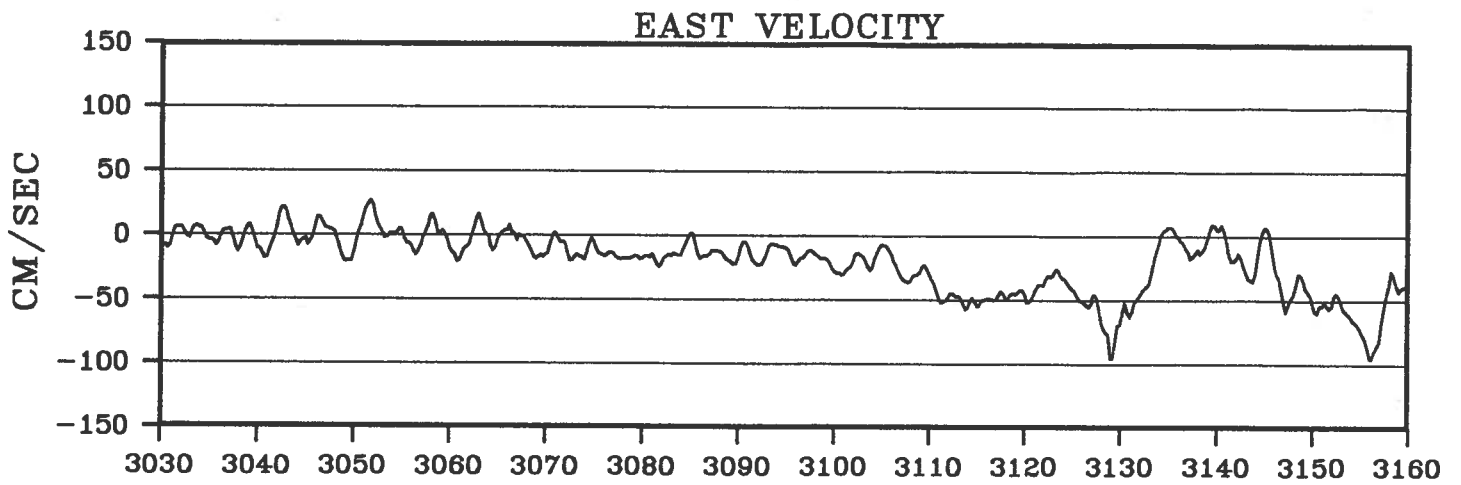
BUOY 4807



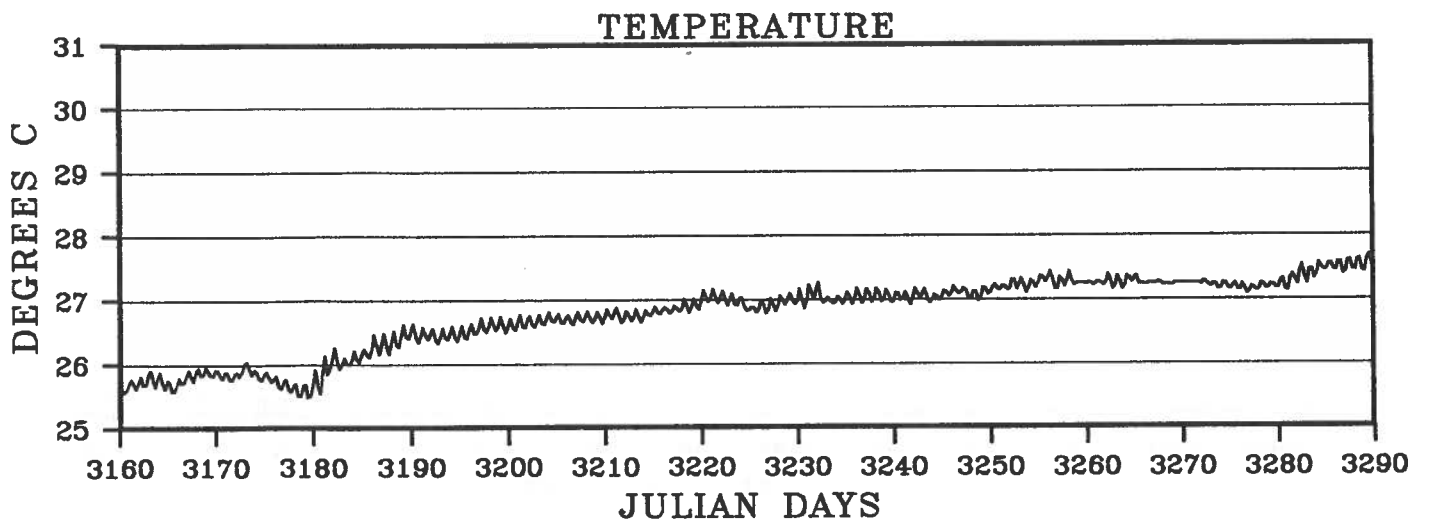
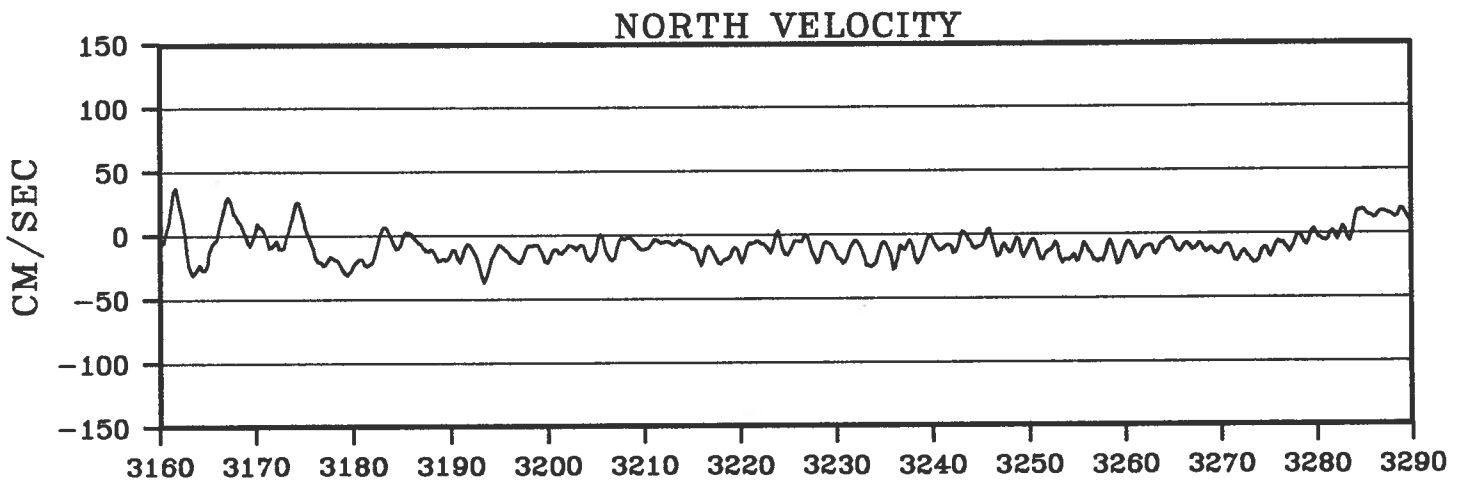
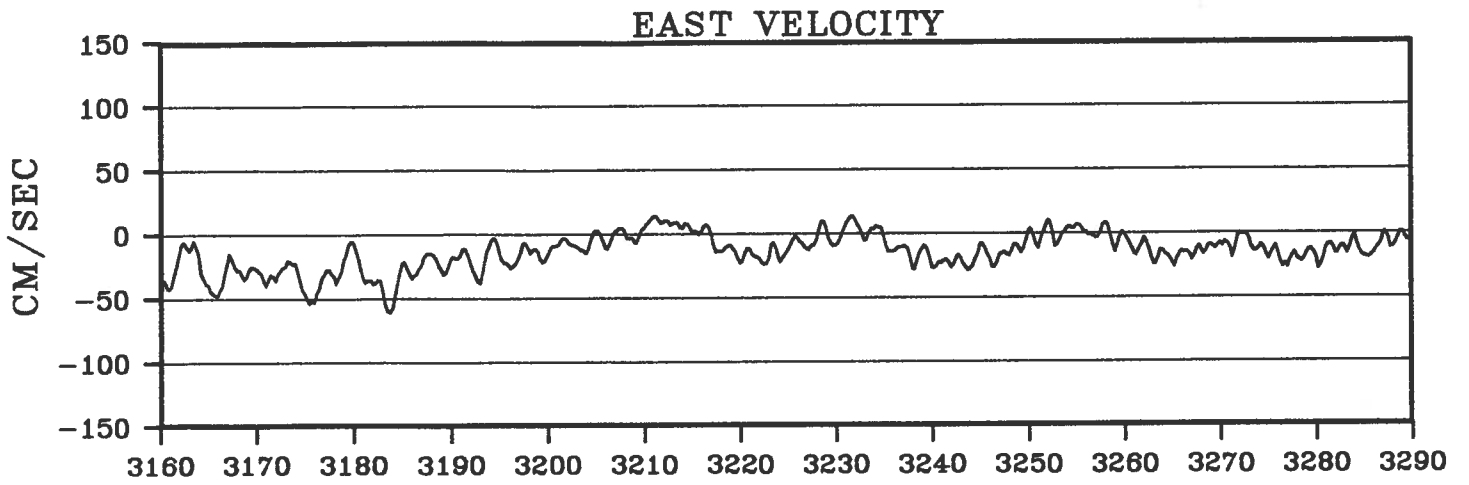
BUOY 4807



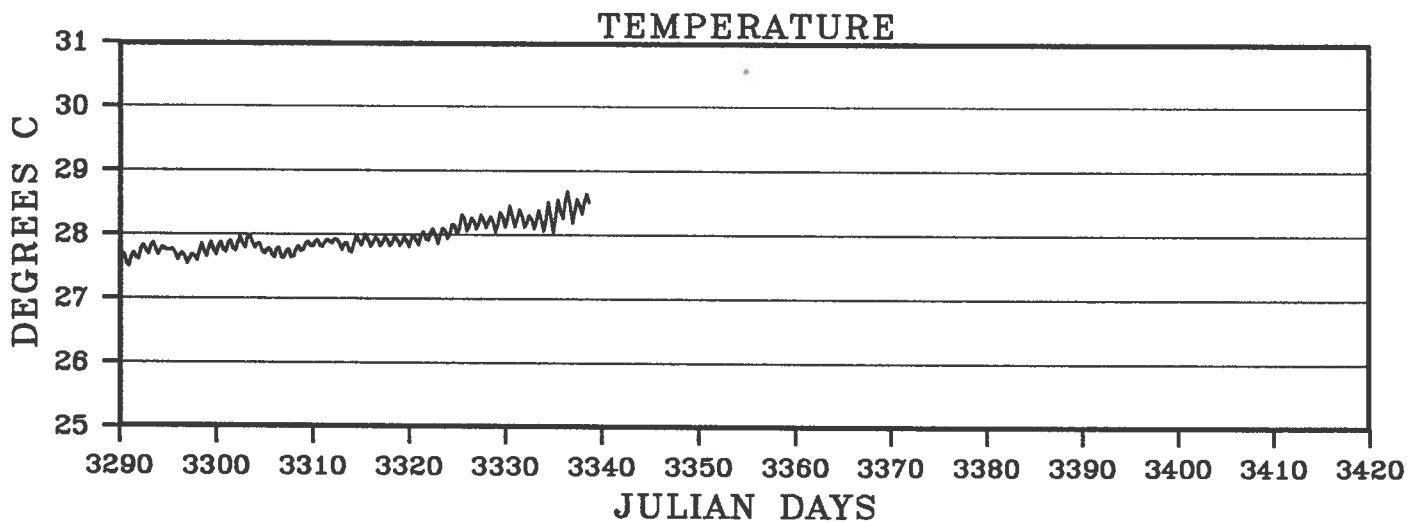
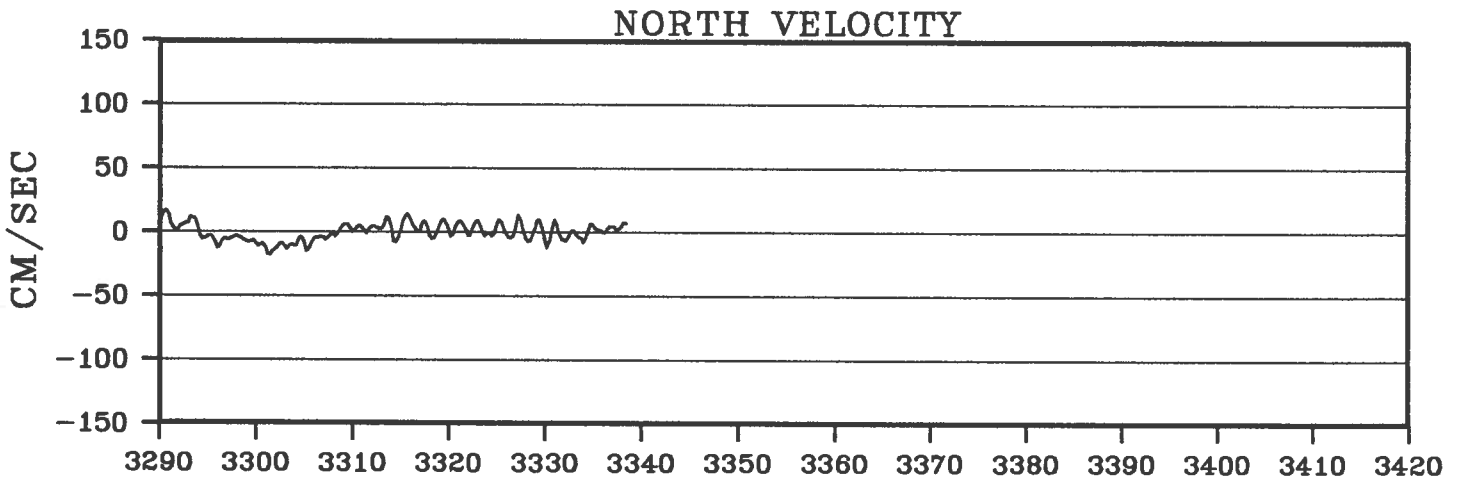
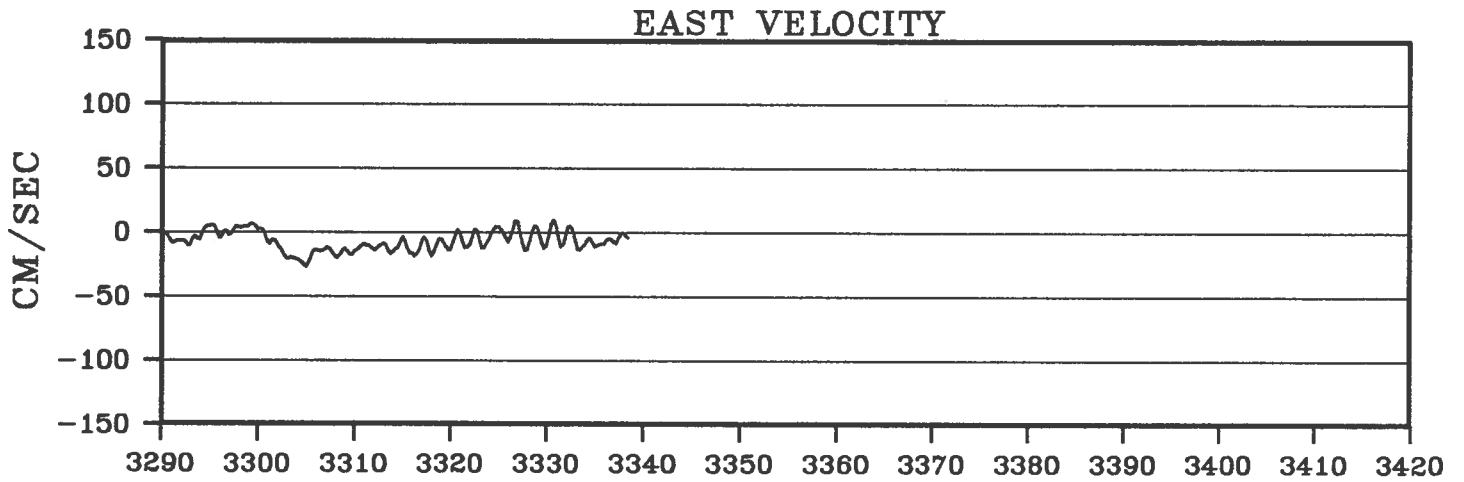
BUOY 4807



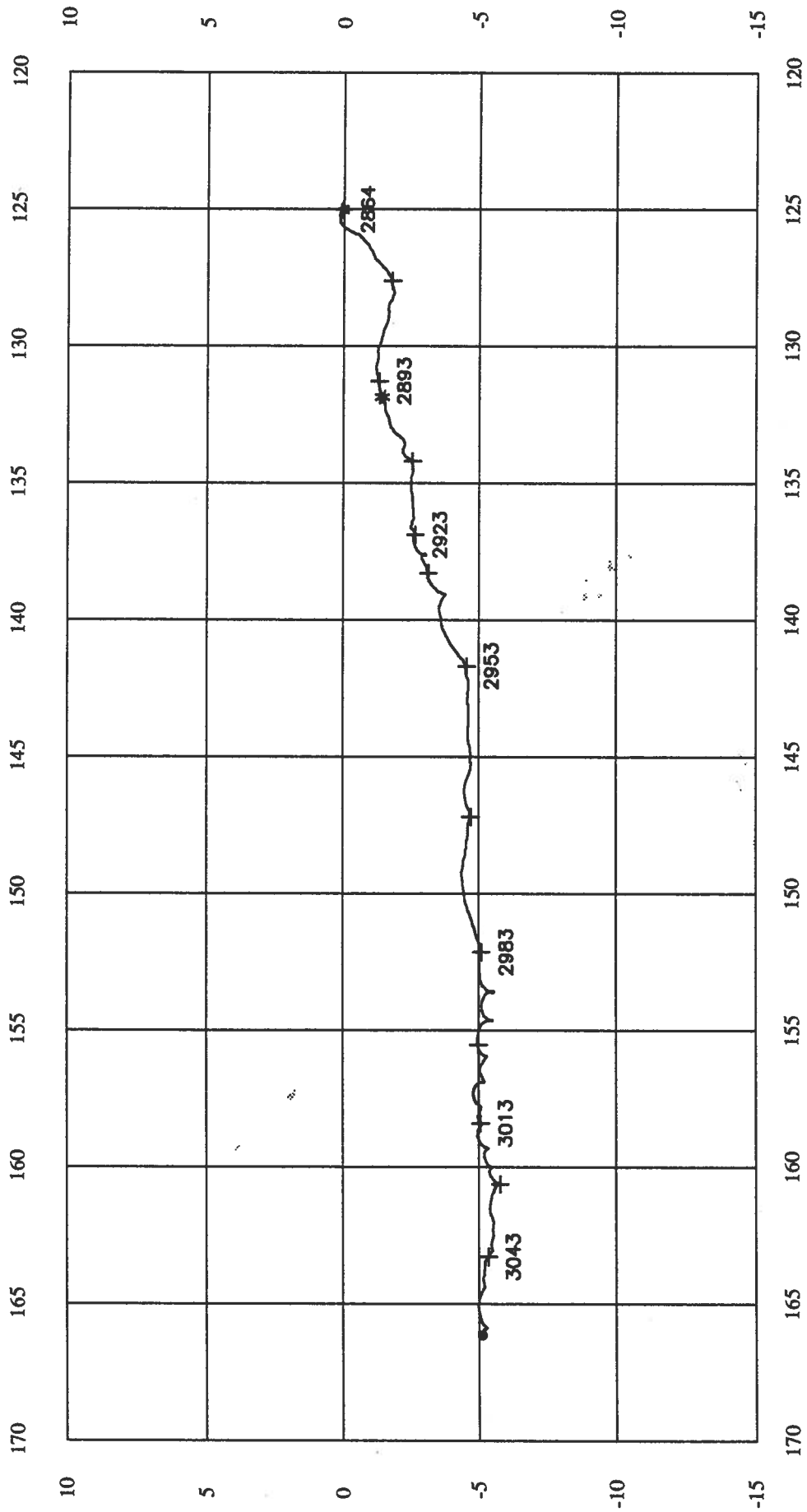
BUOY 4807



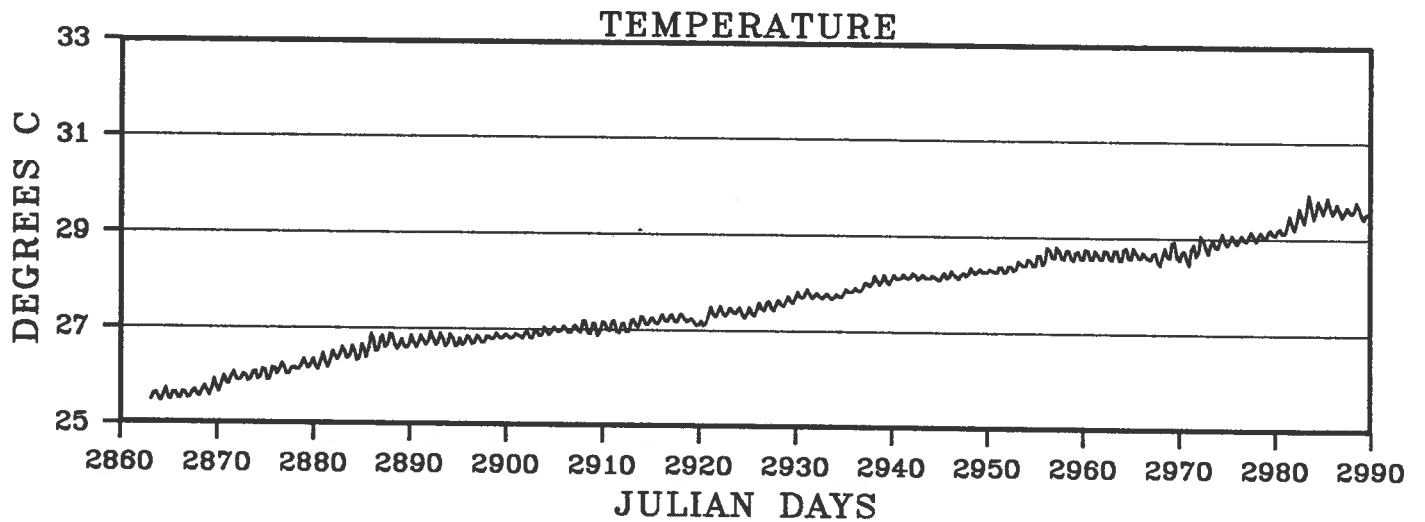
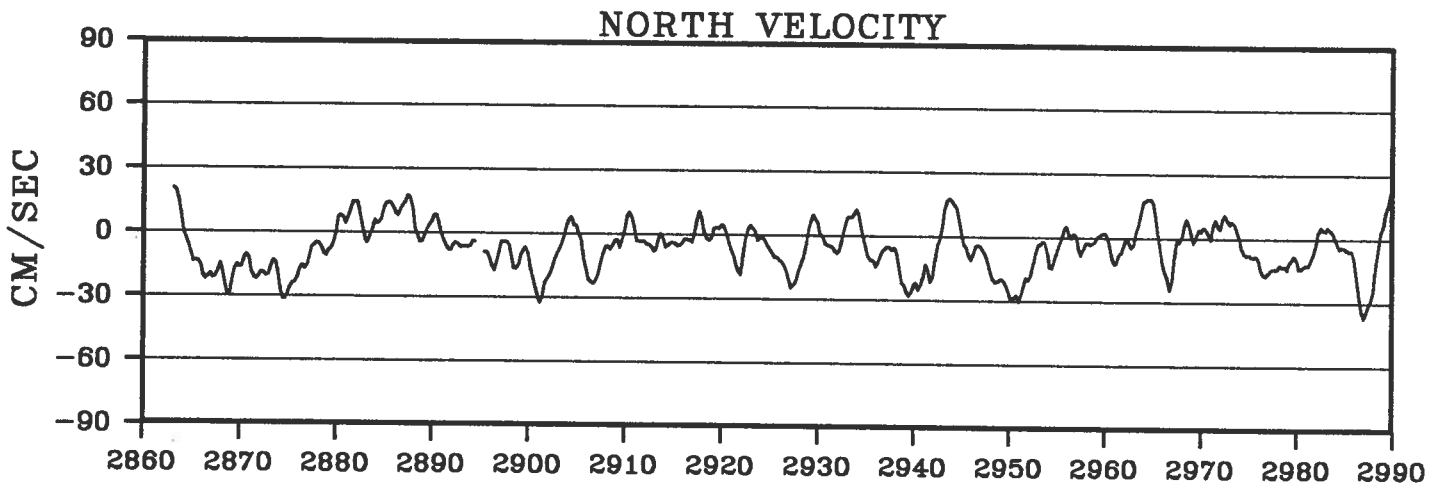
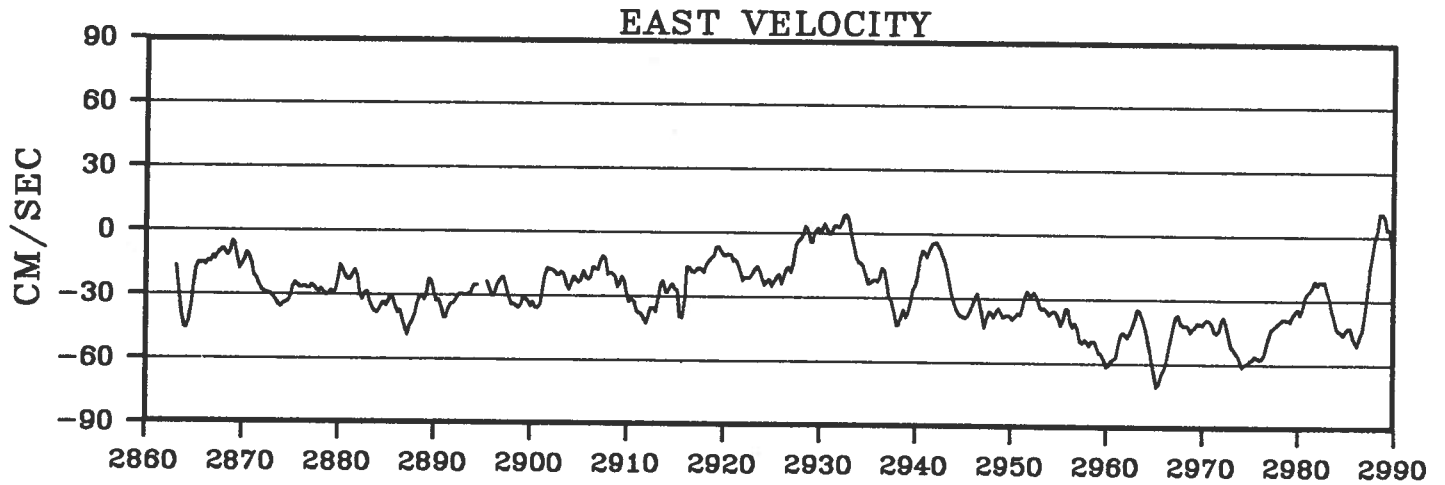
BUOY 4807



