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NOAA Data Report ERL AOML-25

**DATA FROM DRIFTING BUOYS DEPLOYED IN THE EQUATORIAL PACIFIC
BETWEEN APRIL 1, 1987 AND JUNE 30, 1988**

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DATA FROM DRIFTING BUOYS DEPLOYED IN THE EQUATORIAL
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INTRODUCTION

This data report covers the entire life (through August 31, 1989) of free drifting buoys released in the tropical Pacific Ocean by AOML between April 1, 1987 and June 30, 1988. Excluded are those drifters released from Chinese research vessels which were covered in a separate report (Qiyu and Pazos, 1989).

BUOY CONSTRUCTION AND DESIGN

All buoys were designed and built at NOAA/AOML (Bitterman and Hansen, 1986) except buoy 10825 which was an LCD buoy constructed by the Draper Laboratory.

AOML buoys were equipped with drogues and three different sensors: temperature, drogue, and battery voltage. All drogues were holey sock type 10 meters in length centered at 15 meters depth. Drogues were about 0.5 meter in diameter, except for buoys 6873, 6886 and 6887 that had drogue diameters of 1 meter. Data was transmitted every day by all but two buoys: 6873 and 6883 had a duty cycle timer that transmitted every third day.

DATA DISPLAY

Table 1 provides details of buoy life histories. Table 2 illustrates conversion from Julian days to day, month, and year. Deployment times and length of buoy life spans are depicted by bar charts in Figures 1-3.

Figure 4 is a "spaghetti" diagram displaying all buoy tracks. The beginning of each track is marked with a star and the end with a circle.

Buoy displacements by month are located on pages 14 to 23. Individual trajectory and time series plots are found on pages 24 to 174. Beginning and ending of tracks are marked as on the spaghetti diagram, except that the circle is closed if the buoy died, and is open if the buoy was still alive on the closing date of this report. Asterisks indicate where a buoy lost its drogue (if it did so before the buoy died), and cross marks are placed at 15-day intervals. Temperature time series are shorter than velocity plots if the temperature sensor failed while the buoy was still alive.

BIBLIOGRAPHY

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

Qiyu, L., and M. C. Pazos (1989). Drifting buoy data from the western tropical Pacific for the period February 1, 1986 through February 28, 1989. NOAA DATA Report ERL AOML-14.

Table 1: Drift Buoy History

ID	DEP. TIME			DEP LAT	DEP LON	END TIME			DROG LOST			TYPE DEATH	NO. DAYS	
	M	D	Y			M	D	Y	M	D	Y		LIFE/DROGUED	
2986	3	7.00	88	-1.37	85.11	9	14.00	88	8	26.00	88	1	191	172
2987	11	23.00	87	-1.77	85.08	10	26.72	88	10	26.72	88	3	339	339
2988	6	30.00	87	-2.02	84.01	4	15.00	88	4	15.00	88	3	290	290
3133	4	23.87	87	3.60	94.98	4	7.00	88	9	4.00	87	3	349	133
3142	5	6.00	87	0.00	114.98	10	26.31	87	7	7.00	87	3	173	62
4816	4	29.17	87	3.90	109.98	5	23.00	88	7	27.00	87	3	390	89
4817	5	2.00	87	-3.97	110.02	3	28.00	88	3	28.00	88	3	331	331
4818	5	9.96	87	0.00	129.97	6	28.00	87	6	20.00	87	3	49	41
4819	5	12.00	87	0.00	135.08	4	26.00	88	6	21.00	87	3	350	40
4820	5	13.69	87	3.00	140.08	5	31.00	88	5	31.00	88	1	383	383
4821	7	20.84	87	-15.02	83.06	12	19.60	88	12	19.60	88	3	518	518
4822	11	22.00	87	-12.50	78.14	1	27.80	89	1	27.80	89	3	433	433
4823	7	22.00	87	-13.16	79.51	1	20.00	88	1	20.00	88	1	182	182
4824	10	21.00	87	0.00	117.00	12	12.00	87	12	12.00	87	3	52	52
4825	10	31.10	87	5.03	109.95	3	2.00	88	3	2.00	88	3	123	123
4827	5	17.00	88	-12.70	78.70	12	26.80	88	12	26.80	88	3	224	224
6853	10	10.70	87	7.00	144.40	10	16.00	87	10	16.00	87	3	5	5
6854	10	17.10	87	0.00	132.00	8	12.00	88	12	1.00	87	1	300	45
6855	10	14.00	87	0.00	139.90	9	6.16	88	11	8.00	87	3	328	25
6856	10	17.90	87	10.18	89.84	8	21.22	88	11	27.00	87	3	308	40
6857	11	28.90	87	-0.12	124.64	8	31.94	89	4	13.00	88	0	642	136
6858	11	13.00	87	11.02	99.92	1	24.35	89	10	2.00	88	3	438	324
6859	10	28.80	87	-5.00	86.10	4	6.00	88	4	6.00	88	3	160	160
6860	10	17.00	87	0.10	97.50	2	6.00	88	2	6.00	88	2	112	112
6861	10	24.30	87	11.00	95.00	10	26.00	87	10	26.00	87	3	2	2
6862	11	24.00	87	5.17	121.54	1	5.03	89	1	28.00	88	3	408	65
6864	10	24.40	87	0.00	106.30	11	3.60	88	1	13.00	88	3	376	81
6865	10	25.40	87	-5.00	108.40	8	31.84	89	1	23.00	88	0	676	90
6867	11	9.00	87	6.94	114.93	10	8.90	88	9	8.00	88	2	335	304
6868	11	14.90	87	5.99	94.70	6	12.96	88	5	29.00	88	3	211	196
6873	5	30.00	88	2.30	140.10	8	29.80	89	8	16.00	88	0	457	78
6883	5	21.60	88	0.00	144.90	8	29.74	89	8	29.74	89	0	465	465
6884	5	20.60	88	0.00	149.90	8	31.45	89	11	17.00	88	0	468	180
6885	5	18.20	88	0.00	160.00	8	31.84	89	7	11.00	88	0	471	54
6886	5	24.00	88	-0.05	140.00	11	10.31	88	11	10.31	88	3	170	170
6887	5	16.00	88	0.00	169.50	7	28.12	89	7	28.12	89	1	438	438
6889	6	27.00	88	0.00	120.00	8	31.77	89	8	31.77	89	0	431	431
6894	6	25.00	88	0.00	130.00	8	31.84	89	10	3.00	88	0	433	100
10825	6	3.00	88	2.50	141.60	7	22.00	88	7	22.00	88	3	49	49

Type of Death:

- 1 = Buoy ran aground
- 2 = Buoy was picked up by a ship
- 3 = Buoy quit transmitting
- 0 = Buoy still alive

Table 2. Julian Day Conversion

3013	1 APR 87	3069	27 MAY 87	3125	22 JUL 87
3014	2 APR 87	3070	28 MAY 87	3126	23 JUL 87
3015	3 APR 87	3071	29 MAY 87	3127	24 JUL 87
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

Table 2. Julian Day Conversion (Cont.)

3181	16	SEP	87	3237	11	NOV	87	3293	6	JAN	88
3182	17	SEP	87	3238	12	NOV	87	3294	7	JAN	88
3183	18	SEP	87	3239	13	NOV	87	3295	8	JAN	88
3184	19	SEP	87	3240	14	NOV	87	3296	9	JAN	88
3185	20	SEP	87	3241	15	NOV	87	3297	10	JAN	88
3186	21	SEP	87	3242	16	NOV	87	3298	11	JAN	88
3187	22	SEP	87	3243	17	NOV	87	3299	12	JAN	88
3188	23	SEP	87	3244	18	NOV	87	3300	13	JAN	88
3189	24	SEP	87	3245	19	NOV	87	3301	14	JAN	88
3190	25	SEP	87	3246	20	NOV	87	3302	15	JAN	88
3191	26	SEP	87	3247	21	NOV	87	3303	16	JAN	88
3192	27	SEP	87	3248	22	NOV	87	3304	17	JAN	88
3193	28	SEP	87	3249	23	NOV	87	3305	18	JAN	88
3194	29	SEP	87	3250	24	NOV	87	3306	19	JAN	88
3195	30	SEP	87	3251	25	NOV	87	3307	20	JAN	88
3196	1	OCT	87	3252	26	NOV	87	3308	21	JAN	88
3197	2	OCT	87	3253	27	NOV	87	3309	22	JAN	88
3198	3	OCT	87	3254	28	NOV	87	3310	23	JAN	88
3199	4	OCT	87	3255	29	NOV	87	3311	24	JAN	88
3200	5	OCT	87	3256	30	NOV	87	3312	25	JAN	88
3201	6	OCT	87	3257	1	DEC	87	3313	26	JAN	88
3202	7	OCT	87	3258	2	DEC	87	3314	27	JAN	88
3203	8	OCT	87	3259	3	DEC	87	3315	28	JAN	88
3204	9	OCT	87	3260	4	DEC	87	3316	29	JAN	88
3205	10	OCT	87	3261	5	DEC	87	3317	30	JAN	88
3206	11	OCT	87	3262	6	DEC	87	3318	31	JAN	88
3207	12	OCT	87	3263	7	DEC	87	3319	1	FEB	88
3208	13	OCT	87	3264	8	DEC	87	3320	2	FEB	88
3209	14	OCT	87	3265	9	DEC	87	3321	3	FEB	88
3210	15	OCT	87	3266	10	DEC	87	3322	4	FEB	88
3211	16	OCT	87	3267	11	DEC	87	3323	5	FEB	88
3212	17	OCT	87	3268	12	DEC	87	3324	6	FEB	88
3213	18	OCT	87	3269	13	DEC	87	3325	7	FEB	88
3214	19	OCT	87	3270	14	DEC	87	3326	8	FEB	88
3215	20	OCT	87	3271	15	DEC	87	3327	9	FEB	88
3216	21	OCT	87	3272	16	DEC	87	3328	10	FEB	88
3217	22	OCT	87	3273	17	DEC	87	3329	11	FEB	88
3218	23	OCT	87	3274	18	DEC	87	3330	12	FEB	88
3219	24	OCT	87	3275	19	DEC	87	3331	13	FEB	88
3220	25	OCT	87	3276	20	DEC	87	3332	14	FEB	88
3221	26	OCT	87	3277	21	DEC	87	3333	15	FEB	88
3222	27	OCT	87	3278	22	DEC	87	3334	16	FEB	88
3223	28	OCT	87	3279	23	DEC	87	3335	17	FEB	88
3224	29	OCT	87	3280	24	DEC	87	3336	18	FEB	88
3225	30	OCT	87	3281	25	DEC	87	3337	19	FEB	88
3226	31	OCT	87	3282	26	DEC	87	3338	20	FEB	88
3227	1	NOV	87	3283	27	DEC	87	3339	21	FEB	88
3228	2	NOV	87	3284	28	DEC	87	3340	22	FEB	88
3229	3	NOV	87	3285	29	DEC	87	3341	23	FEB	88
3230	4	NOV	87	3286	30	DEC	87	3342	24	FEB	88
3231	5	NOV	87	3287	31	DEC	87	3343	25	FEB	88
3232	6	NOV	87	3288	1	JAN	88	3344	26	FEB	88
3233	7	NOV	87	3289	2	JAN	88	3345	27	FEB	88
3234	8	NOV	87	3290	3	JAN	88	3346	28	FEB	88
3235	9	NOV	87	3291	4	JAN	88	3347	29	FEB	88
3236	10	NOV	87	3292	5	JAN	88	3348	1	MAR	88

Table 2. Julian Day Conversion (Cont.)

3349	2	MAR	88	3405	27	APR	88	3461	22	JUN	88
3350	3	MAR	88	3406	28	APR	88	3462	23	JUN	88
3351	4	MAR	88	3407	29	APR	88	3463	24	JUN	88
3352	5	MAR	88	3408	30	APR	88	3464	25	JUN	88
3353	6	MAR	88	3409	1	MAY	88	3465	26	JUN	88
3354	7	MAR	88	3410	2	MAY	88	3466	27	JUN	88
3355	8	MAR	88	3411	3	MAY	88	3467	28	JUN	88
3356	9	MAR	88	3412	4	MAY	88	3468	29	JUN	88
3357	10	MAR	88	3413	5	MAY	88	3469	30	JUN	88
3358	11	MAR	88	3414	6	MAY	88	3470	1	JUL	88
3359	12	MAR	88	3415	7	MAY	88	3471	2	JUL	88
3360	13	MAR	88	3416	8	MAY	88	3472	3	JUL	88
3361	14	MAR	88	3417	9	MAY	88	3473	4	JUL	88
3362	15	MAR	88	3418	10	MAY	88	3474	5	JUL	88
3363	16	MAR	88	3419	11	MAY	88	3475	6	JUL	88
3364	17	MAR	88	3420	12	MAY	88	3476	7	JUL	88
3365	18	MAR	88	3421	13	MAY	88	3477	8	JUL	88
3366	19	MAR	88	3422	14	MAY	88	3478	9	JUL	88
3367	20	MAR	88	3423	15	MAY	88	3479	10	JUL	88
3368	21	MAR	88	3424	16	MAY	88	3480	11	JUL	88
3369	22	MAR	88	3425	17	MAY	88	3481	12	JUL	88
3370	23	MAR	88	3426	18	MAY	88	3482	13	JUL	88
3371	24	MAR	88	3427	19	MAY	88	3483	14	JUL	88
3372	25	MAR	88	3428	20	MAY	88	3484	15	JUL	88
3373	26	MAR	88	3429	21	MAY	88	3485	16	JUL	88
3374	27	MAR	88	3430	22	MAY	88	3486	17	JUL	88
3375	28	MAR	88	3431	23	MAY	88	3487	18	JUL	88
3376	29	MAR	88	3432	24	MAY	88	3488	19	JUL	88
3377	30	MAR	88	3433	25	MAY	88	3489	20	JUL	88
3378	31	MAR	88	3434	26	MAY	88	3490	21	JUL	88
3379	1	APR	88	3435	27	MAY	88	3491	22	JUL	88
3380	2	APR	88	3436	28	MAY	88	3492	23	JUL	88
3381	3	APR	88	3437	29	MAY	88	3493	24	JUL	88
3382	4	APR	88	3438	30	MAY	88	3494	25	JUL	88
3383	5	APR	88	3439	31	MAY	88	3495	26	JUL	88
3384	6	APR	88	3440	1	JUN	88	3496	27	JUL	88
3385	7	APR	88	3441	2	JUN	88	3497	28	JUL	88
3386	8	APR	88	3442	3	JUN	88	3498	29	JUL	88
3387	9	APR	88	3443	4	JUN	88	3499	30	JUL	88
3388	10	APR	88	3444	5	JUN	88	3500	31	JUL	88
3389	11	APR	88	3445	6	JUN	88	3501	1	AUG	88
3390	12	APR	88	3446	7	JUN	88	3502	2	AUG	88
3391	13	APR	88	3447	8	JUN	88	3503	3	AUG	88
3392	14	APR	88	3448	9	JUN	88	3504	4	AUG	88
3393	15	APR	88	3449	10	JUN	88	3505	5	AUG	88
3394	16	APR	88	3450	11	JUN	88	3506	6	AUG	88
3395	17	APR	88	3451	12	JUN	88	3507	7	AUG	88
3396	18	APR	88	3452	13	JUN	88	3508	8	AUG	88
3397	19	APR	88	3453	14	JUN	88	3509	9	AUG	88
3398	20	APR	88	3454	15	JUN	88	3510	10	AUG	88
3399	21	APR	88	3455	16	JUN	88	3511	11	AUG	88
3400	22	APR	88	3456	17	JUN	88	3512	12	AUG	88
3401	23	APR	88	3457	18	JUN	88	3513	13	AUG	88
3402	24	APR	88	3458	19	JUN	88	3514	14	AUG	88
3403	25	APR	88	3459	20	JUN	88	3515	15	AUG	88
3404	26	APR	88	3460	21	JUN	88	3516	16	AUG	88

Table 2. Julian Day Conversion (Cont.)

3517	17	AUG	88	3573	12	OCT	88	3629	7	DEC	88
3518	18	AUG	88	3574	13	OCT	88	3630	8	DEC	88
3519	19	AUG	88	3575	14	OCT	88	3631	9	DEC	88
3520	20	AUG	88	3576	15	OCT	88	3632	10	DEC	88
3521	21	AUG	88	3577	16	OCT	88	3633	11	DEC	88
3522	22	AUG	88	3578	17	OCT	88	3634	12	DEC	88
3523	23	AUG	88	3579	18	OCT	88	3635	13	DEC	88
3524	24	AUG	88	3580	19	OCT	88	3636	14	DEC	88
3525	25	AUG	88	3581	20	OCT	88	3637	15	DEC	88
3526	26	AUG	88	3582	21	OCT	88	3638	16	DEC	88
3527	27	AUG	88	3583	22	OCT	88	3639	17	DEC	88
3528	28	AUG	88	3584	23	OCT	88	3640	18	DEC	88
3529	29	AUG	88	3585	24	OCT	88	3641	19	DEC	88
3530	30	AUG	88	3586	25	OCT	88	3642	20	DEC	88
3531	31	AUG	88	3587	26	OCT	88	3643	21	DEC	88
3532	1	SEP	88	3588	27	OCT	88	3644	22	DEC	88
3533	2	SEP	88	3589	28	OCT	88	3645	23	DEC	88
3534	3	SEP	88	3590	29	OCT	88	3646	24	DEC	88
3535	4	SEP	88	3591	30	OCT	88	3647	25	DEC	88
3536	5	SEP	88	3592	31	OCT	88	3648	26	DEC	88
3537	6	SEP	88	3593	1	NOV	88	3649	27	DEC	88
3538	7	SEP	88	3594	2	NOV	88	3650	28	DEC	88
3539	8	SEP	88	3595	3	NOV	88	3651	29	DEC	88
3540	9	SEP	88	3596	4	NOV	88	3652	30	DEC	88
3541	10	SEP	88	3597	5	NOV	88	3653	31	DEC	88
3542	11	SEP	88	3598	6	NOV	88	3654	1	JAN	89
3543	12	SEP	88	3599	7	NOV	88	3655	2	JAN	89
3544	13	SEP	88	3600	8	NOV	88	3656	3	JAN	89
3545	14	SEP	88	3601	9	NOV	88	3657	4	JAN	89
3546	15	SEP	88	3602	10	NOV	88	3658	5	JAN	89
3547	16	SEP	88	3603	11	NOV	88	3659	6	JAN	89
3548	17	SEP	88	3604	12	NOV	88	3660	7	JAN	89
3549	18	SEP	88	3605	13	NOV	88	3661	8	JAN	89
3550	19	SEP	88	3606	14	NOV	88	3662	9	JAN	89
3551	20	SEP	88	3607	15	NOV	88	3663	10	JAN	89
3552	21	SEP	88	3608	16	NOV	88	3664	11	JAN	89
3553	22	SEP	88	3609	17	NOV	88	3665	12	JAN	89
3554	23	SEP	88	3610	18	NOV	88	3666	13	JAN	89
3555	24	SEP	88	3611	19	NOV	88	3667	14	JAN	89
3556	25	SEP	88	3612	20	NOV	88	3668	15	JAN	89
3557	26	SEP	88	3613	21	NOV	88	3669	16	JAN	89
3558	27	SEP	88	3614	22	NOV	88	3670	17	JAN	89
3559	28	SEP	88	3615	23	NOV	88	3671	18	JAN	89
3560	29	SEP	88	3616	24	NOV	88	3672	19	JAN	89
3561	30	SEP	88	3617	25	NOV	88	3673	20	JAN	89
3562	1	OCT	88	3618	26	NOV	88	3674	21	JAN	89
3563	2	OCT	88	3619	27	NOV	88	3675	22	JAN	89
3564	3	OCT	88	3620	28	NOV	88	3676	23	JAN	89
3565	4	OCT	88	3621	29	NOV	88	3677	24	JAN	89
3566	5	OCT	88	3622	30	NOV	88	3678	25	JAN	89
3567	6	OCT	88	3623	1	DEC	88	3679	26	JAN	89
3568	7	OCT	88	3624	2	DEC	88	3680	27	JAN	89
3569	8	OCT	88	3625	3	DEC	88	3681	28	JAN	89
3570	9	OCT	88	3626	4	DEC	88	3682	29	JAN	89
3571	10	OCT	88	3627	5	DEC	88	3683	30	JAN	89
3572	11	OCT	88	3628	6	DEC	88	3684	31	JAN	89

Table 2. Julian Day Conversion (Cont.)

3685	1 FEB 89	3741	29 MAR 89	3797	24 MAY 89
3686	2 FEB 89	3742	30 MAR 89	3798	25 MAY 89
3687	3 FEB 89	3743	31 MAR 89	3799	26 MAY 89
3688	4 FEB 89	3744	1 APR 89	3800	27 MAY 89
3689	5 FEB 89	3745	2 APR 89	3801	28 MAY 89
3690	6 FEB 89	3746	3 APR 89	3802	29 MAY 89
3691	7 FEB 89	3747	4 APR 89	3803	30 MAY 89
3692	8 FEB 89	3748	5 APR 89	3804	31 MAY 89
3693	9 FEB 89	3749	6 APR 89	3805	1 JUN 89
3694	10 FEB 89	3750	7 APR 89	3806	2 JUN 89
3695	11 FEB 89	3751	8 APR 89	3807	3 JUN 89
3696	12 FEB 89	3752	9 APR 89	3808	4 JUN 89
3697	13 FEB 89	3753	10 APR 89	3809	5 JUN 89
3698	14 FEB 89	3754	11 APR 89	3810	6 JUN 89
3699	15 FEB 89	3755	12 APR 89	3811	7 JUN 89
3700	16 FEB 89	3756	13 APR 89	3812	8 JUN 89
3701	17 FEB 89	3757	14 APR 89	3813	9 JUN 89
3702	18 FEB 89	3758	15 APR 89	3814	10 JUN 89
3703	19 FEB 89	3759	16 APR 89	3815	11 JUN 89
3704	20 FEB 89	3760	17 APR 89	3816	12 JUN 89
3705	21 FEB 89	3761	18 APR 89	3817	13 JUN 89
3706	22 FEB 89	3762	19 APR 89	3818	14 JUN 89
3707	23 FEB 89	3763	20 APR 89	3819	15 JUN 89
3708	24 FEB 89	3764	21 APR 89	3820	16 JUN 89
3709	25 FEB 89	3765	22 APR 89	3821	17 JUN 89
3710	26 FEB 89	3766	23 APR 89	3822	18 JUN 89
3711	27 FEB 89	3767	24 APR 89	3823	19 JUN 89
3712	28 FEB 89	3768	25 APR 89	3824	20 JUN 89
3713	1 MAR 89	3769	26 APR 89	3825	21 JUN 89
3714	2 MAR 89	3770	27 APR 89	3826	22 JUN 89
3715	3 MAR 89	3771	28 APR 89	3827	23 JUN 89
3716	4 MAR 89	3772	29 APR 89	3828	24 JUN 89
3717	5 MAR 89	3773	30 APR 89	3829	25 JUN 89
3718	6 MAR 89	3774	1 MAY 89	3830	26 JUN 89
3719	7 MAR 89	3775	2 MAY 89	3831	27 JUN 89
3720	8 MAR 89	3776	3 MAY 89	3832	28 JUN 89
3721	9 MAR 89	3777	4 MAY 89	3833	29 JUN 89
3722	10 MAR 89	3778	5 MAY 89	3834	30 JUN 89
3723	11 MAR 89	3779	6 MAY 89	3835	1 JUL 89
3724	12 MAR 89	3780	7 MAY 89	3836	2 JUL 89
3725	13 MAR 89	3781	8 MAY 89	3837	3 JUL 89
3726	14 MAR 89	3782	9 MAY 89	3838	4 JUL 89
3727	15 MAR 89	3783	10 MAY 89	3839	5 JUL 89
3728	16 MAR 89	3784	11 MAY 89	3840	6 JUL 89
3729	17 MAR 89	3785	12 MAY 89	3841	7 JUL 89
3730	18 MAR 89	3786	13 MAY 89	3842	8 JUL 89
3731	19 MAR 89	3787	14 MAY 89	3843	9 JUL 89
3732	20 MAR 89	3788	15 MAY 89	3844	10 JUL 89
3733	21 MAR 89	3789	16 MAY 89	3845	11 JUL 89
3734	22 MAR 89	3790	17 MAY 89	3846	12 JUL 89
3735	23 MAR 89	3791	18 MAY 89	3847	13 JUL 89
3736	24 MAR 89	3792	19 MAY 89	3848	14 JUL 89
3737	25 MAR 89	3793	20 MAY 89	3849	15 JUL 89
3738	26 MAR 89	3794	21 MAY 89	3850	16 JUL 89
3739	27 MAR 89	3795	22 MAY 89	3851	17 JUL 89
3740	28 MAR 89	3796	23 MAY 89	3852	18 JUL 89

Table 2. Julian Day Conversion (Cont.)

3853	19	JUL	89	3909	13	SEP	89	3965	8	NOV	89
3854	20	JUL	89	3910	14	SEP	89	3966	9	NOV	89
3855	21	JUL	89	3911	15	SEP	89	3967	10	NOV	89
3856	22	JUL	89	3912	16	SEP	89	3968	11	NOV	89
3857	23	JUL	89	3913	17	SEP	89	3969	12	NOV	89
3858	24	JUL	89	3914	18	SEP	89	3970	13	NOV	89
3859	25	JUL	89	3915	19	SEP	89	3971	14	NOV	89
3860	26	JUL	89	3916	20	SEP	89	3972	15	NOV	89
3861	27	JUL	89	3917	21	SEP	89	3973	16	NOV	89
3862	28	JUL	89	3918	22	SEP	89	3974	17	NOV	89
3863	29	JUL	89	3919	23	SEP	89	3975	18	NOV	89
3864	30	JUL	89	3920	24	SEP	89	3976	19	NOV	89
3865	31	JUL	89	3921	25	SEP	89	3977	20	NOV	89
3866	1	AUG	89	3922	26	SEP	89	3978	21	NOV	89
3867	2	AUG	89	3923	27	SEP	89	3979	22	NOV	89
3868	3	AUG	89	3924	28	SEP	89	3980	23	NOV	89
3869	4	AUG	89	3925	29	SEP	89	3981	24	NOV	89
3870	5	AUG	89	3926	30	SEP	89	3982	25	NOV	89
3871	6	AUG	89	3927	1	OCT	89	3983	26	NOV	89
3872	7	AUG	89	3928	2	OCT	89	3984	27	NOV	89
3873	8	AUG	89	3929	3	OCT	89	3985	28	NOV	89
3874	9	AUG	89	3930	4	OCT	89	3986	29	NOV	89
3875	10	AUG	89	3931	5	OCT	89	3987	30	NOV	89
3876	11	AUG	89	3932	6	OCT	89	3988	1	DEC	89
3877	12	AUG	89	3933	7	OCT	89	3989	2	DEC	89
3878	13	AUG	89	3934	8	OCT	89	3990	3	DEC	89
3879	14	AUG	89	3935	9	OCT	89	3991	4	DEC	89
3880	15	AUG	89	3936	10	OCT	89	3992	5	DEC	89
3881	16	AUG	89	3937	11	OCT	89	3993	6	DEC	89
3882	17	AUG	89	3938	12	OCT	89	3994	7	DEC	89
3883	18	AUG	89	3939	13	OCT	89	3995	8	DEC	89
3884	19	AUG	89	3940	14	OCT	89	3996	9	DEC	89
3885	20	AUG	89	3941	15	OCT	89	3997	10	DEC	89
3886	21	AUG	89	3942	16	OCT	89	3998	11	DEC	89
3887	22	AUG	89	3943	17	OCT	89	3999	12	DEC	89
3888	23	AUG	89	3944	18	OCT	89	4000	13	DEC	89
3889	24	AUG	89	3945	19	OCT	89	4001	14	DEC	89
3890	25	AUG	89	3946	20	OCT	89	4002	15	DEC	89
3891	26	AUG	89	3947	21	OCT	89	4003	16	DEC	89
3892	27	AUG	89	3948	22	OCT	89	4004	17	DEC	89
3893	28	AUG	89	3949	23	OCT	89	4005	18	DEC	89
3894	29	AUG	89	3950	24	OCT	89	4006	19	DEC	89
3895	30	AUG	89	3951	25	OCT	89	4007	20	DEC	89
3896	31	AUG	89	3952	26	OCT	89	4008	21	DEC	89
3897	1	SEP	89	3953	27	OCT	89	4009	22	DEC	89
3898	2	SEP	89	3954	28	OCT	89	4010	23	DEC	89
3899	3	SEP	89	3955	29	OCT	89	4011	24	DEC	89
3900	4	SEP	89	3956	30	OCT	89	4012	25	DEC	89
3901	5	SEP	89	3957	31	OCT	89	4013	26	DEC	89
3902	6	SEP	89	3958	1	NOV	89	4014	27	DEC	89
3903	7	SEP	89	3959	2	NOV	89	4015	28	DEC	89
3904	8	SEP	89	3960	3	NOV	89	4016	29	DEC	89
3905	9	SEP	89	3961	4	NOV	89	4017	30	DEC	89
3906	10	SEP	89	3962	5	NOV	89	4018	31	DEC	89
3907	11	SEP	89	3963	6	NOV	89	4019	1	JAN	90
3908	12	SEP	89	3964	7	NOV	89	4020	2	JAN	90

DRIFT BUOY LIFETIMES

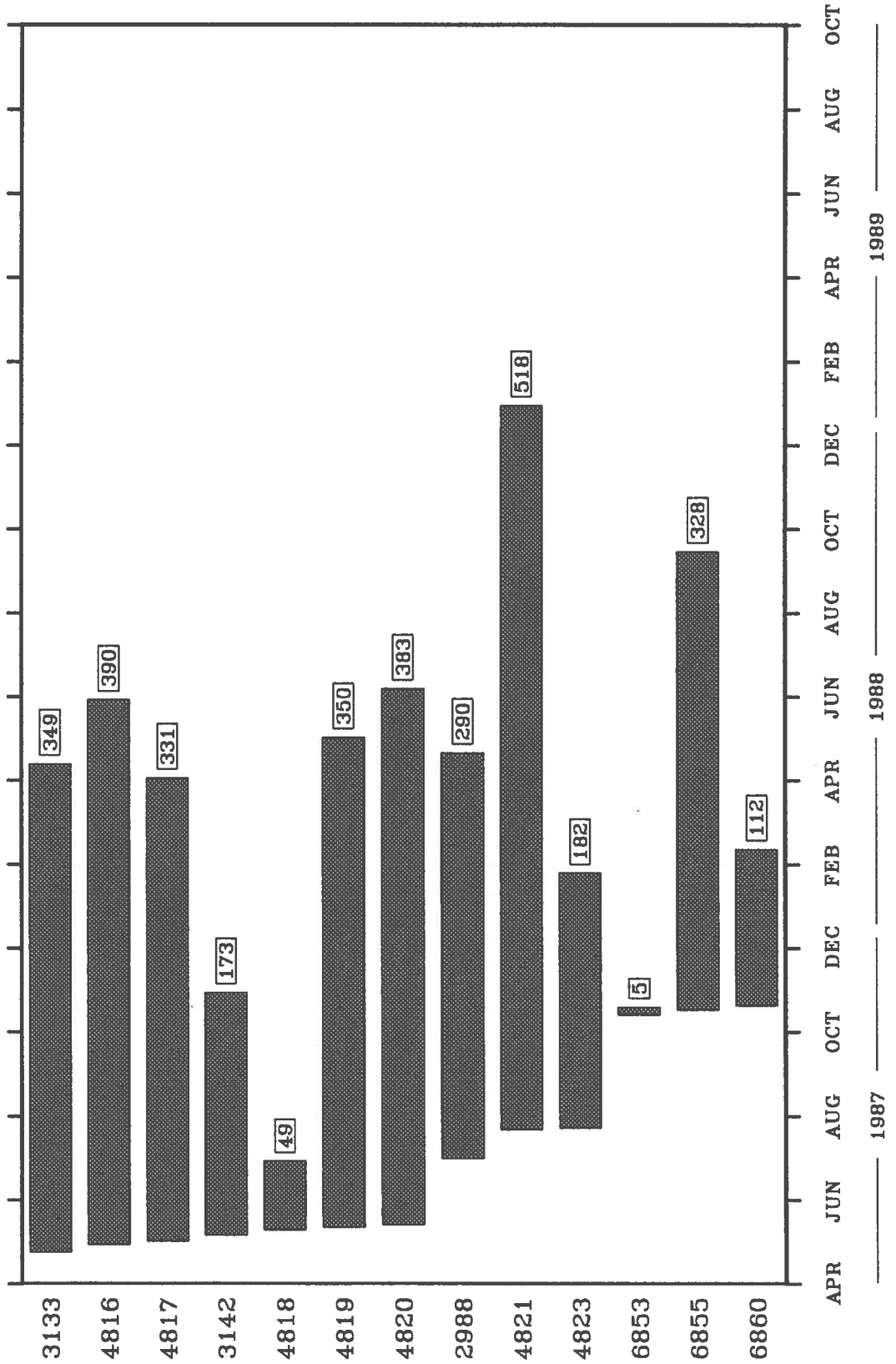


Figure 1. Time span of data from drifting buoys included in this report.