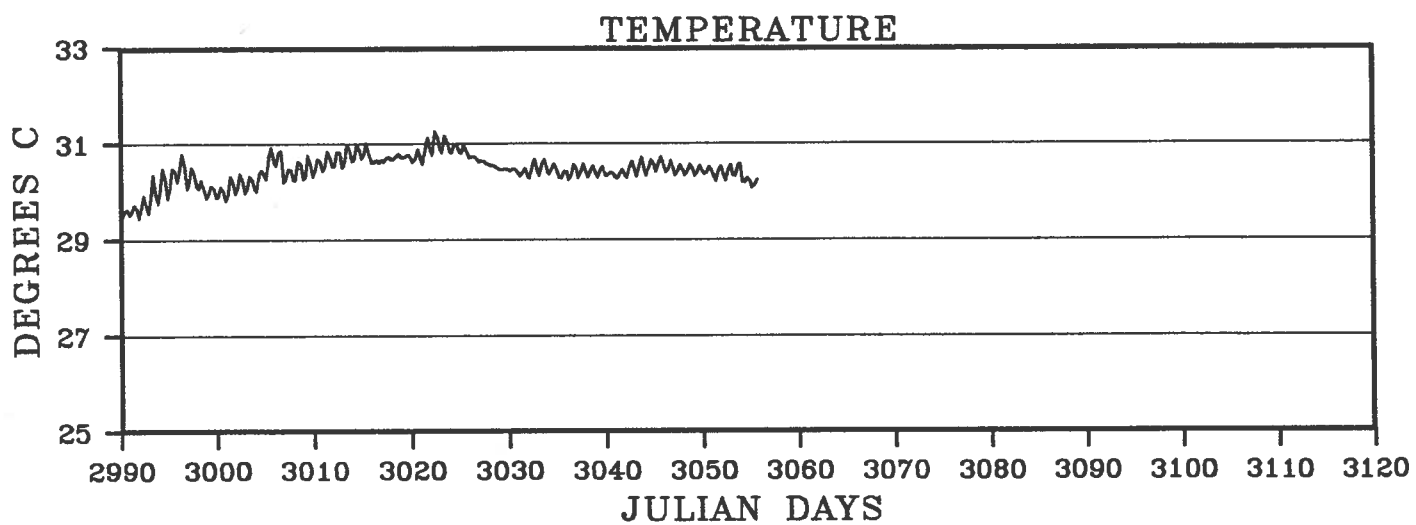
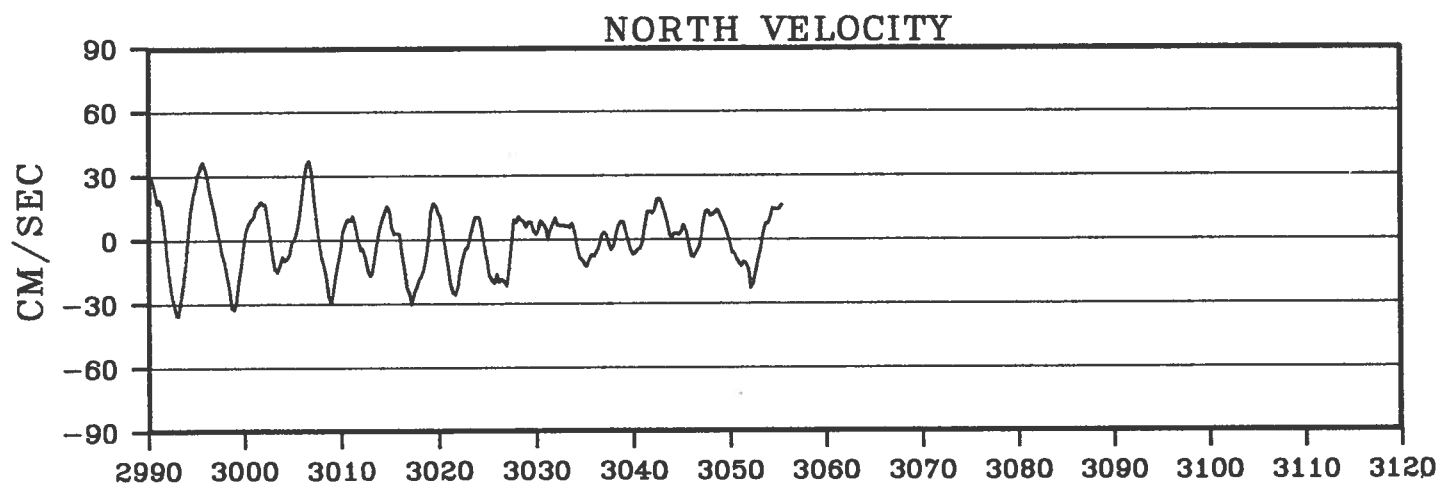
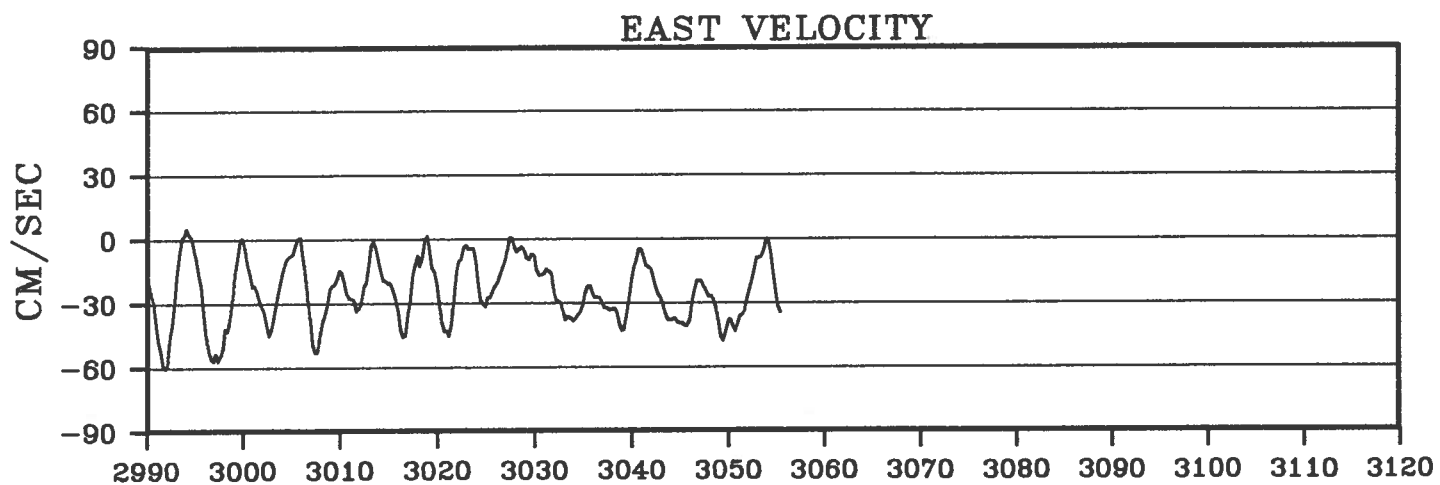
BUOY 4808



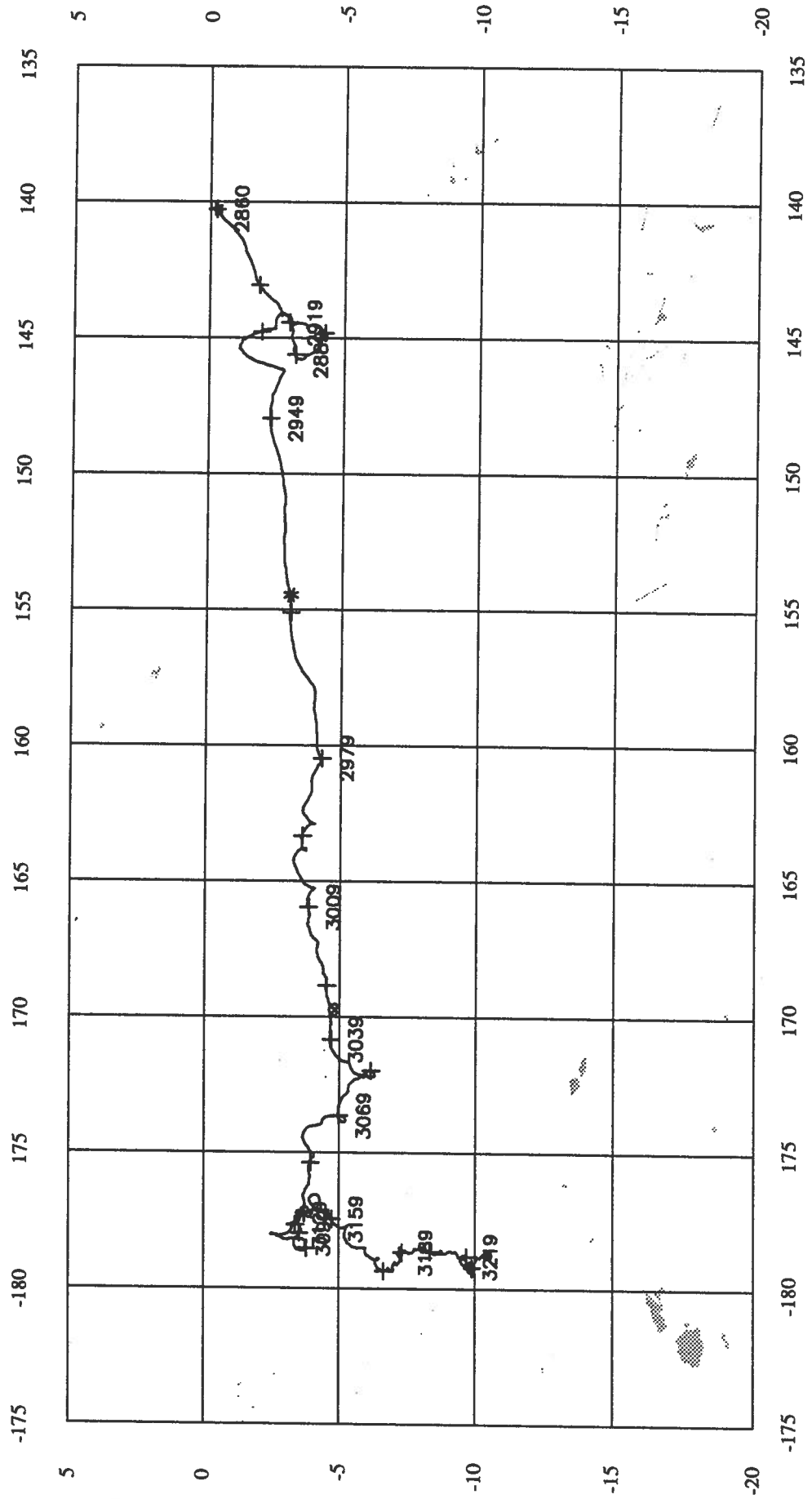
BUOY 4808



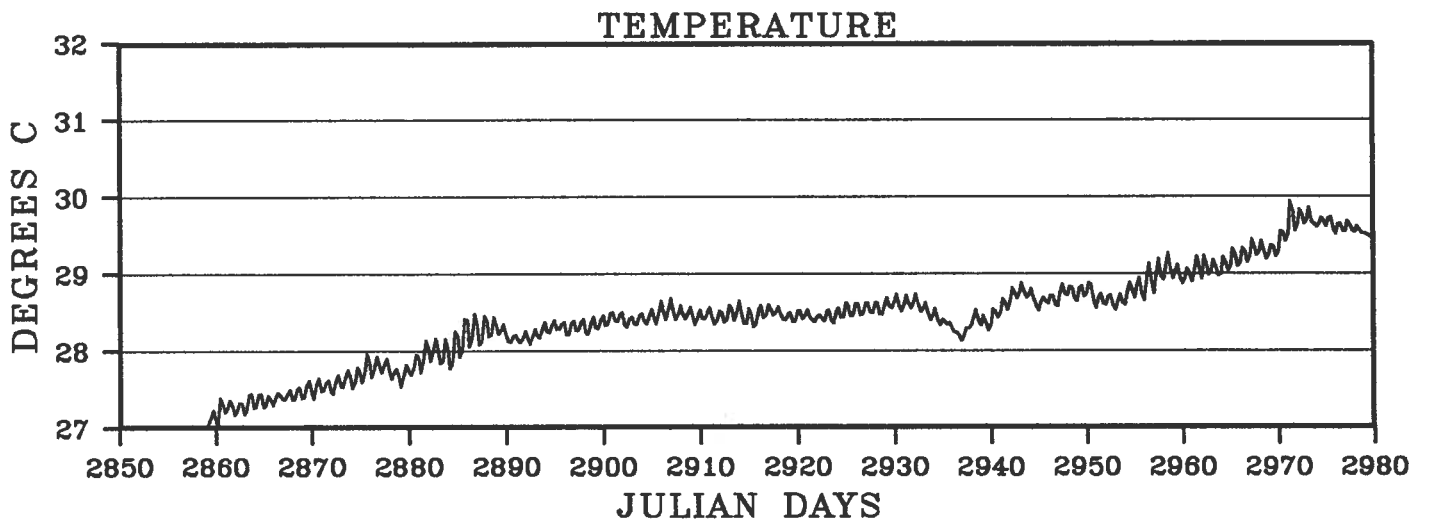
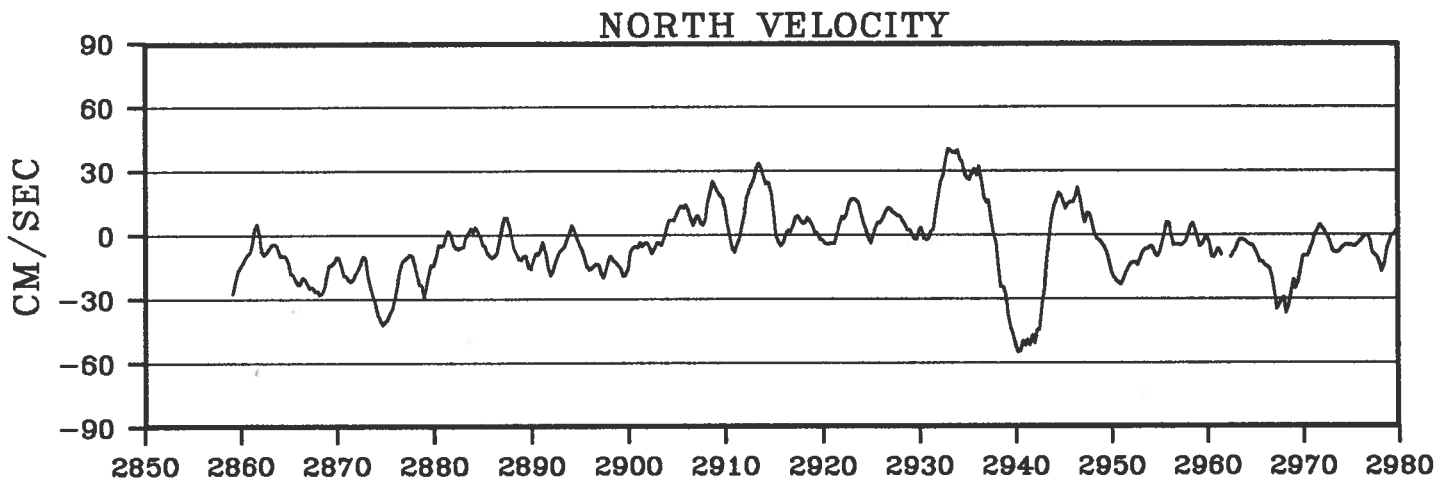
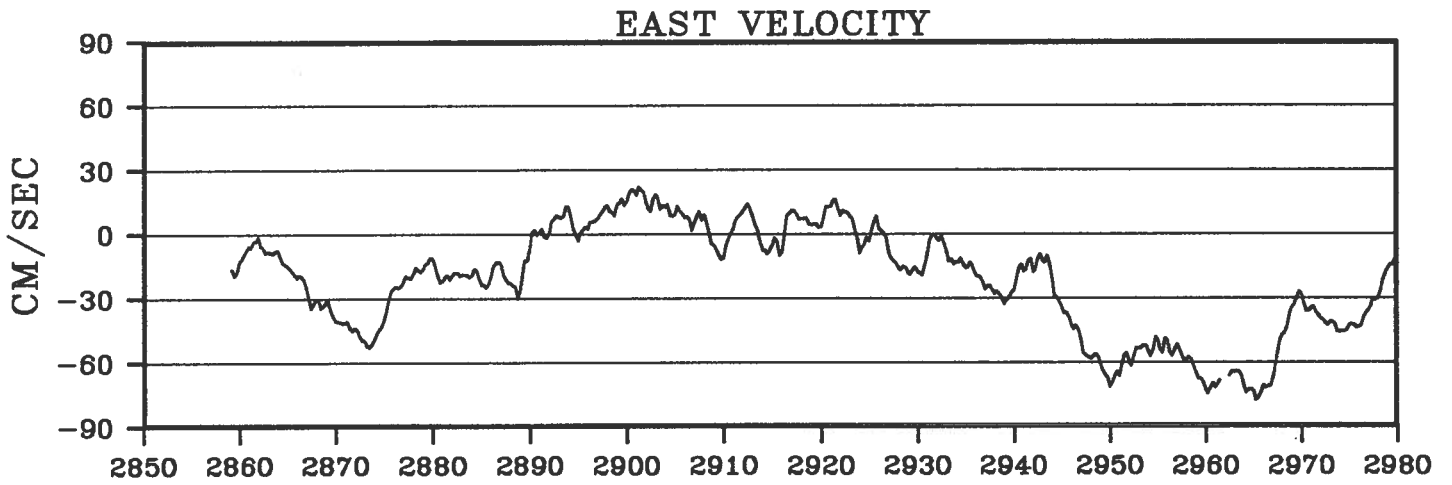
BUOY 4808



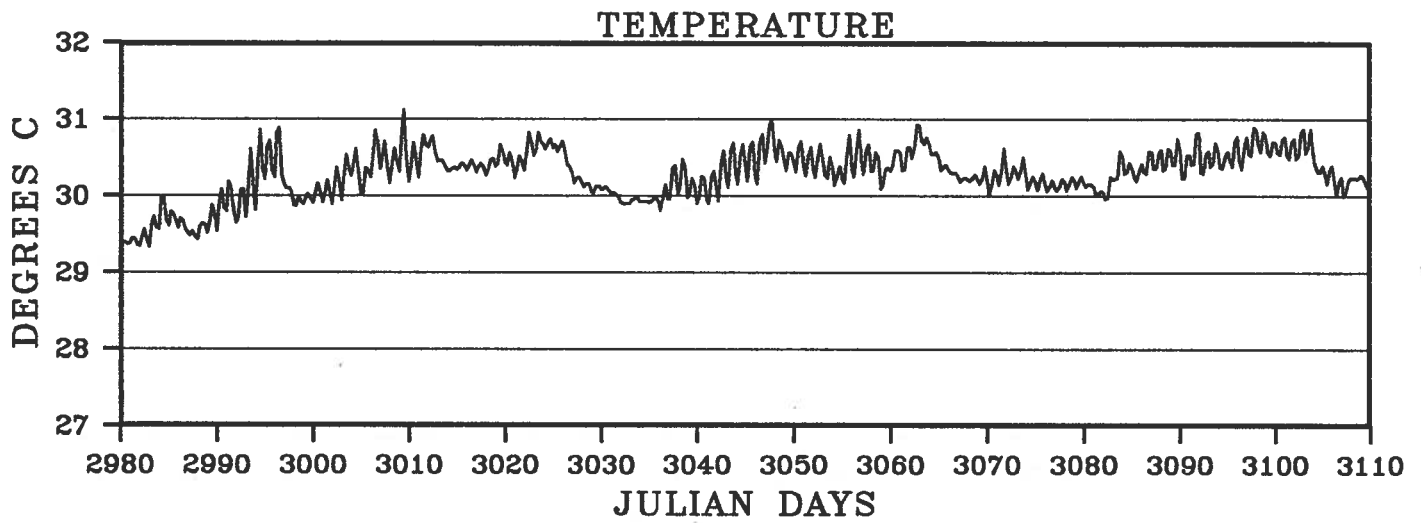
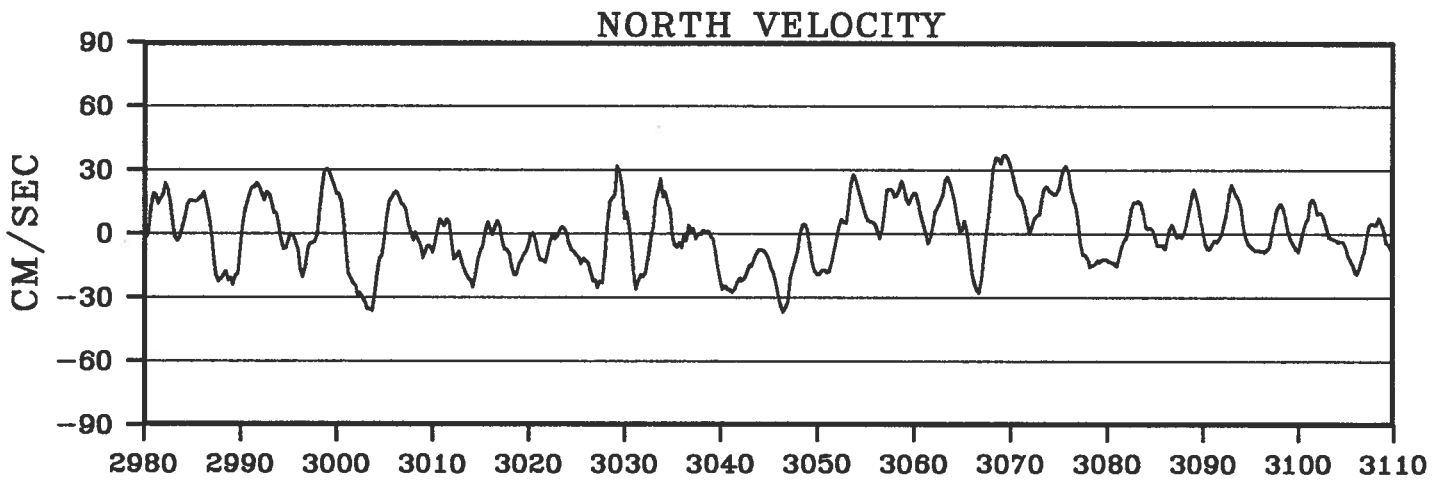
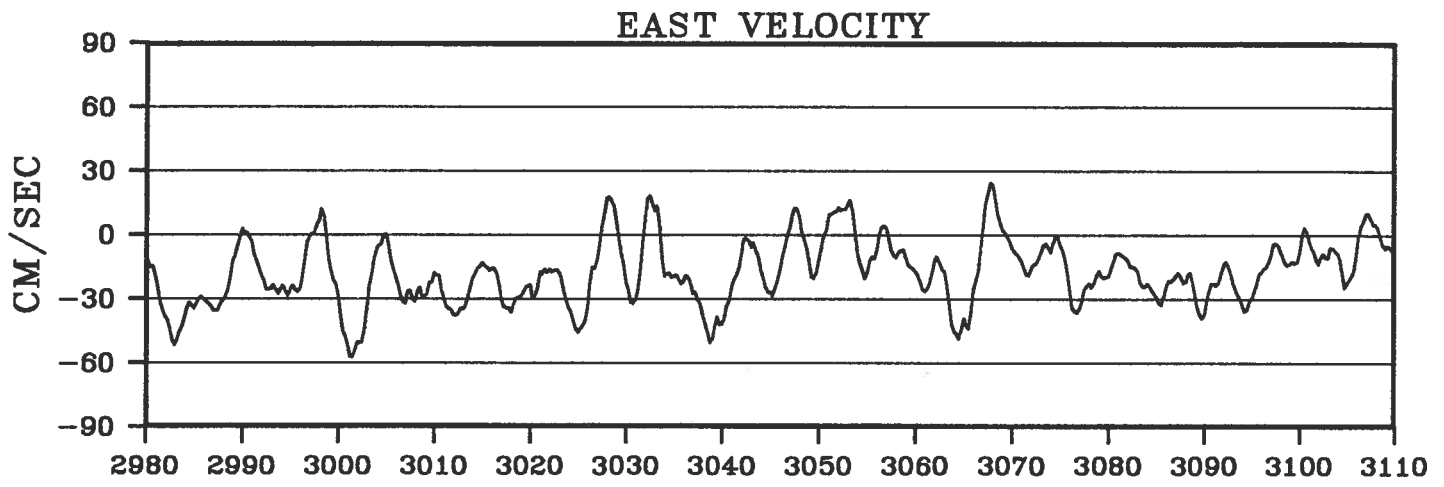
BUOY 4809



BUOY 4809

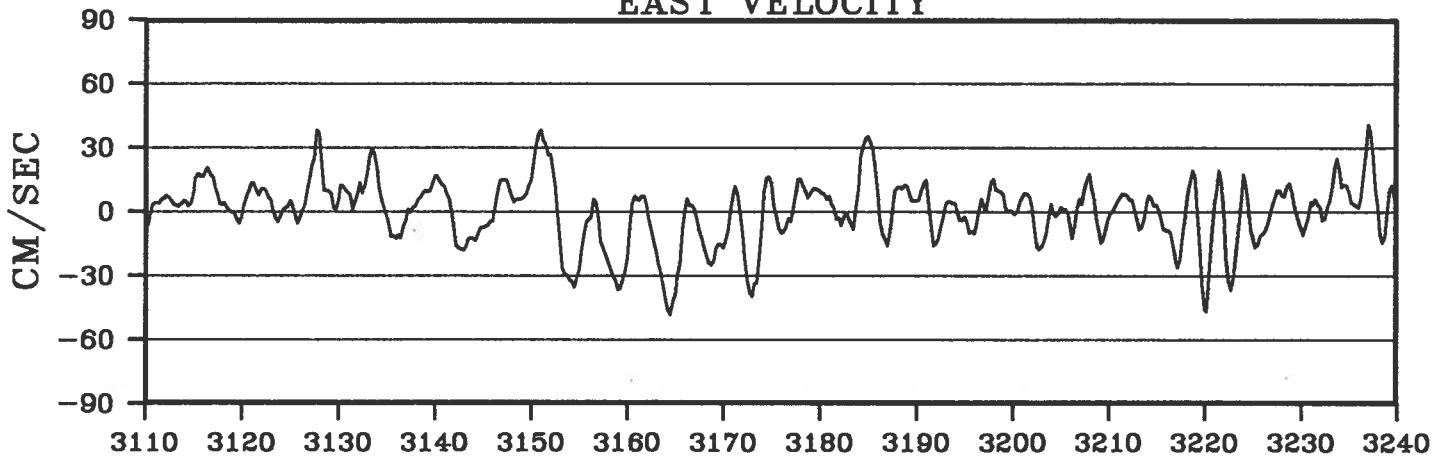


BUOY 4809

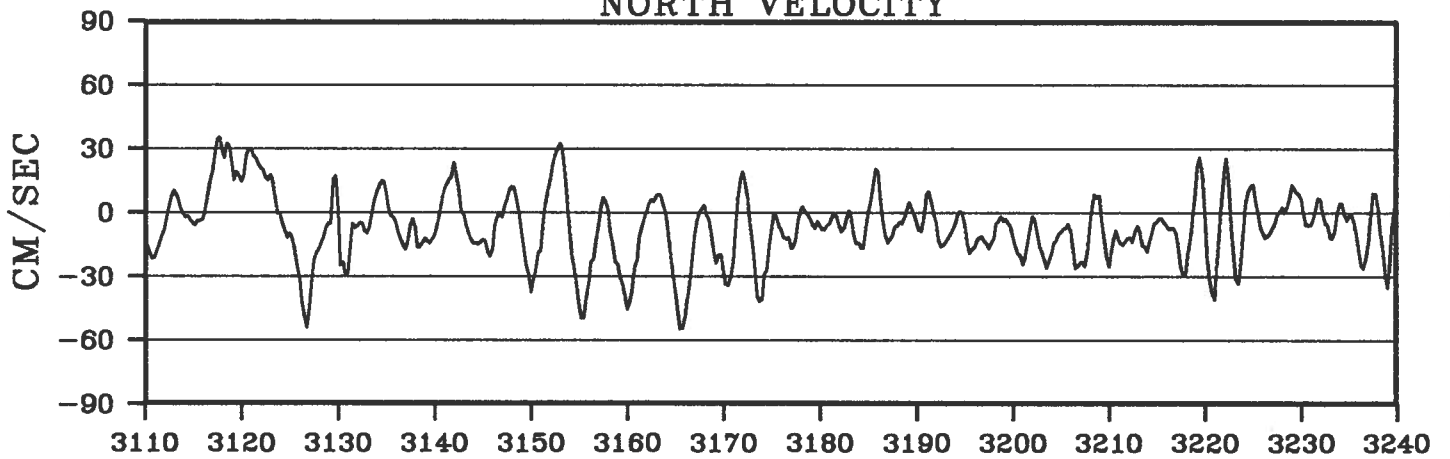


BUOY 4809

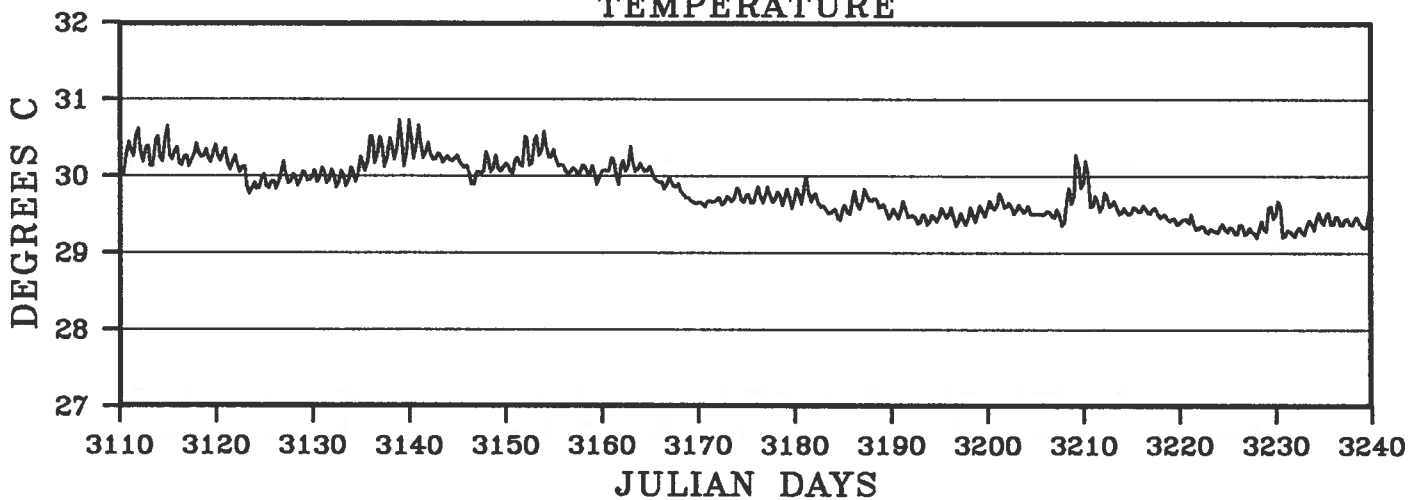
EAST VELOCITY



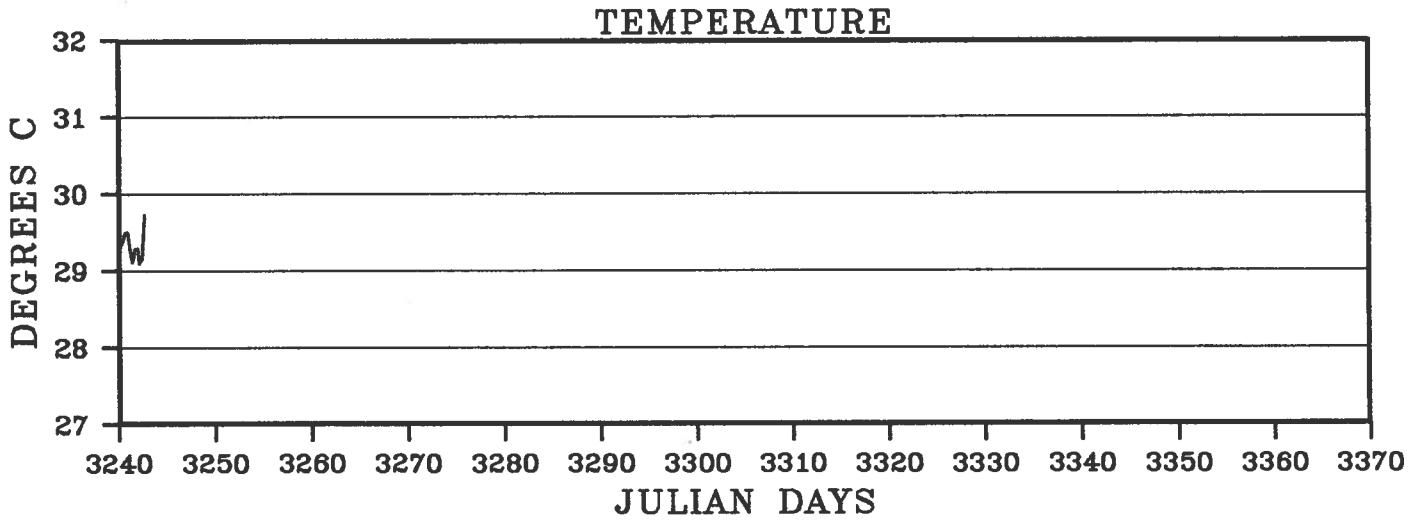
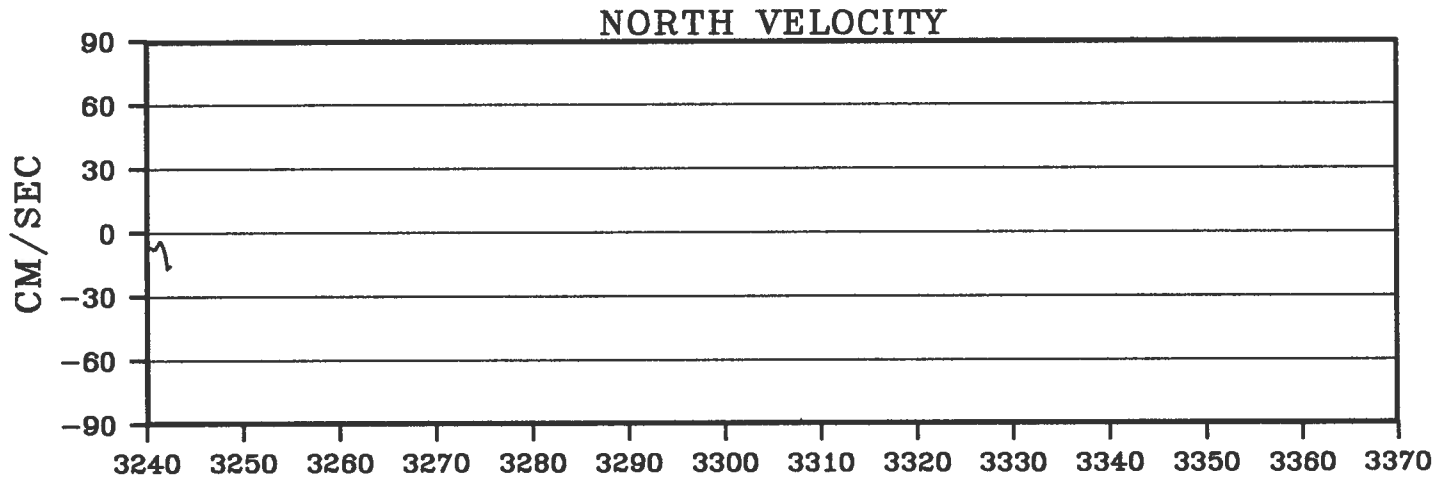
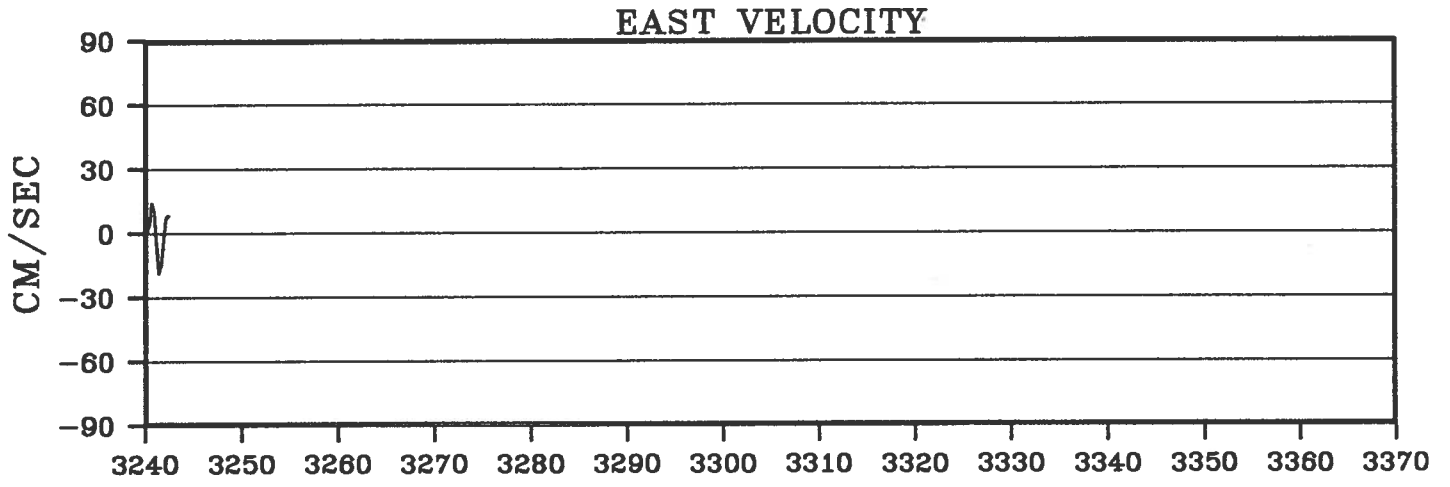
NORTH VELOCITY



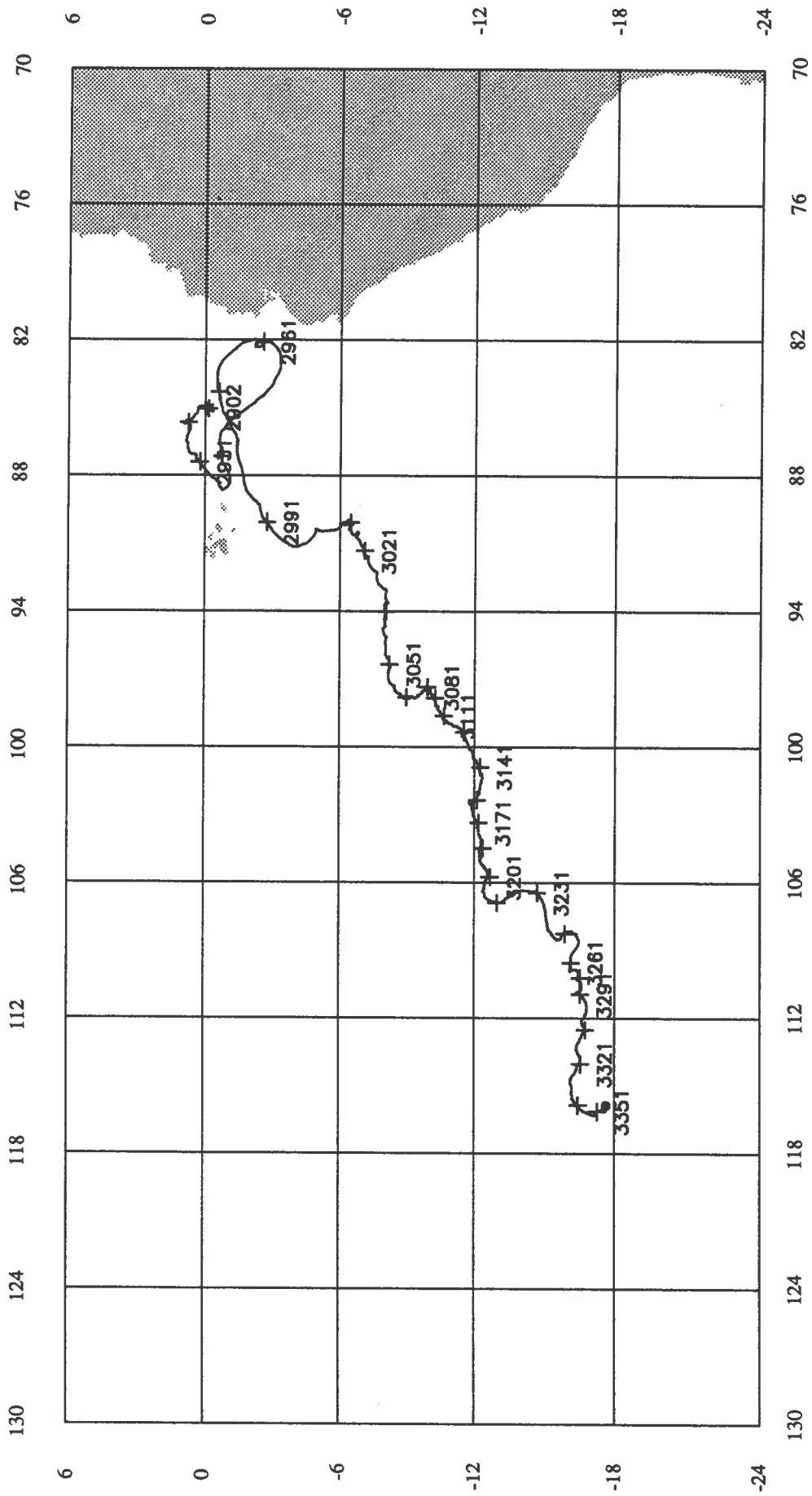
TEMPERATURE



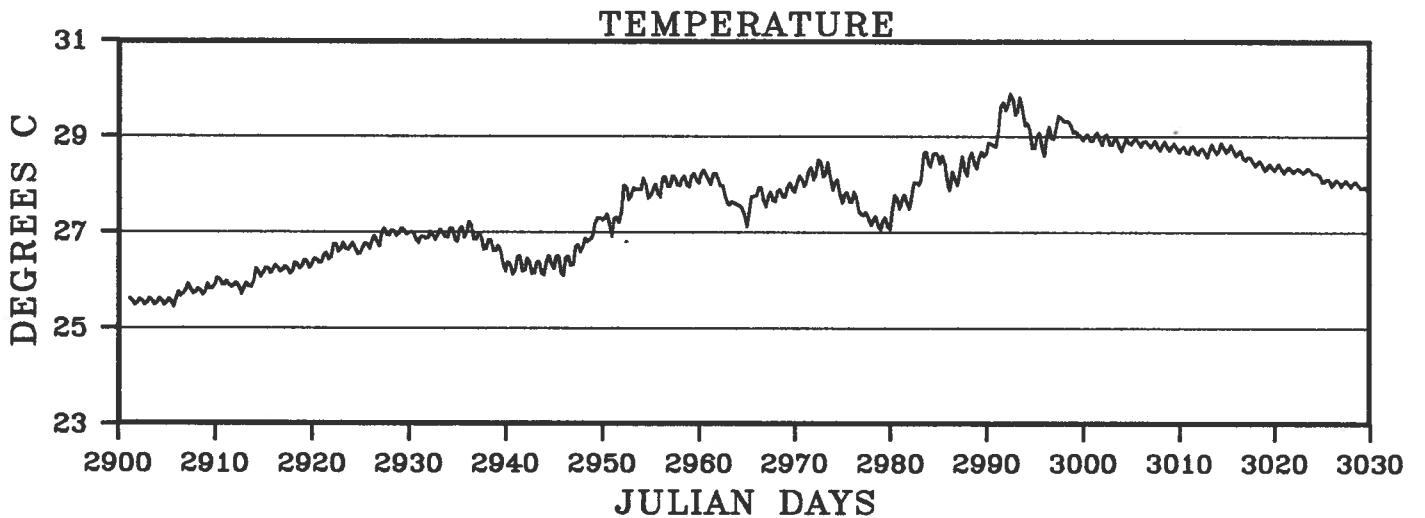
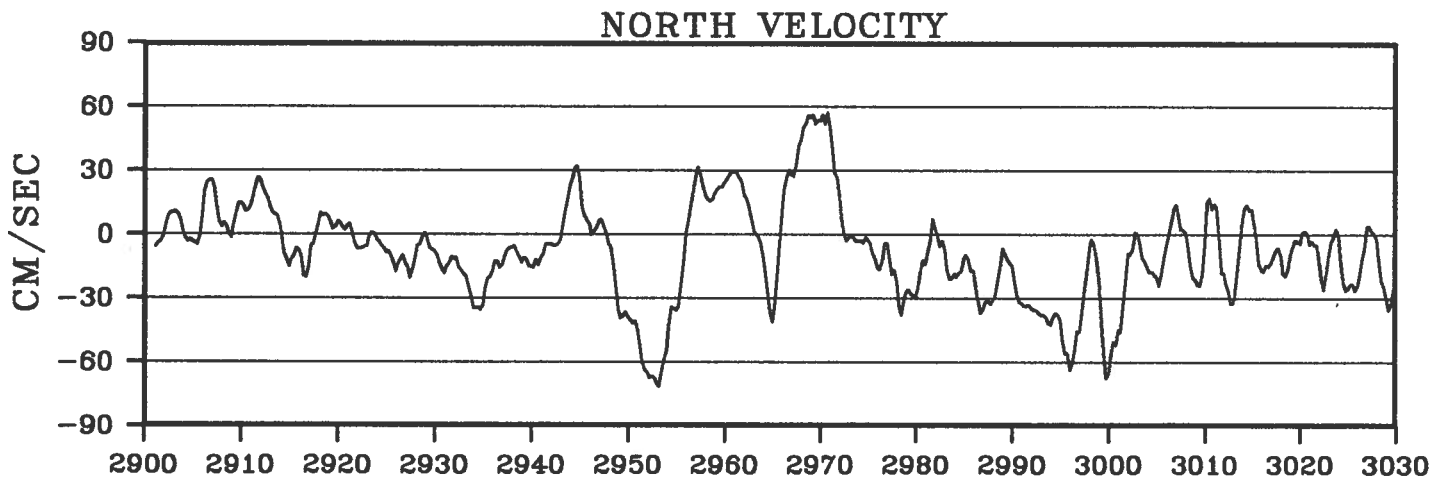
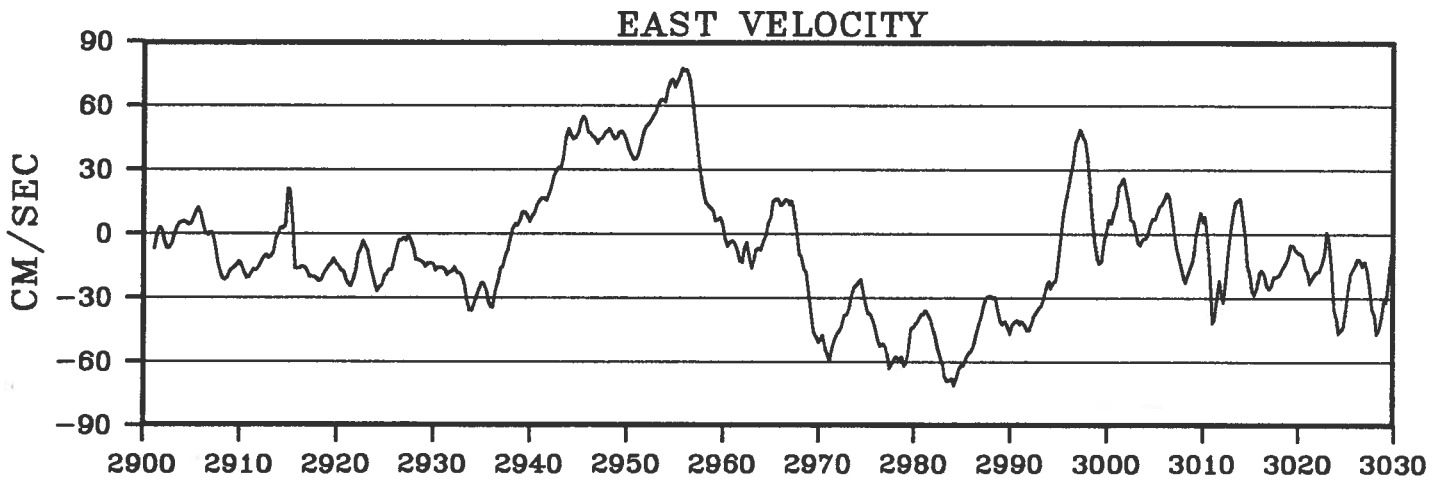
BUOY 4809