DRIFT BUOY LIFETIMES

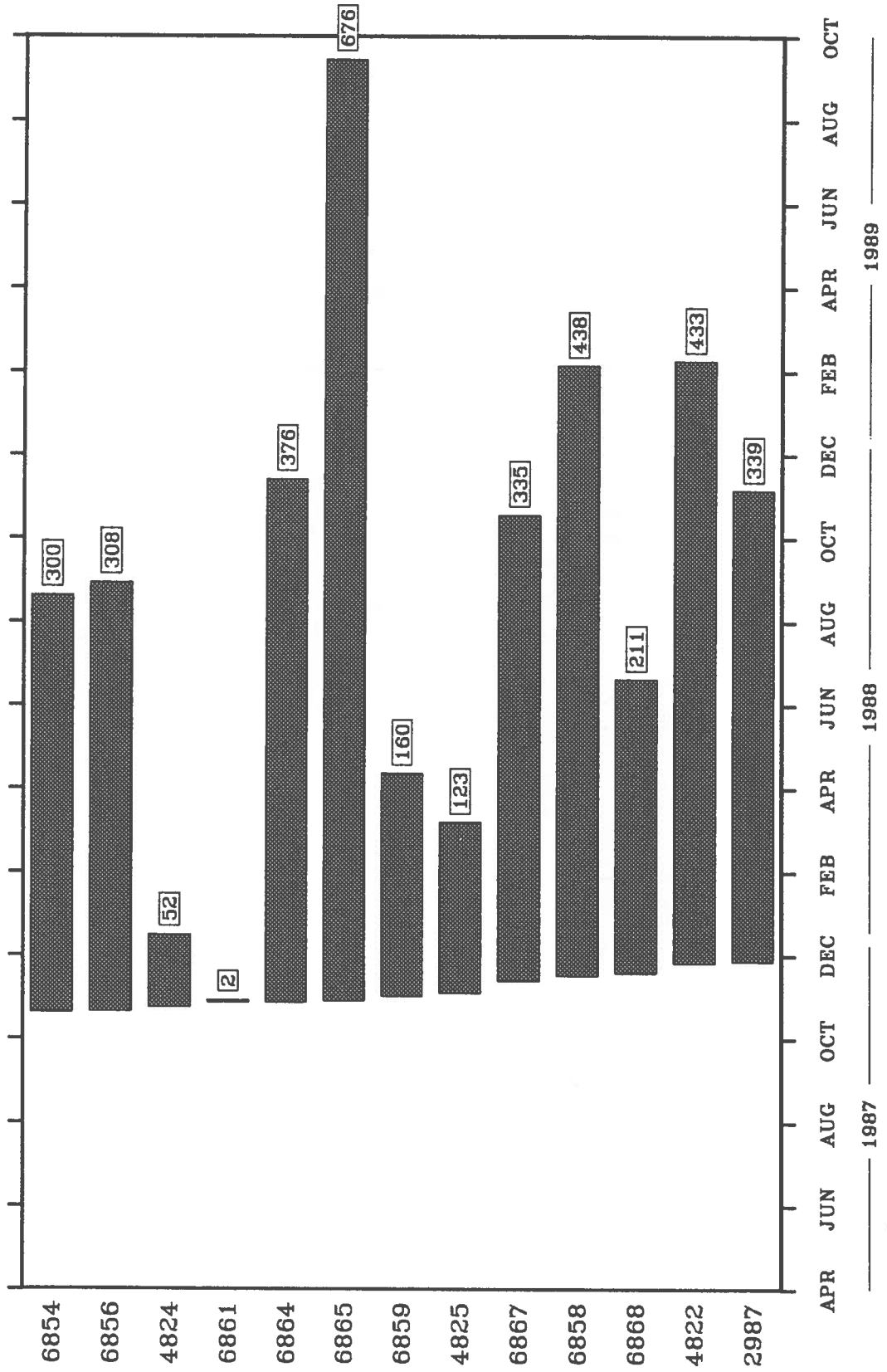


Figure 2. Time span of data from drifting buoys included in this report.

DRIFT BUOY LIFETIMES

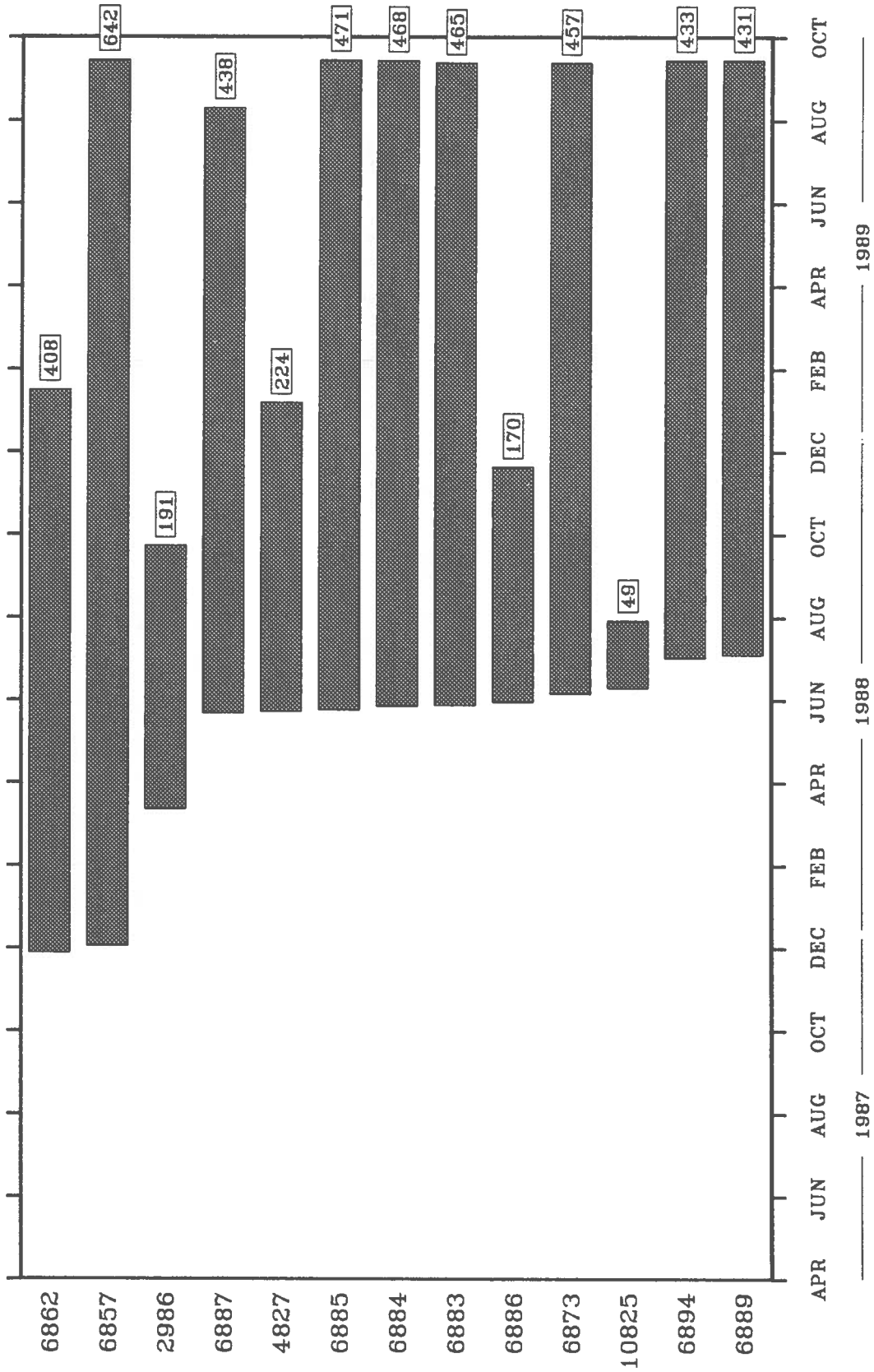


Figure 3. Time span of data from drifting buoys included in this report.

Composite plot of all trajectories from April 1, 1987 thru August 31, 1989

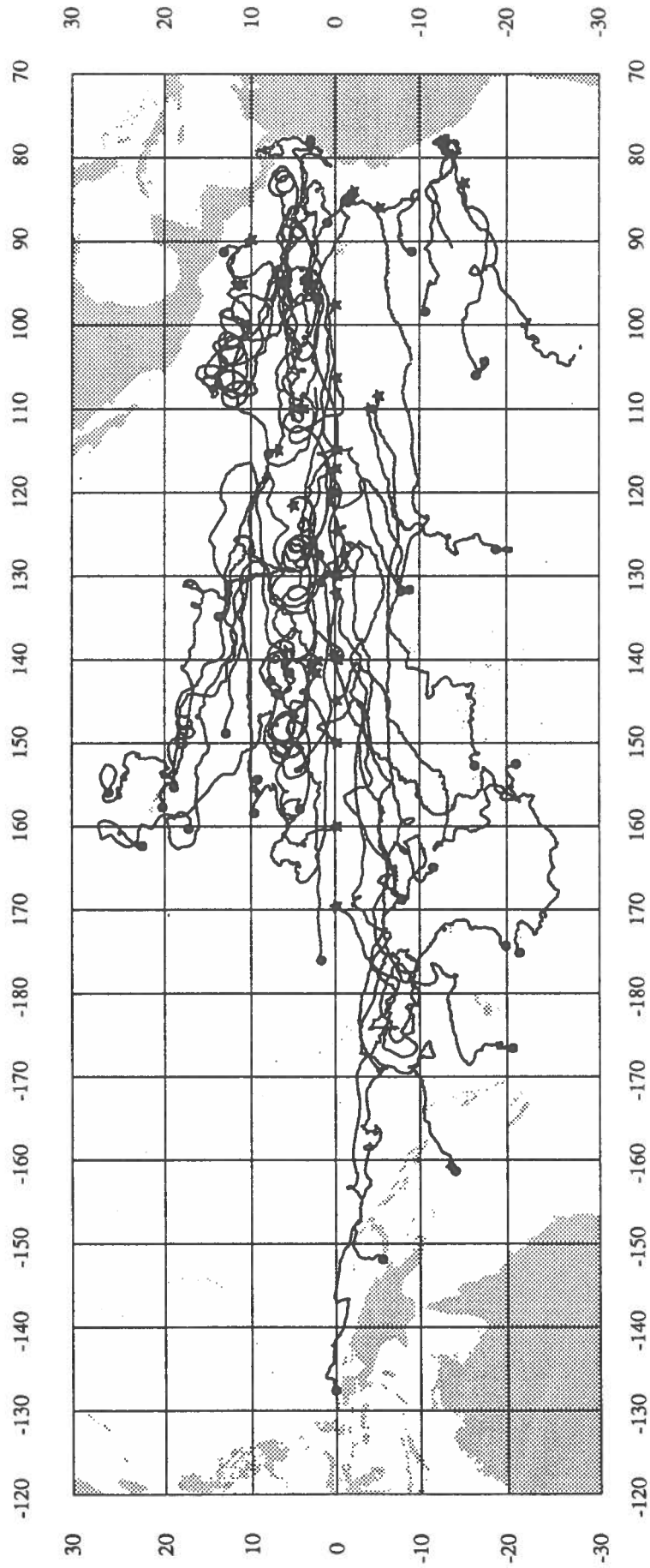
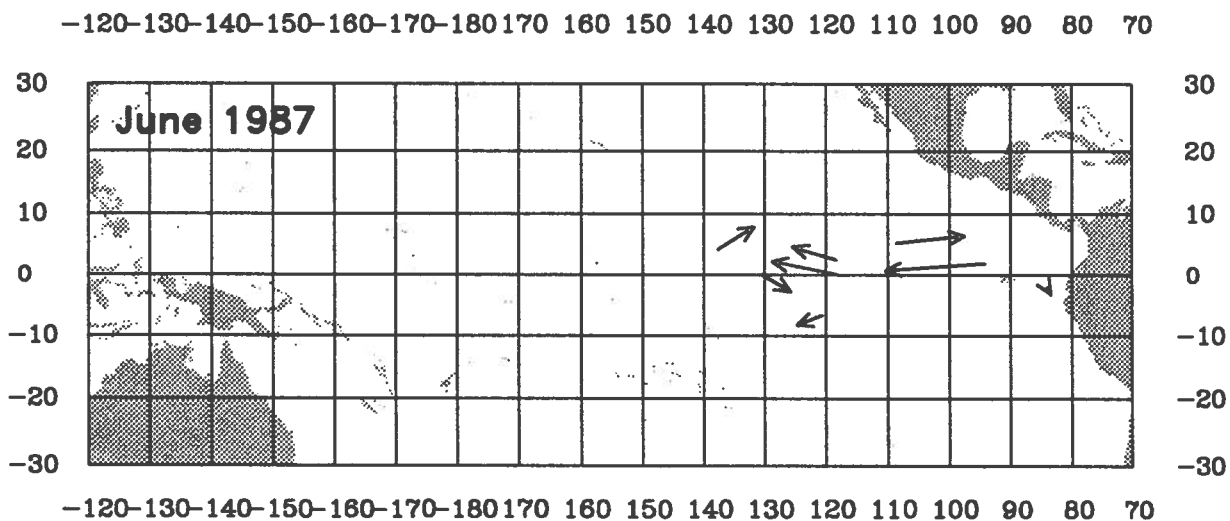
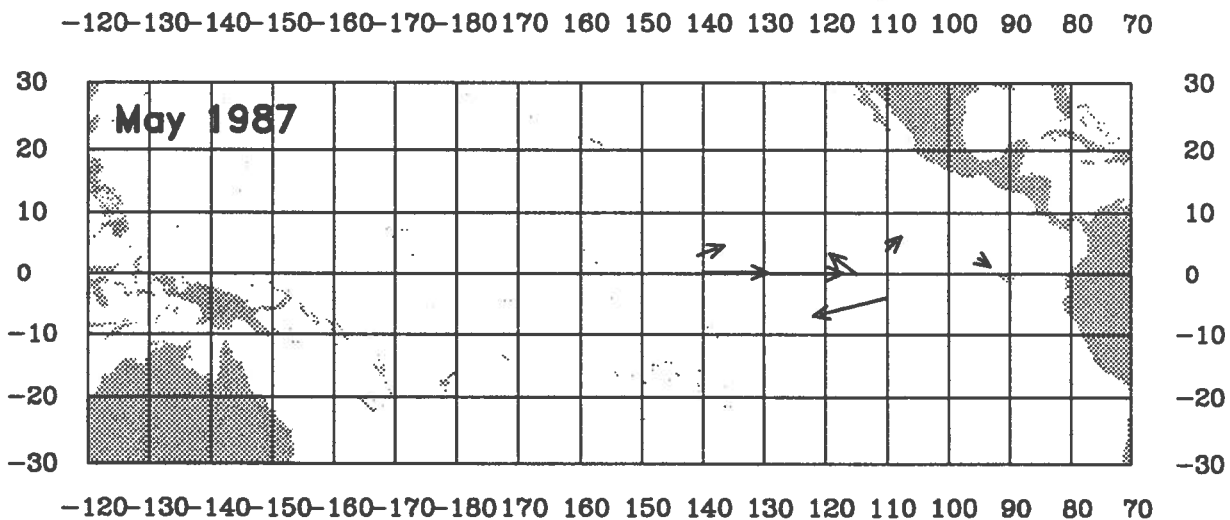
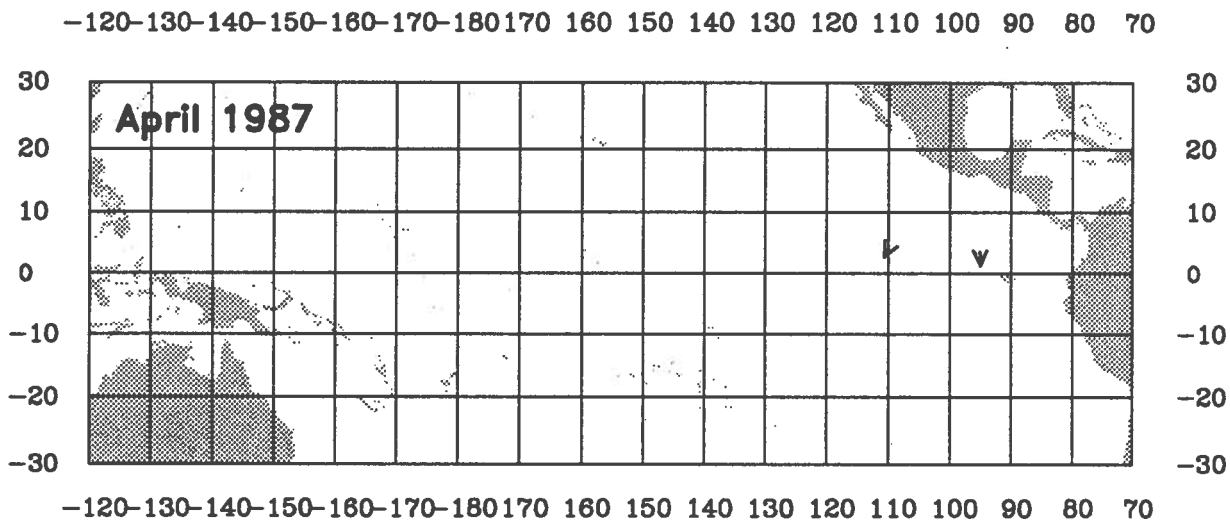
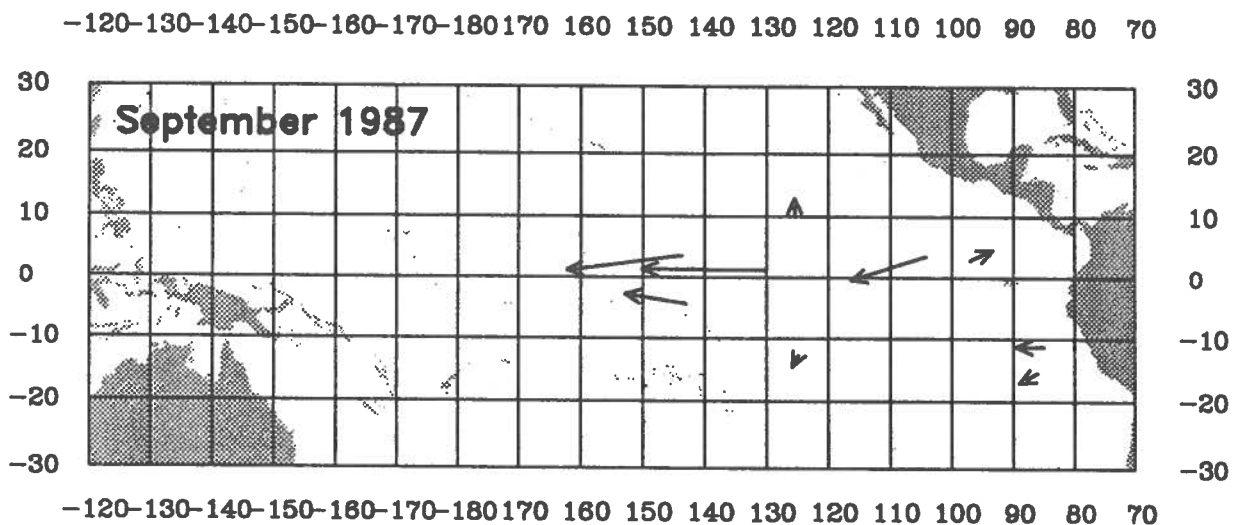
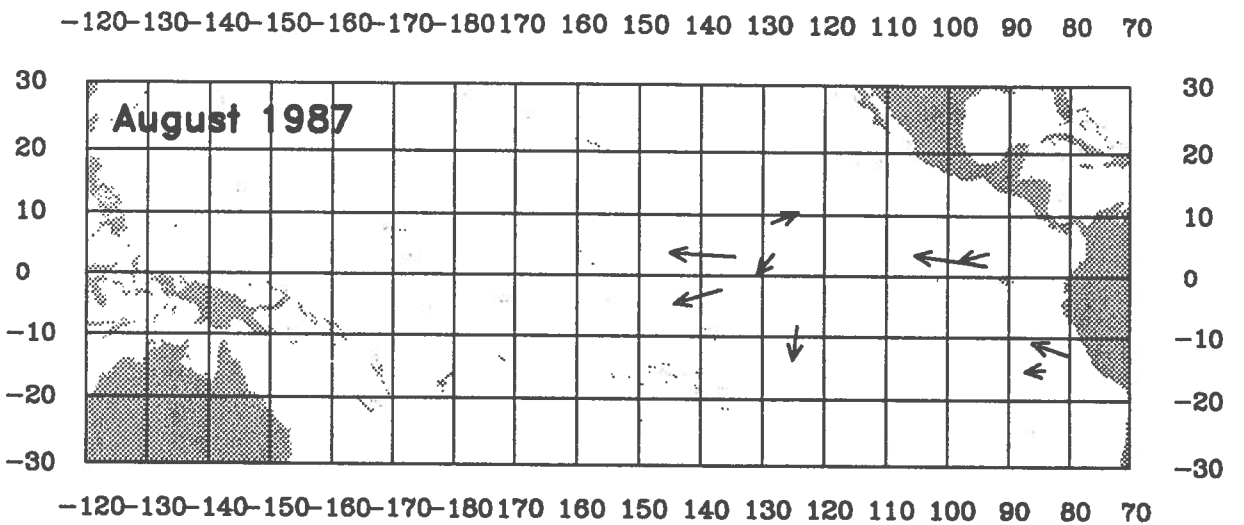
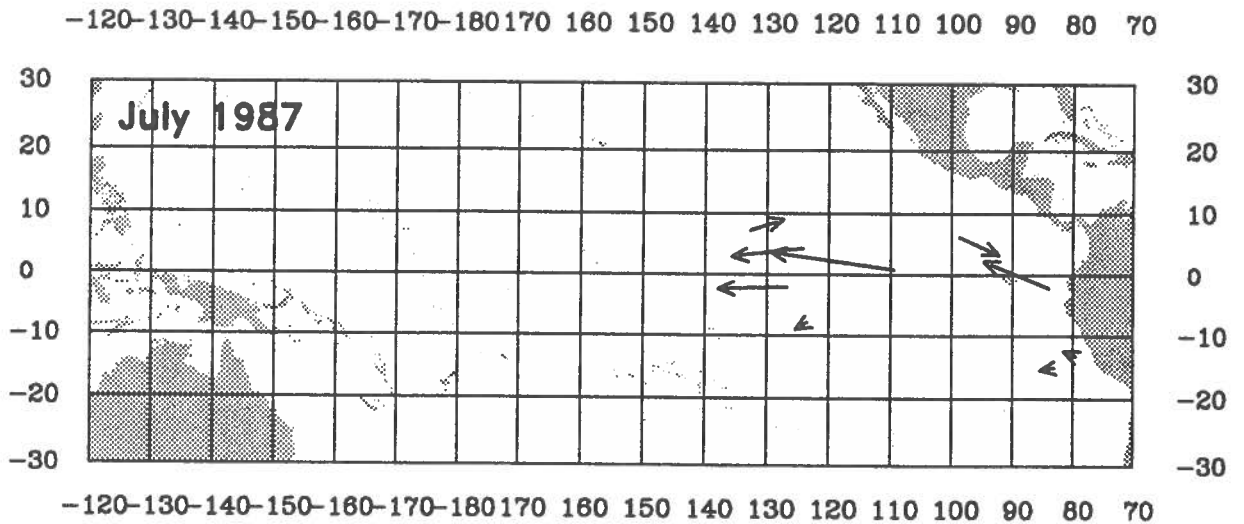


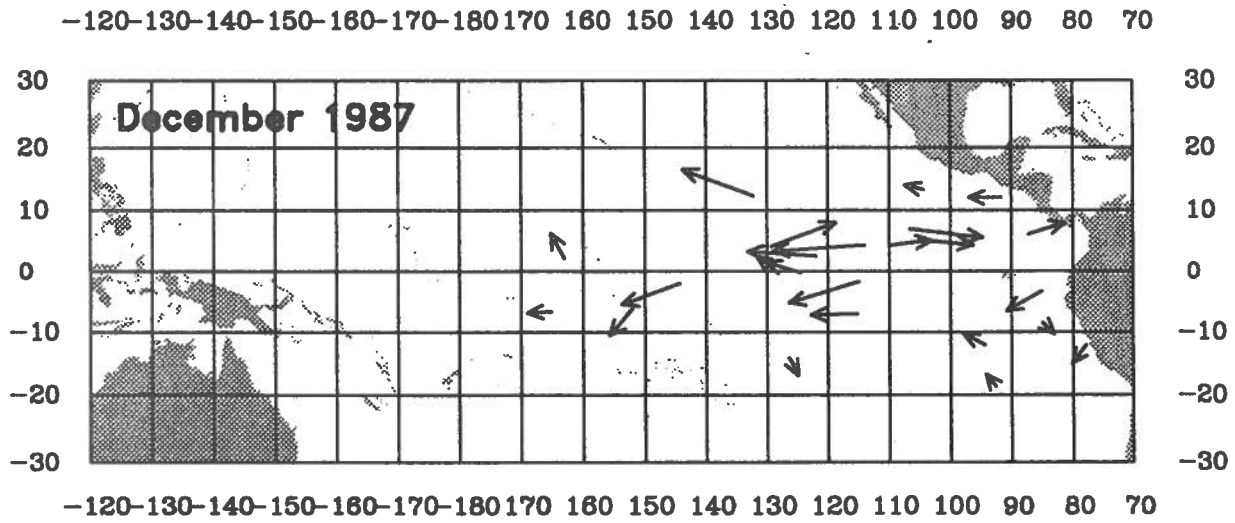
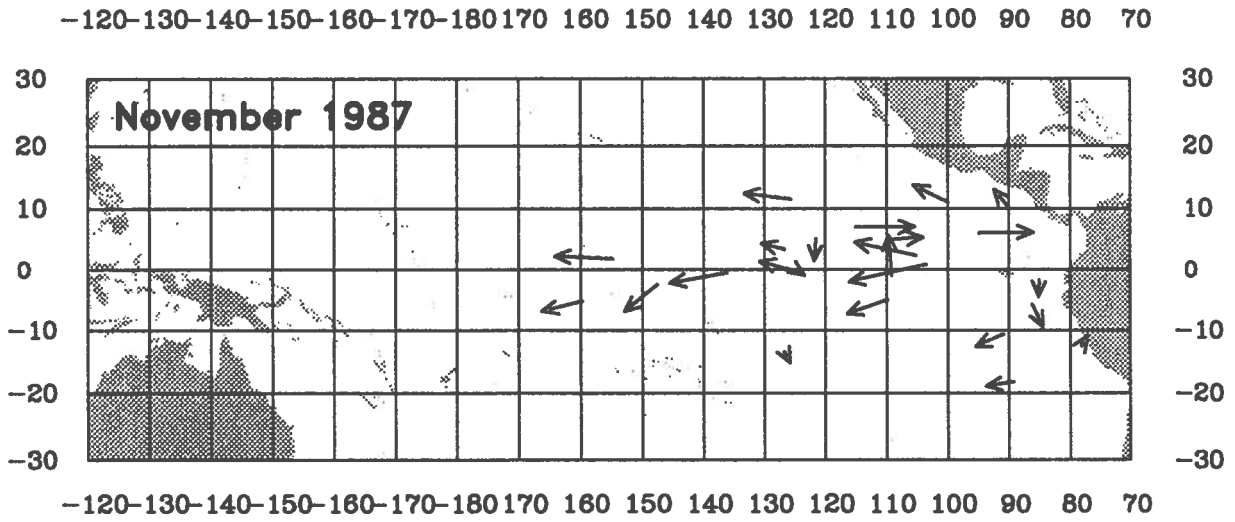
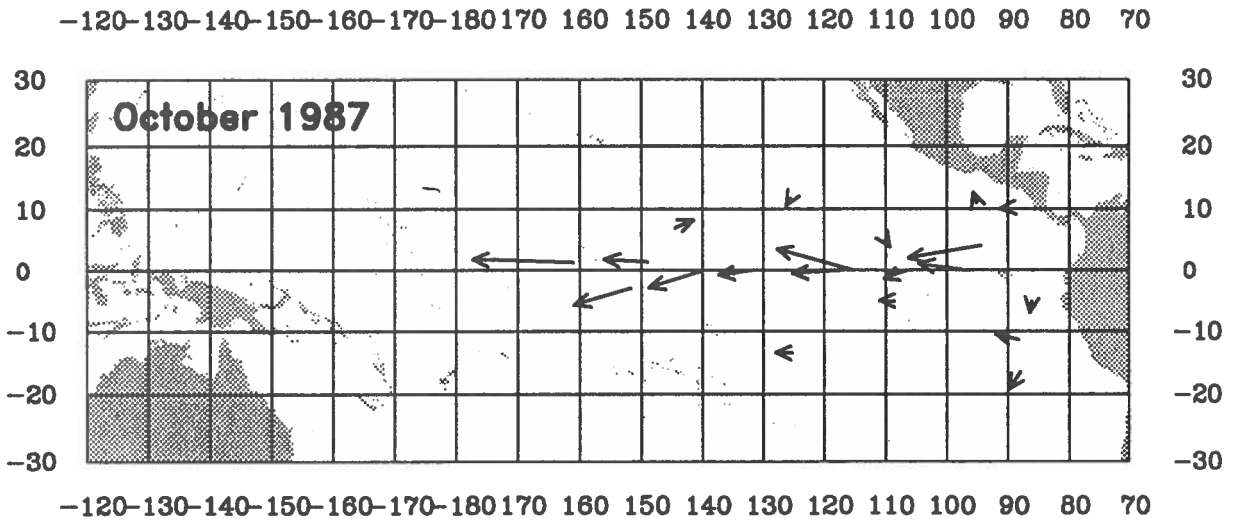
Figure 4