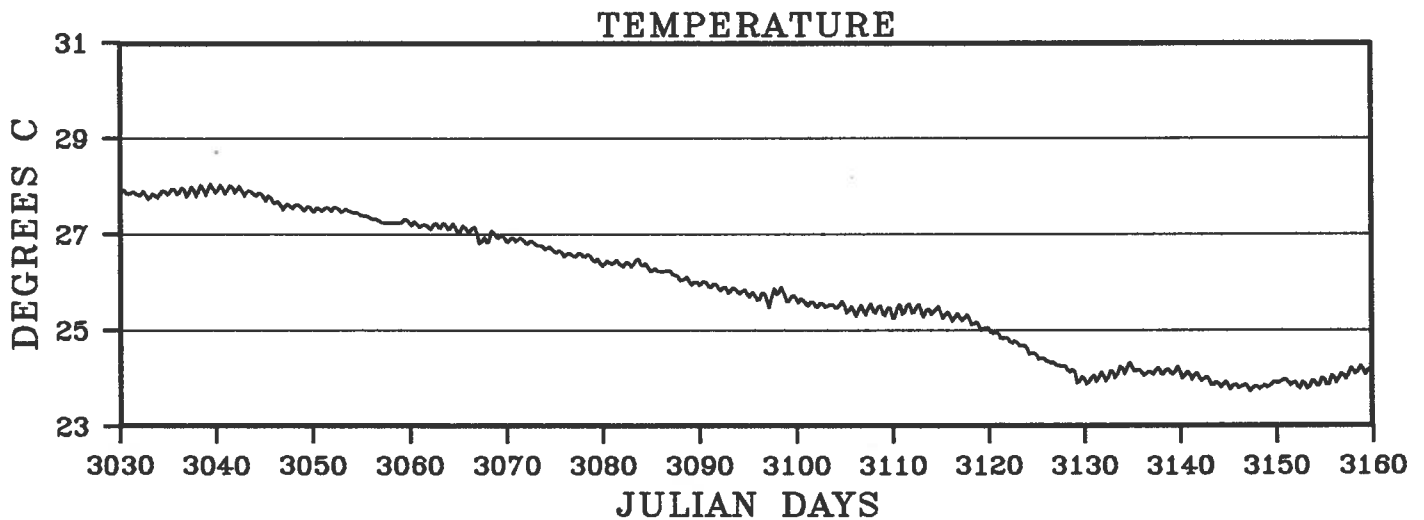
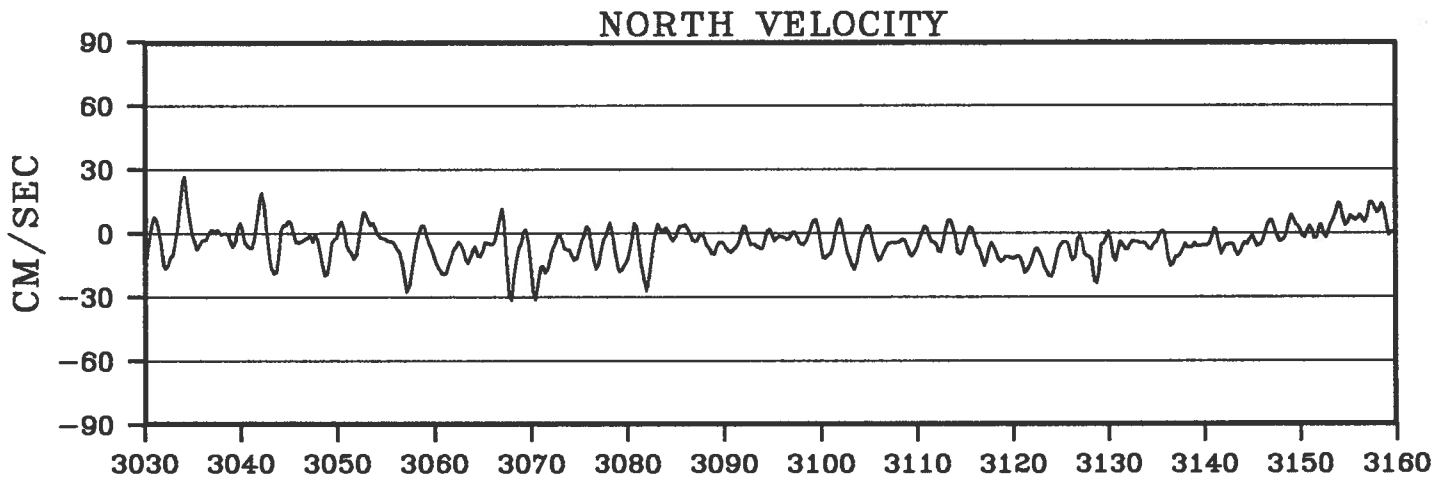
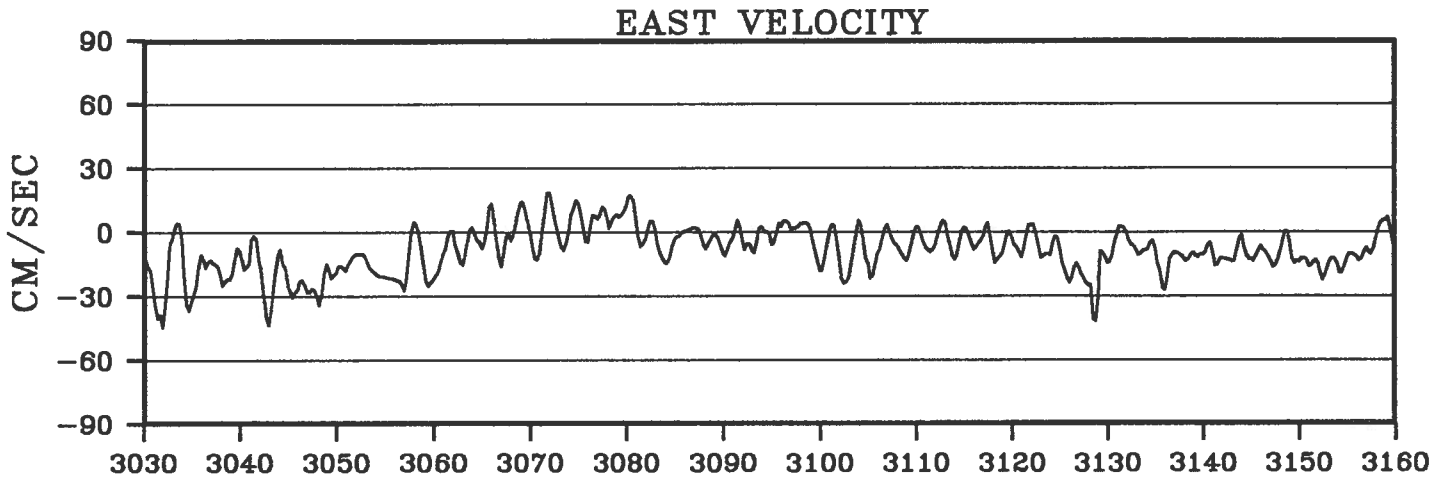
BUOY 4811



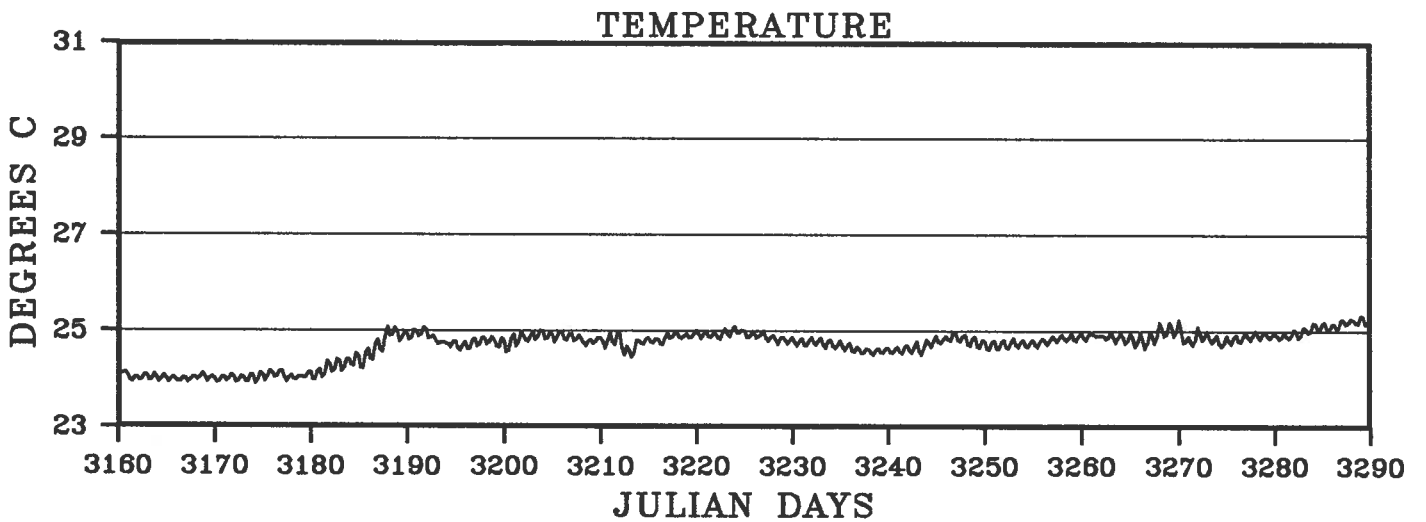
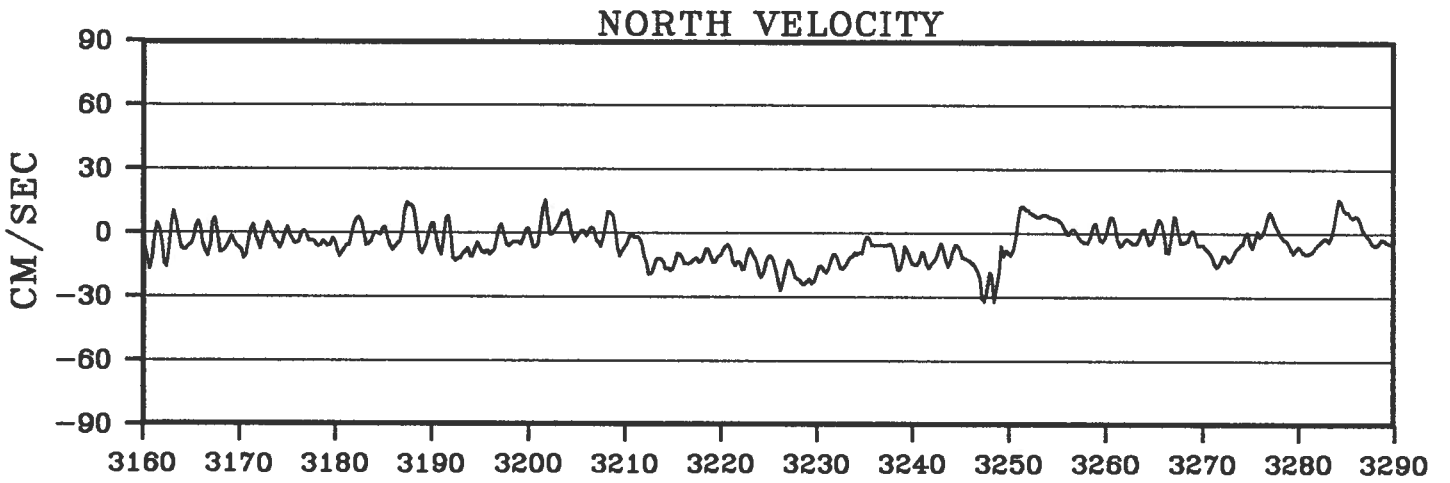
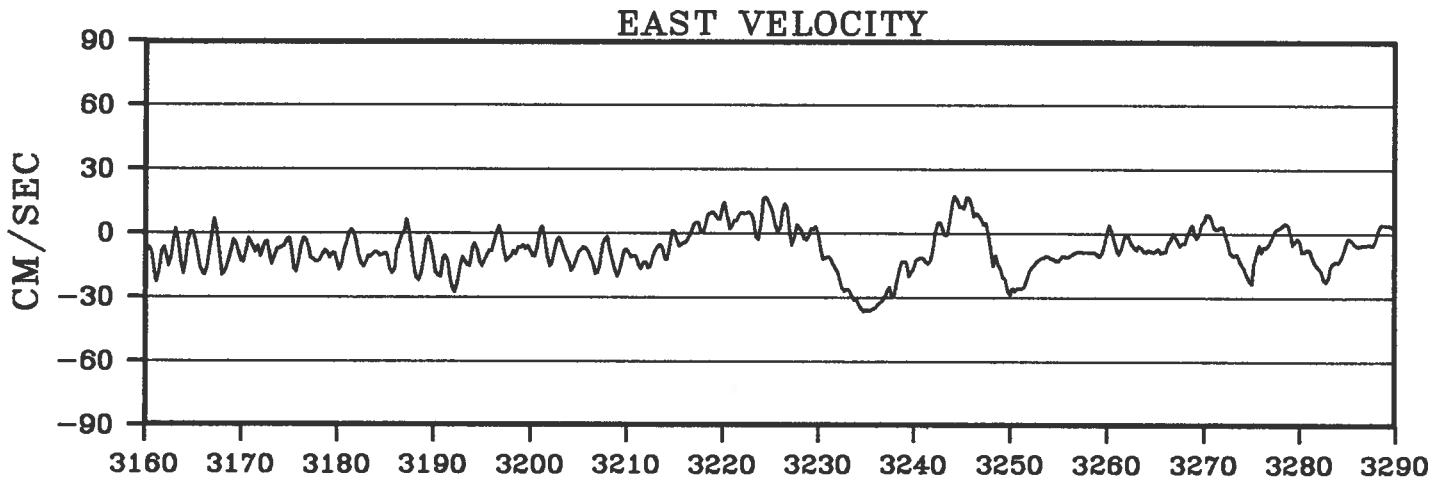
BUOY 4811



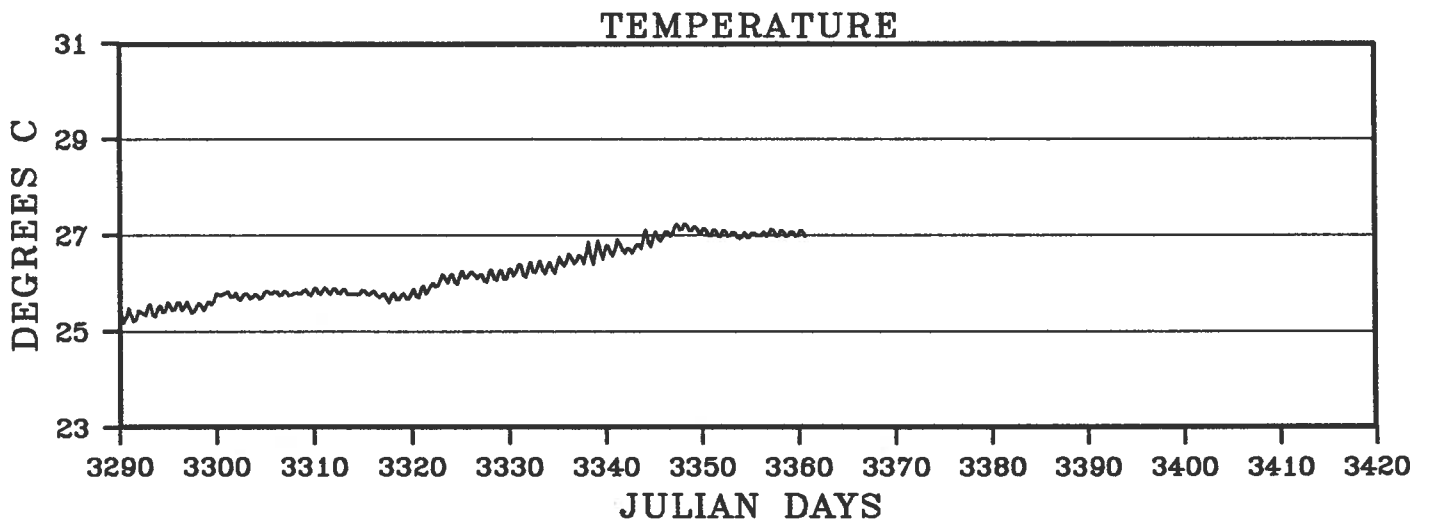
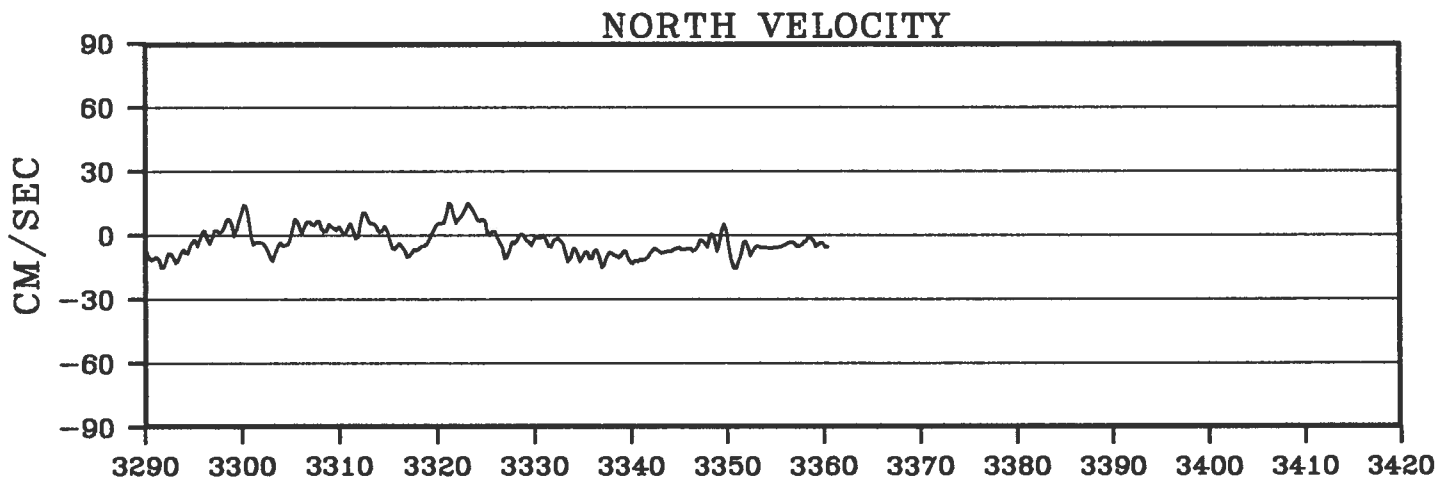
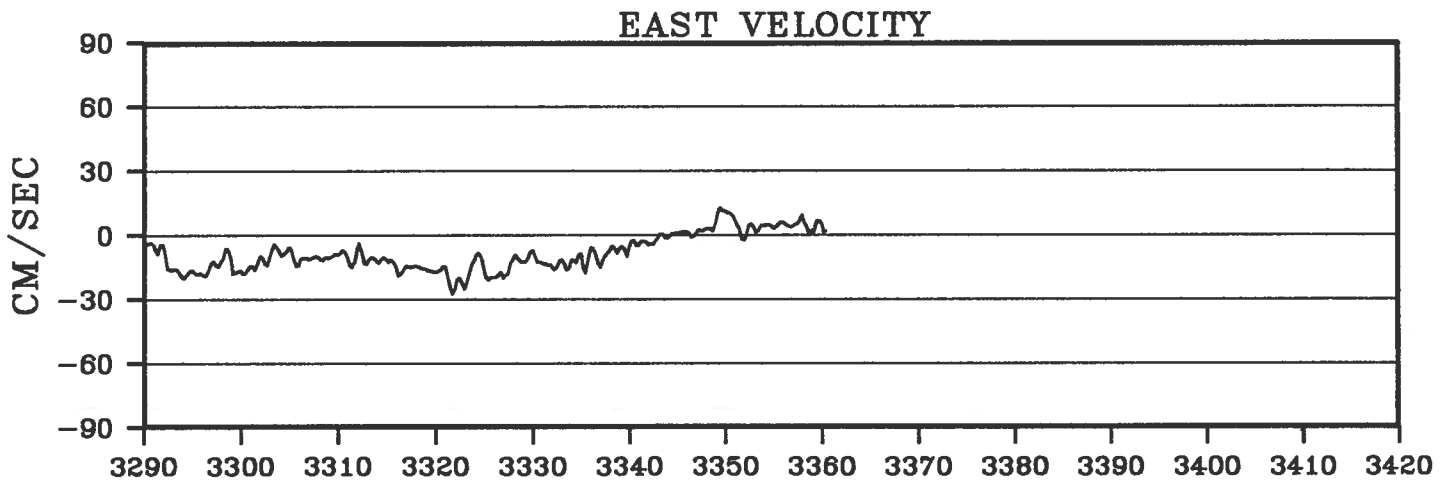
BUOY 4811



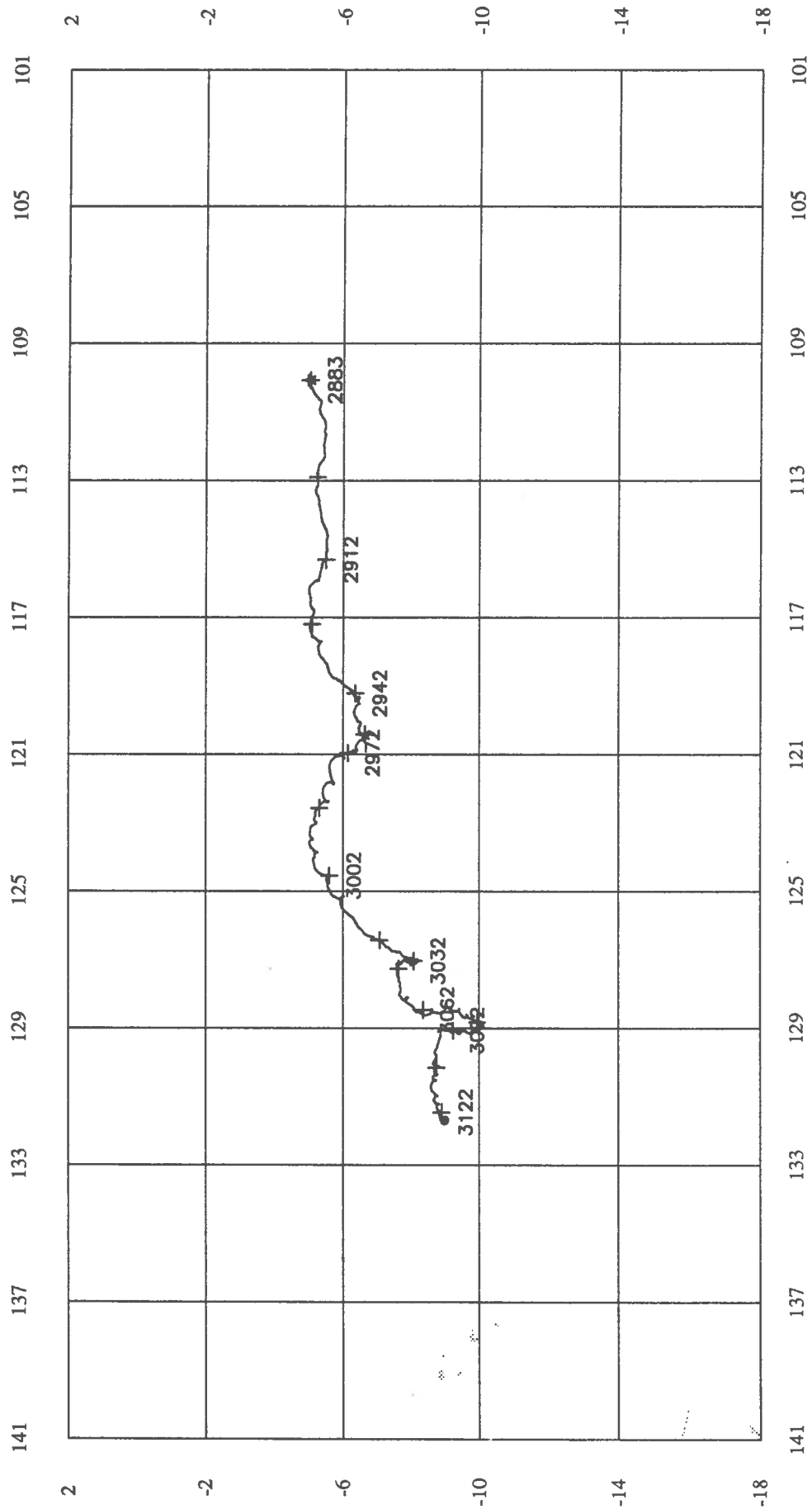
BUOY 4811



BUOY 4811

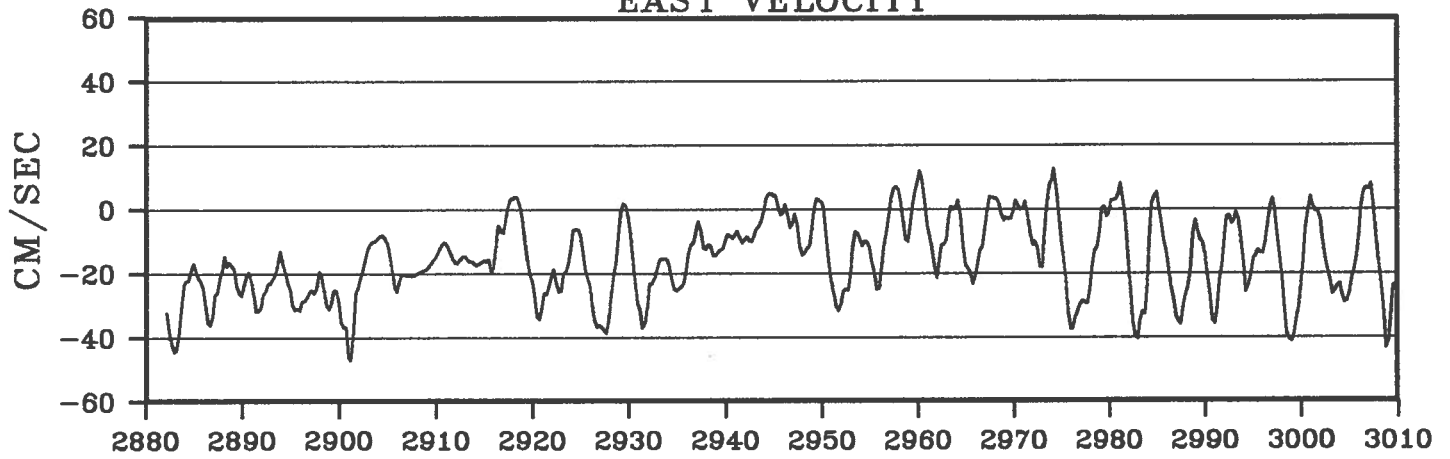


BUOY 4812

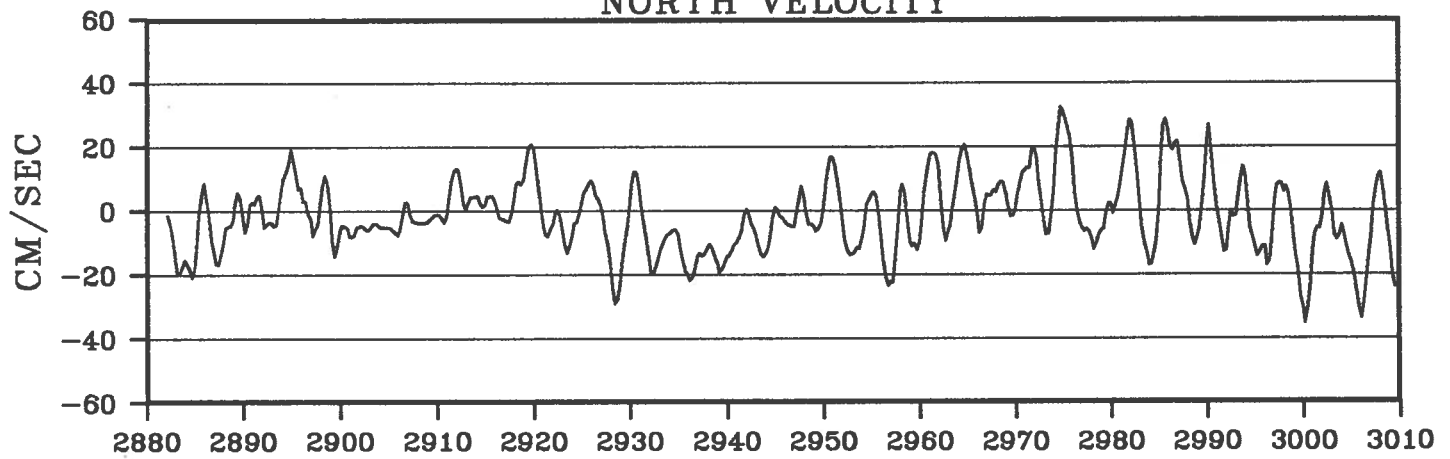


BUOY 4812

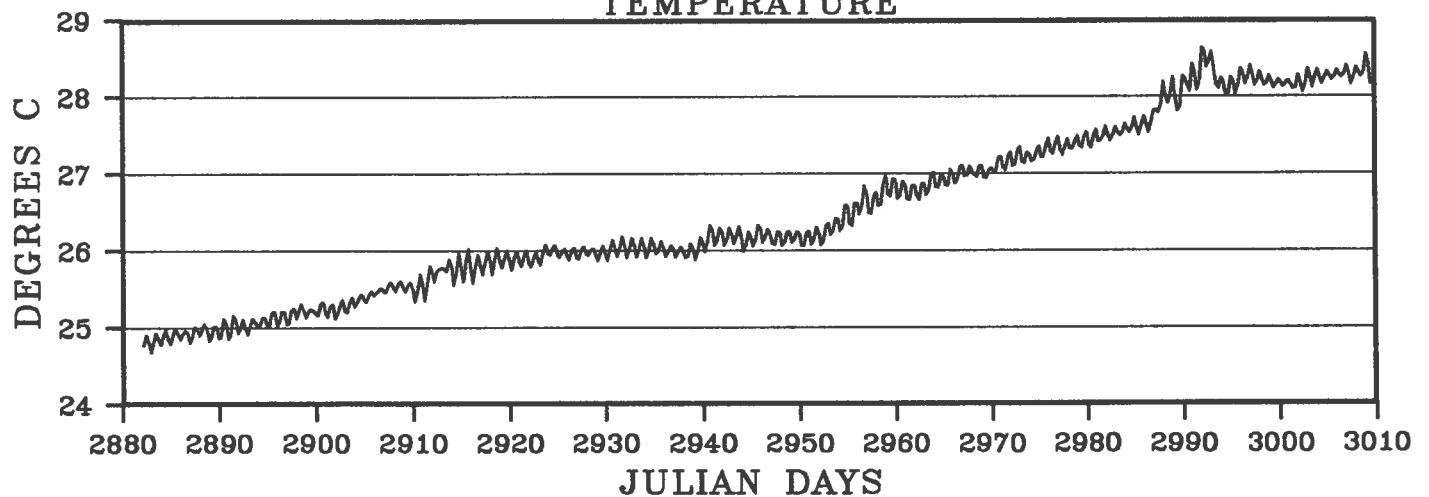
EAST VELOCITY



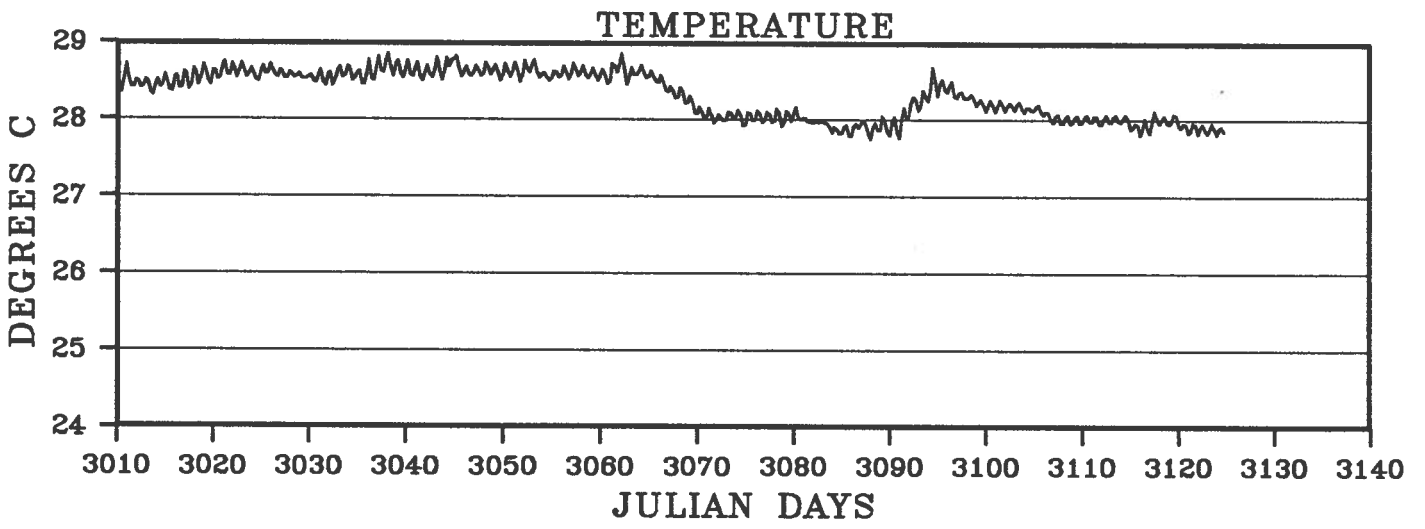
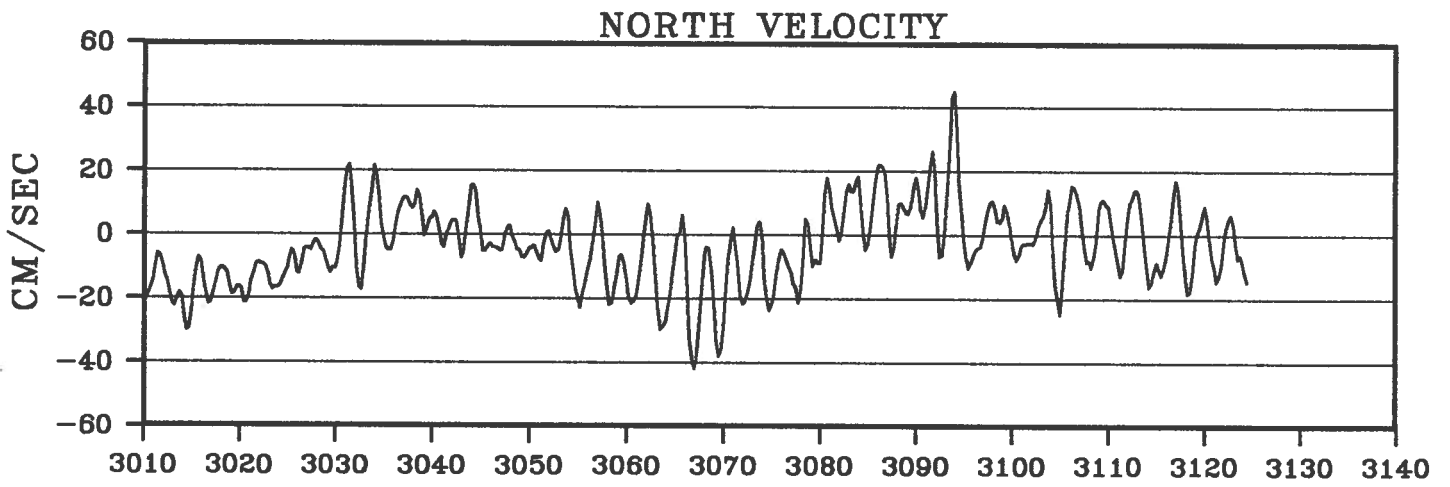
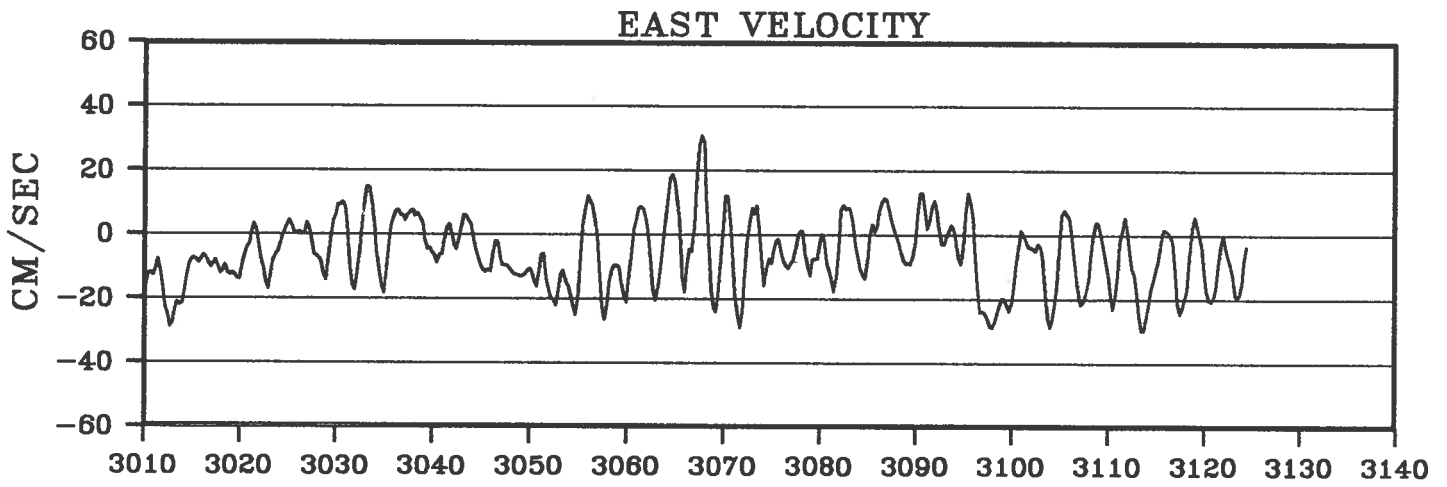
NORTH VELOCITY



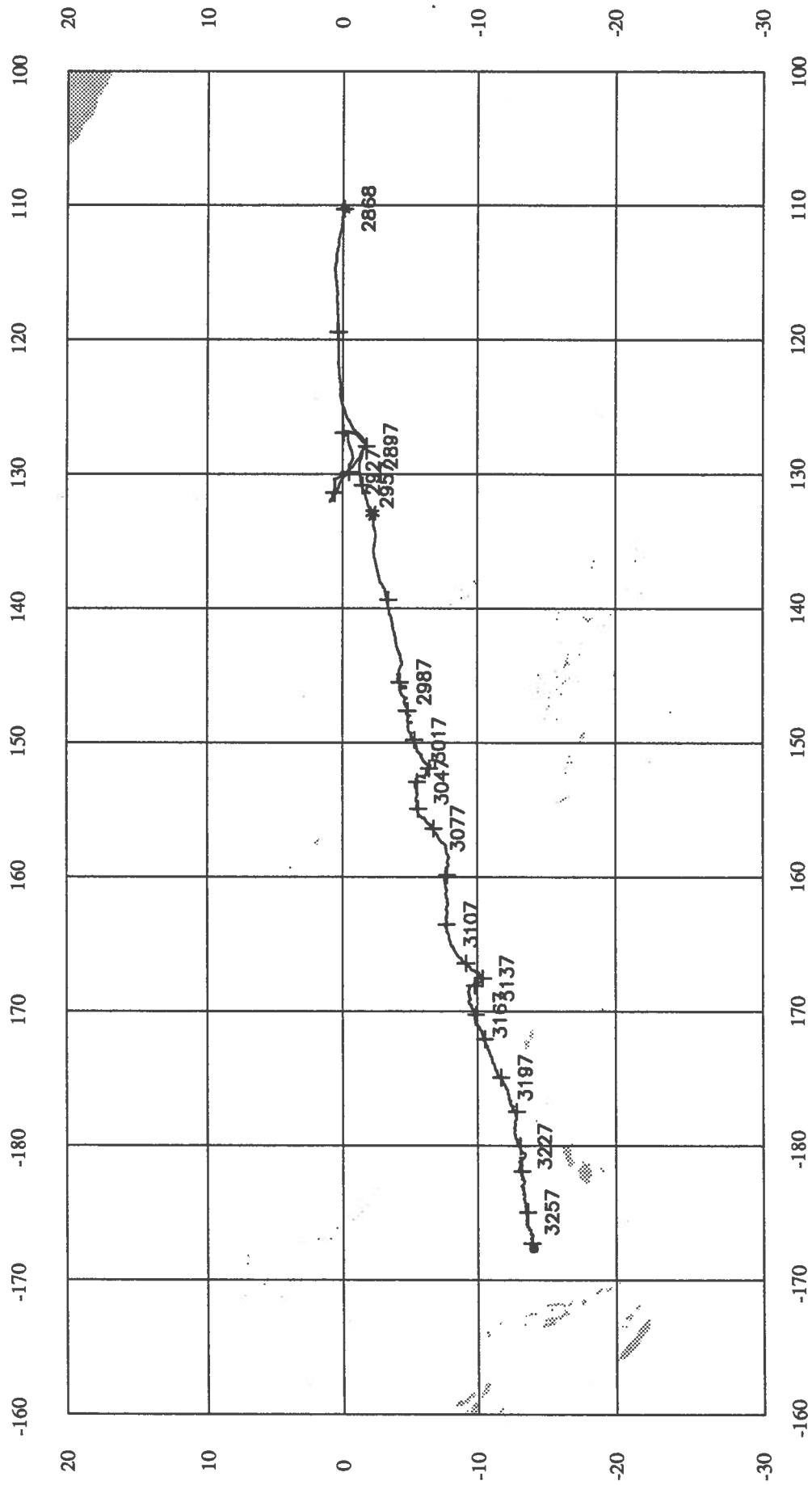
TEMPERATURE



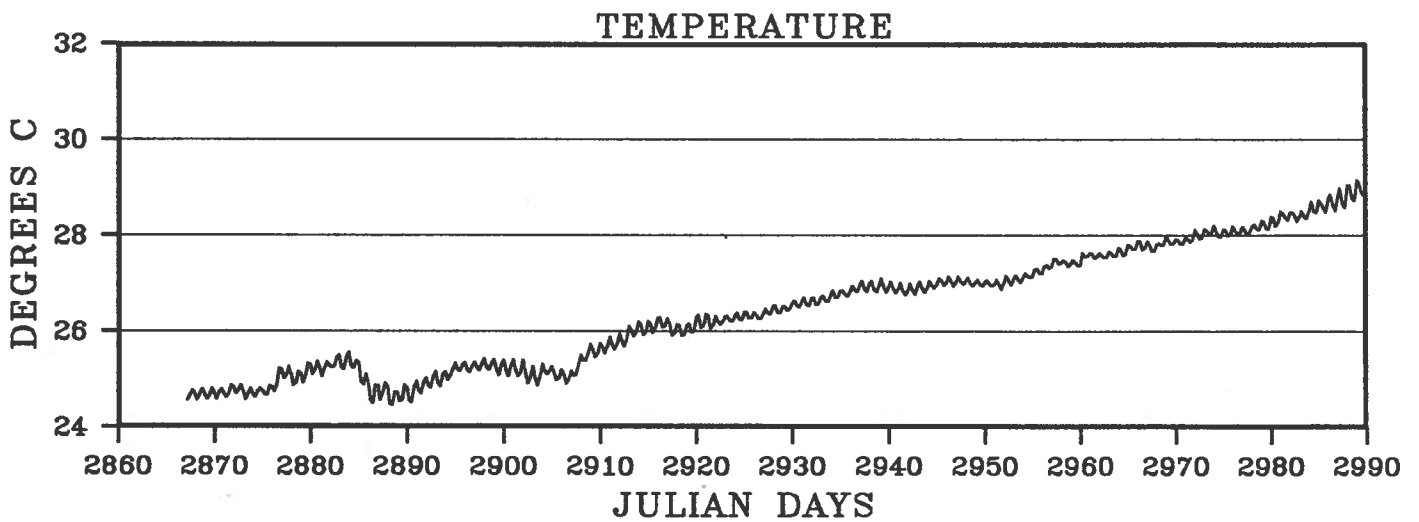
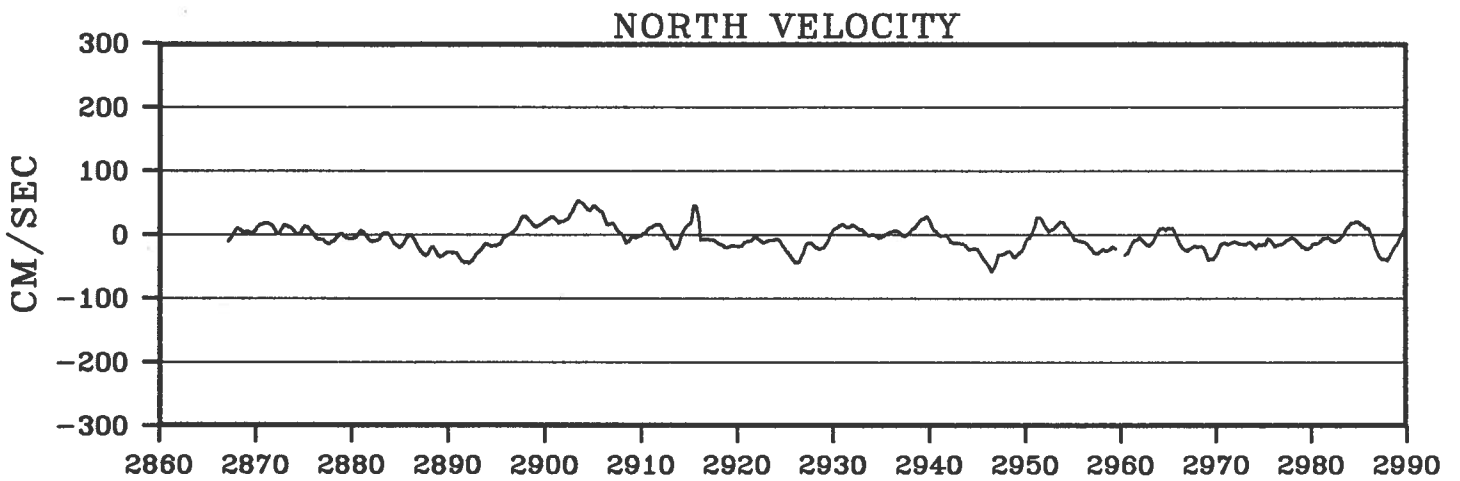
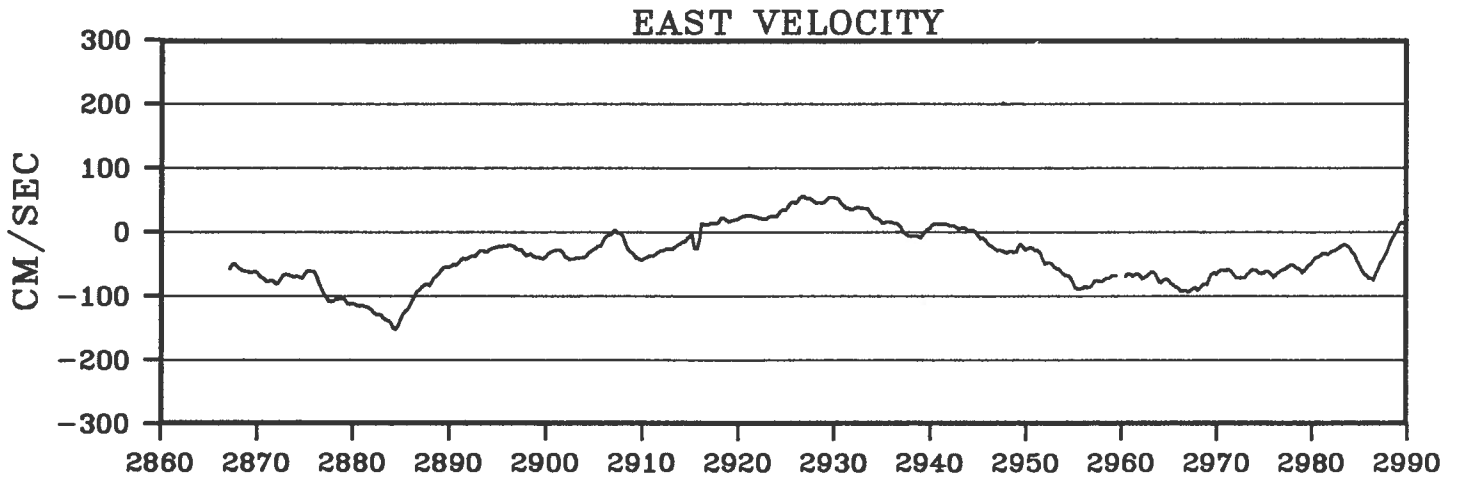
BUOY 4812