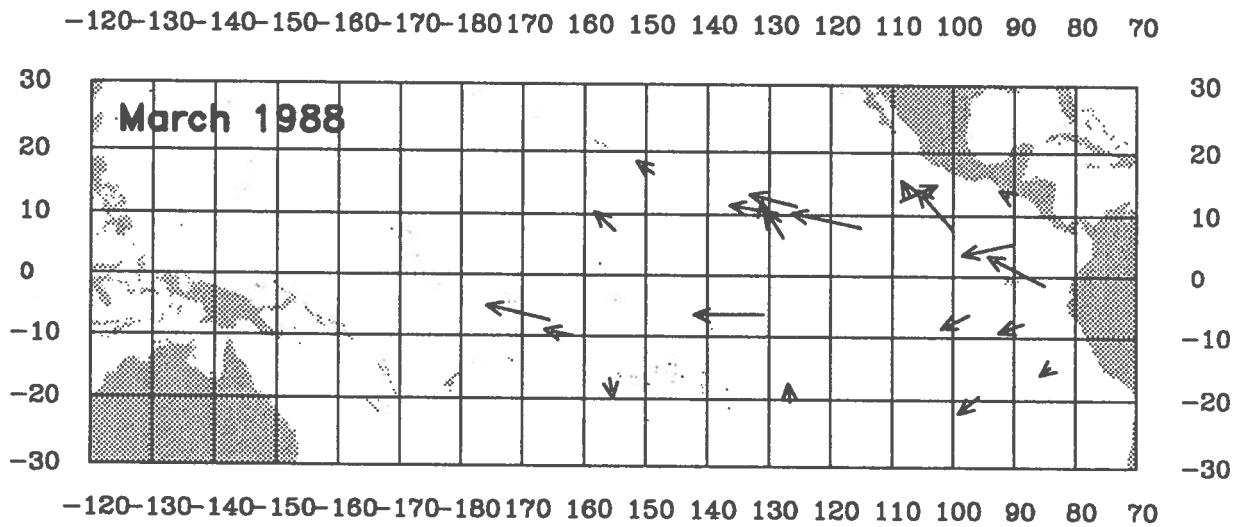
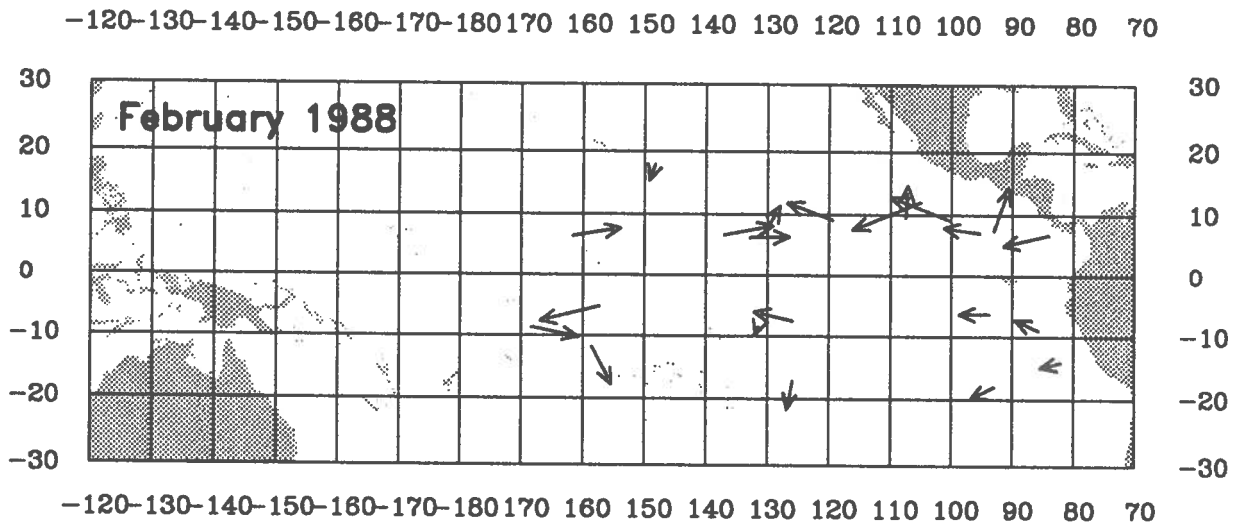
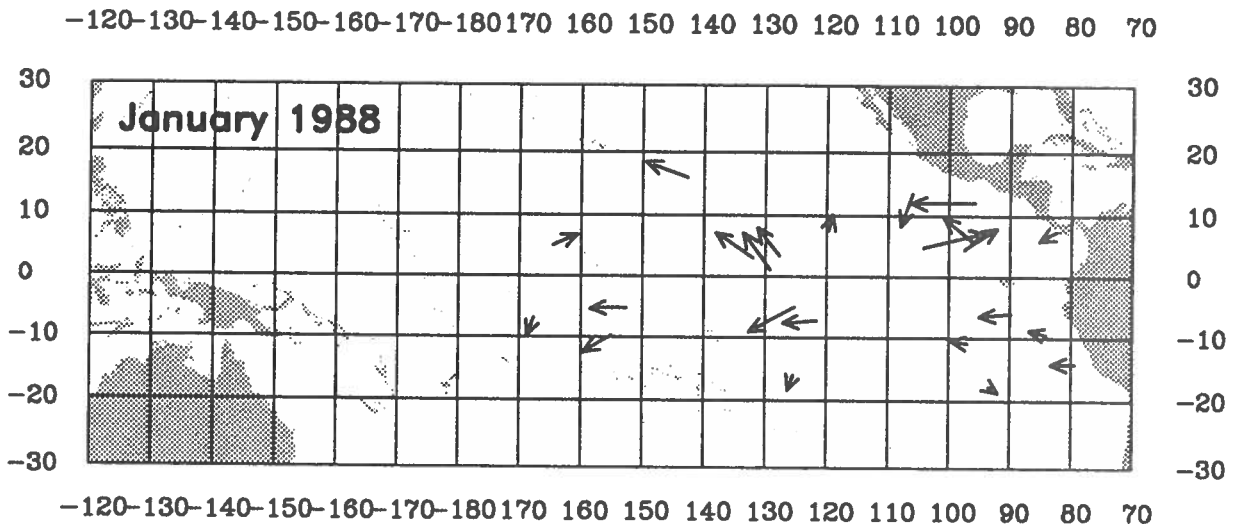
MONTHLY DISPLACEMENT OF BUOYS



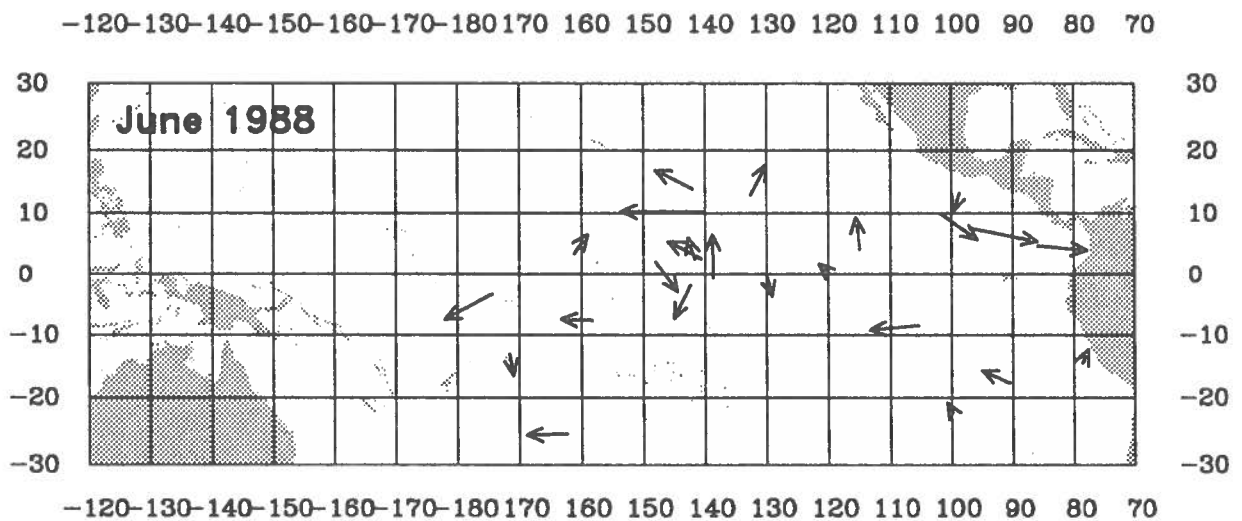
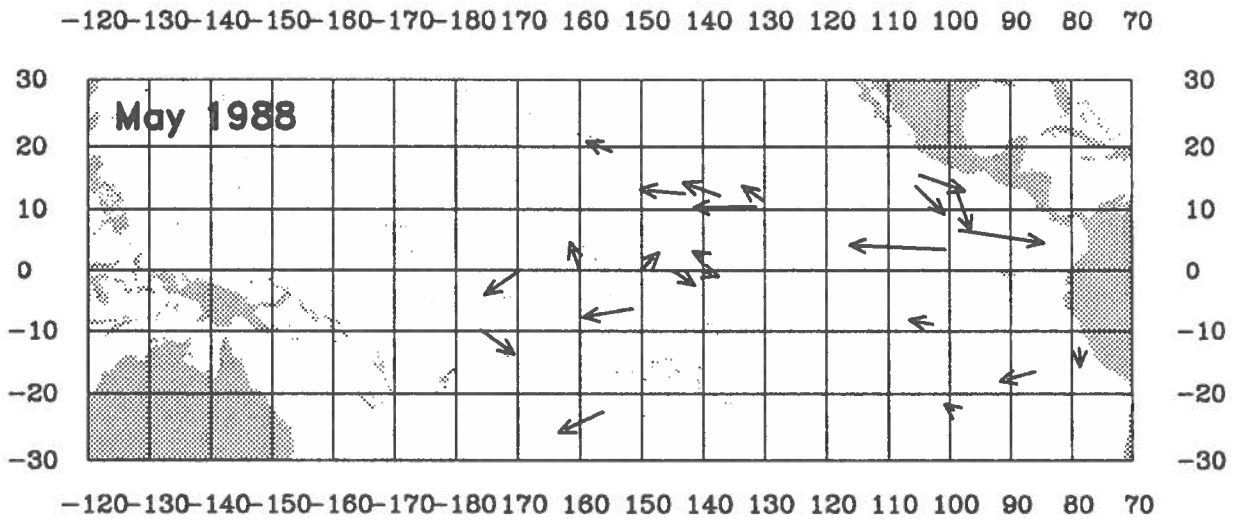
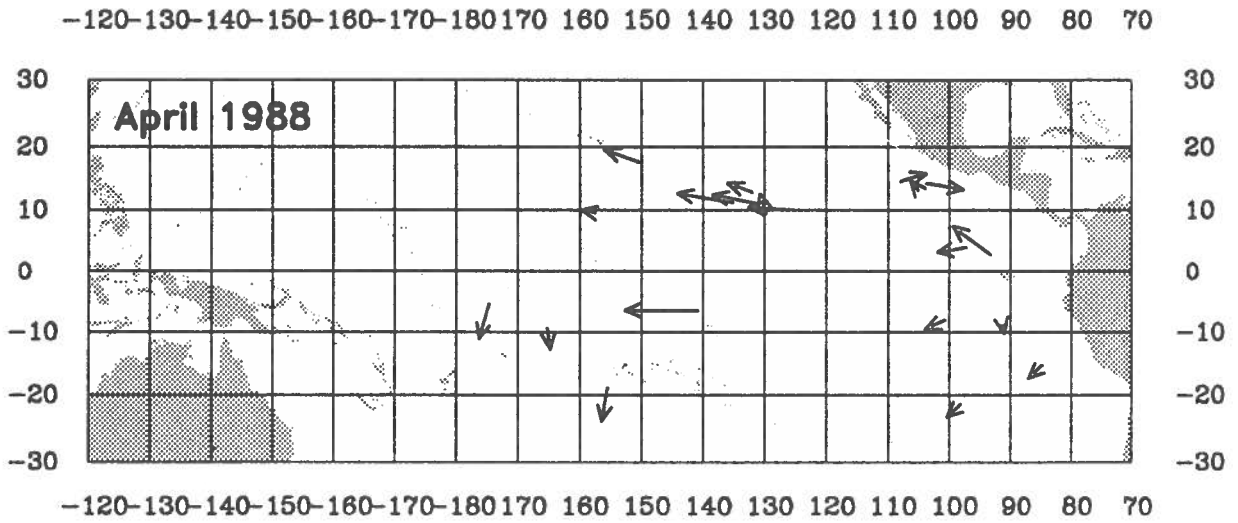
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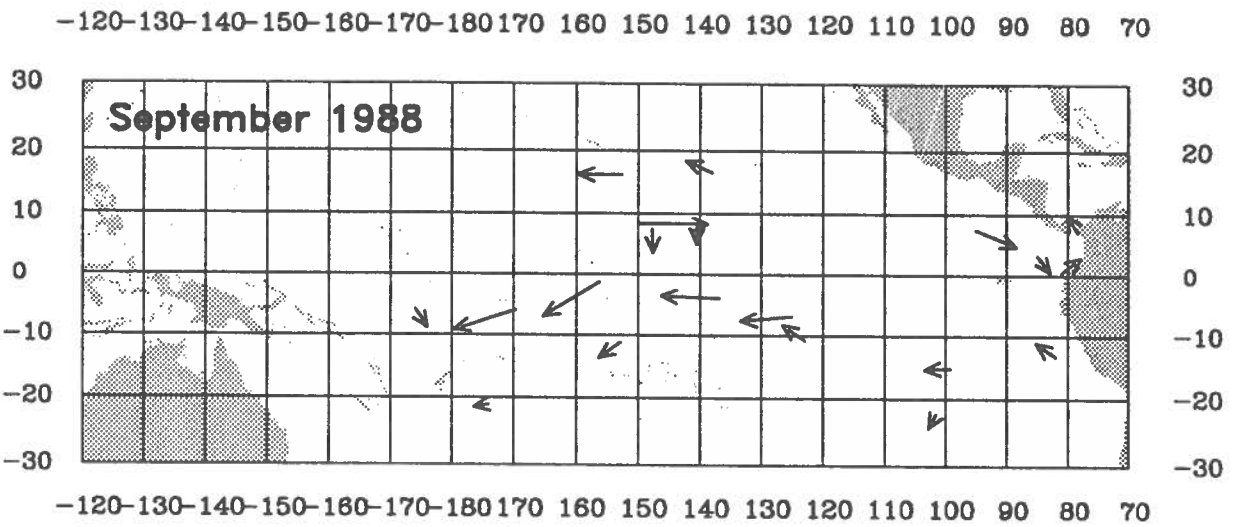
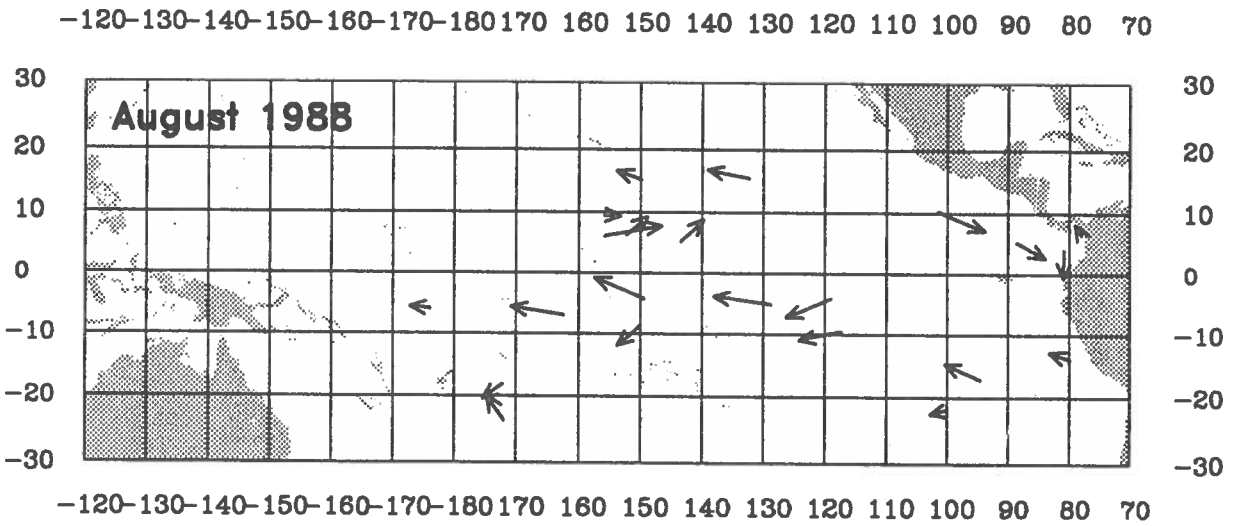
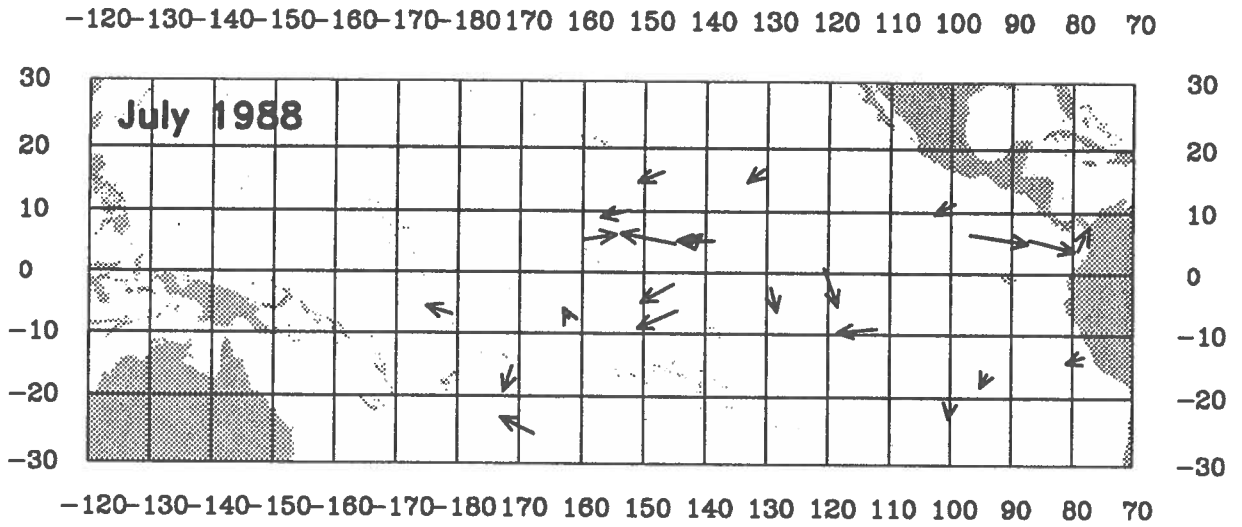
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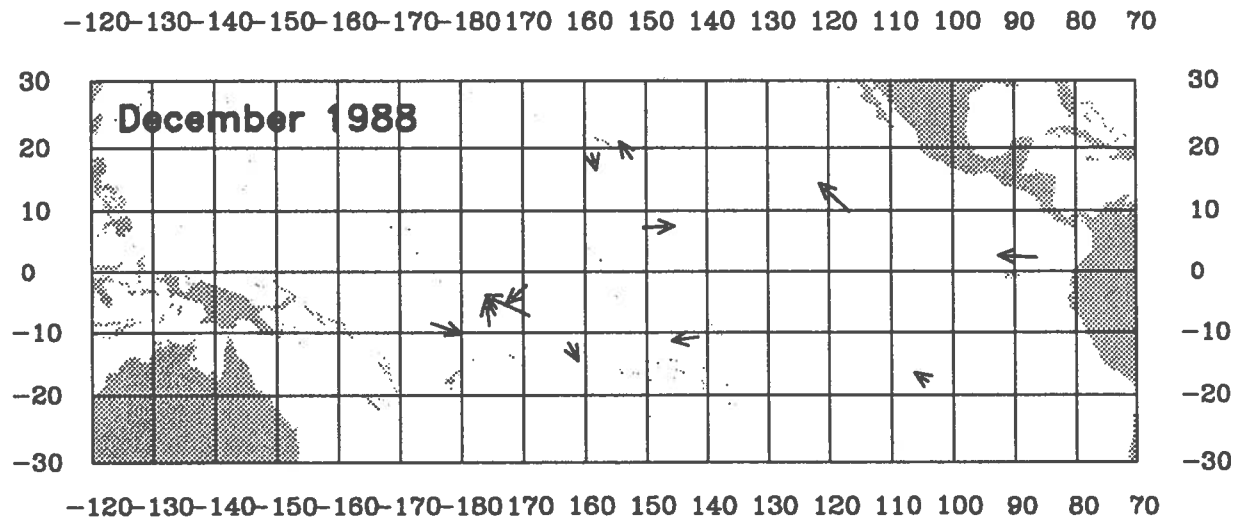
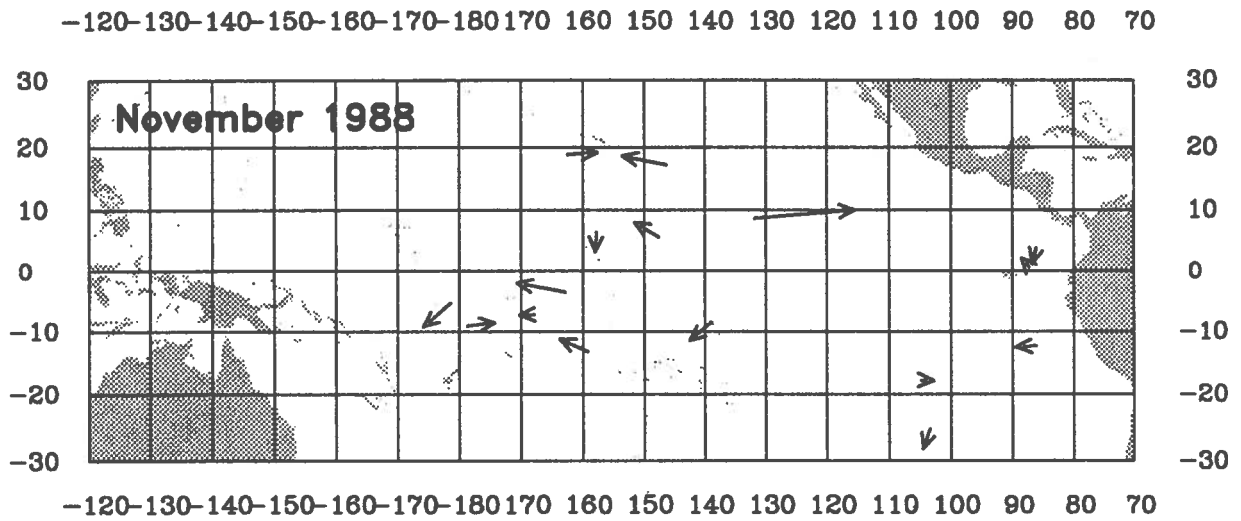
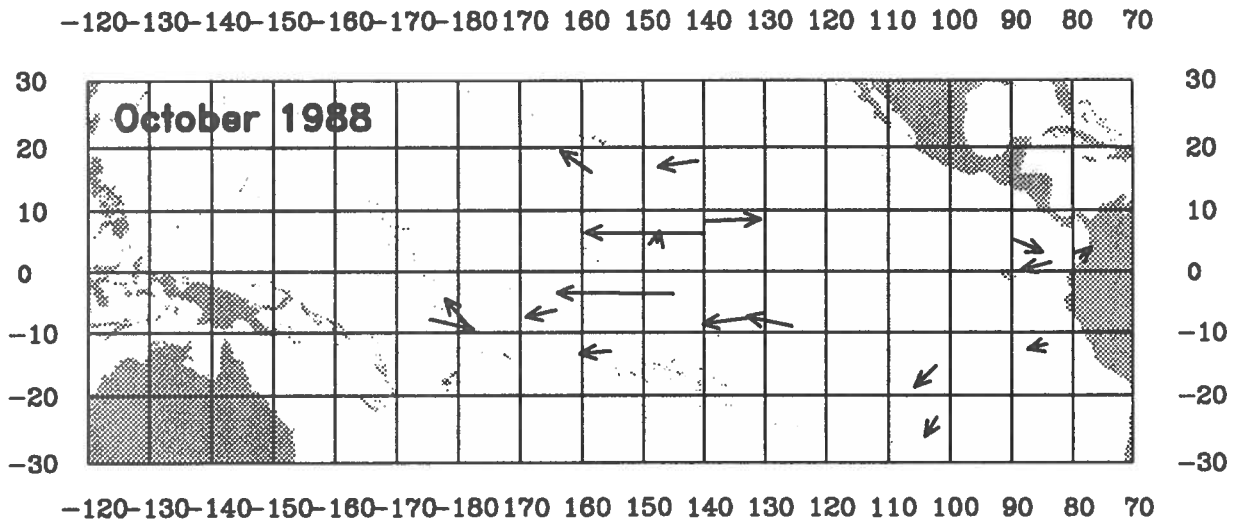
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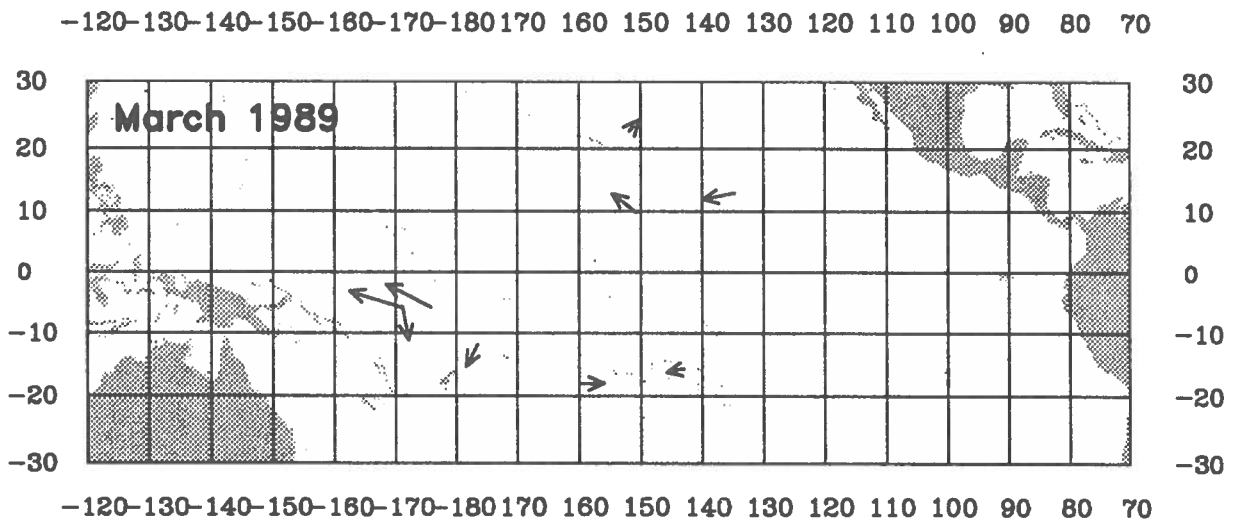
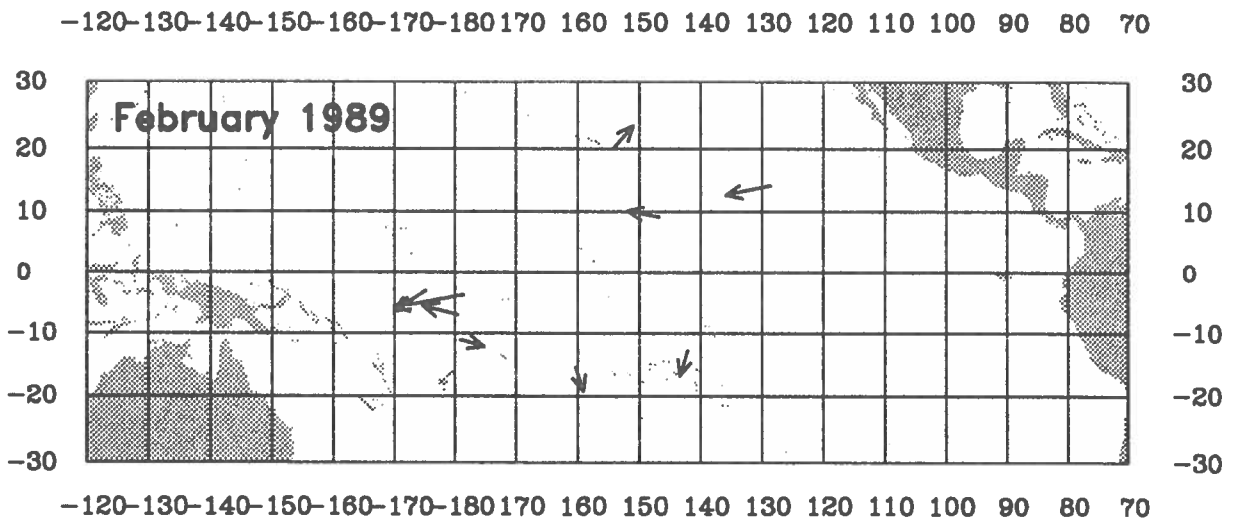
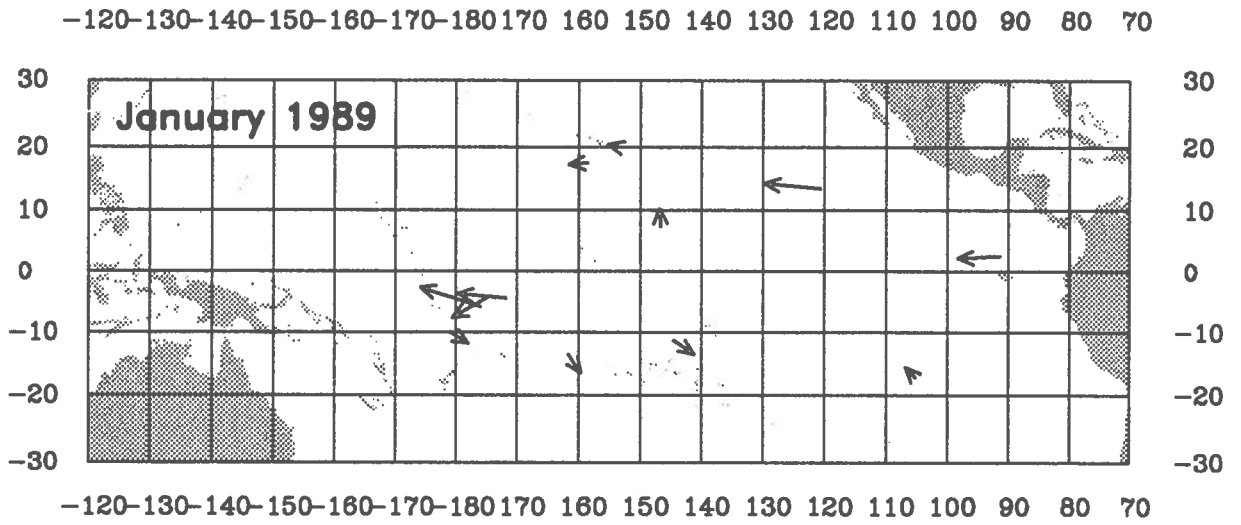
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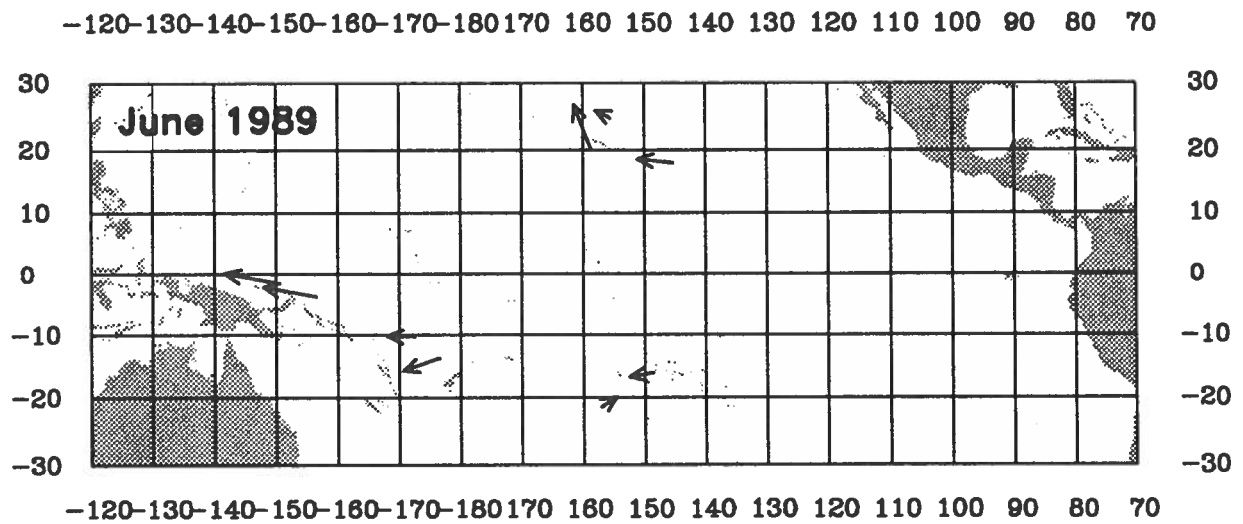
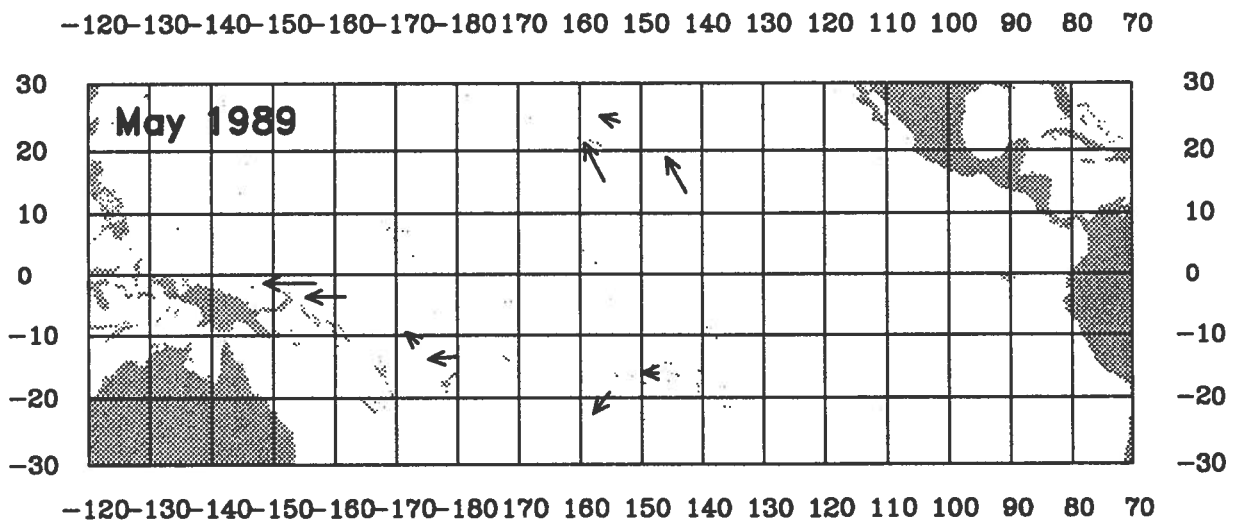
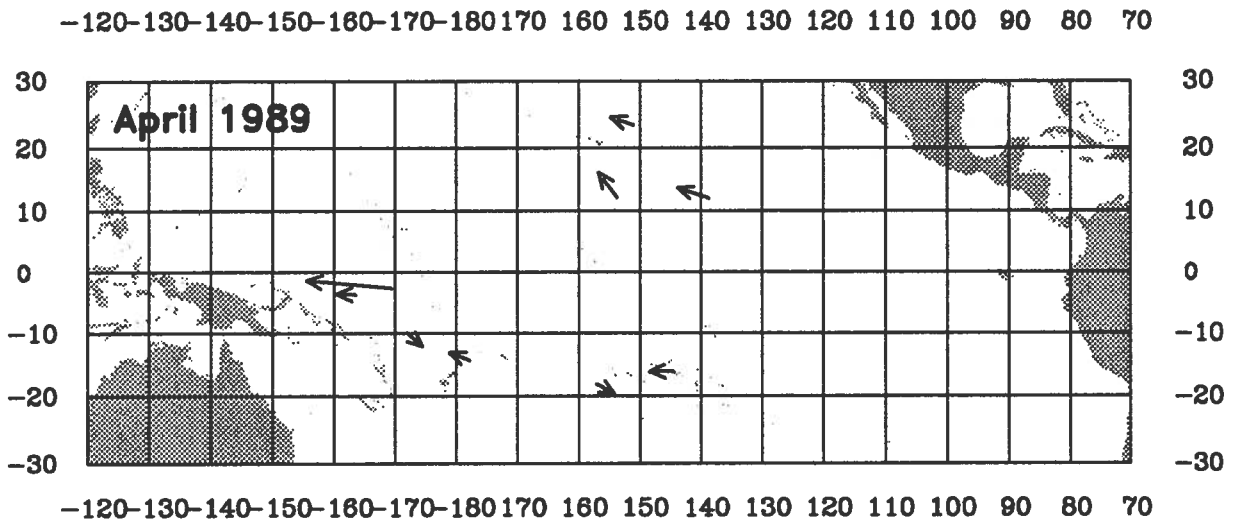
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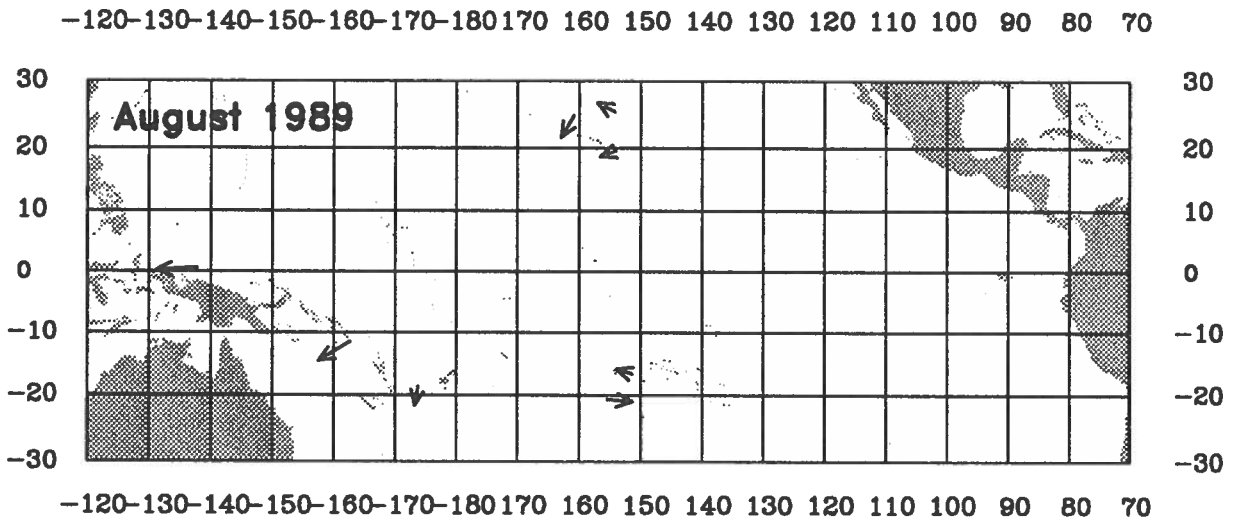
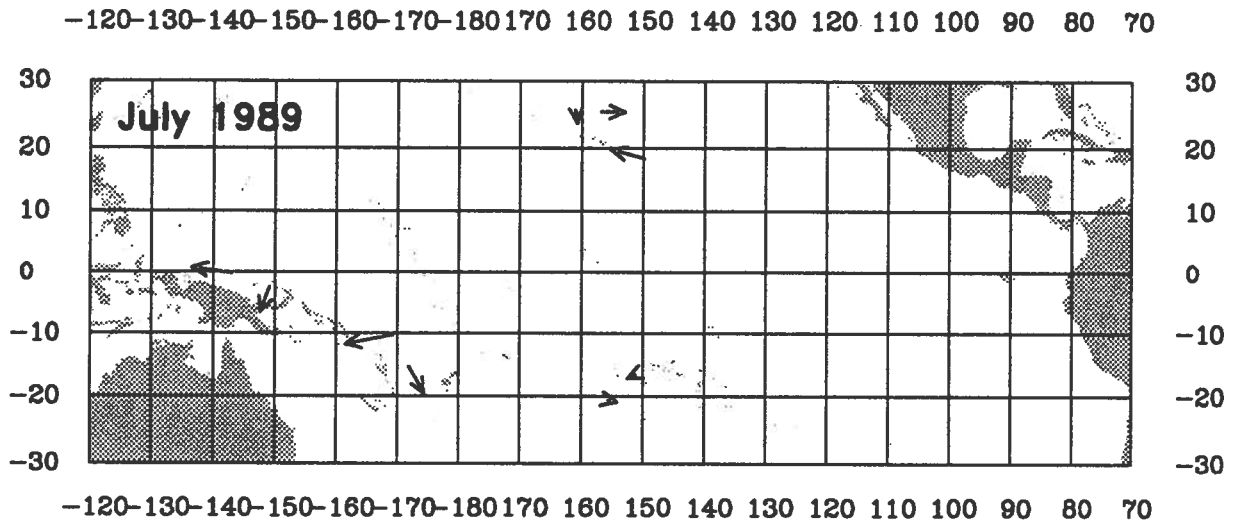
MONTHLY DISPLACEMENT OF BUOYS