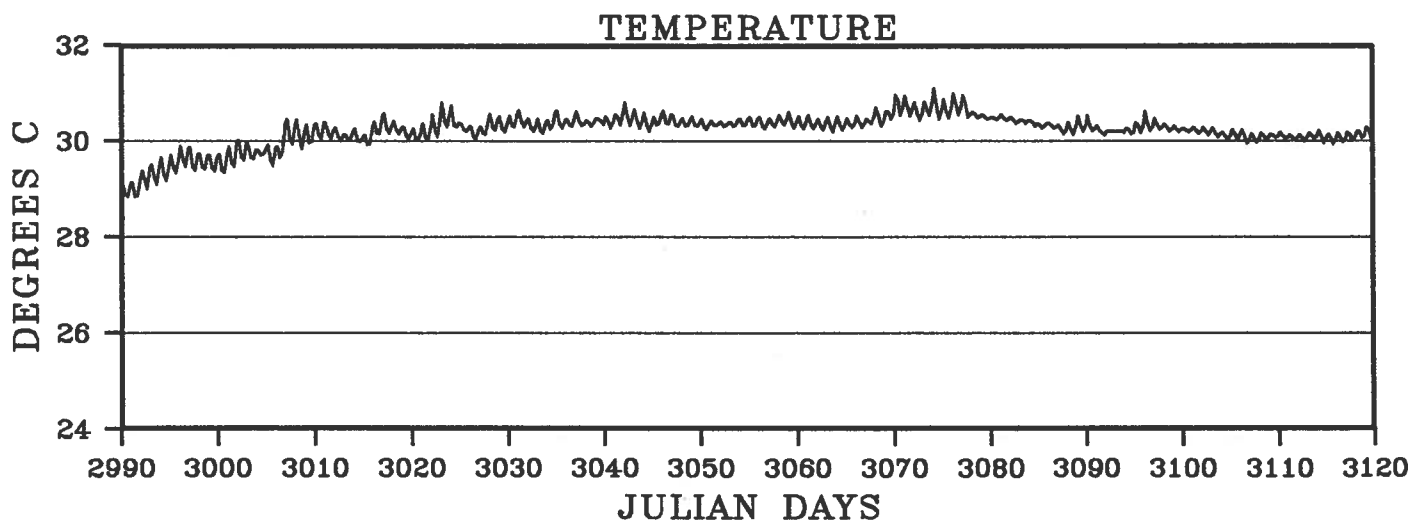
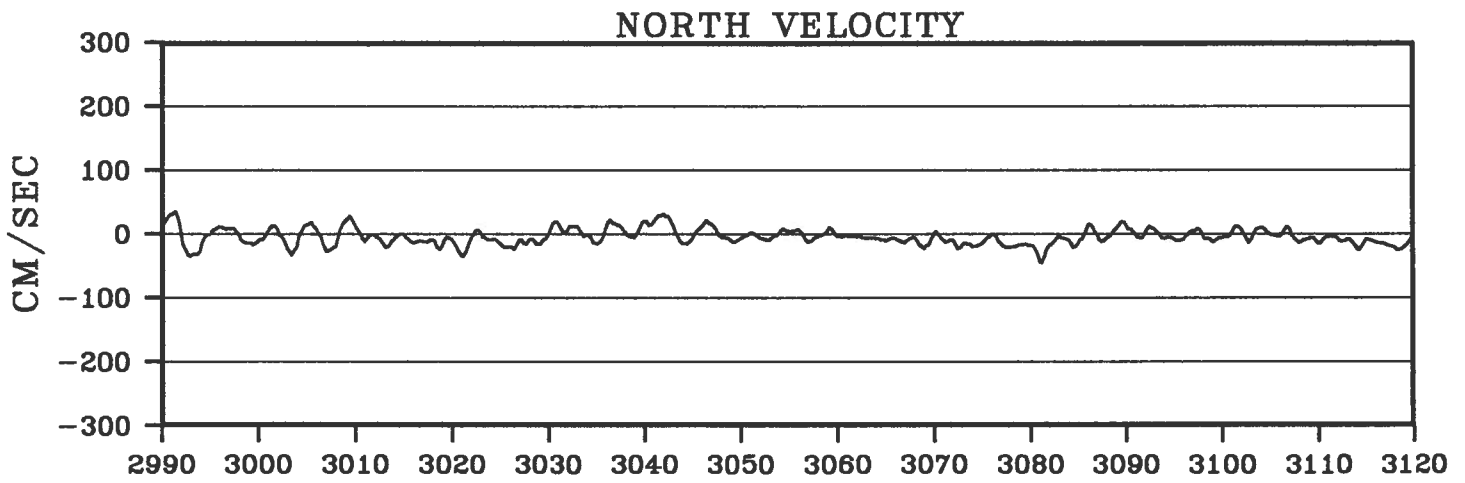
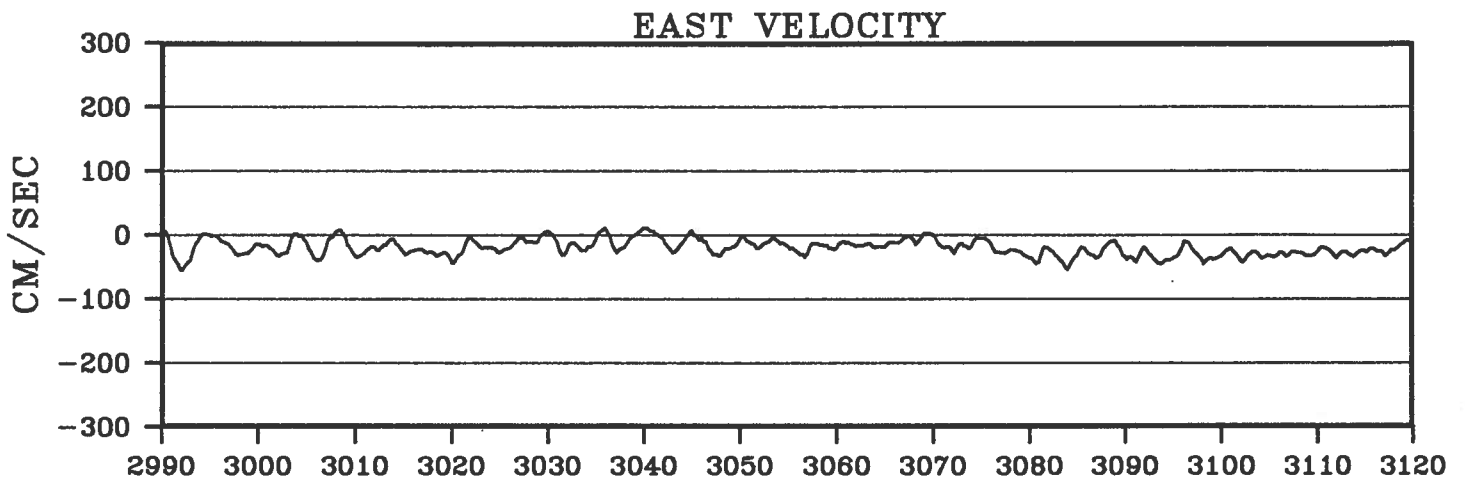
BUOY 4813



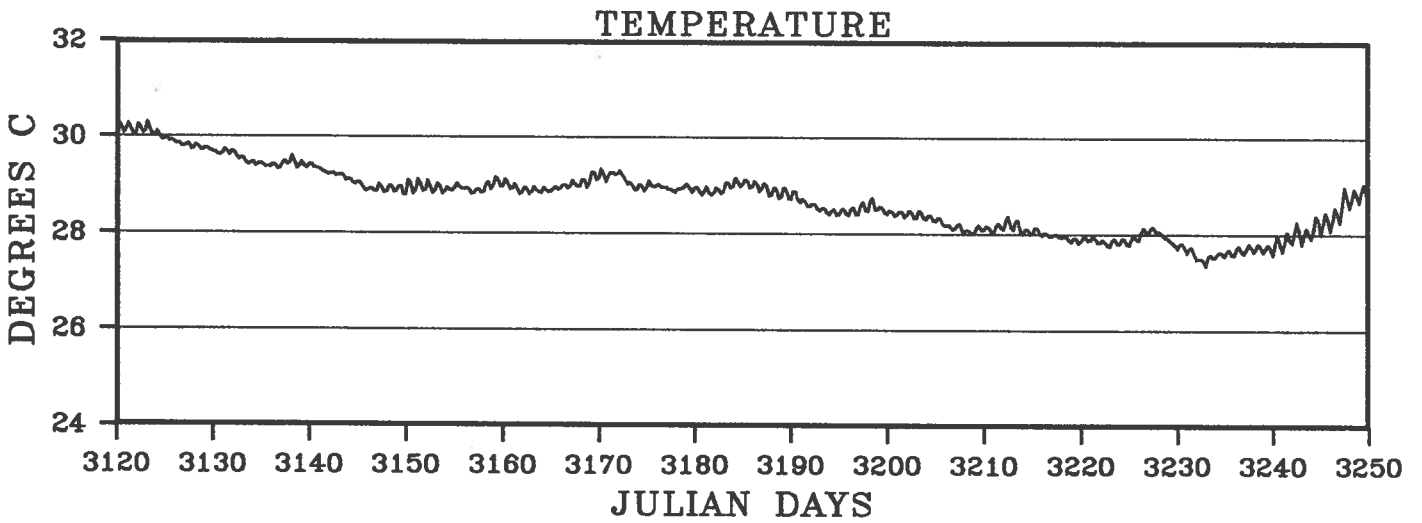
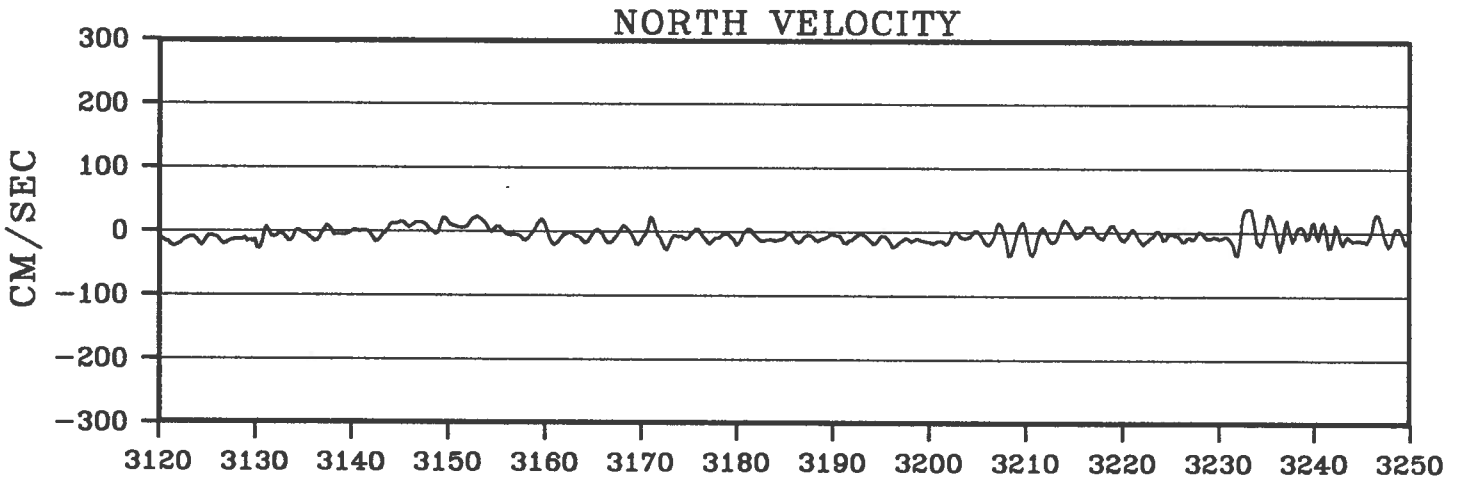
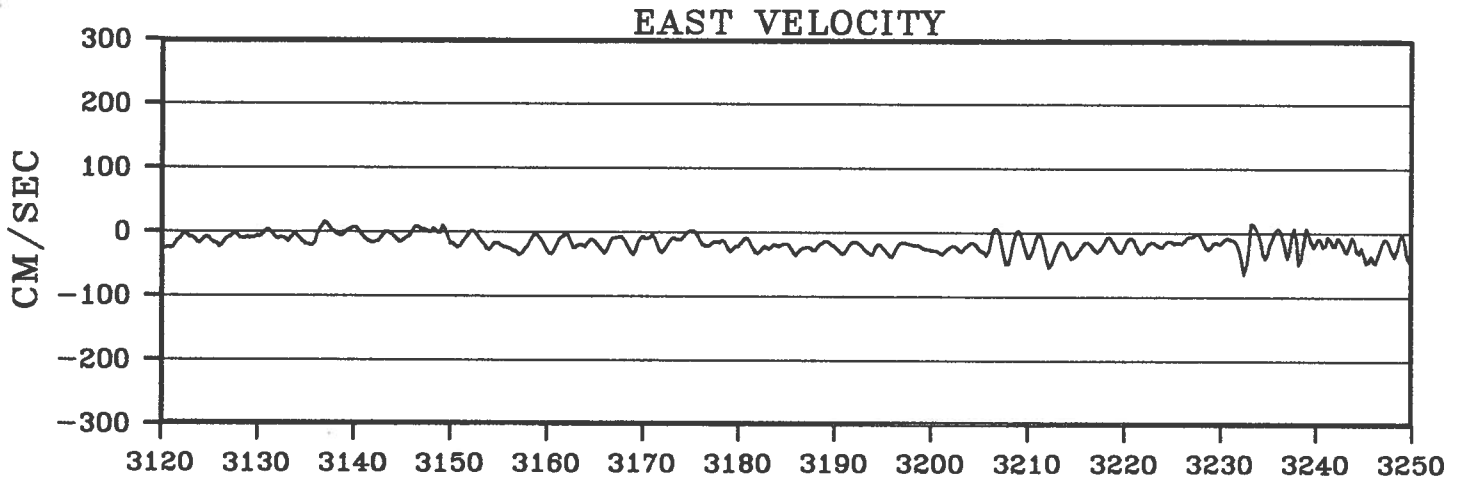
BUOY 4813



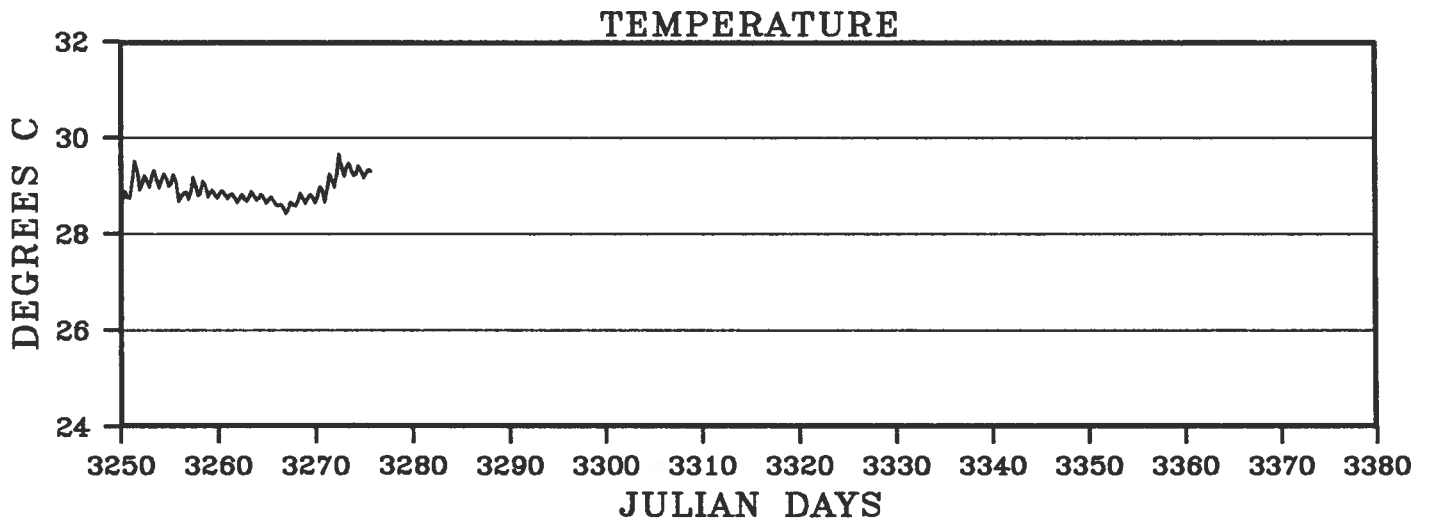
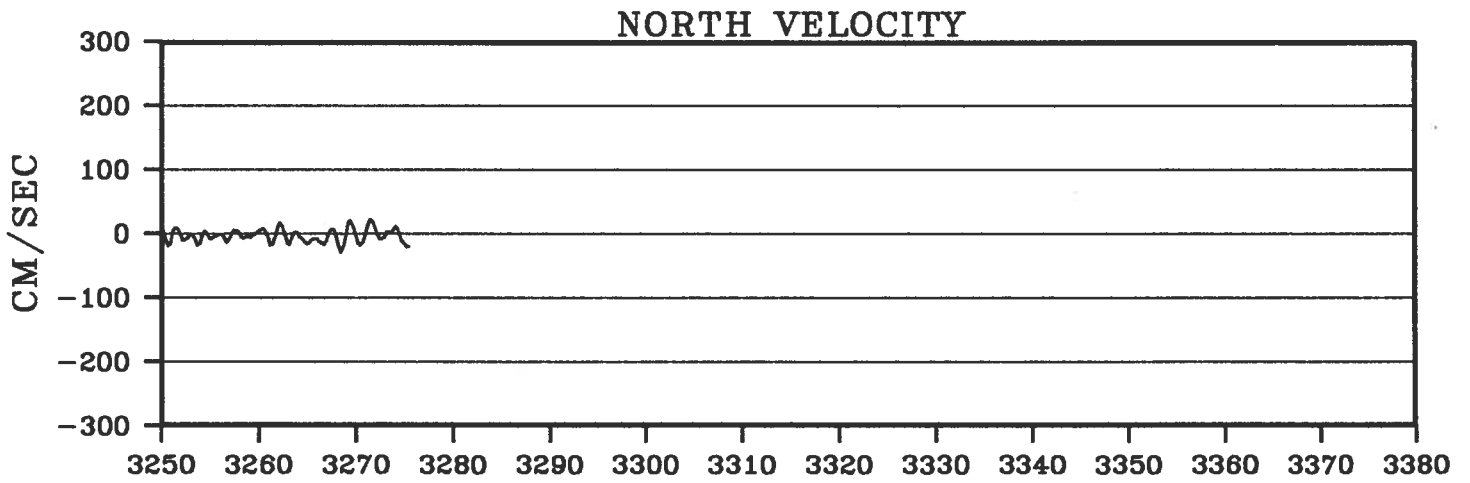
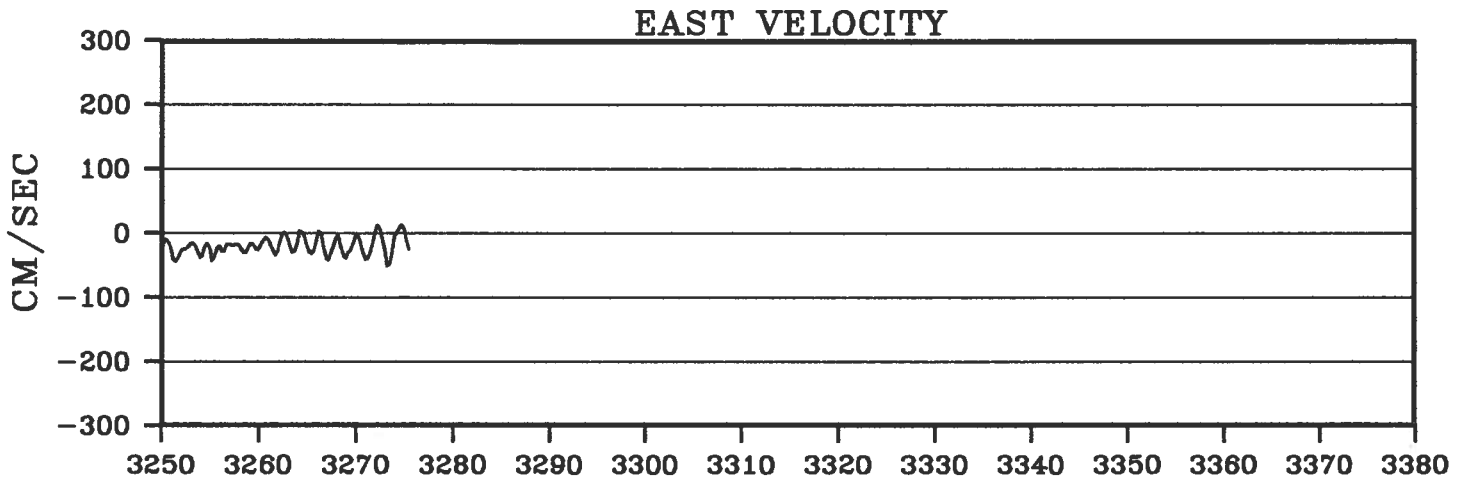
BUOY 4813



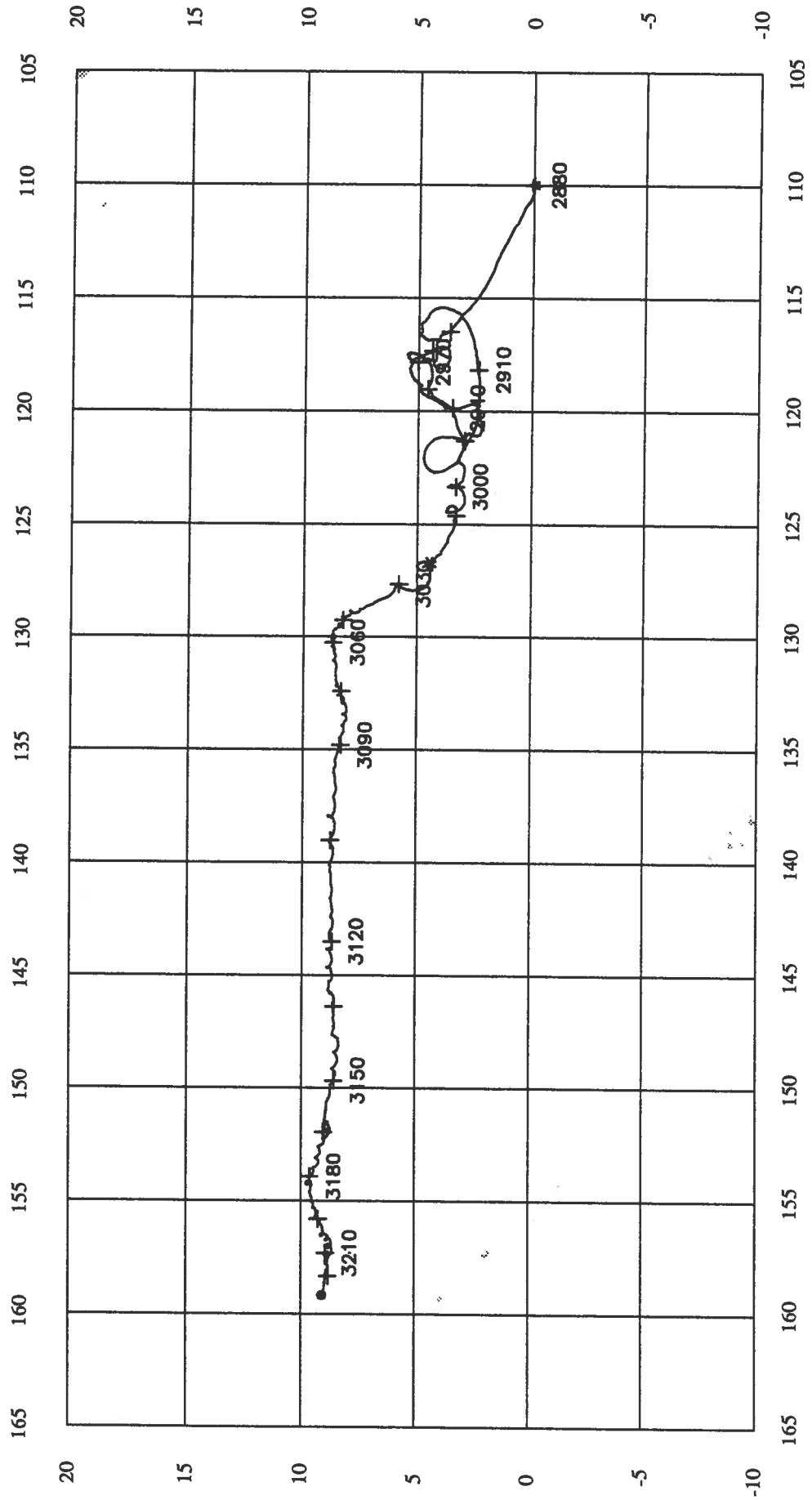
BUOY 4813



BUOY 4813

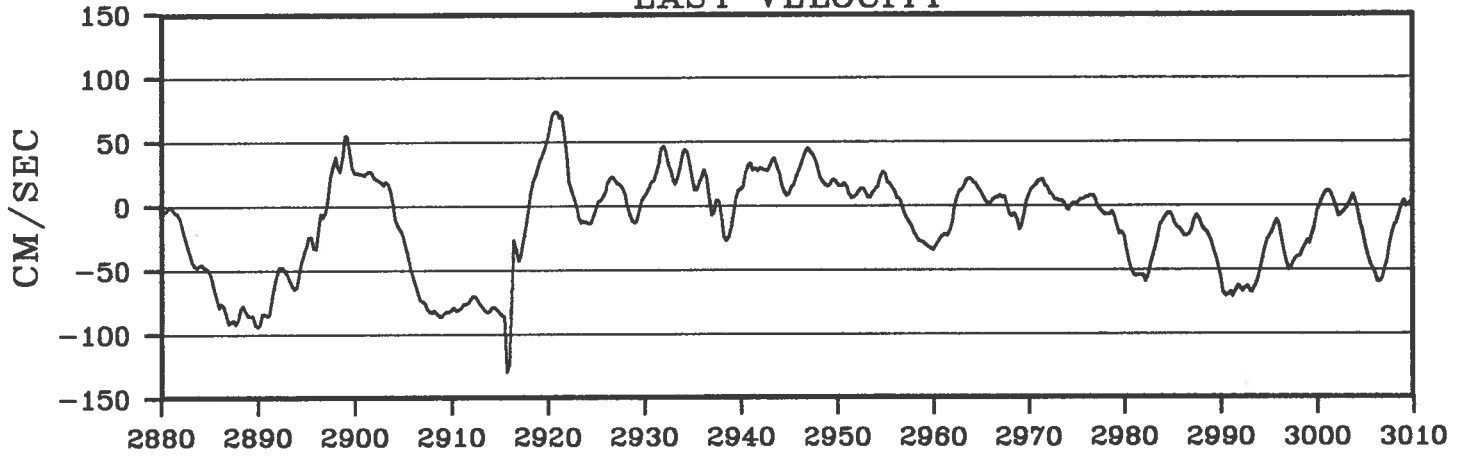


BUOY 4814

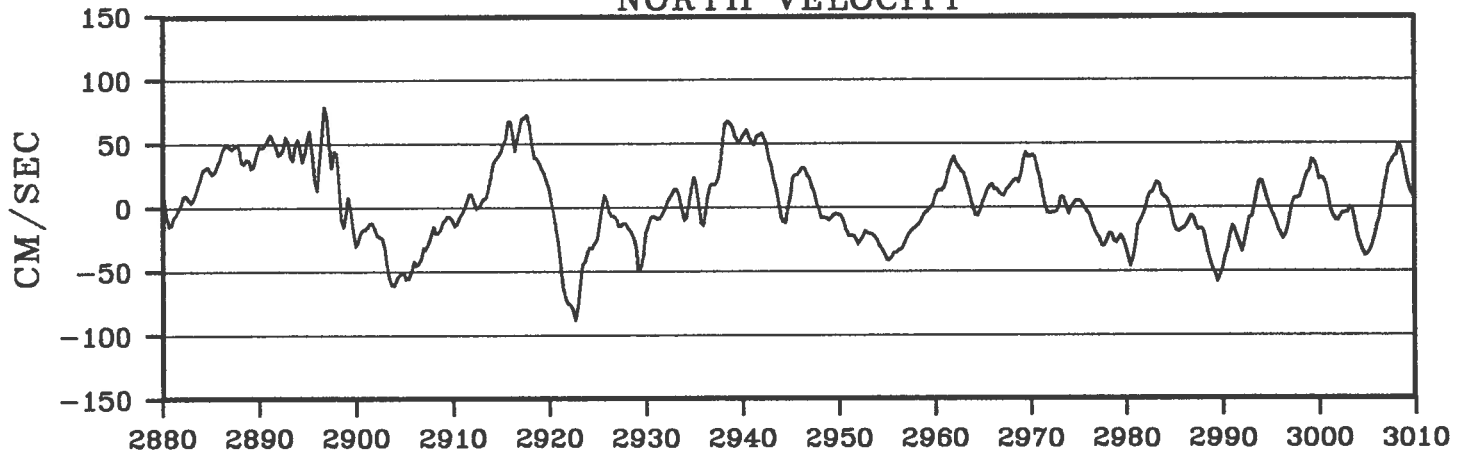


BUOY 4814

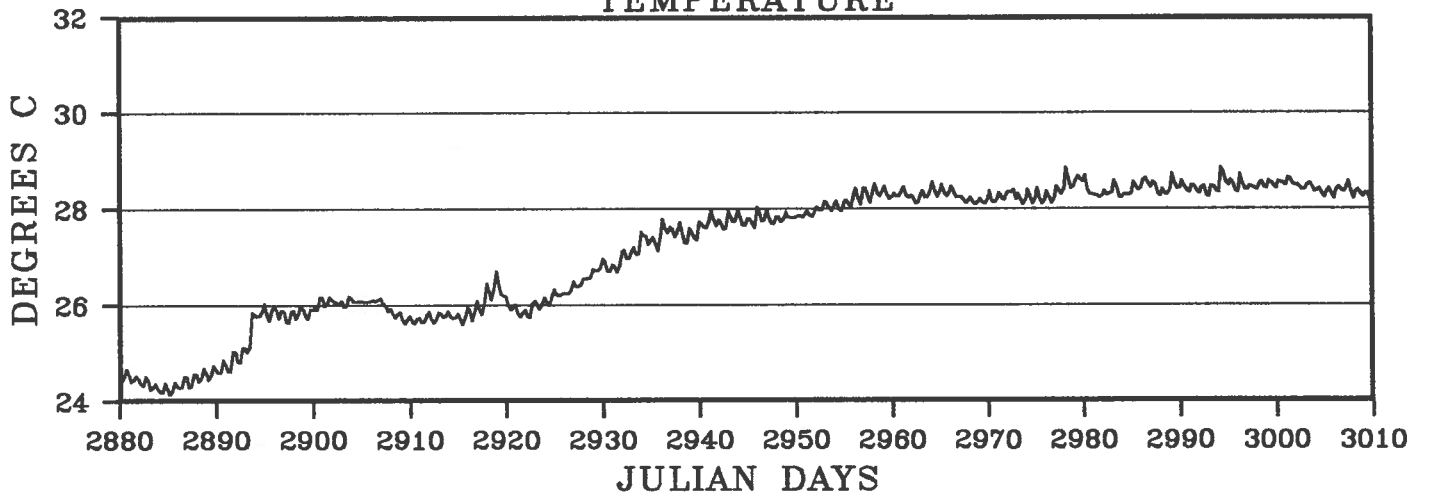
EAST VELOCITY



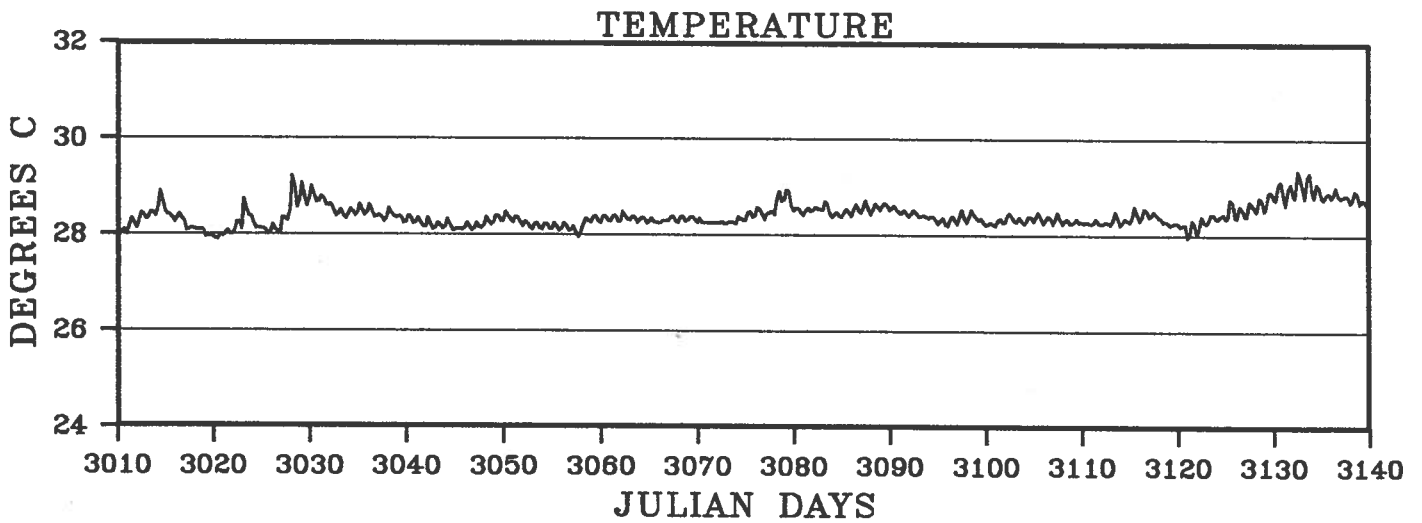
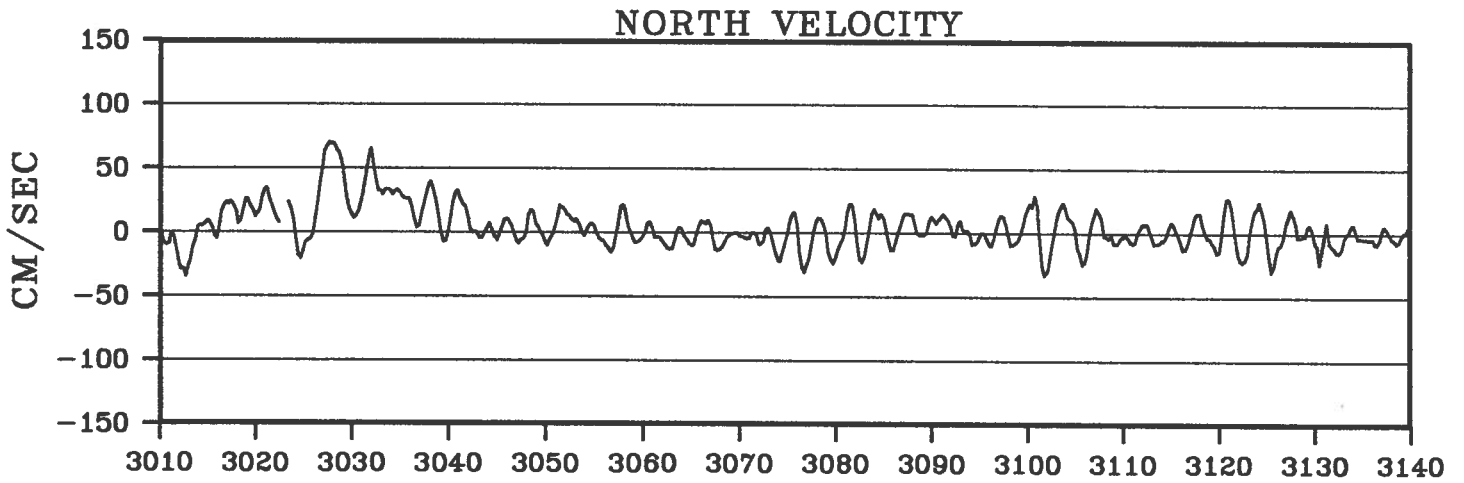
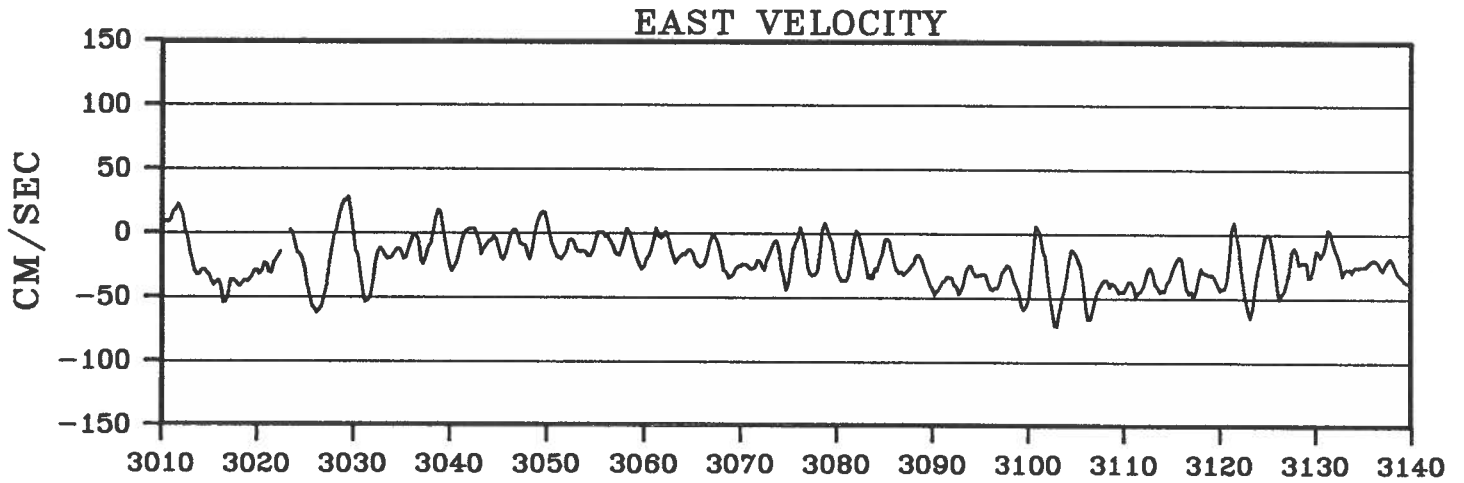
NORTH VELOCITY