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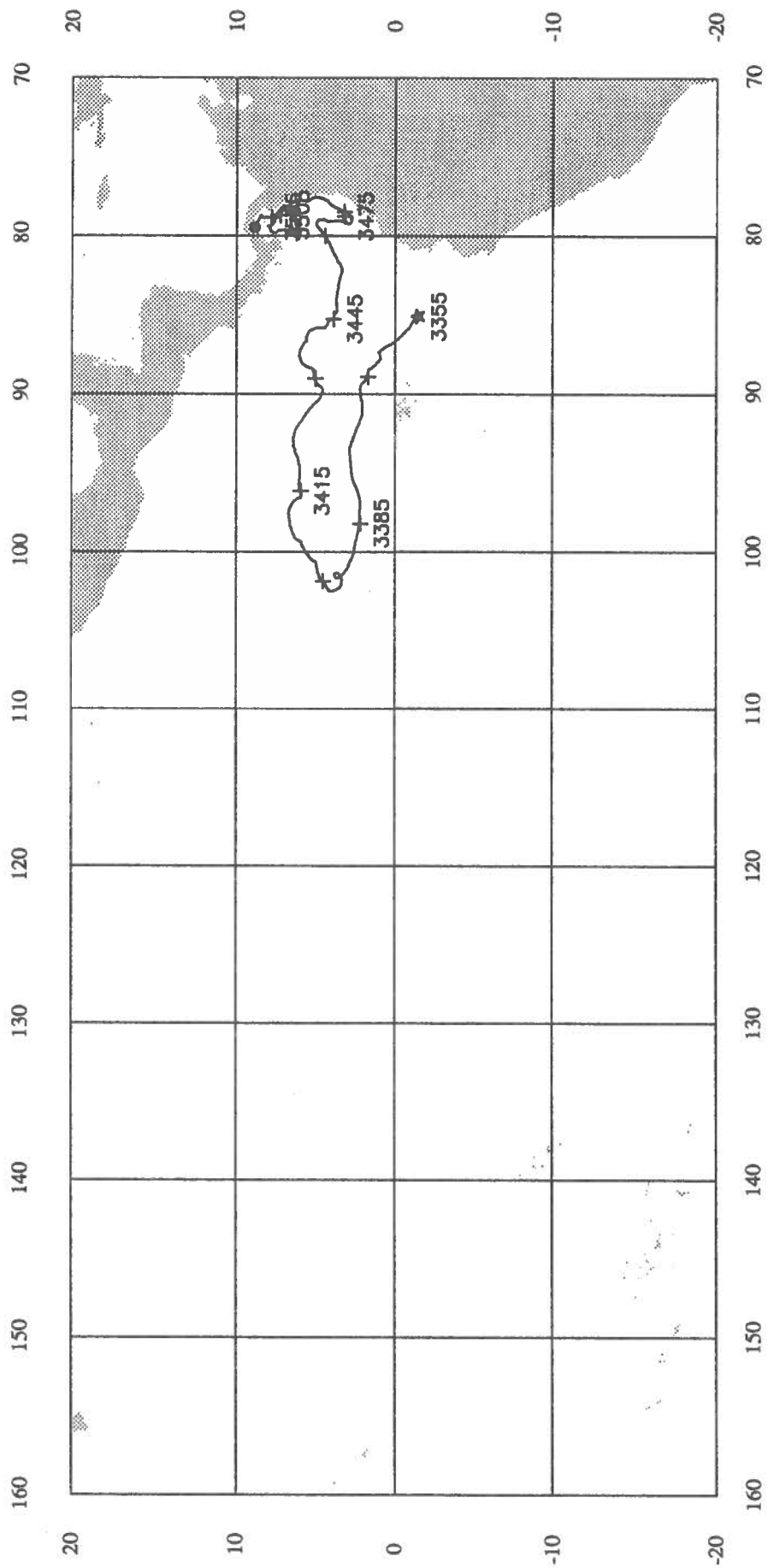


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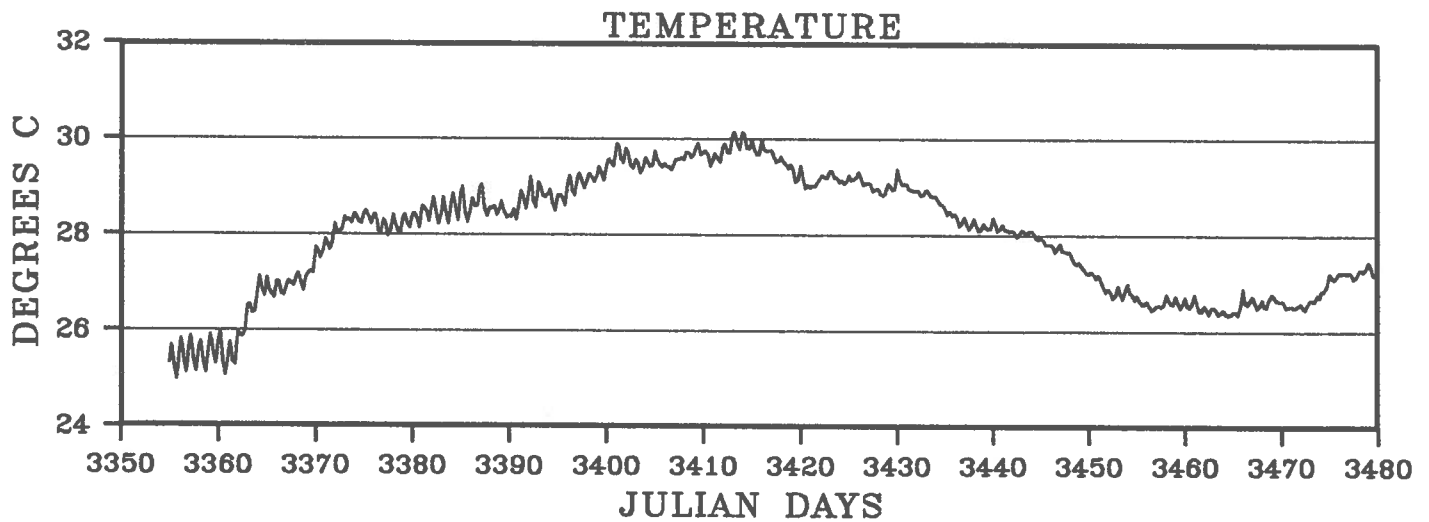
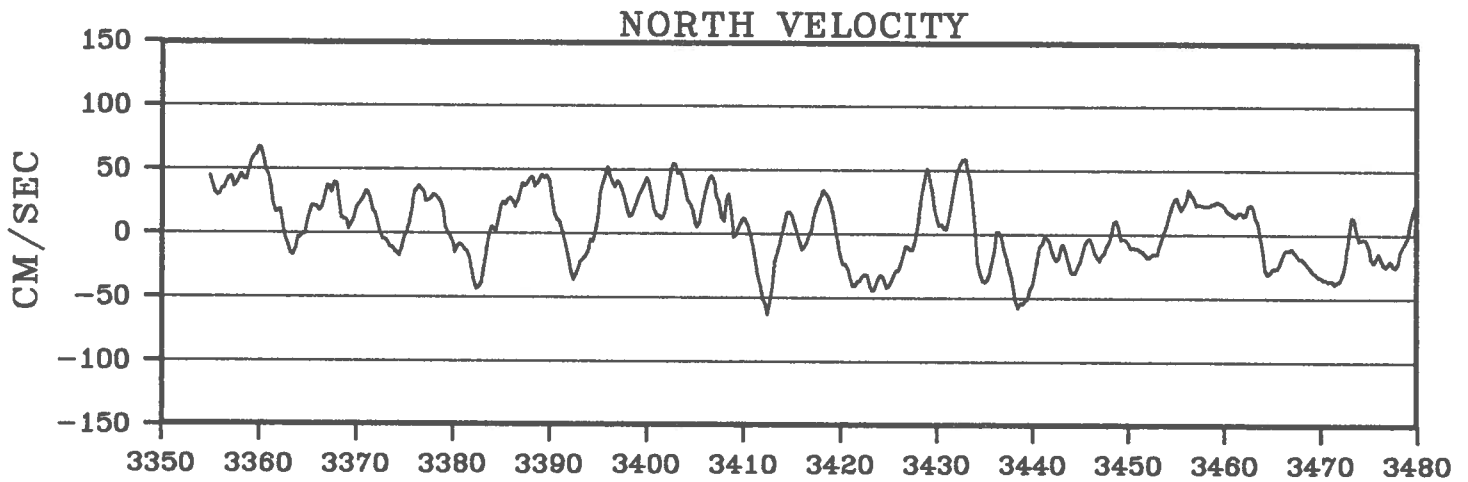
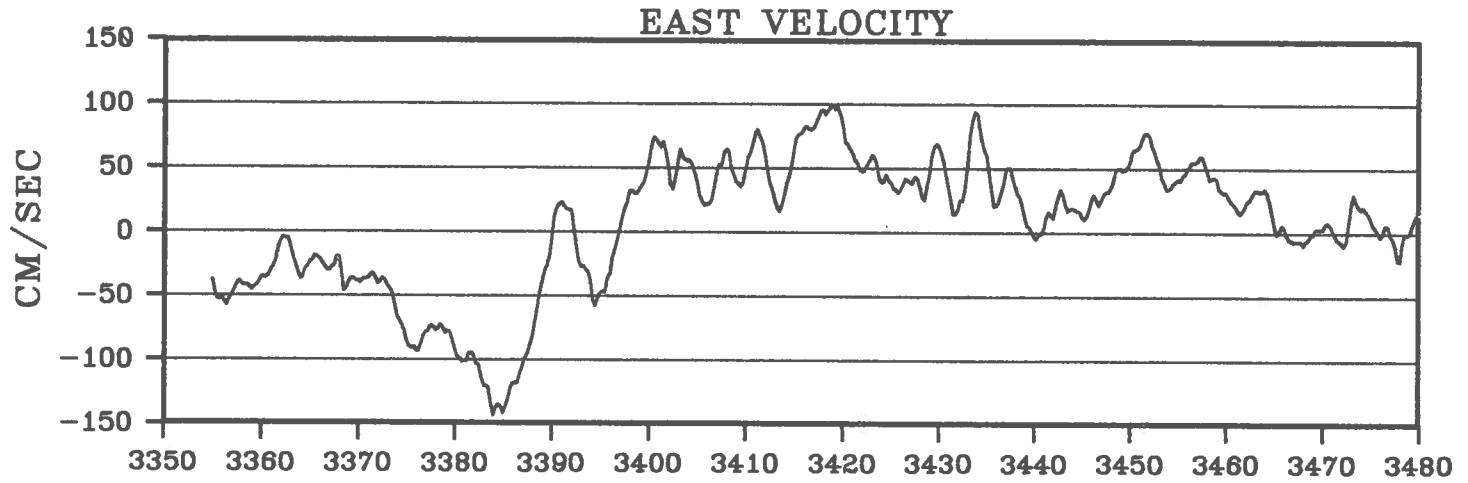


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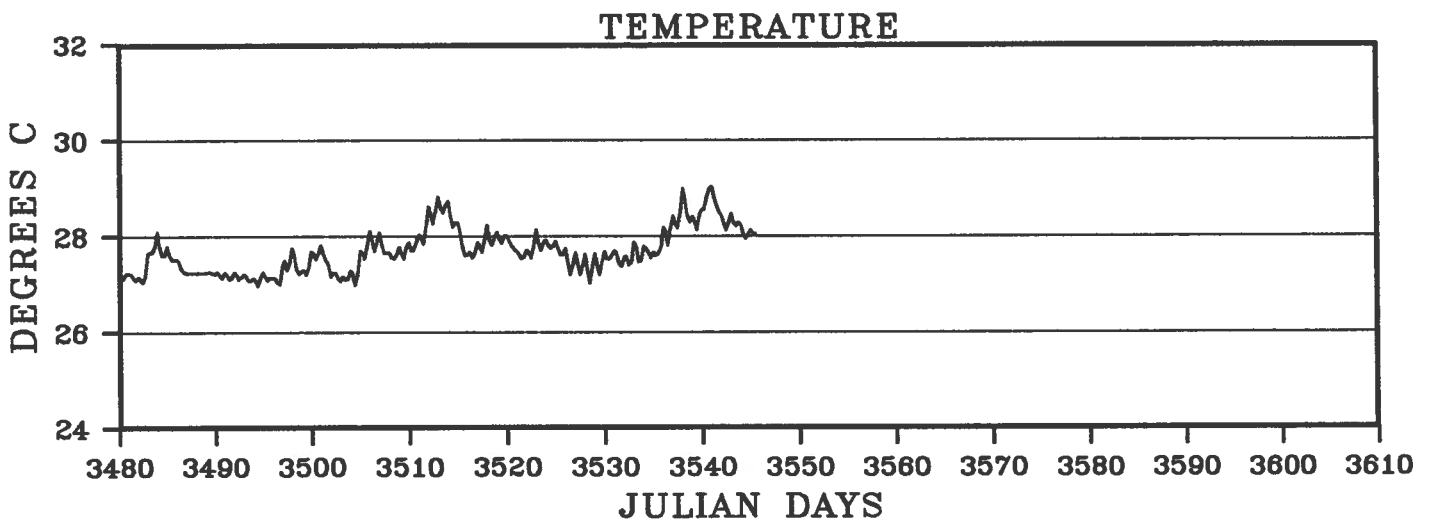
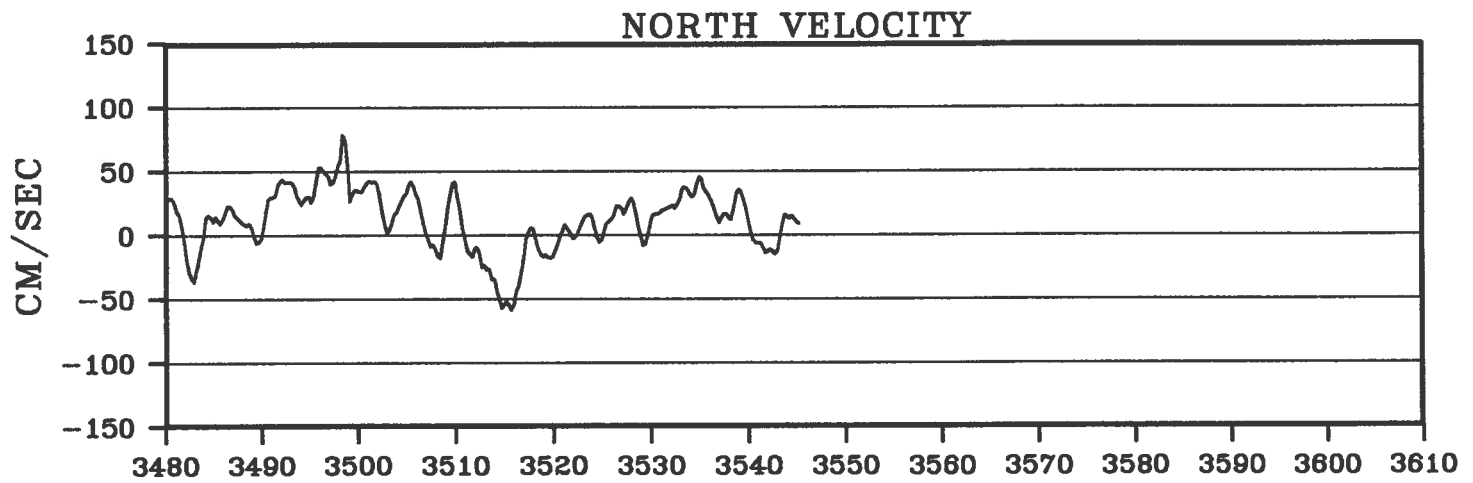
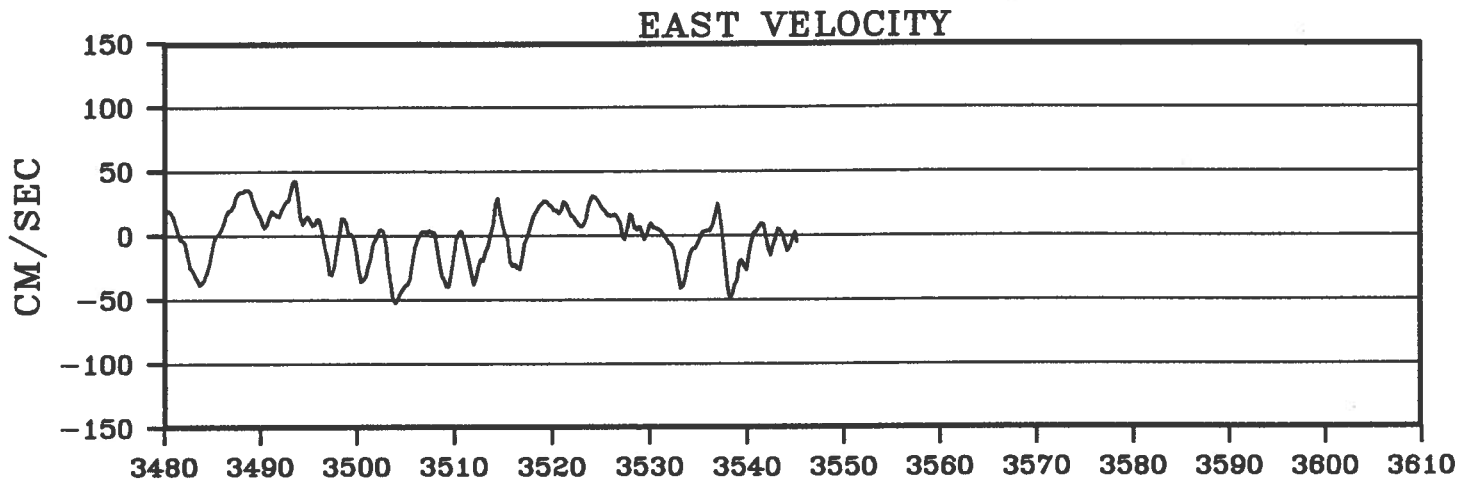
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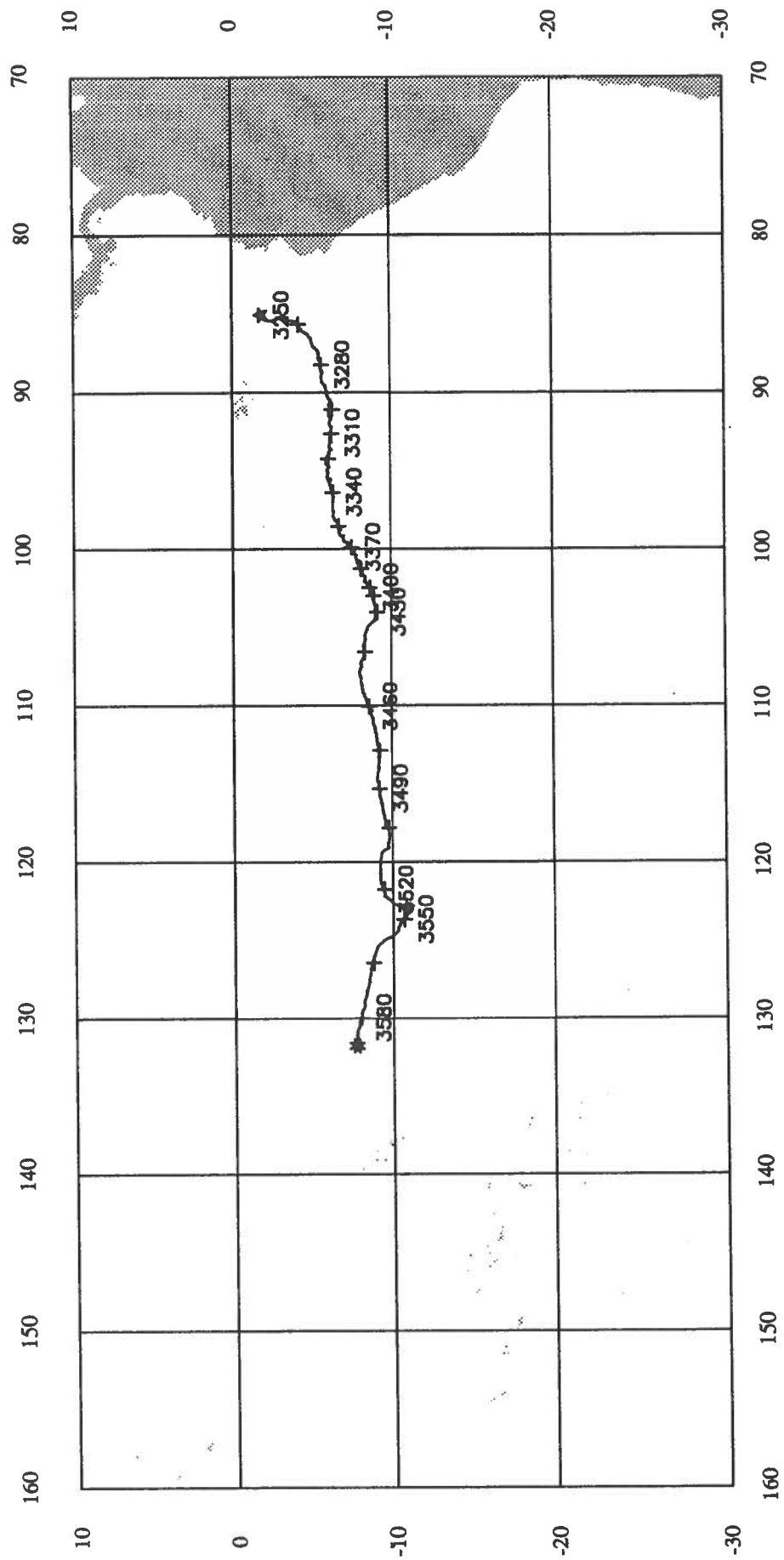
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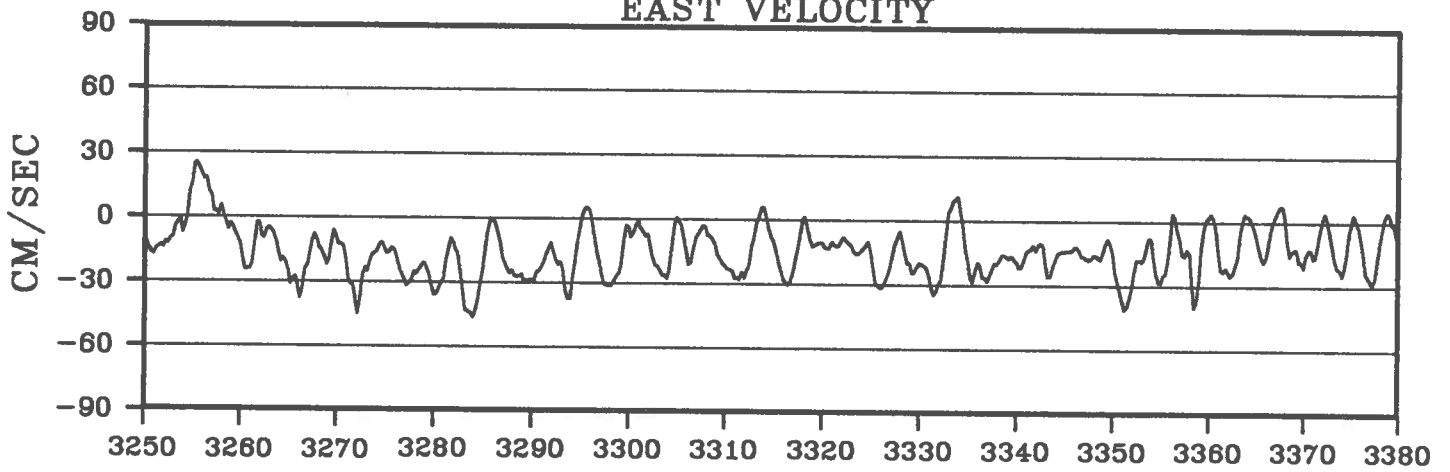


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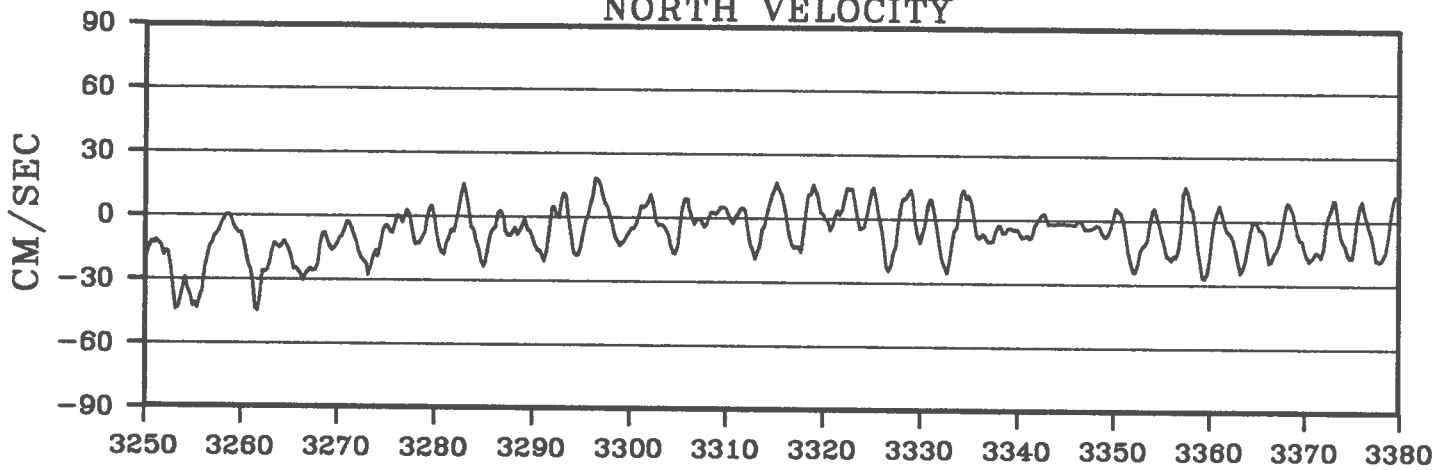


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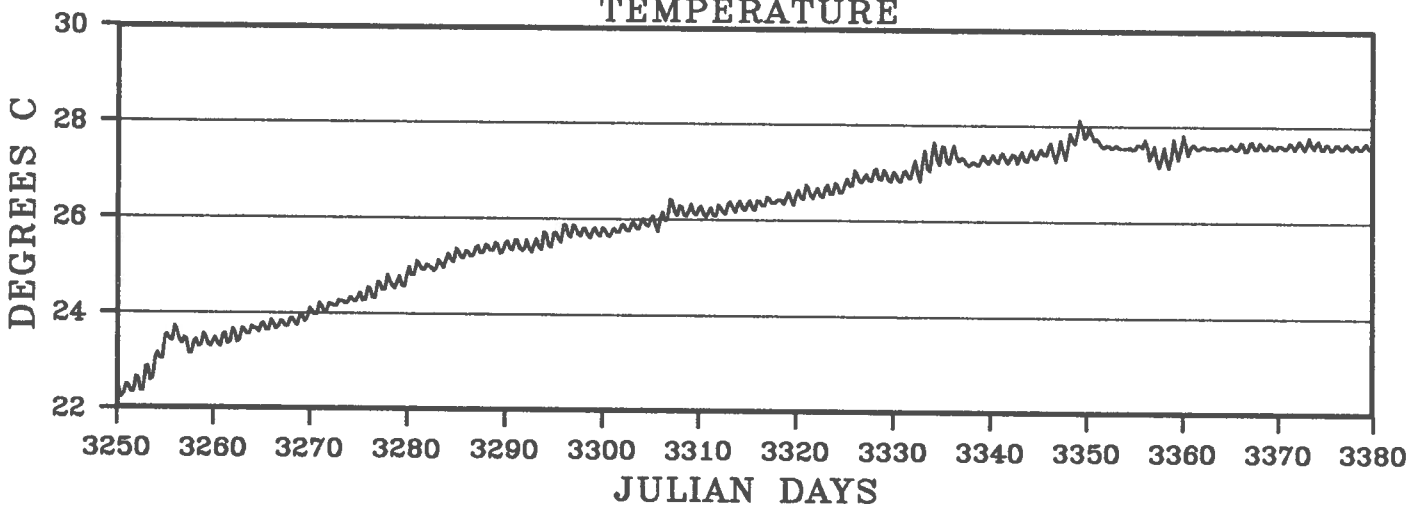
EAST VELOCITY



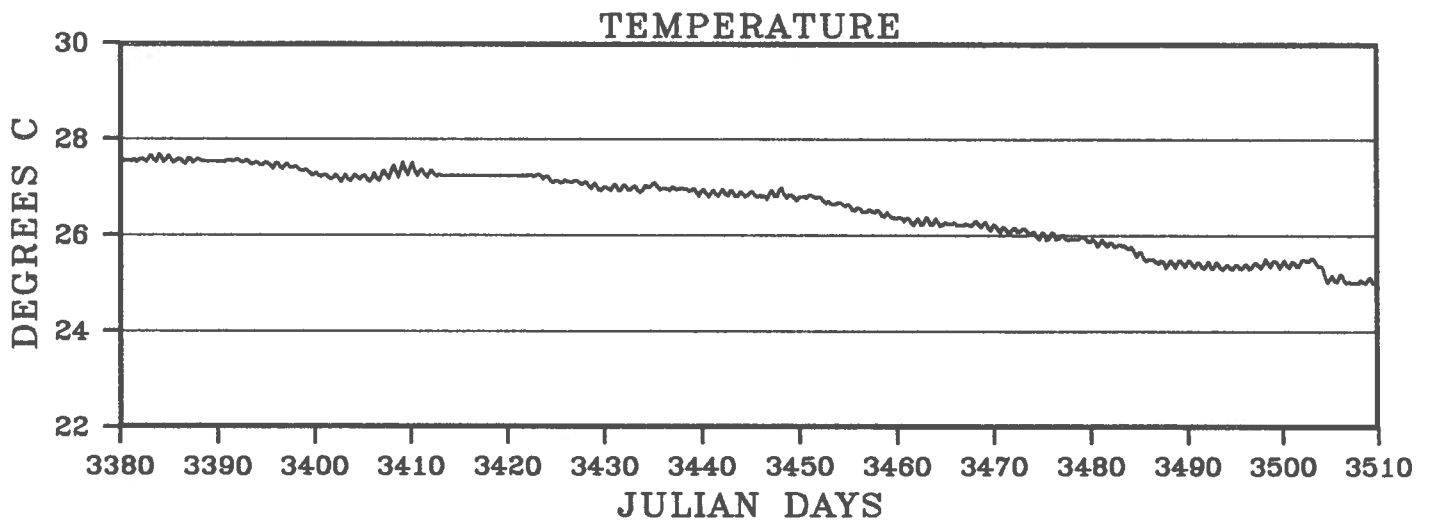
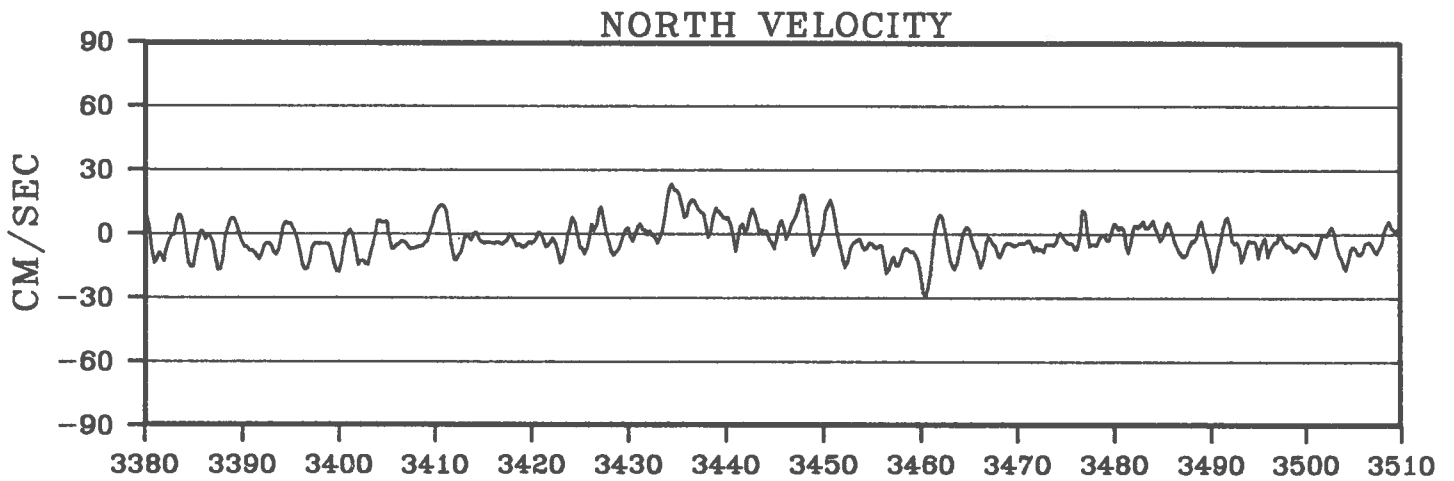
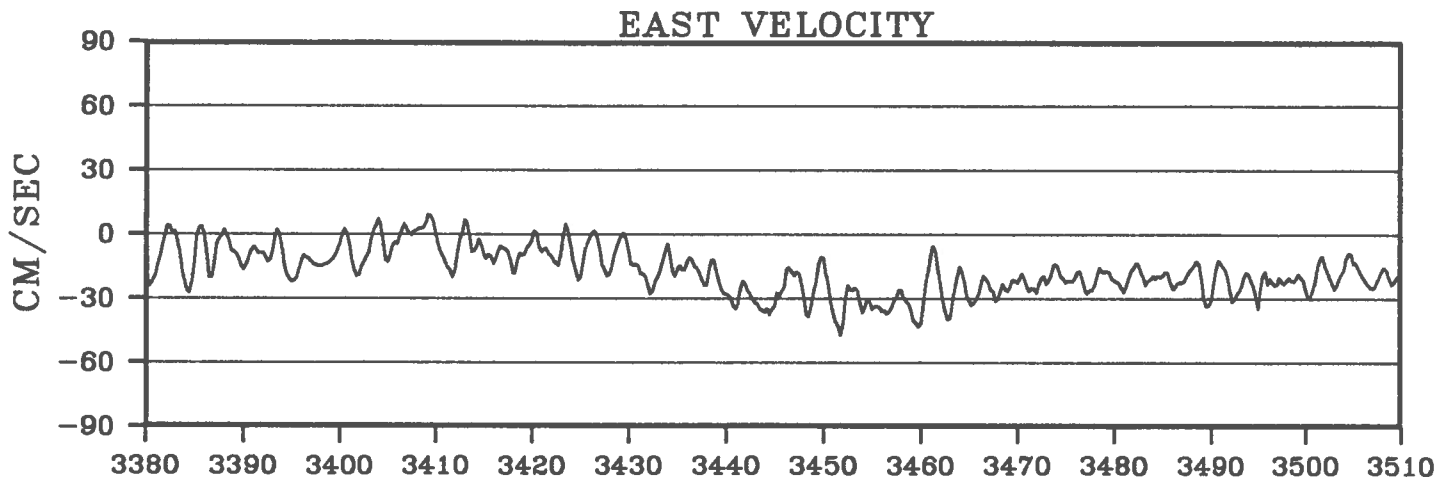
NORTH VELOCITY



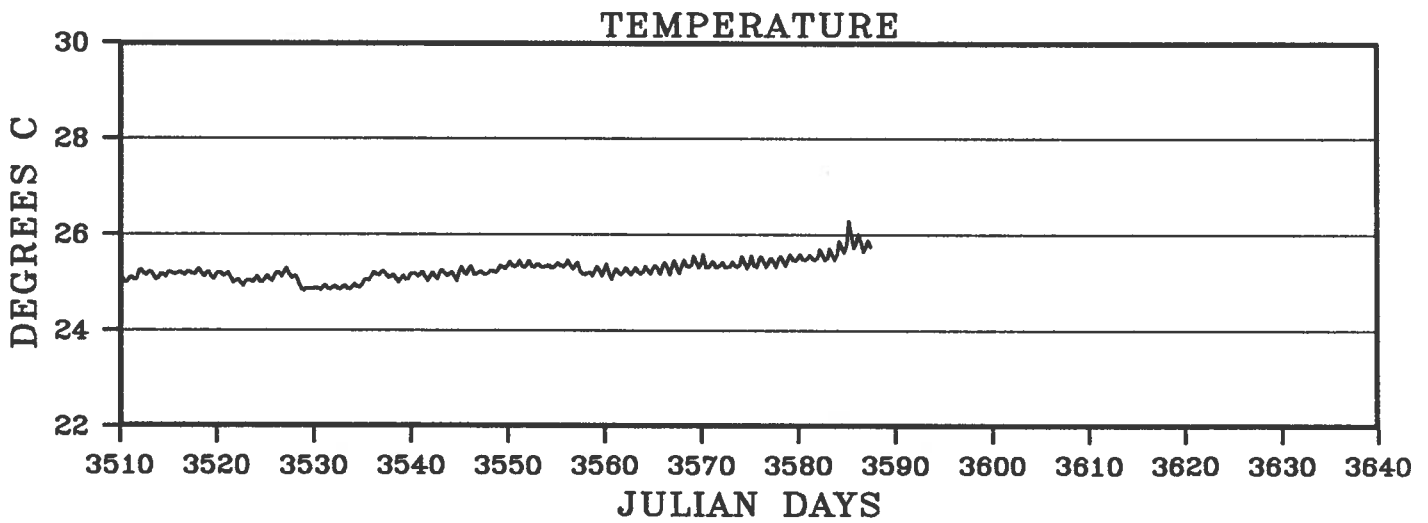
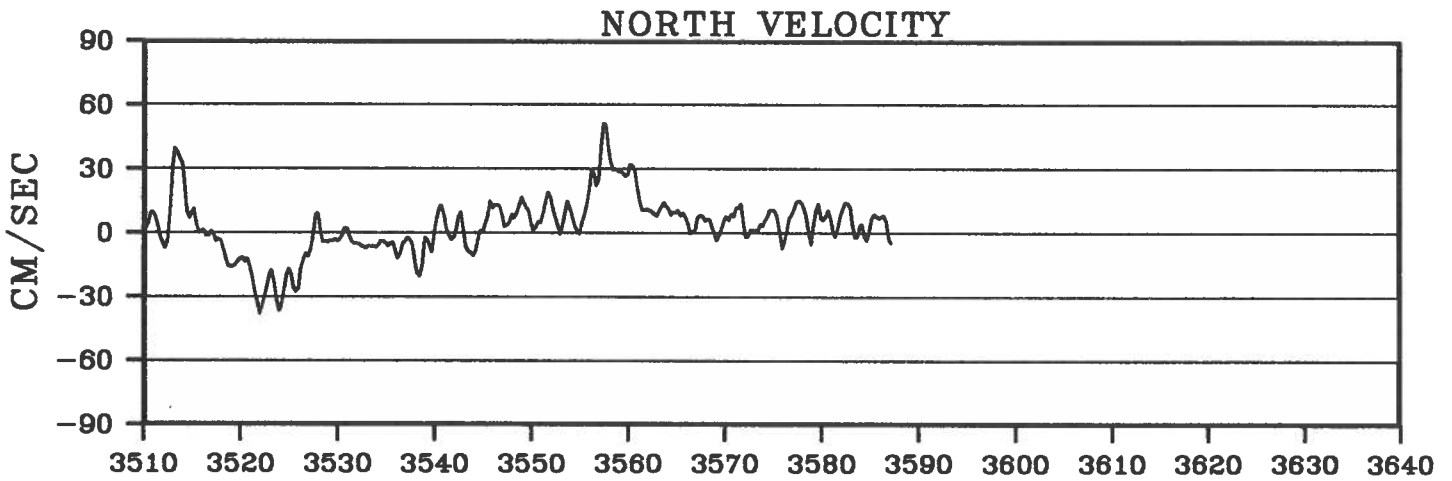
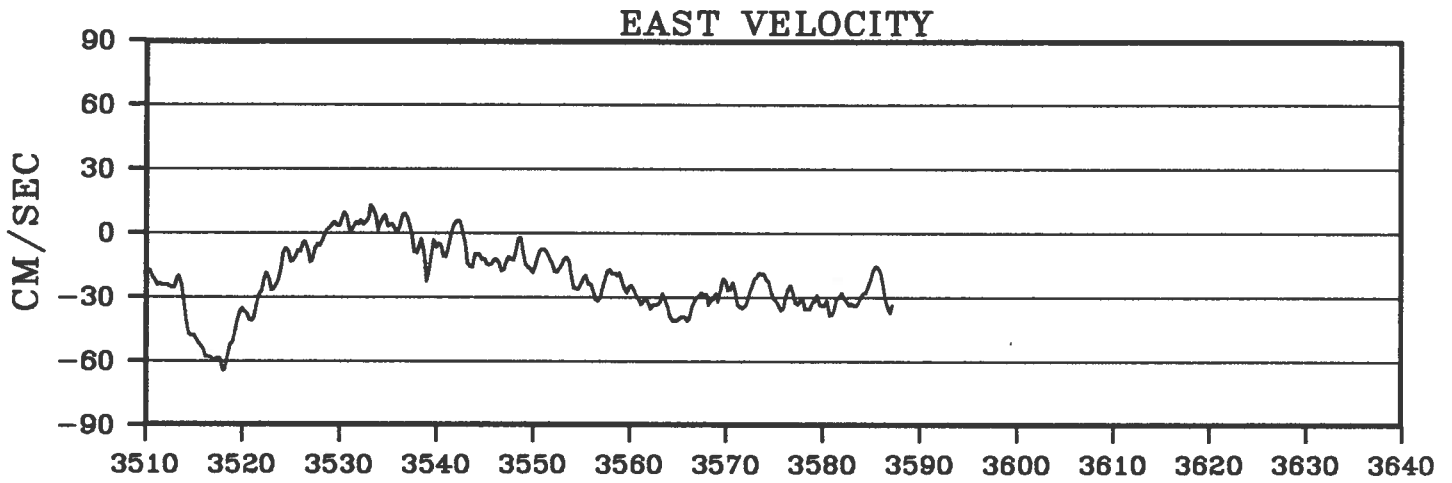
TEMPERATURE