TEMPERATURE

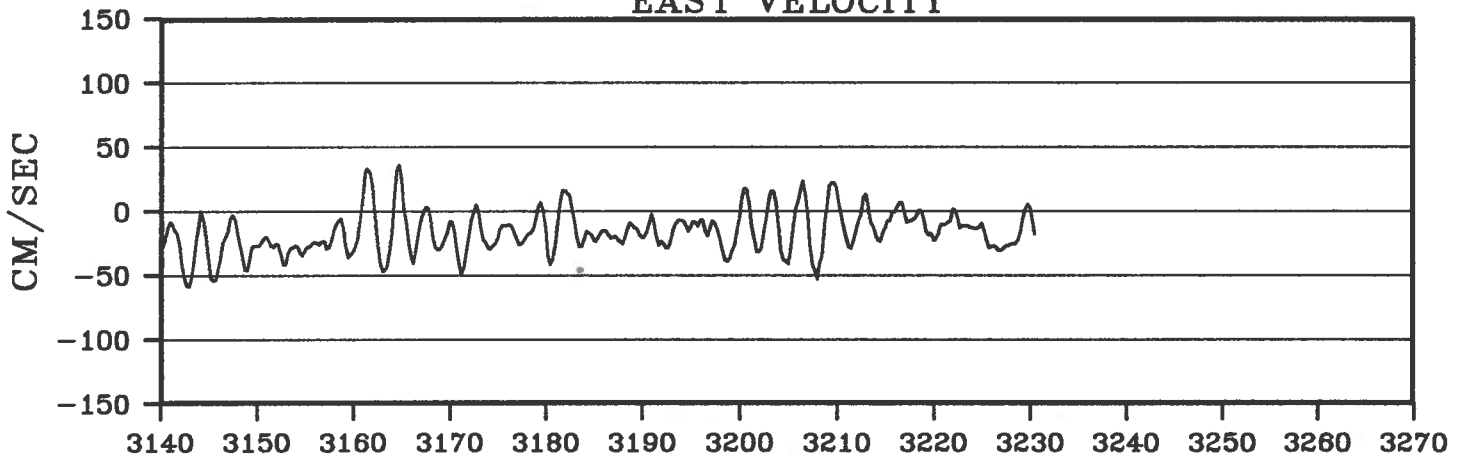


BUOY 4814

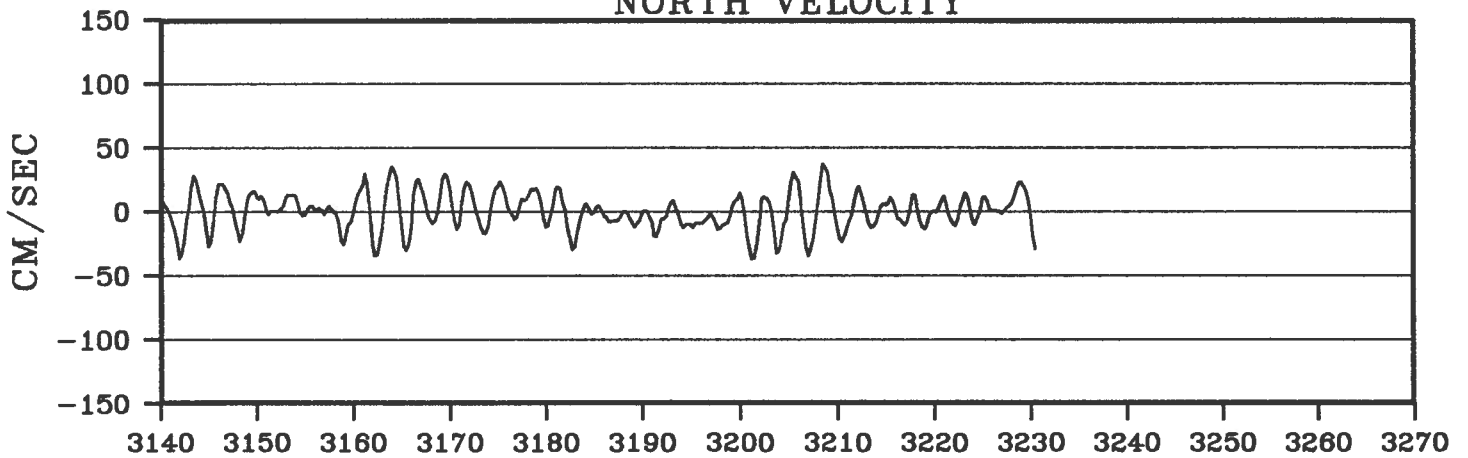


BUOY 4814

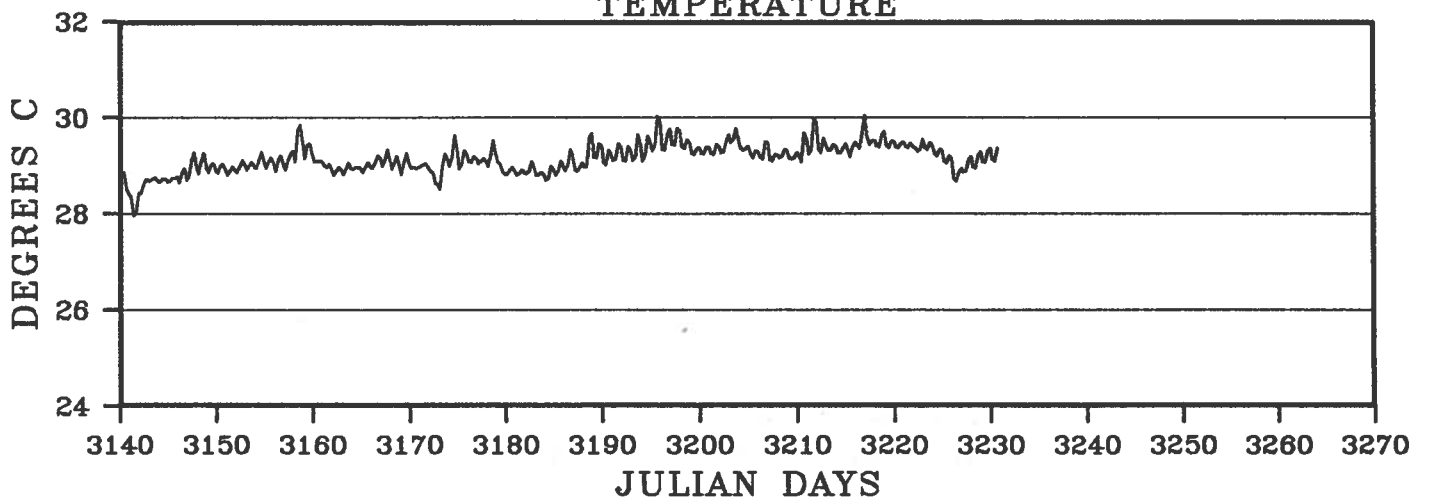
EAST VELOCITY



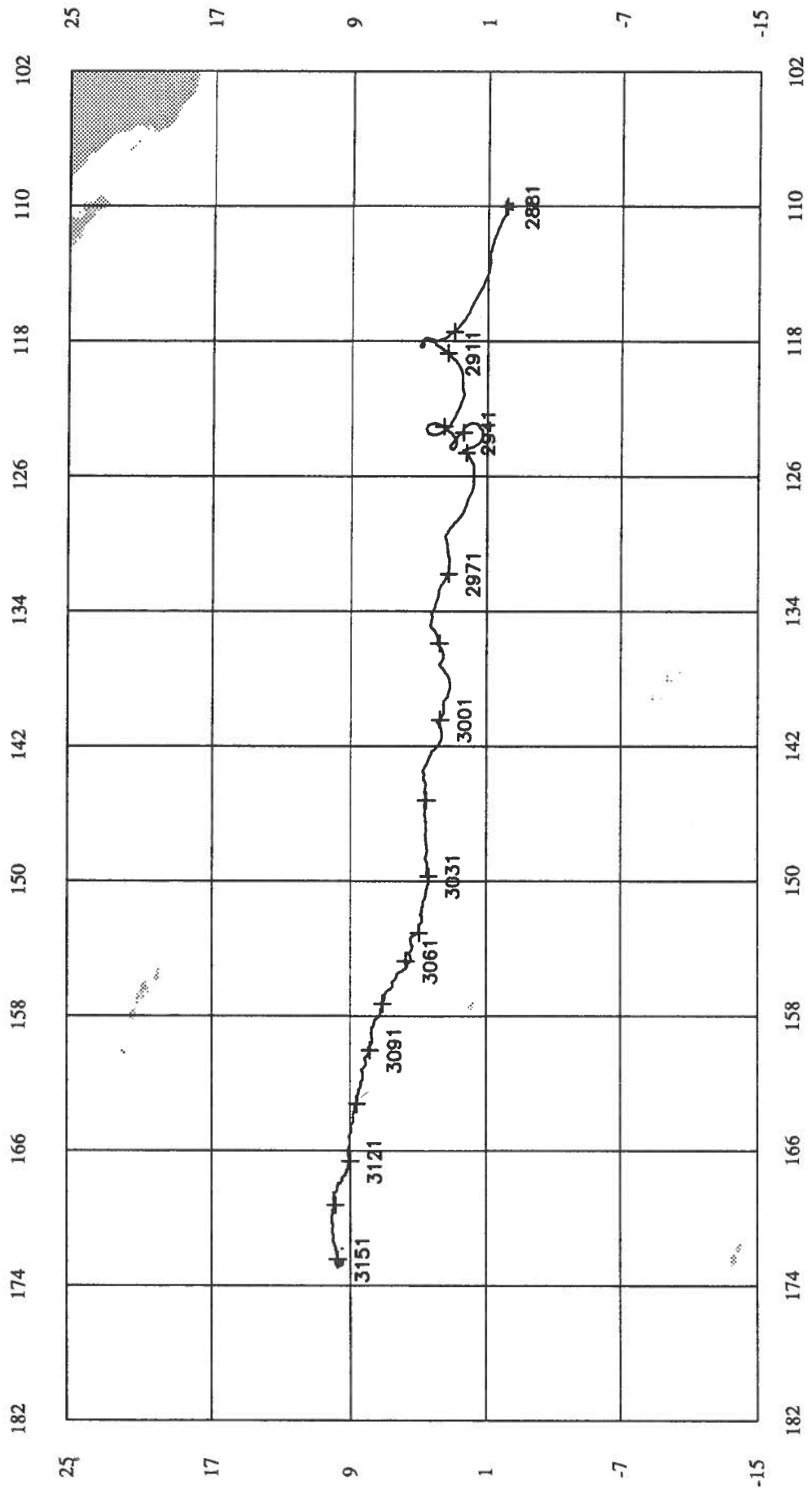
NORTH VELOCITY



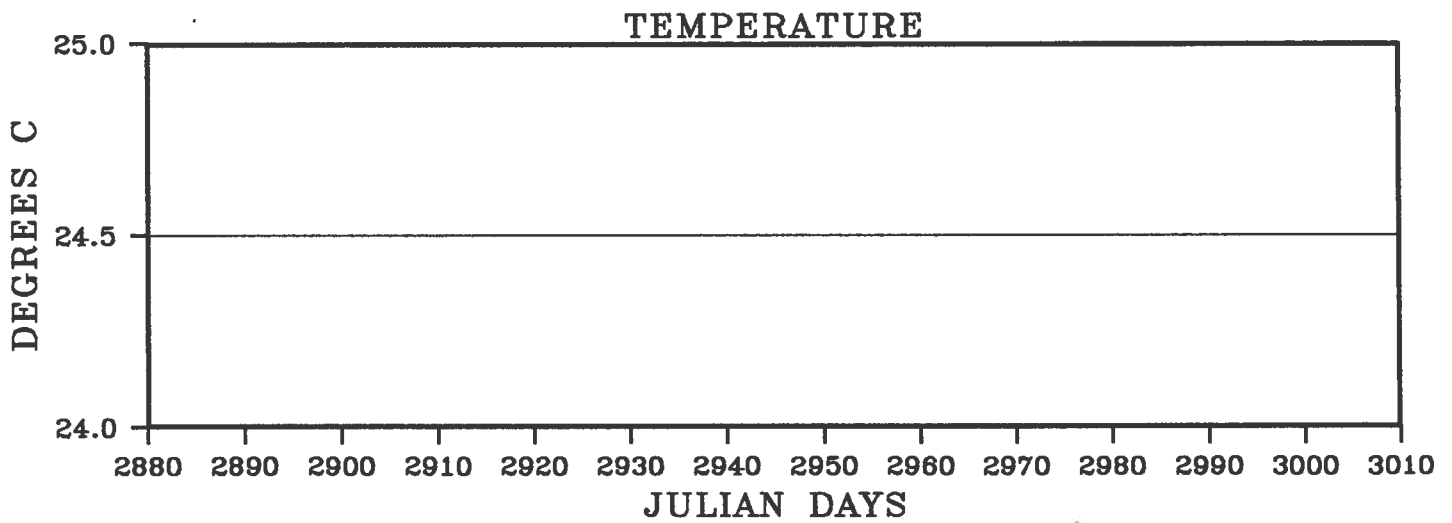
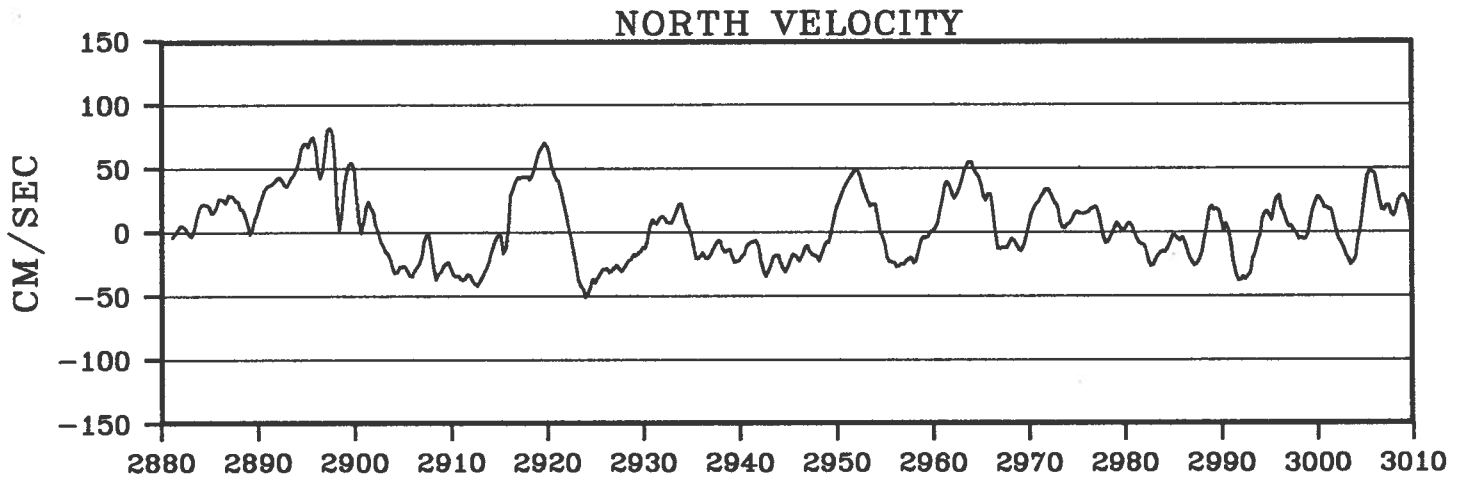
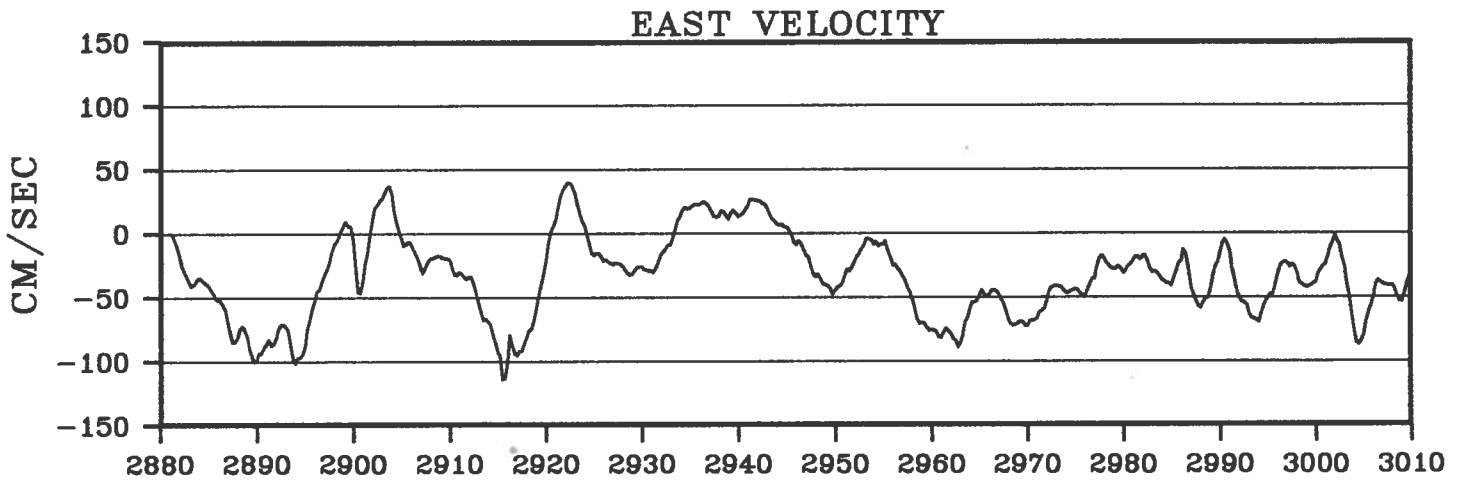
TEMPERATURE



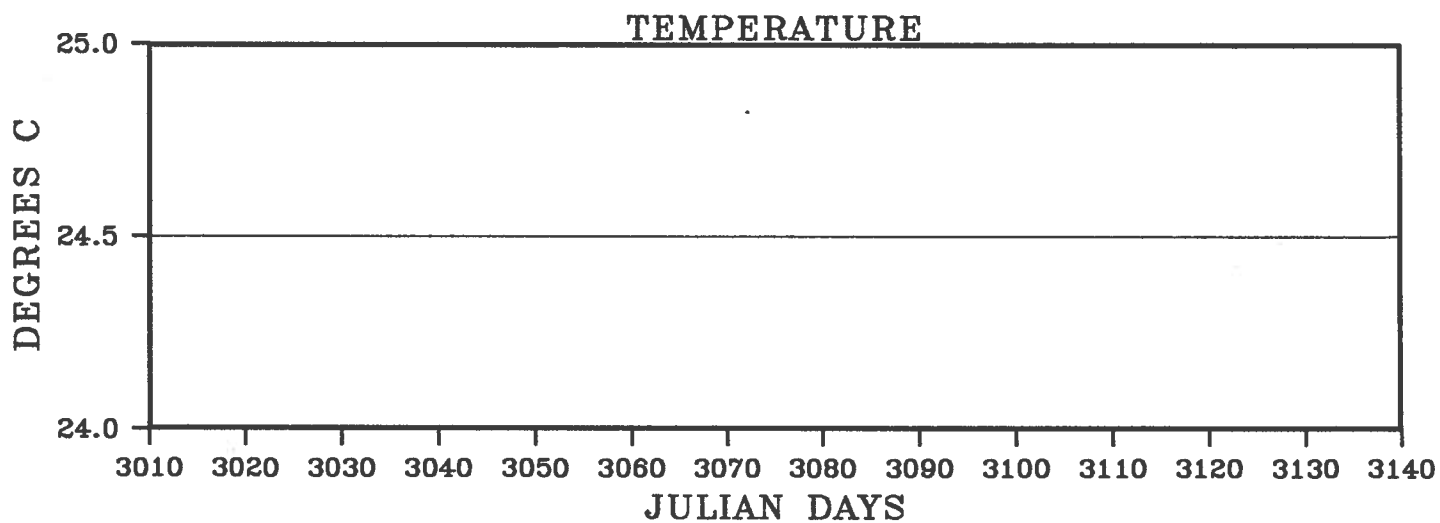
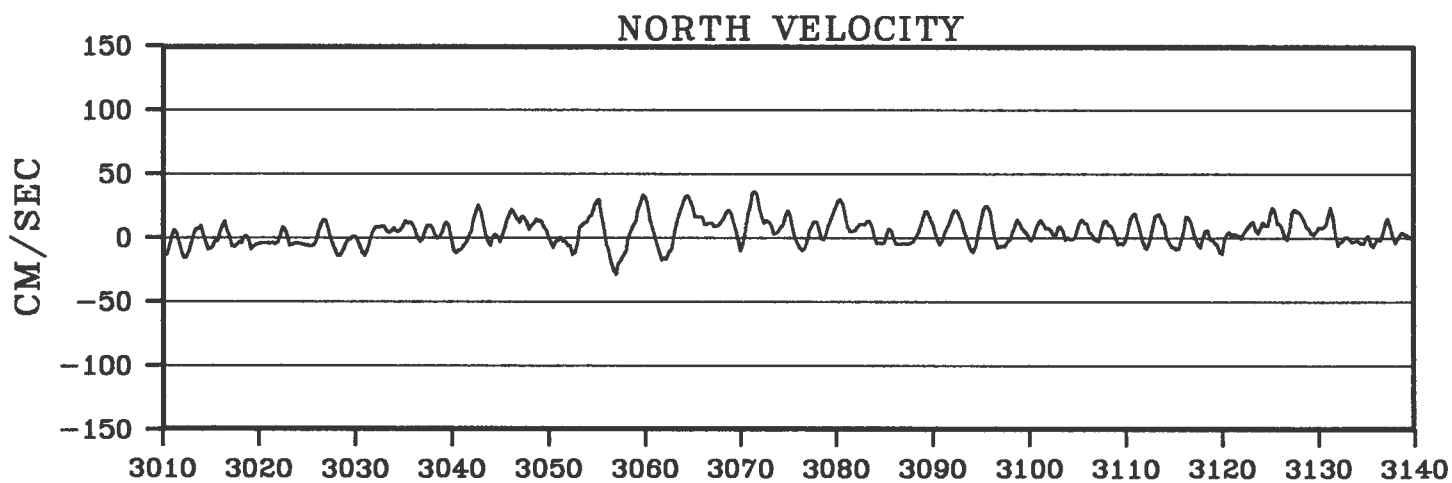
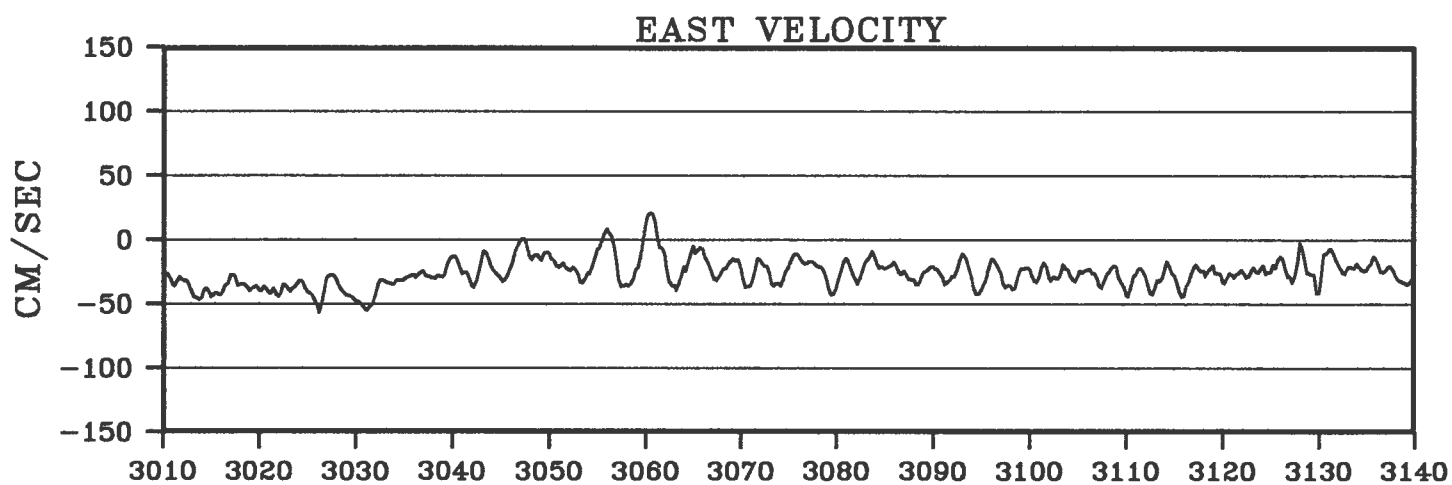
BUOY 6224



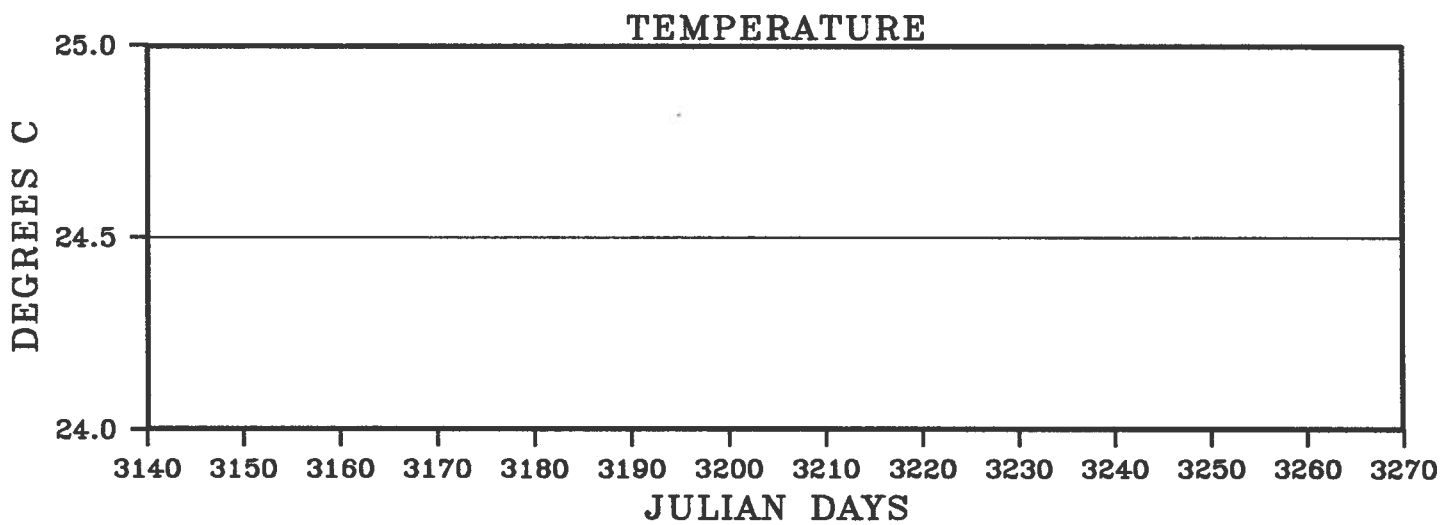
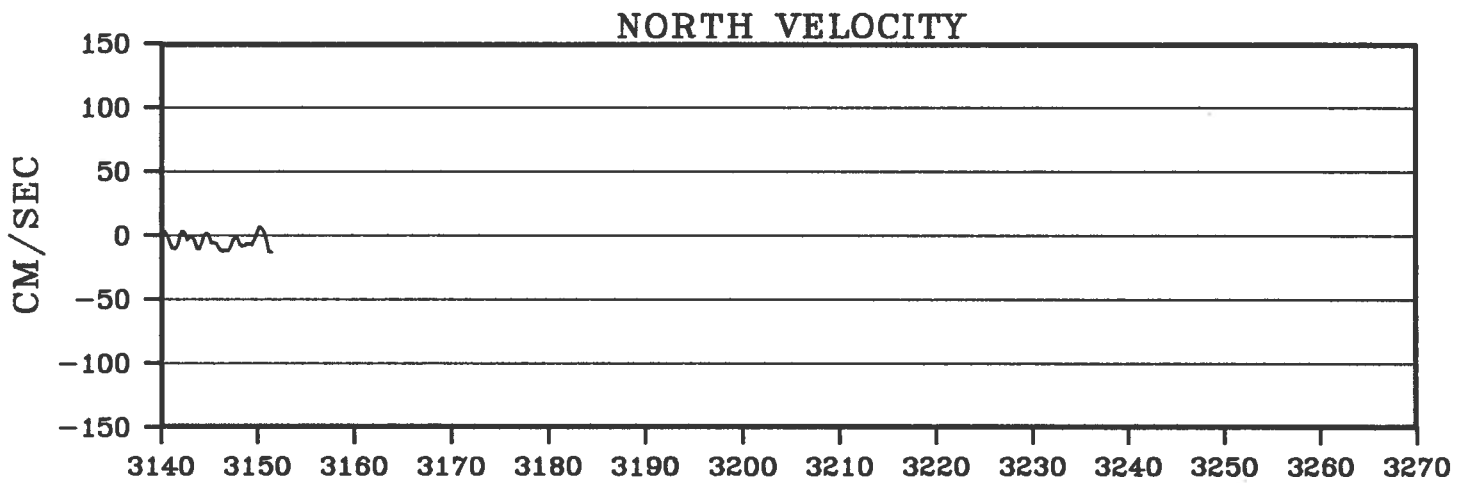
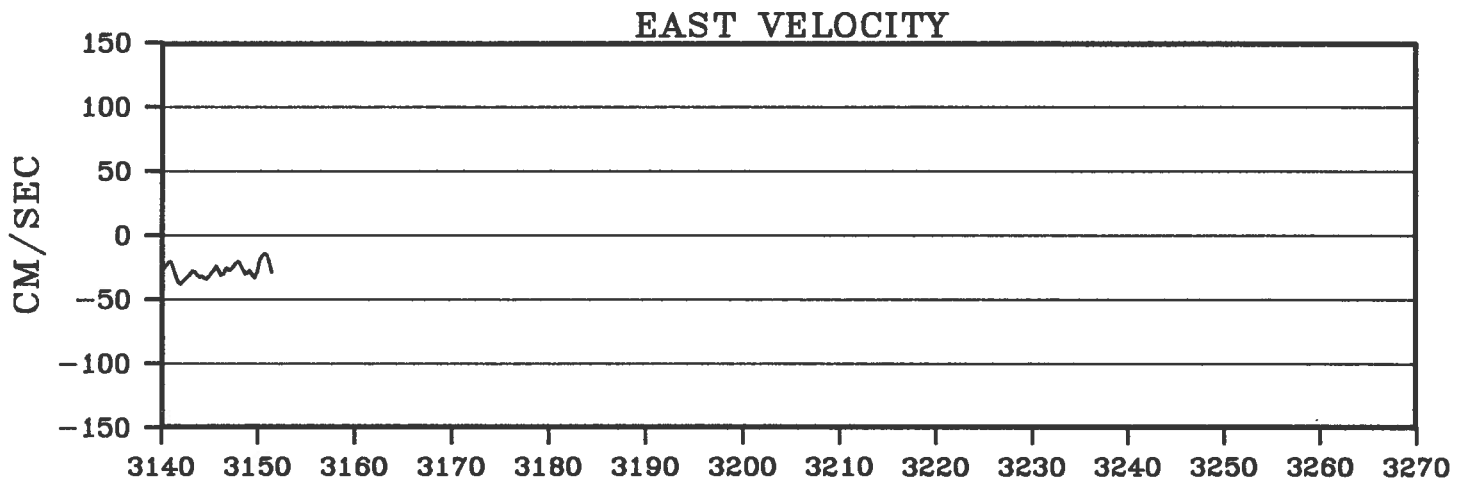
BUOY 6224



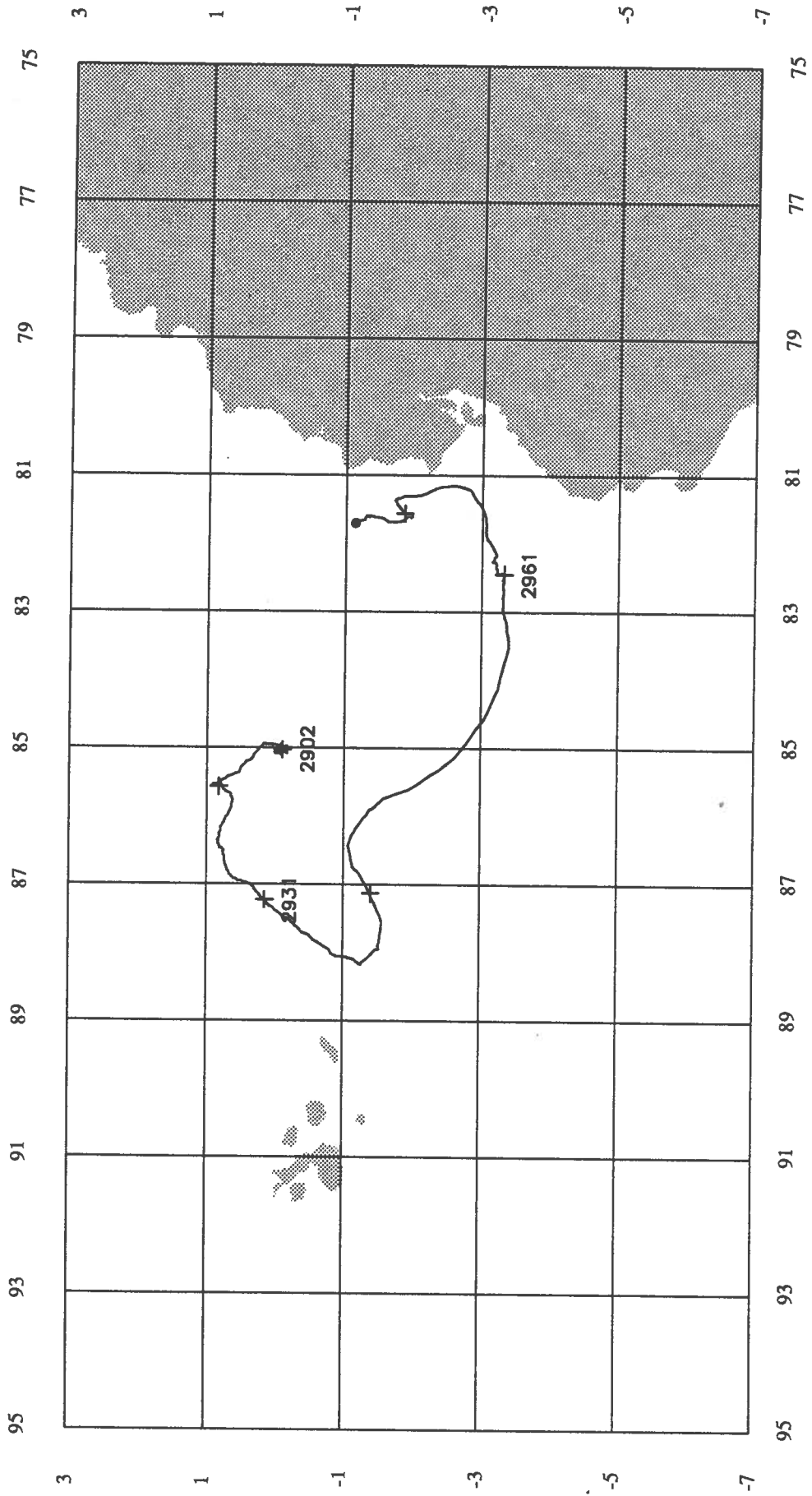
BUOY 6224



BUOY 6224



BUOY 6230



BUOY 6230