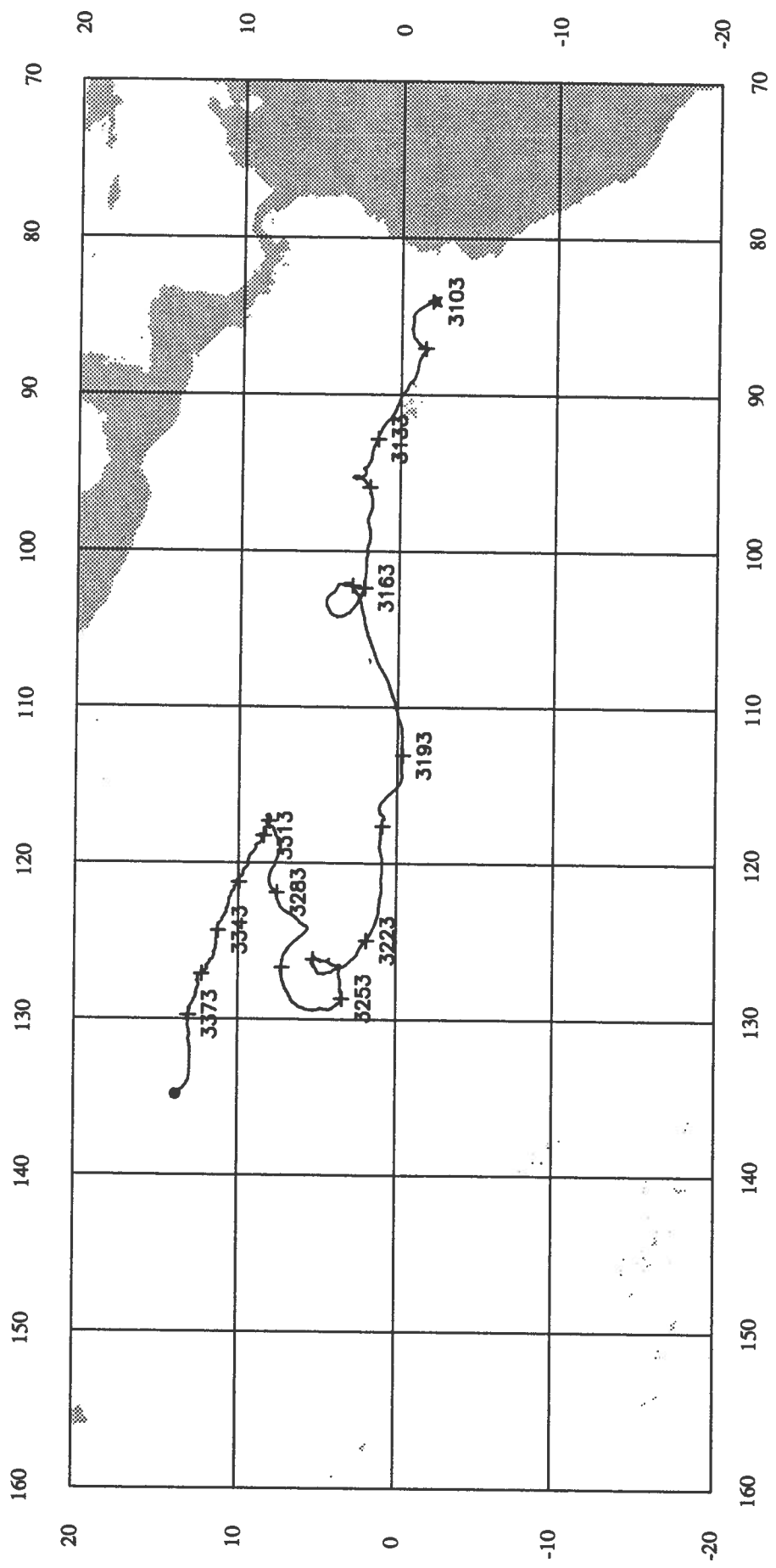
BUOY 2987



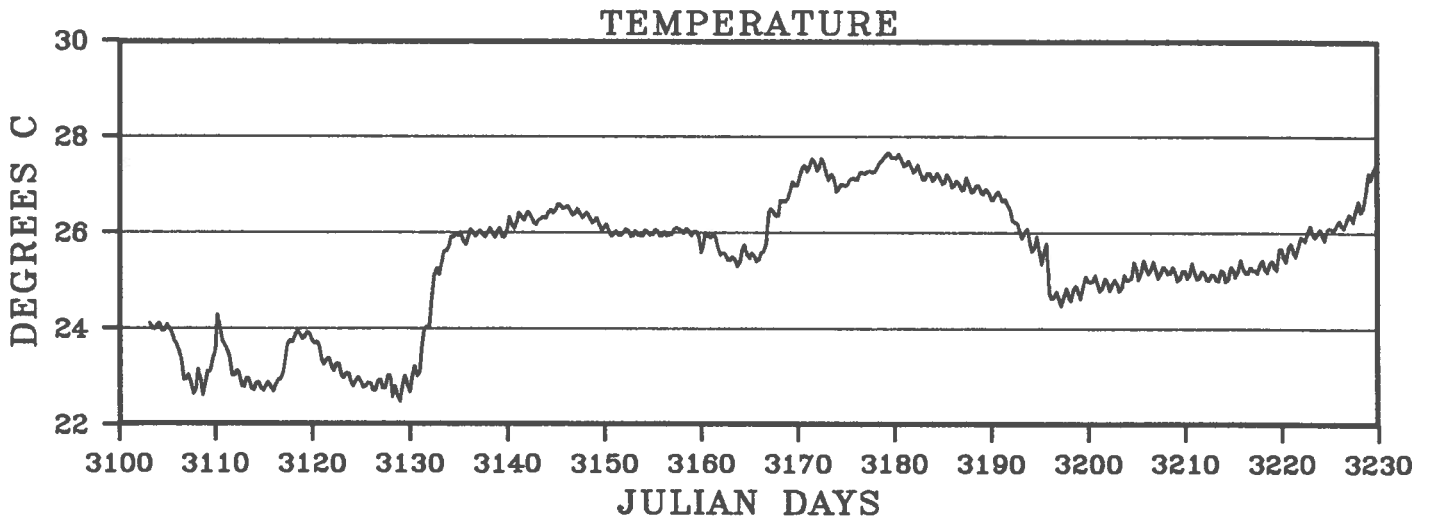
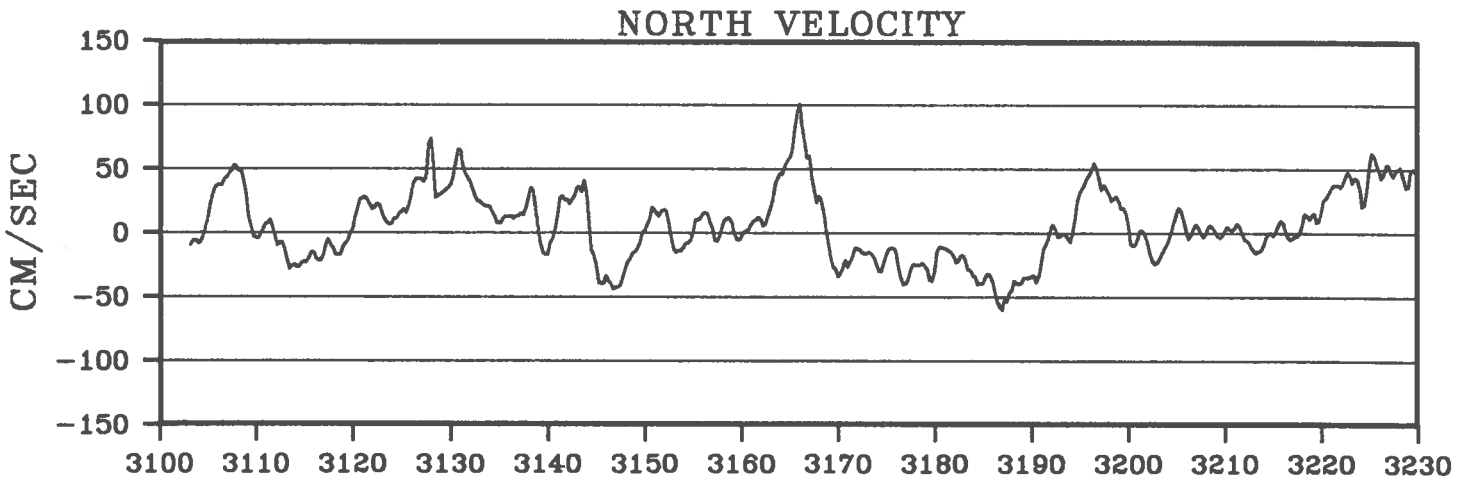
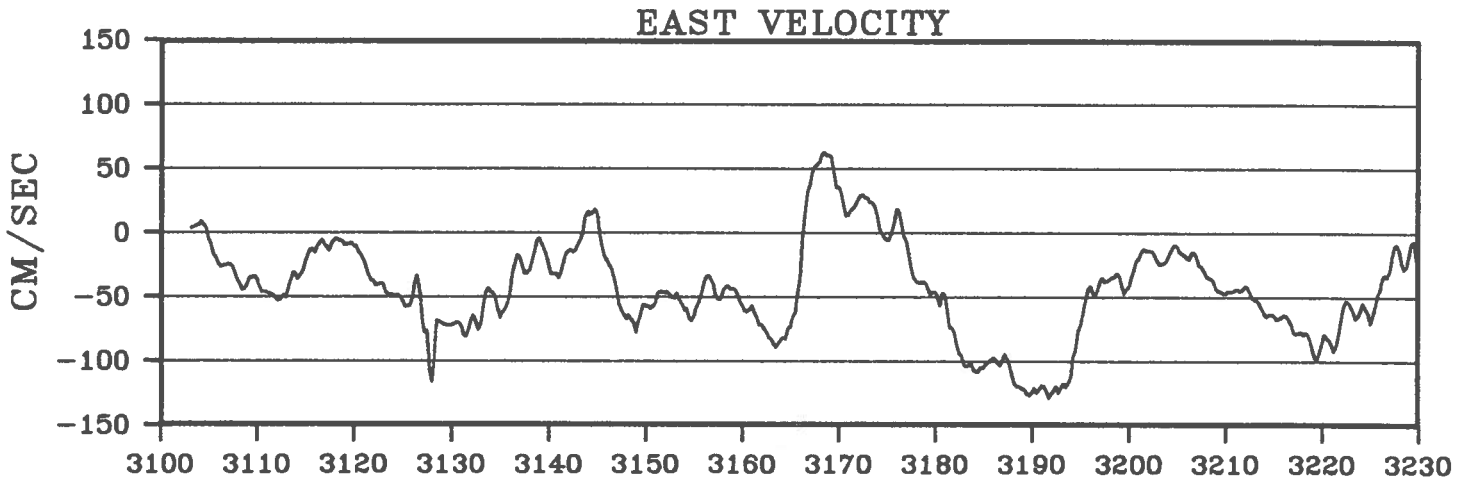
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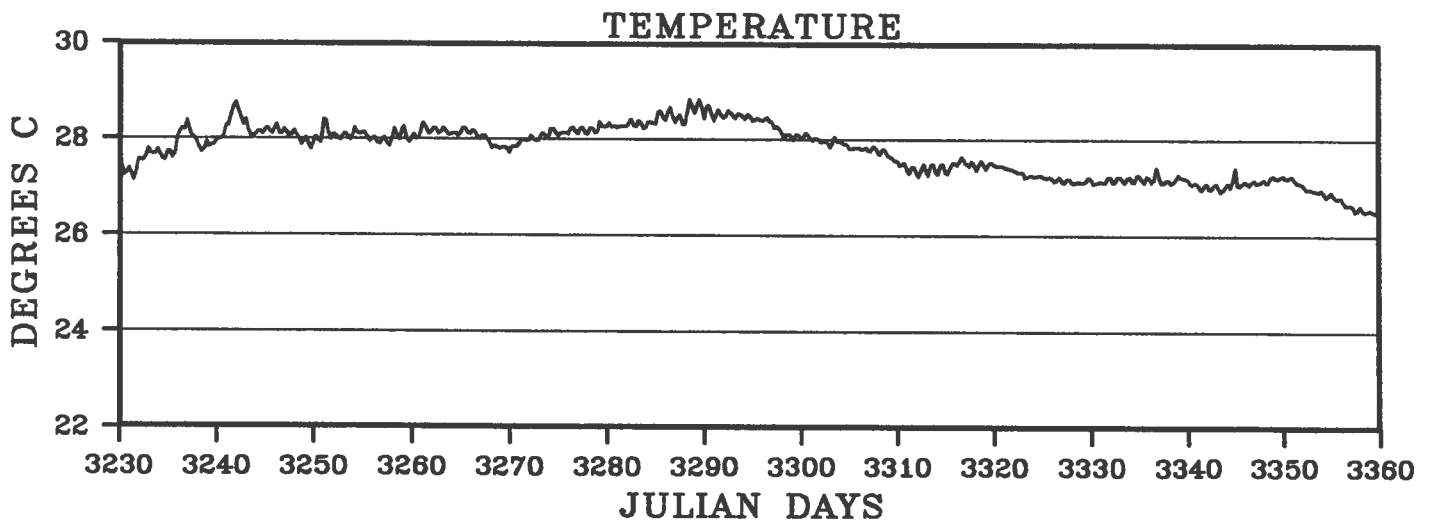
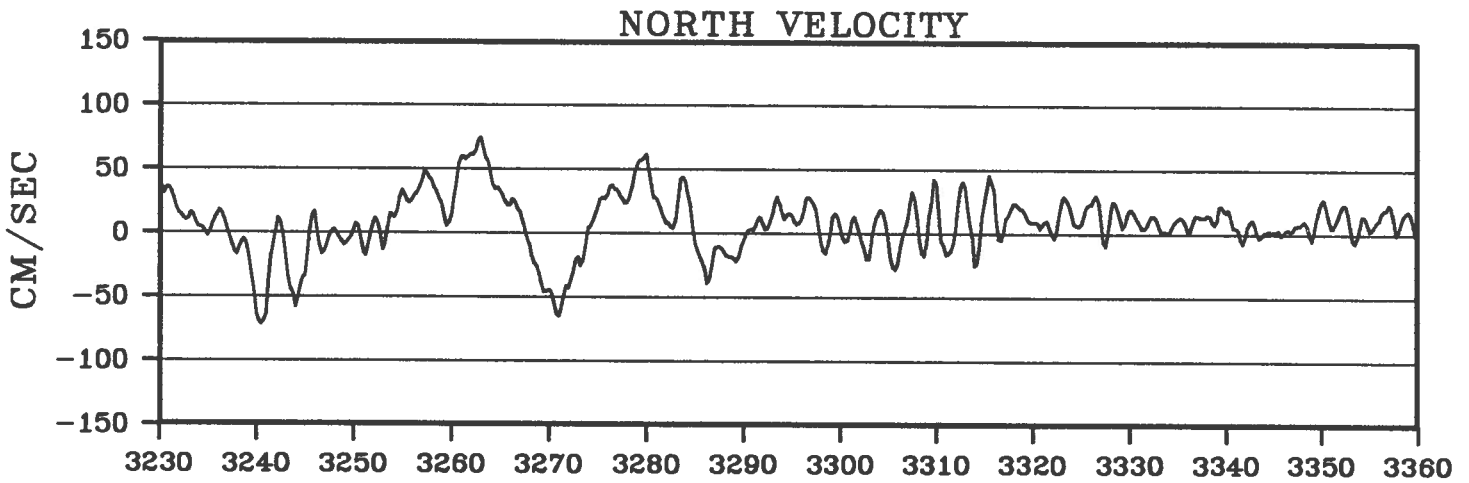
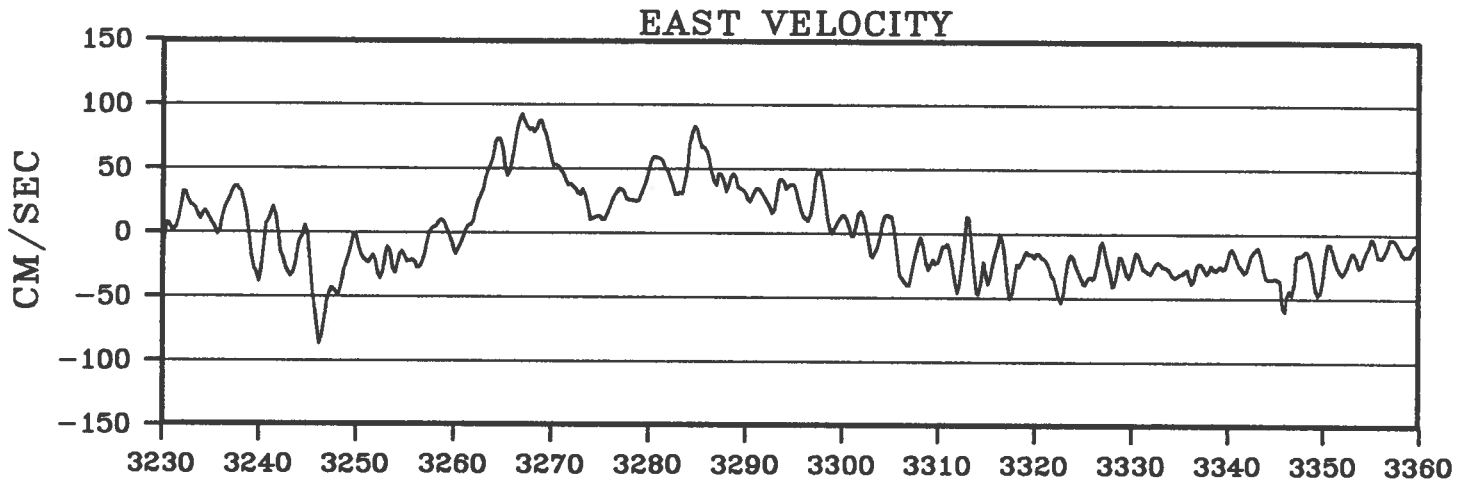
BUOY 2988



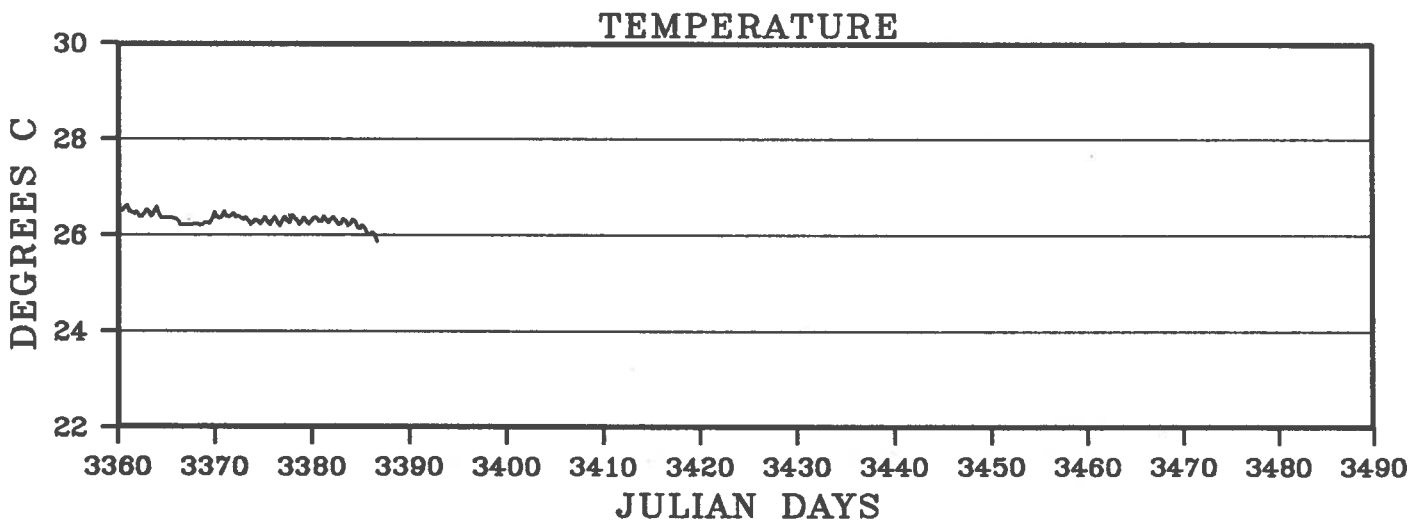
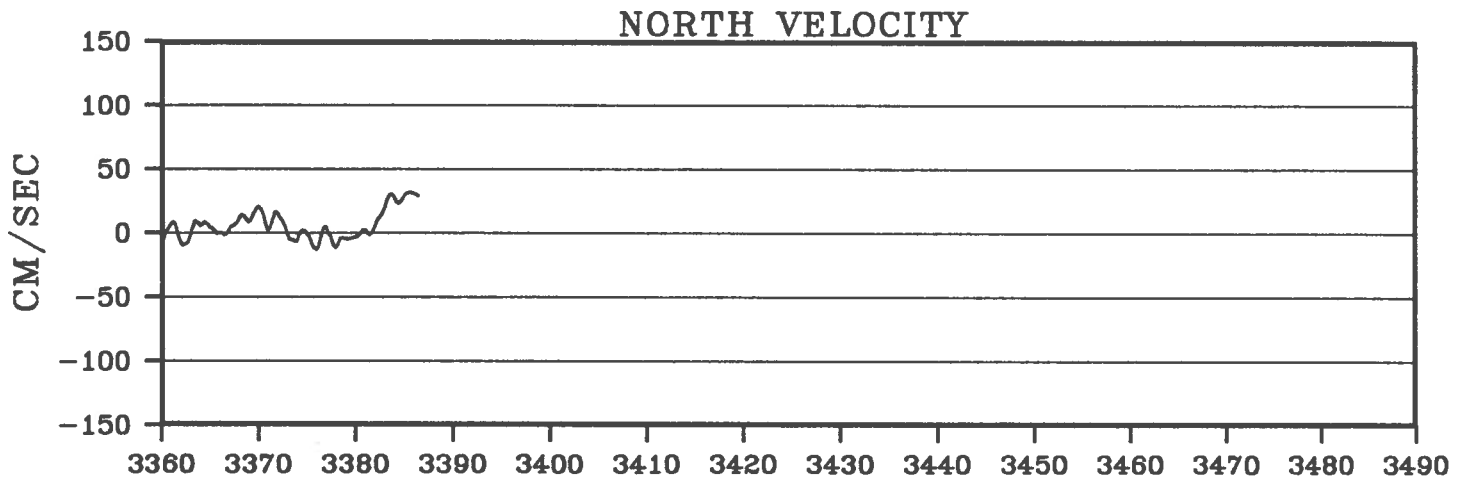
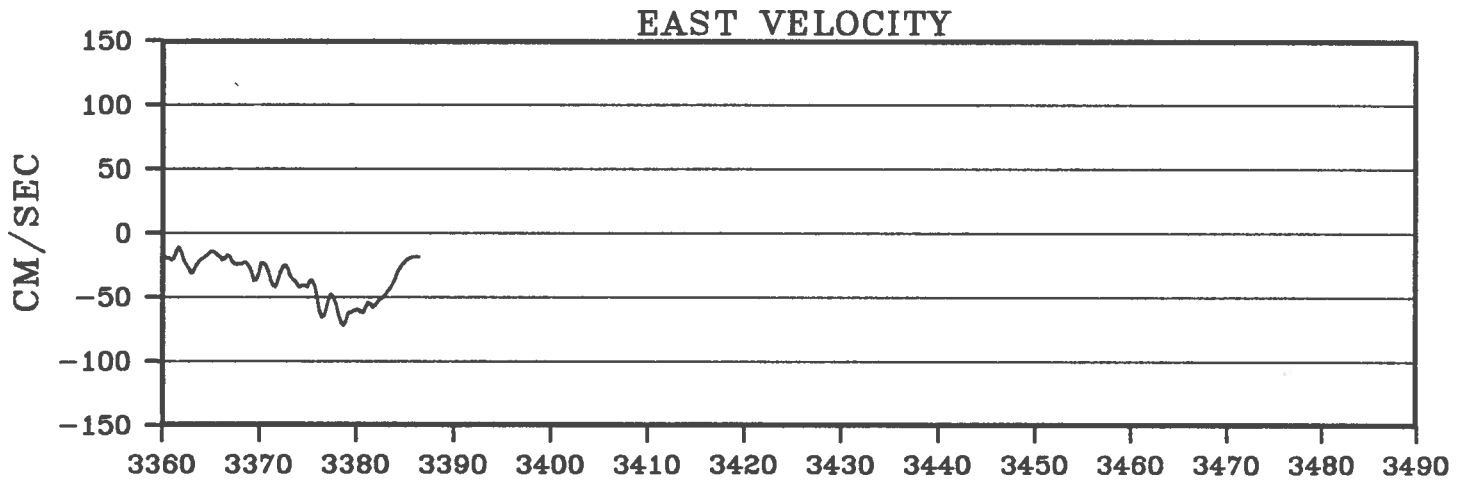
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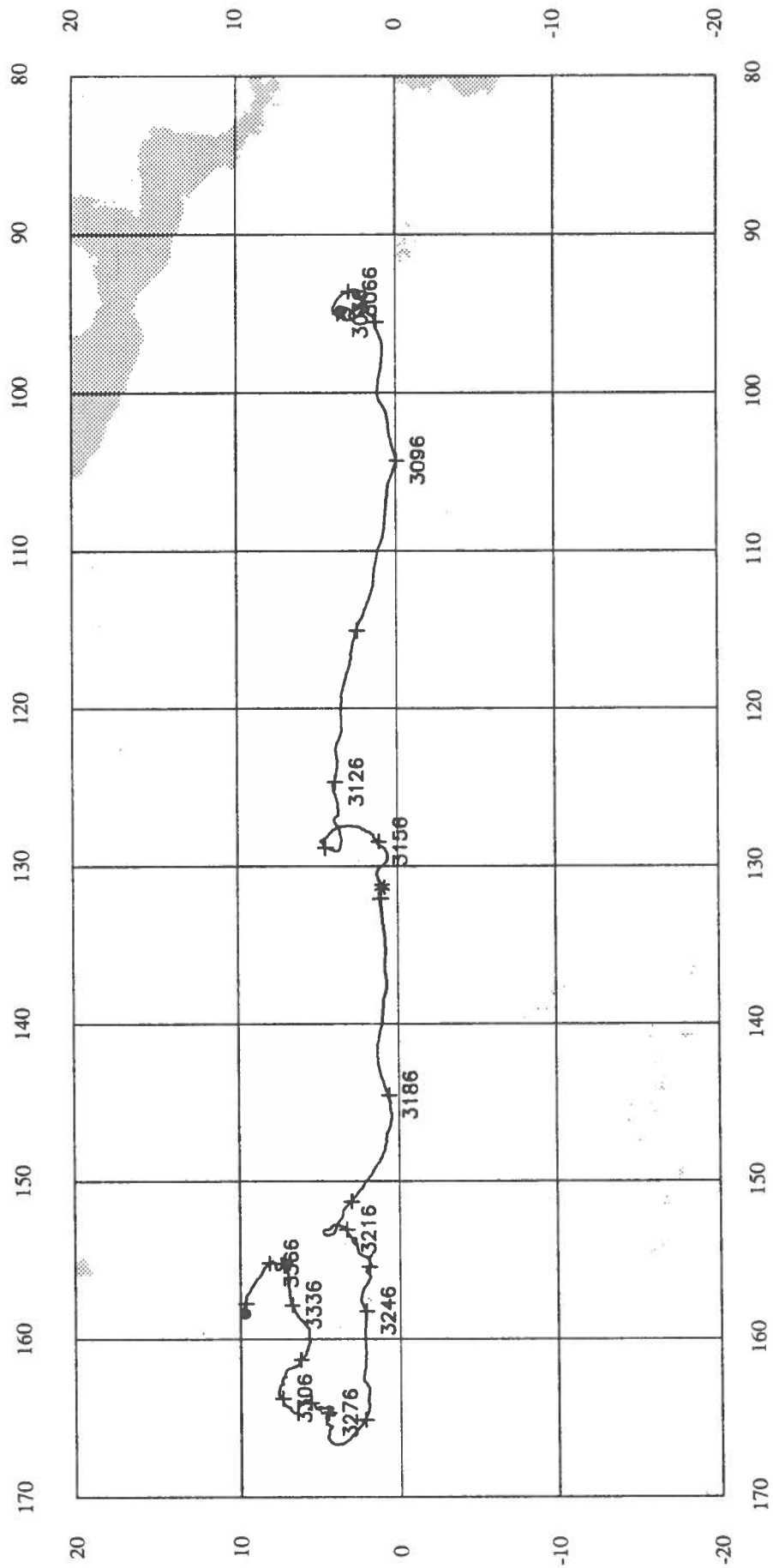
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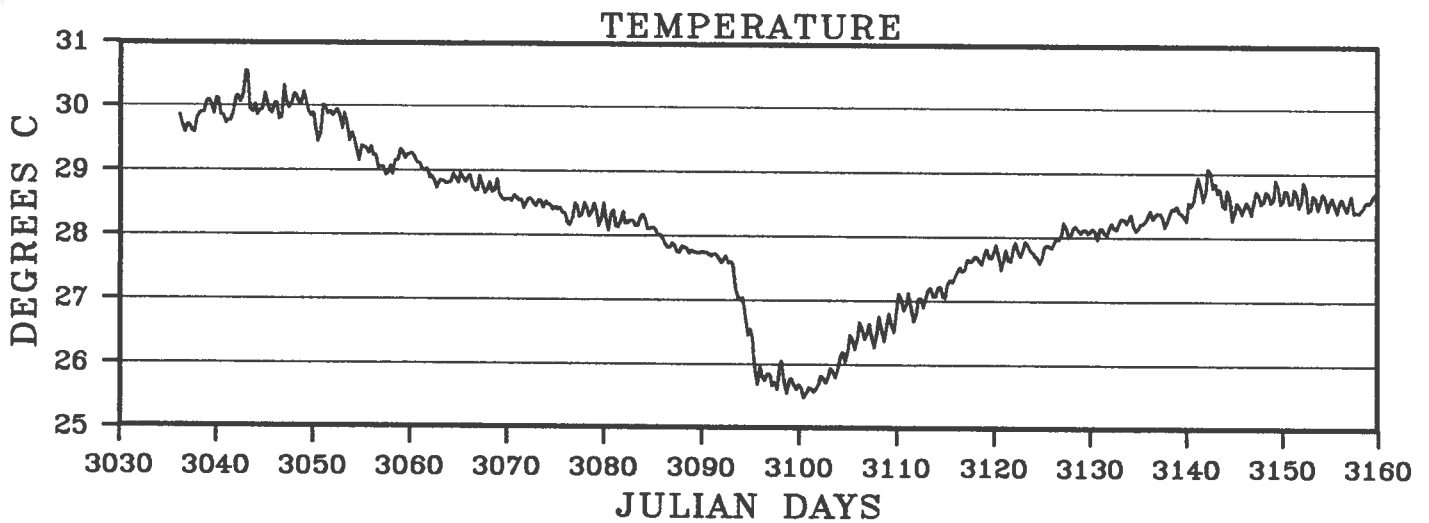
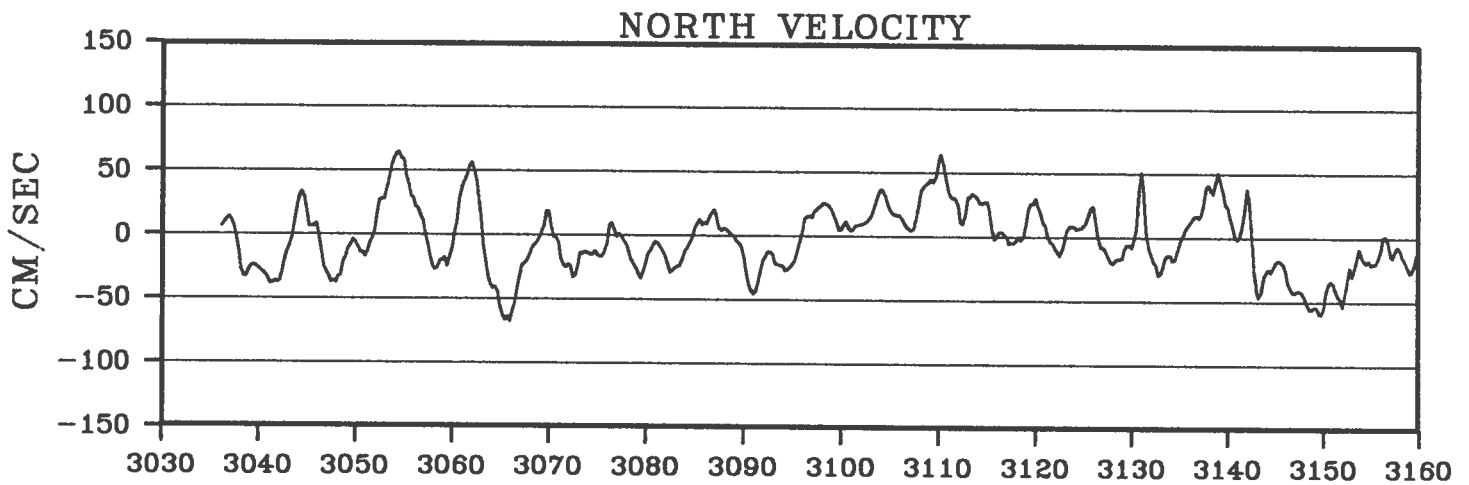
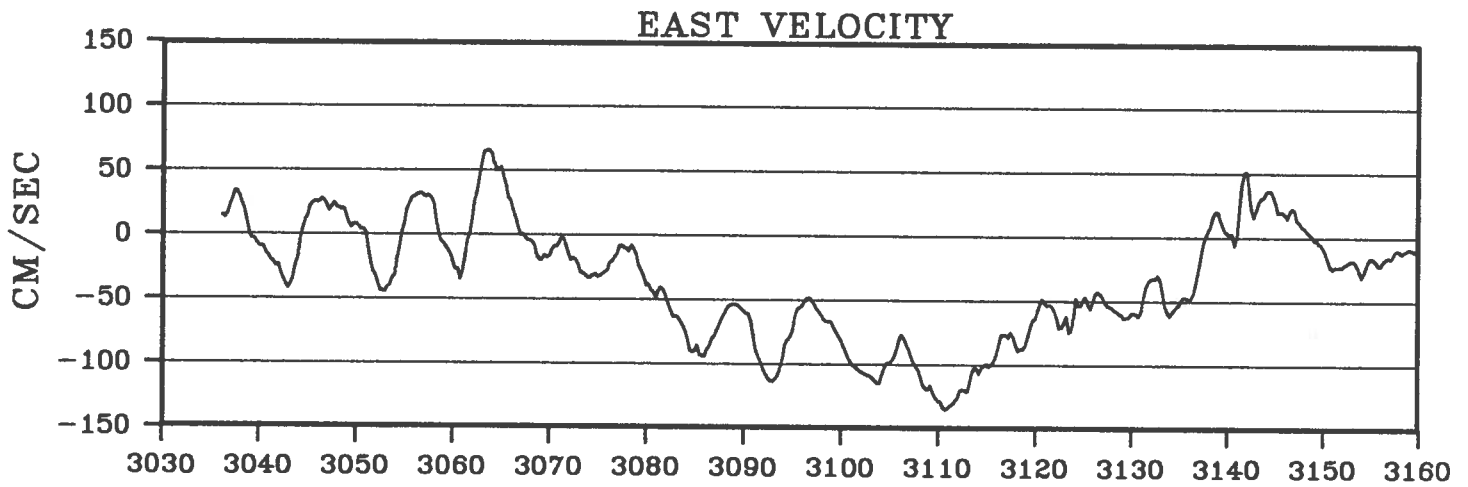
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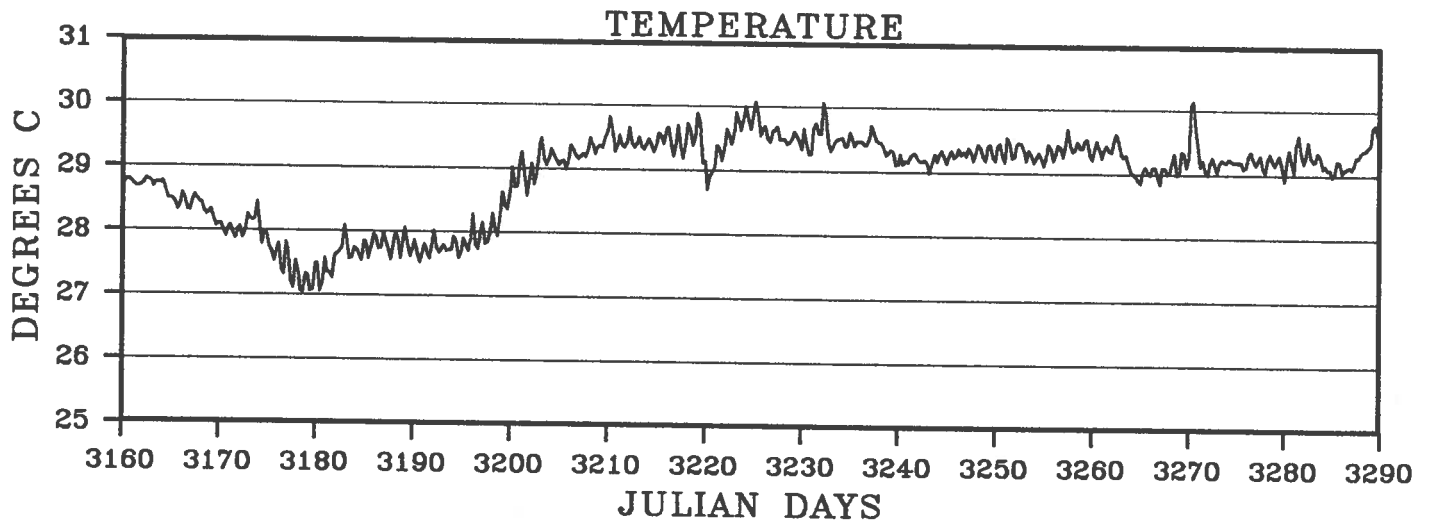
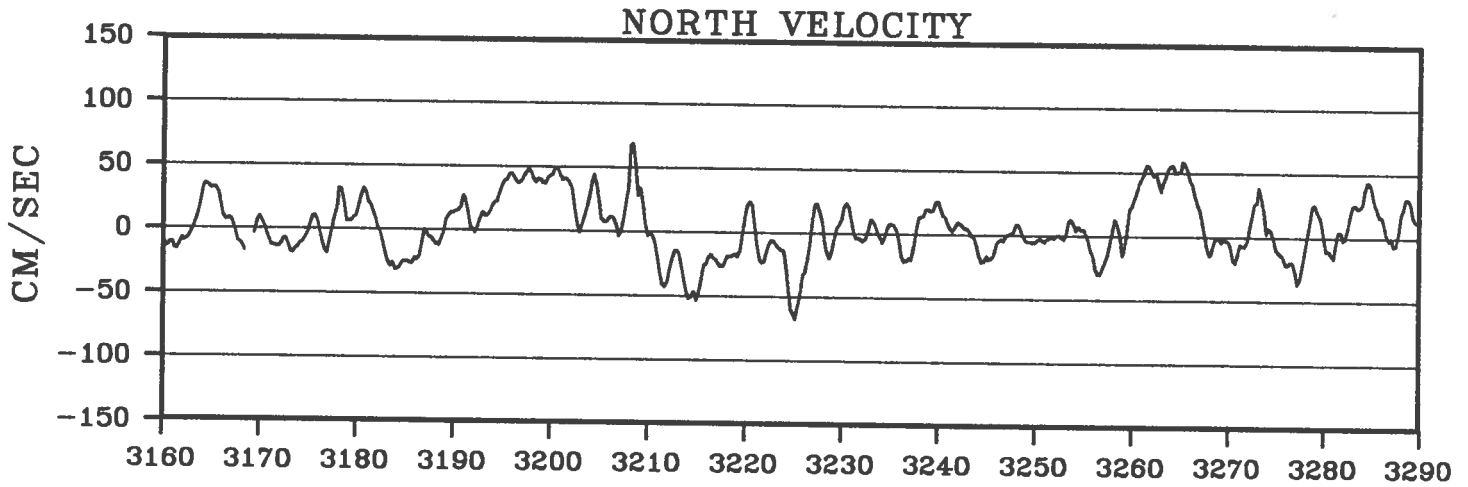
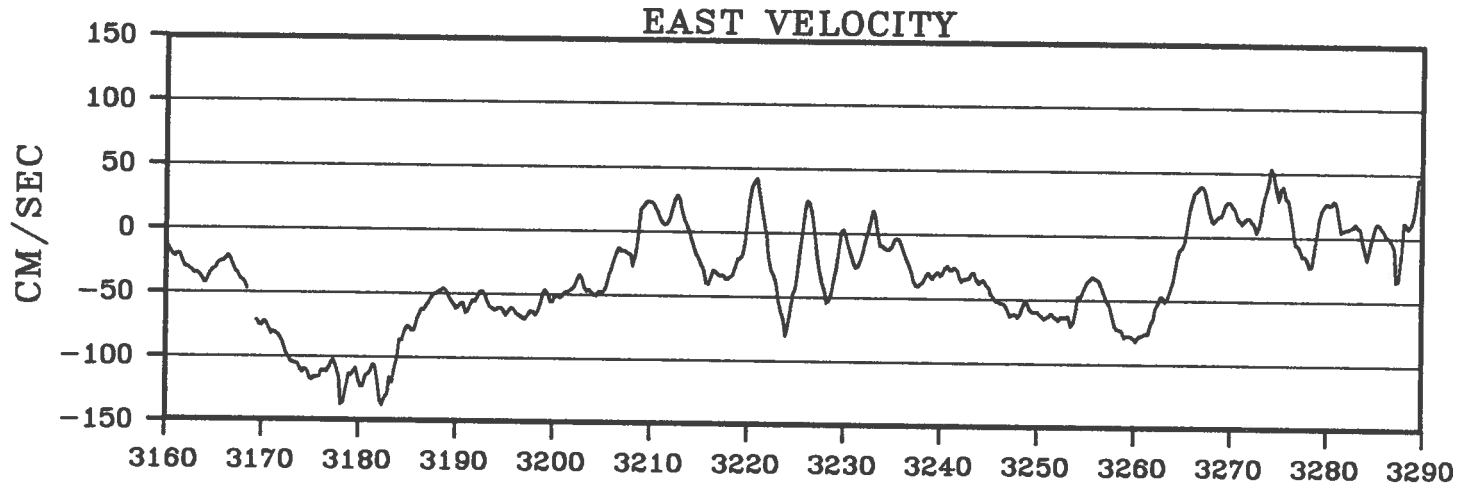
BUOY 3133



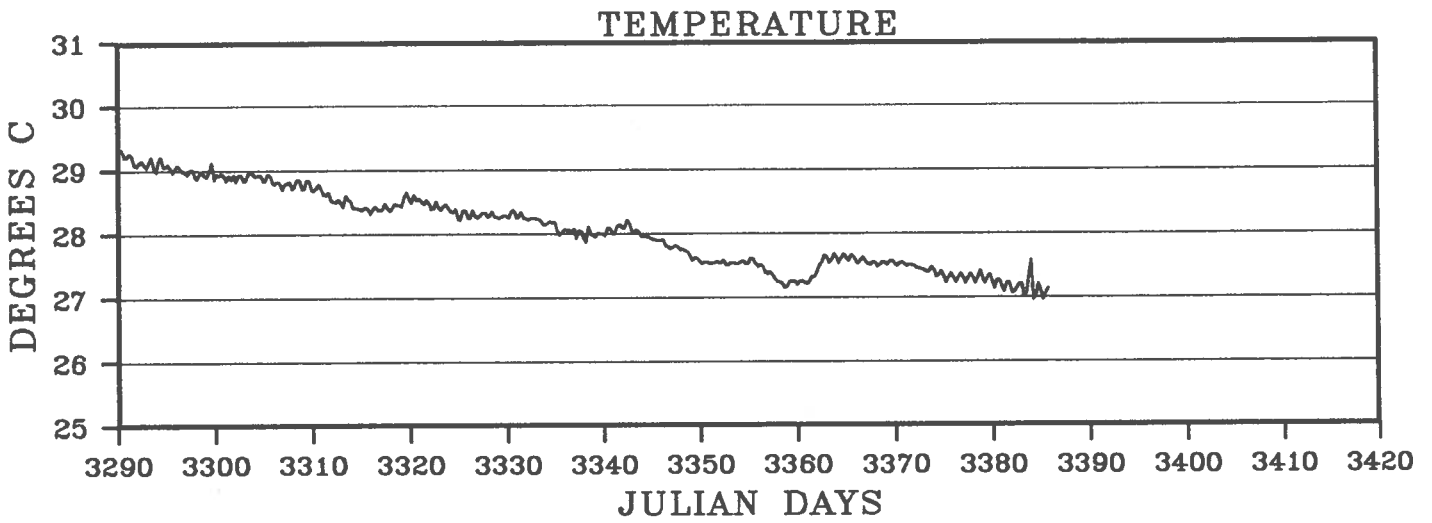
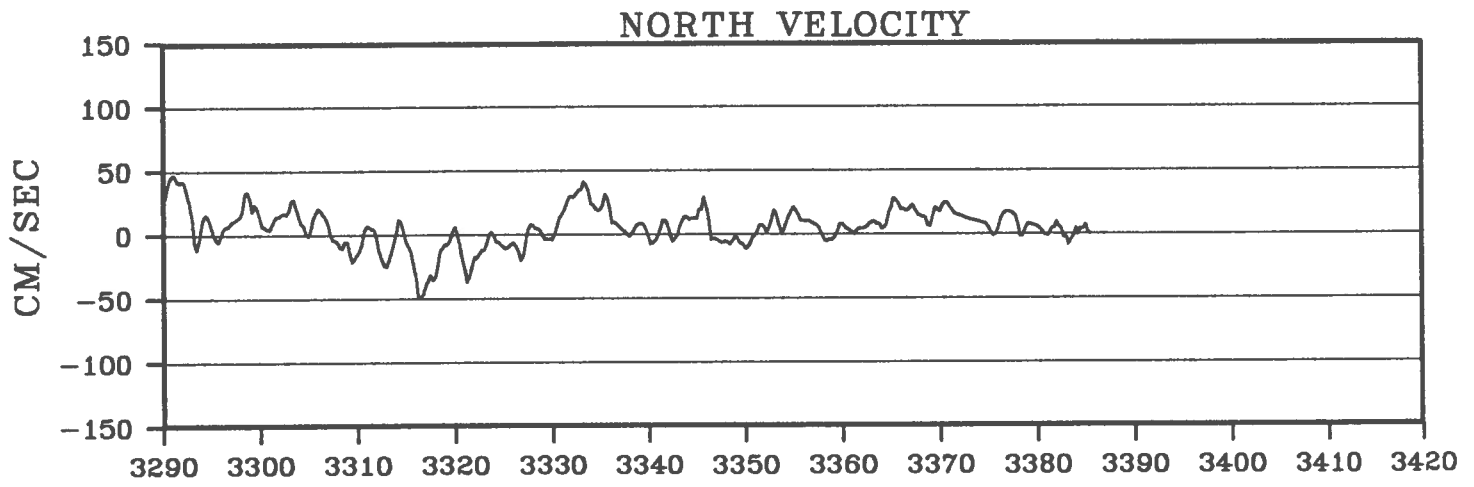
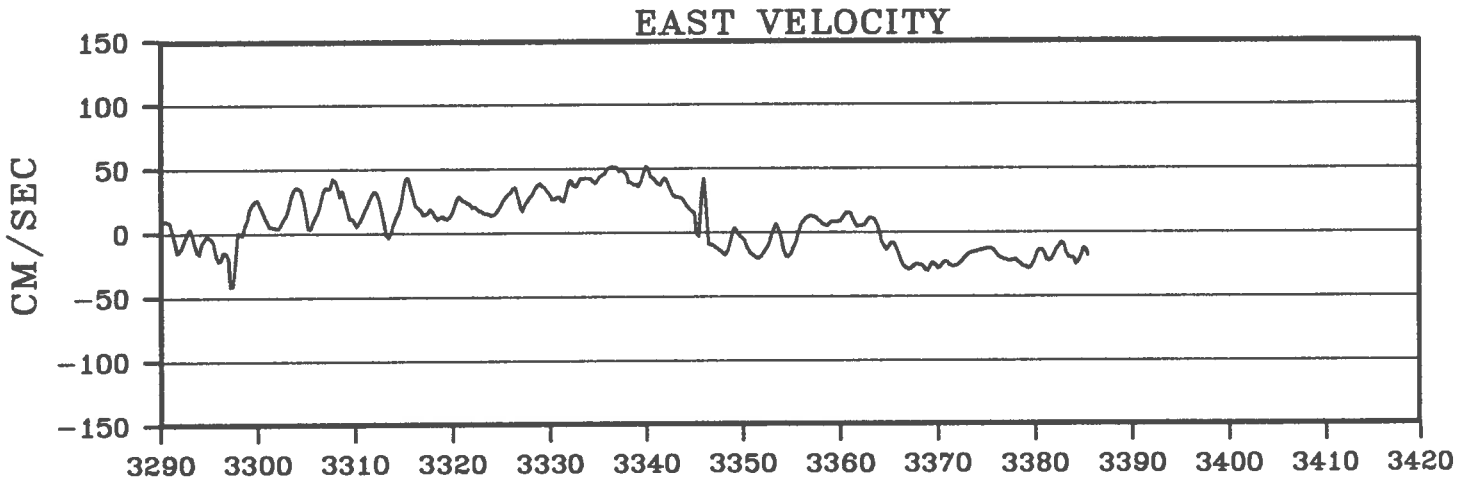
BUOY 3133



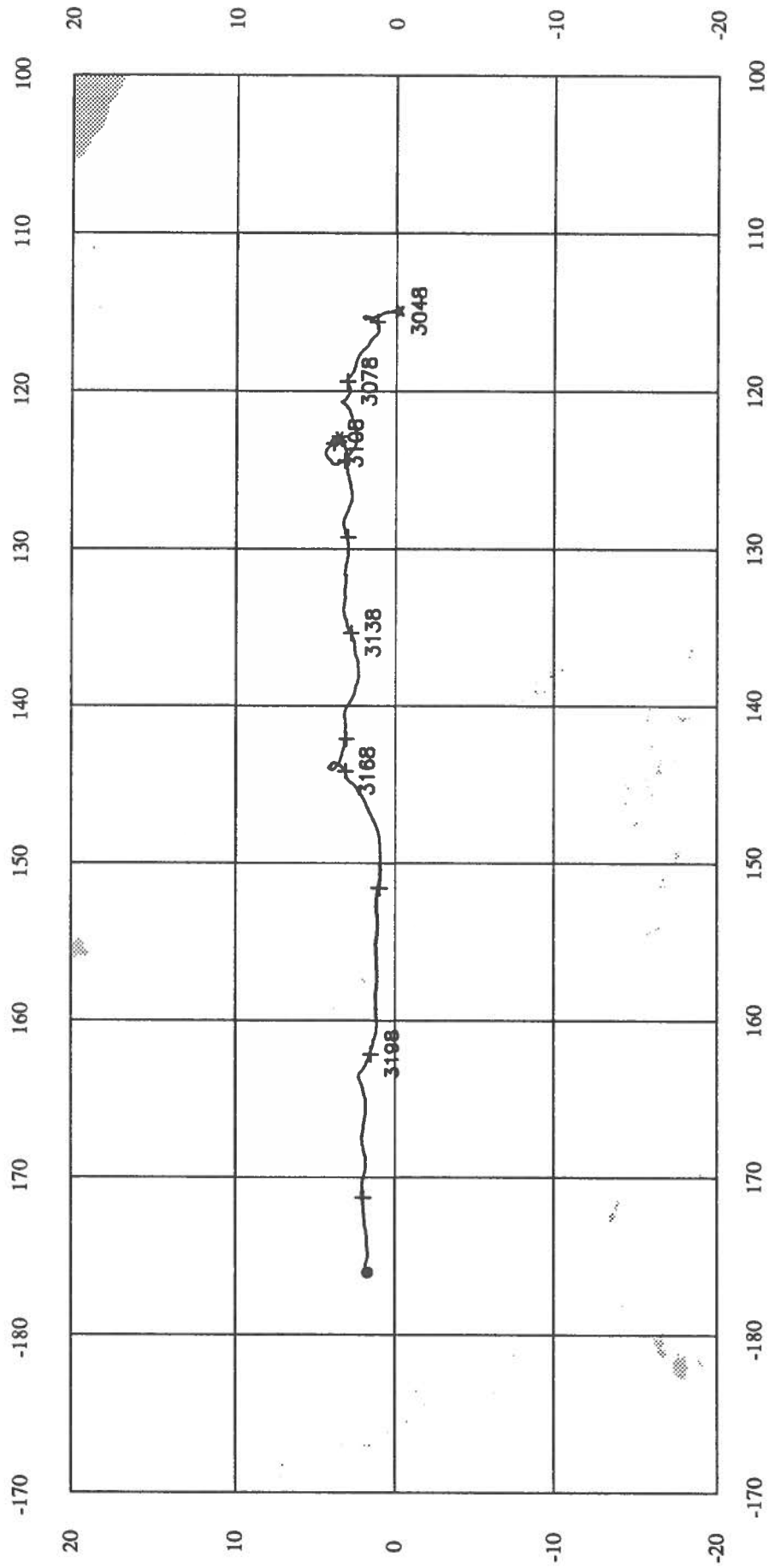
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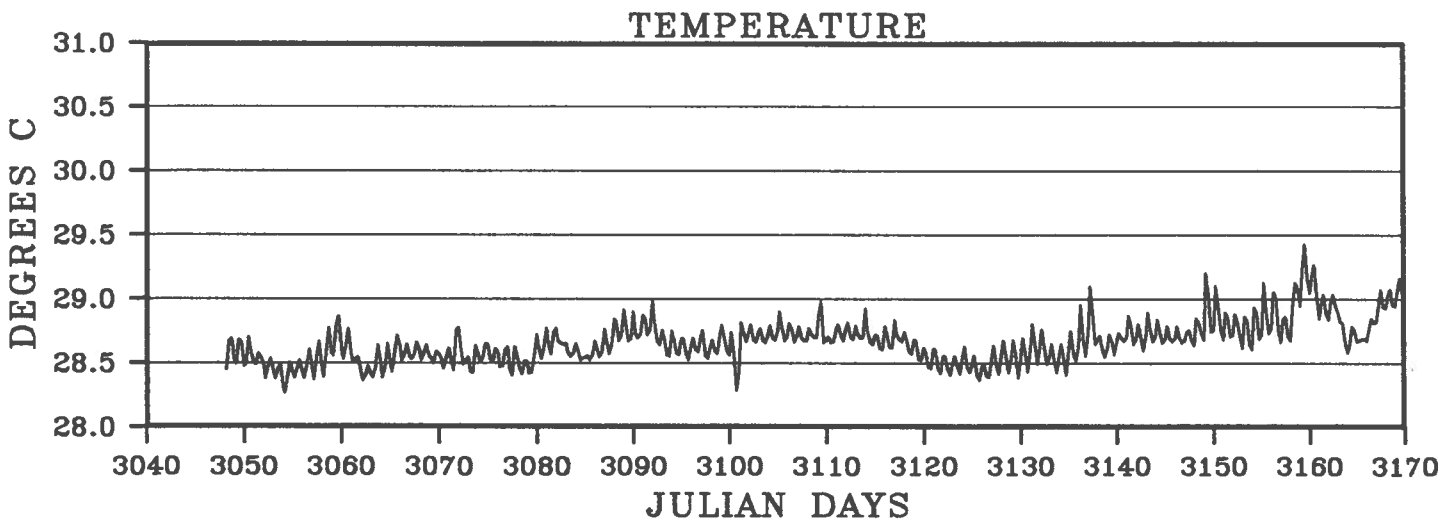
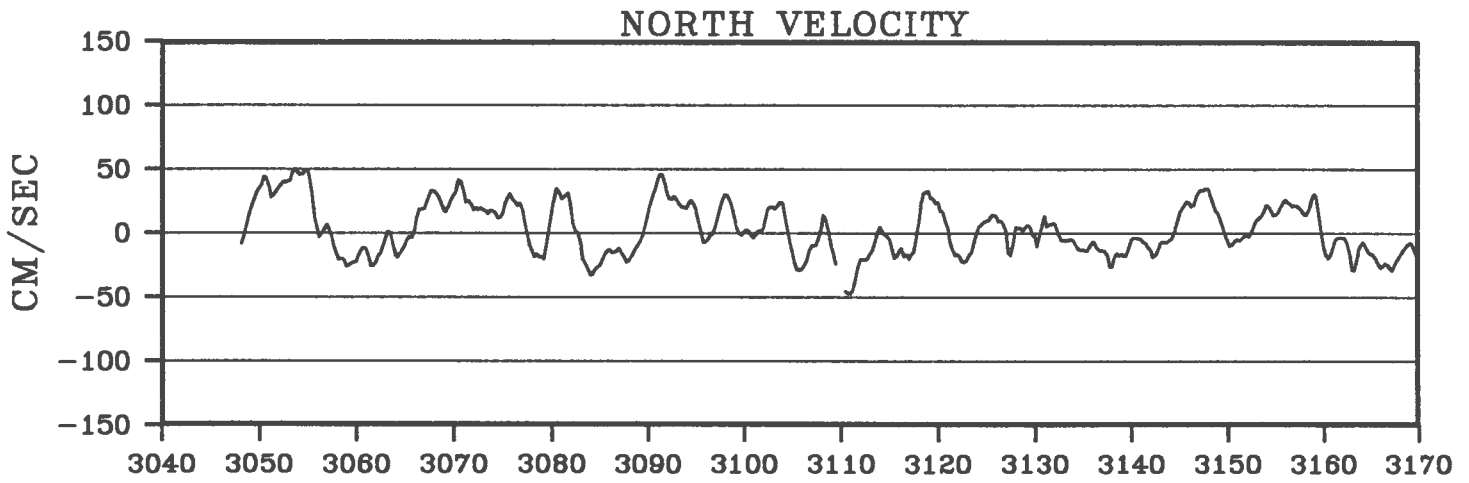
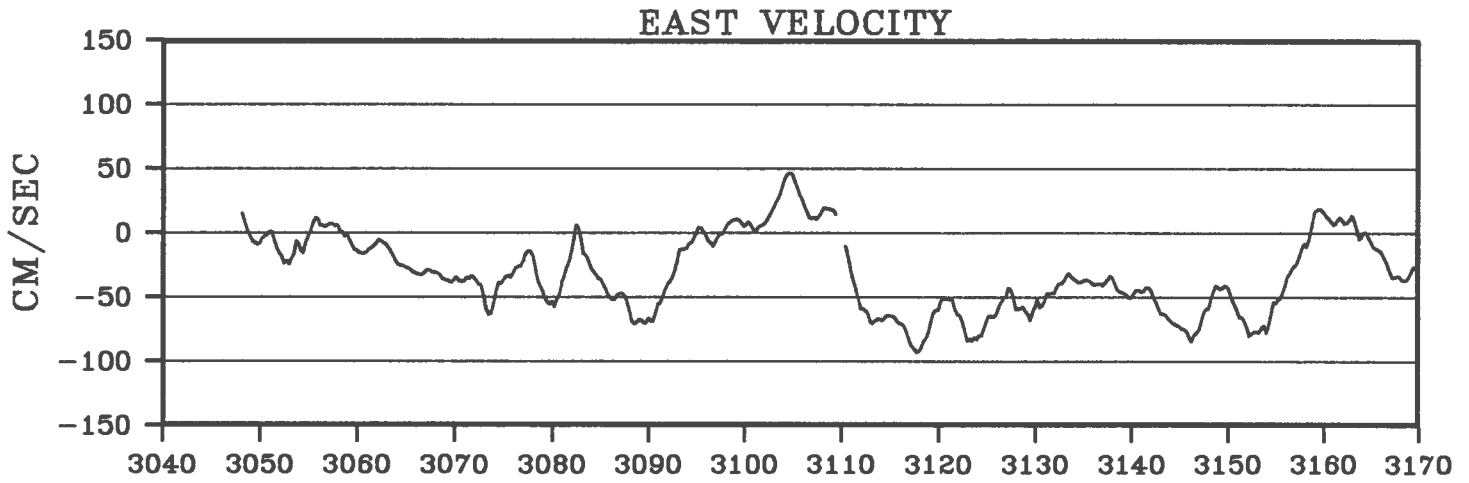
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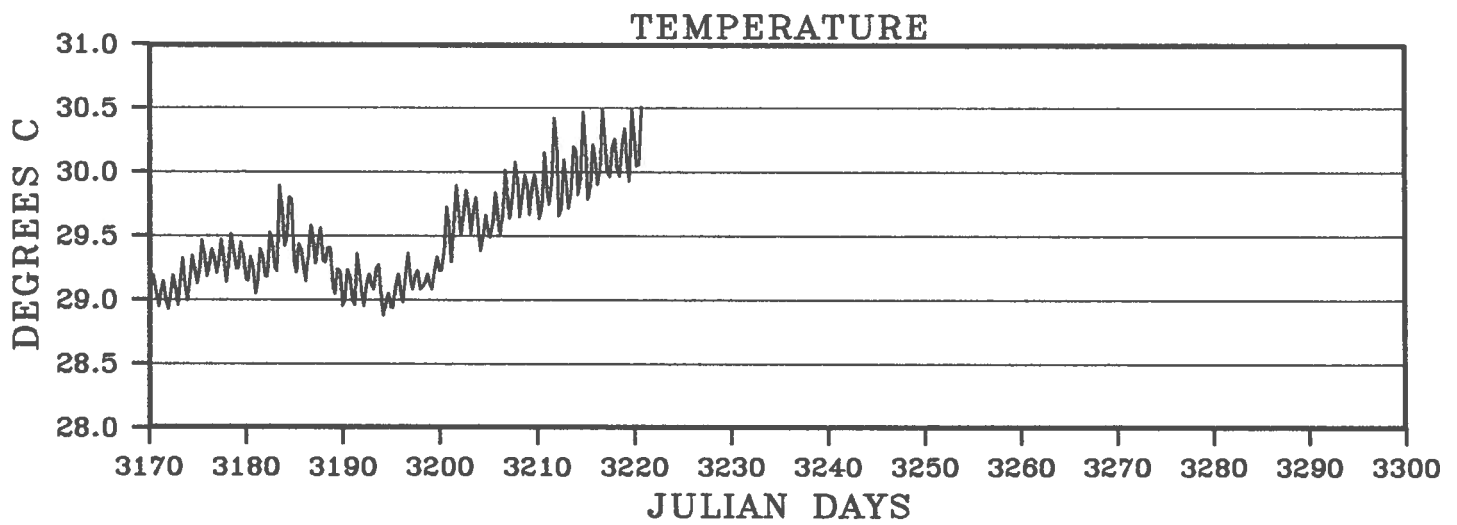
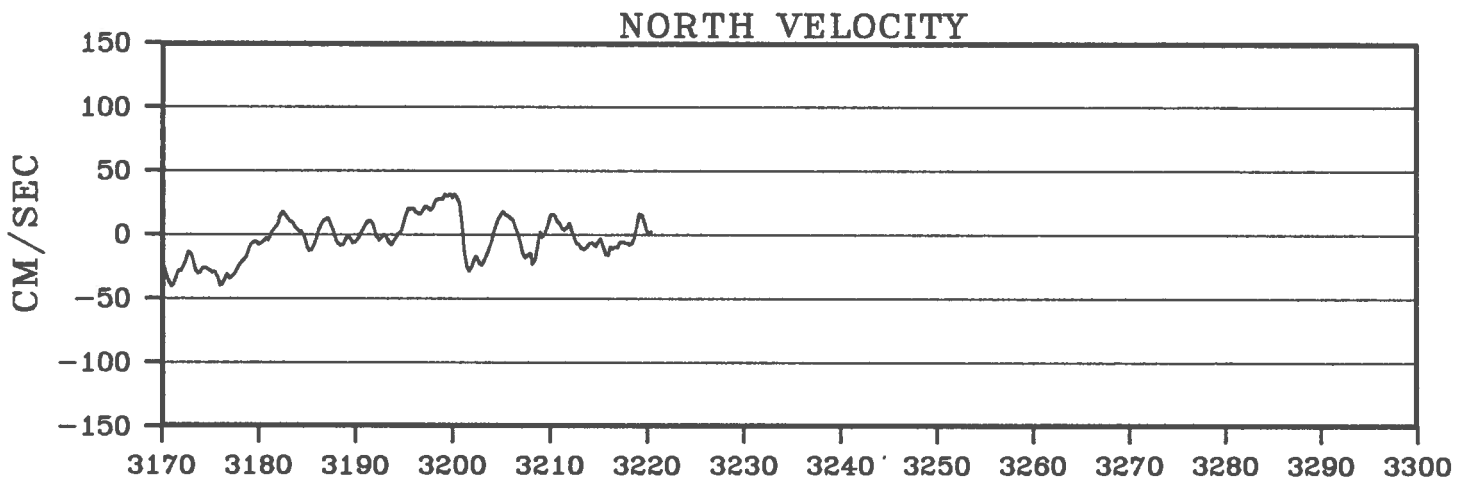
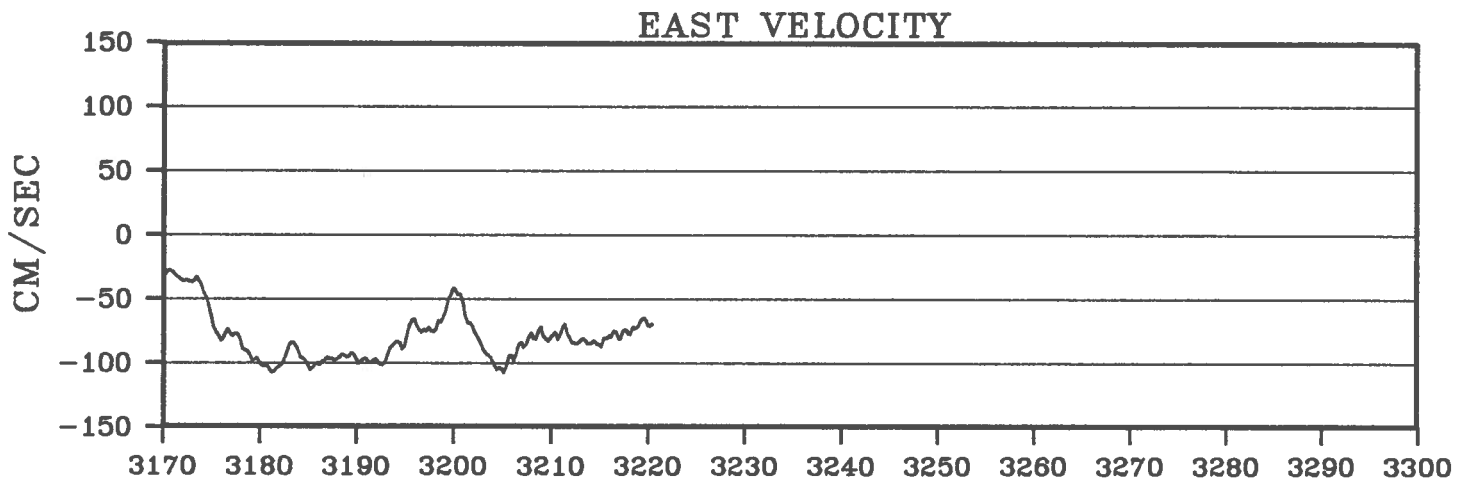
BUOY 3142



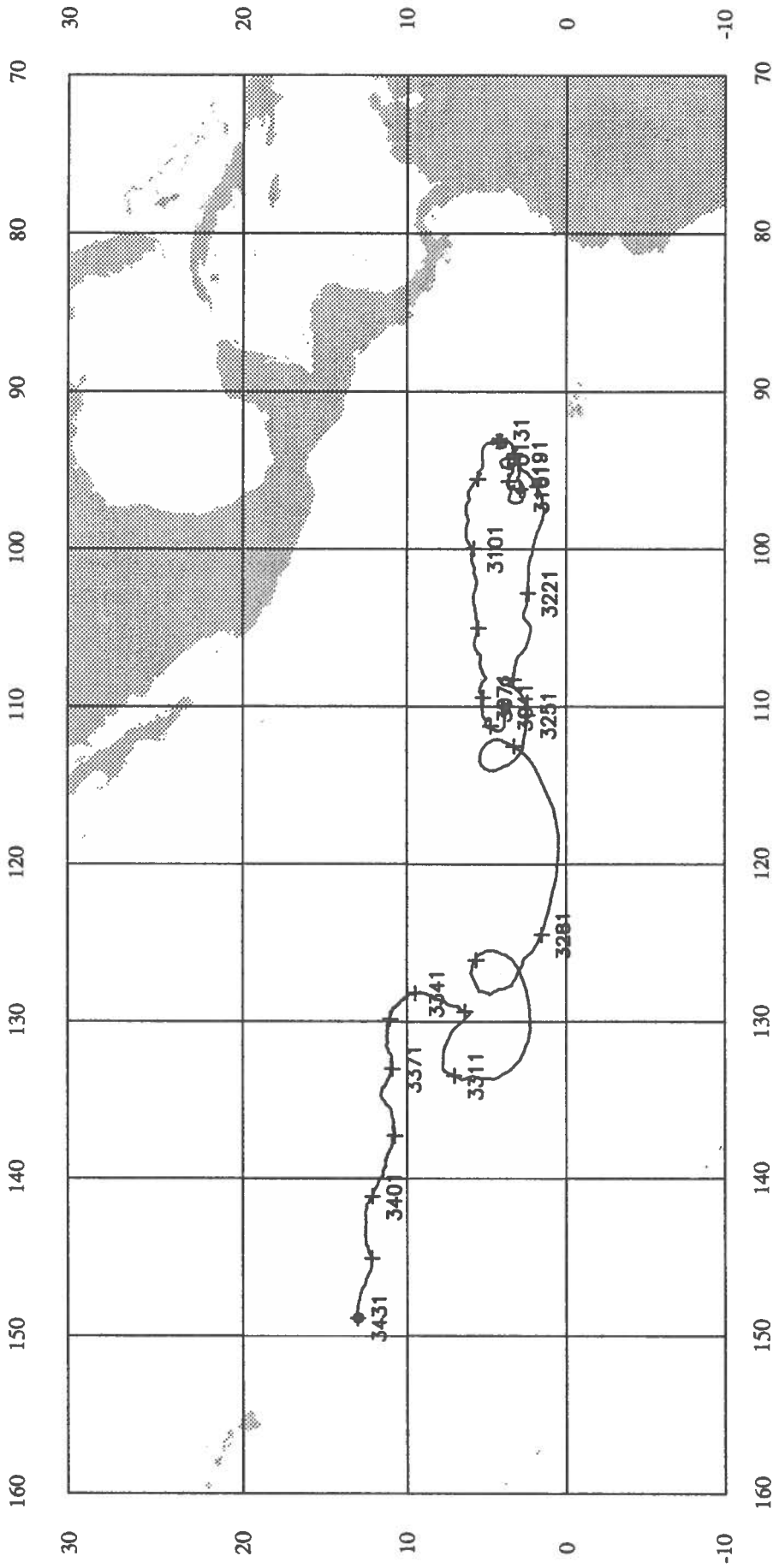
BUOY 3142



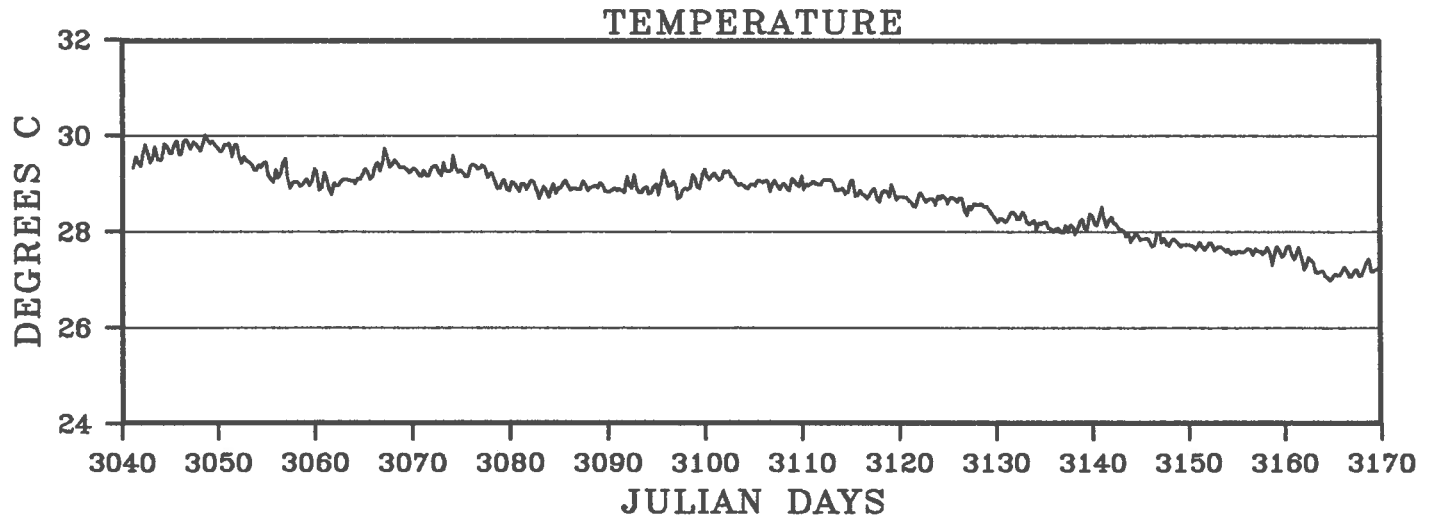
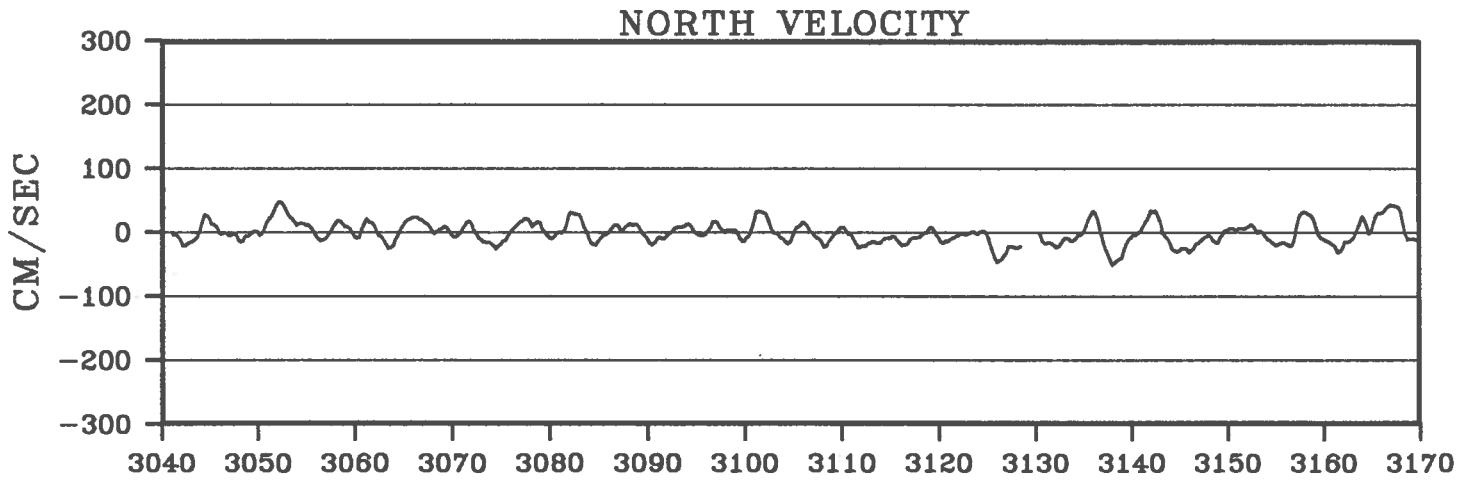
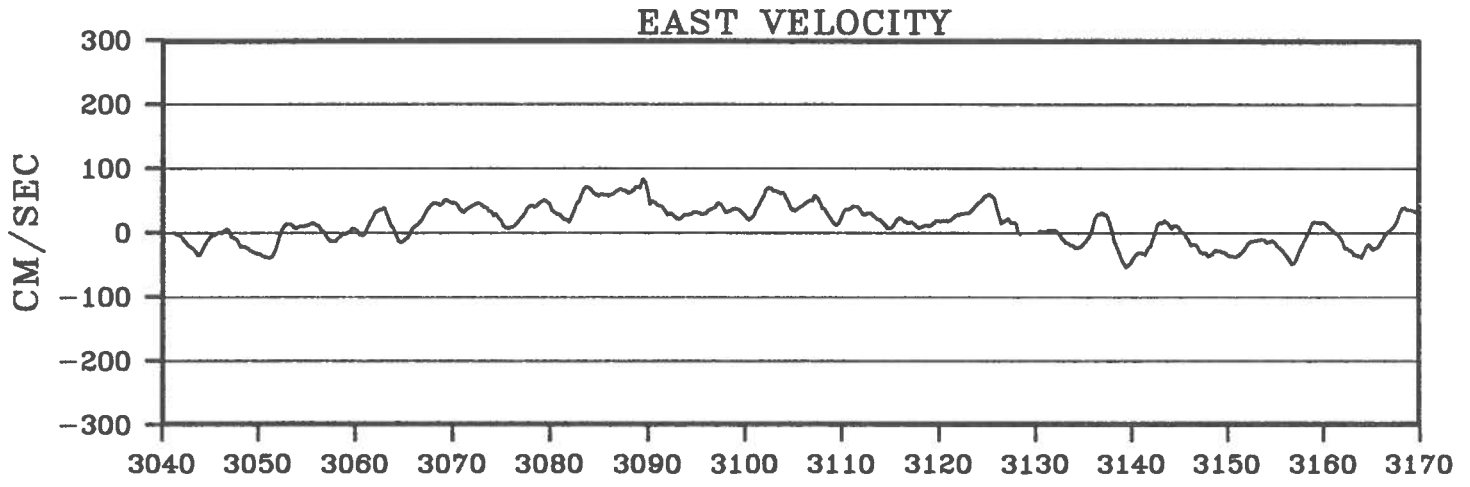
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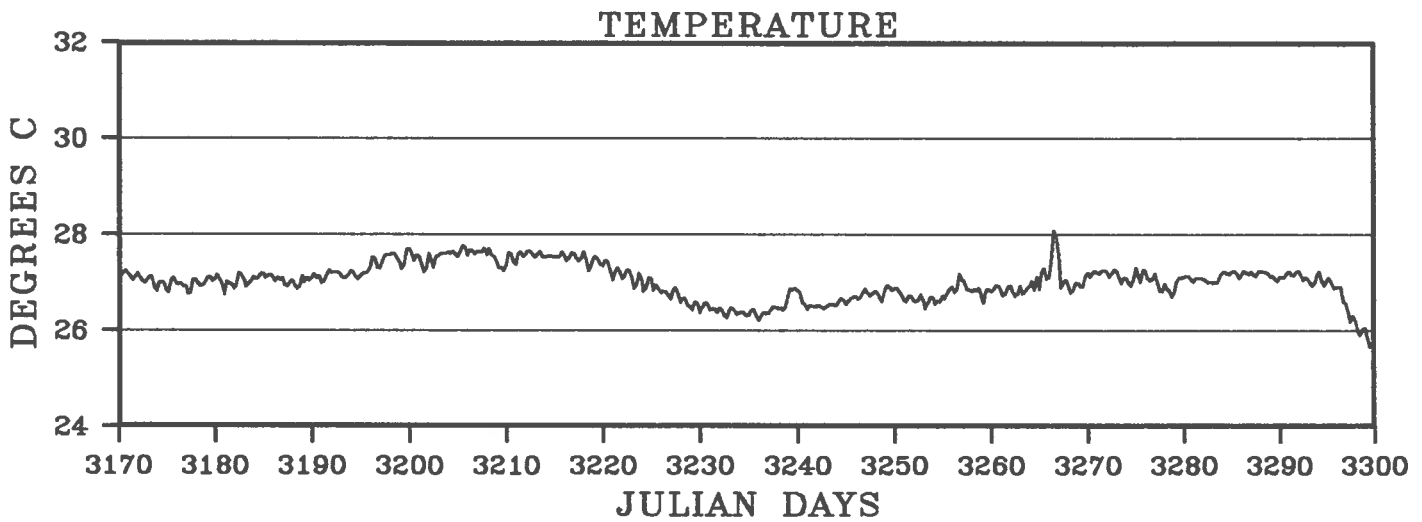
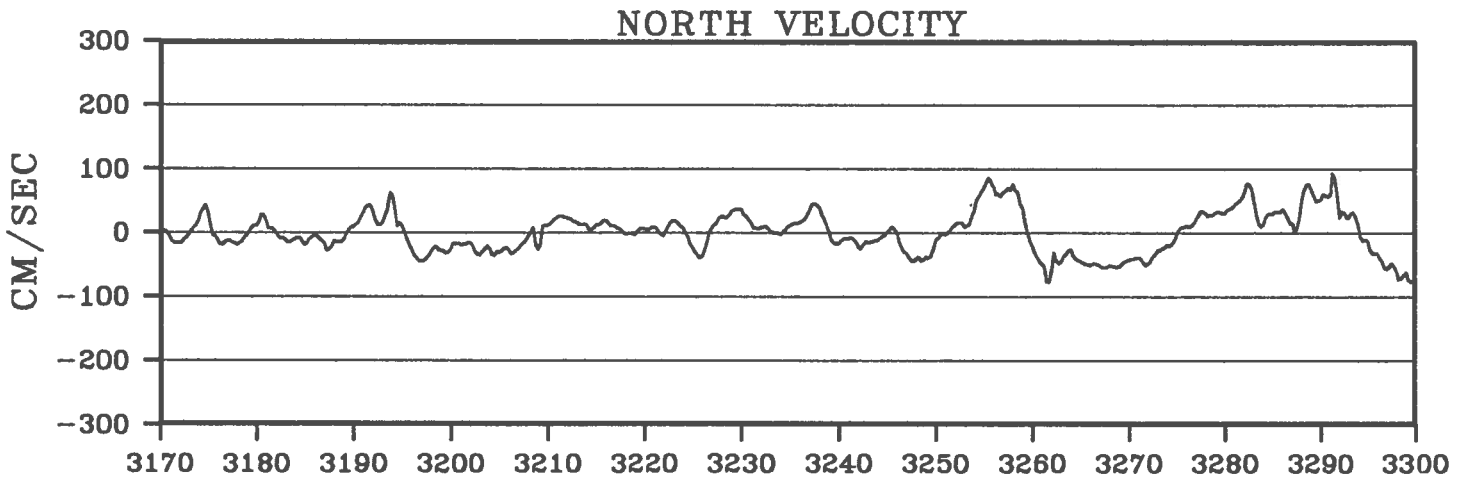
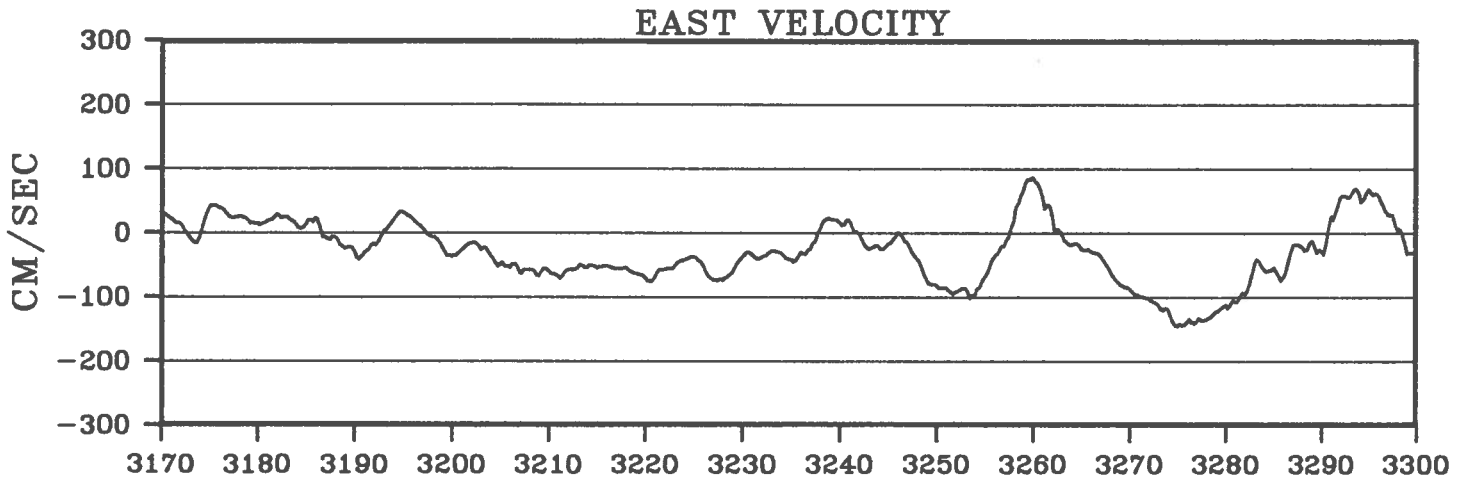
BUOY 4816



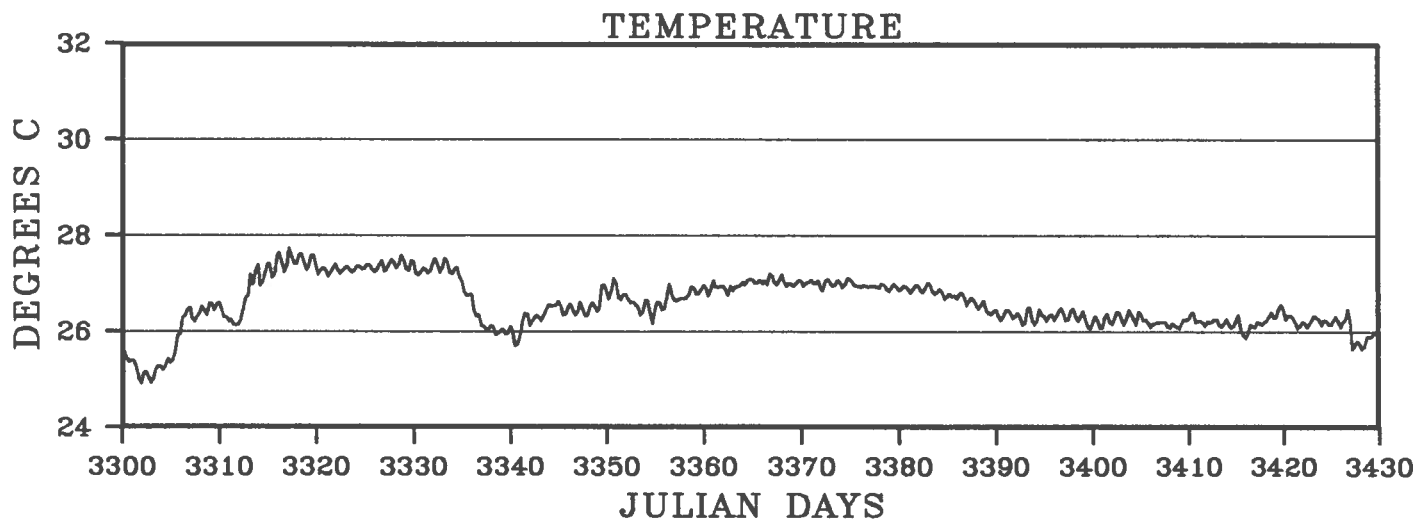
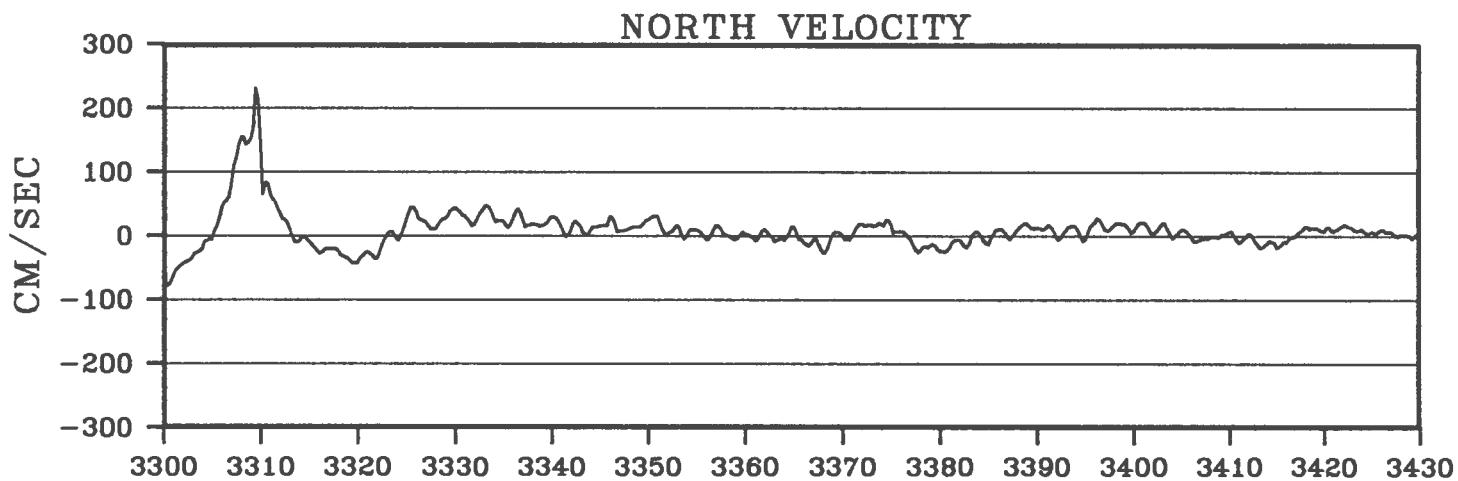
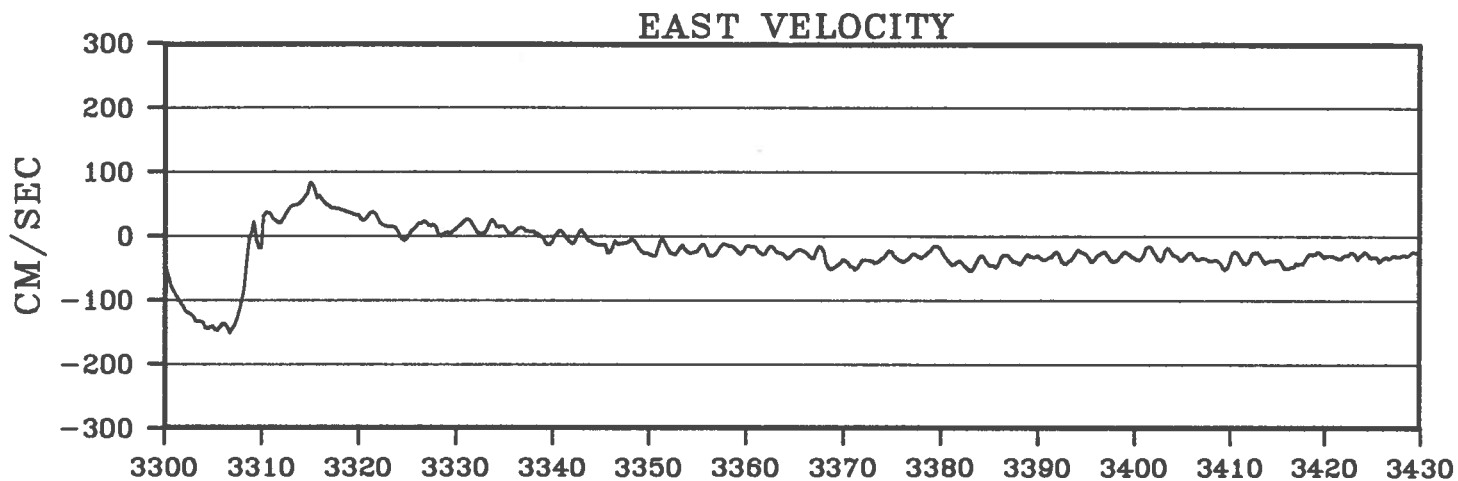
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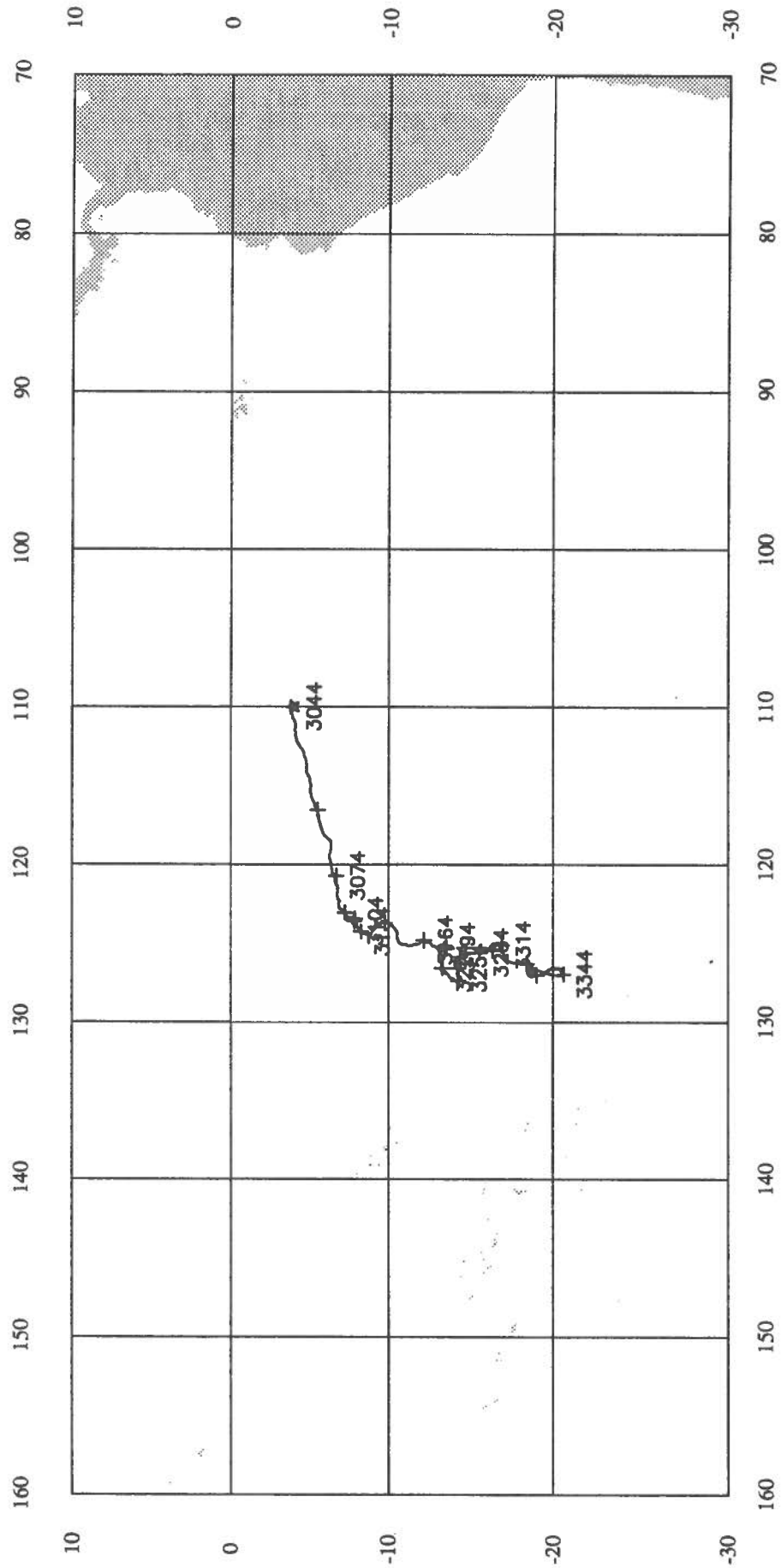
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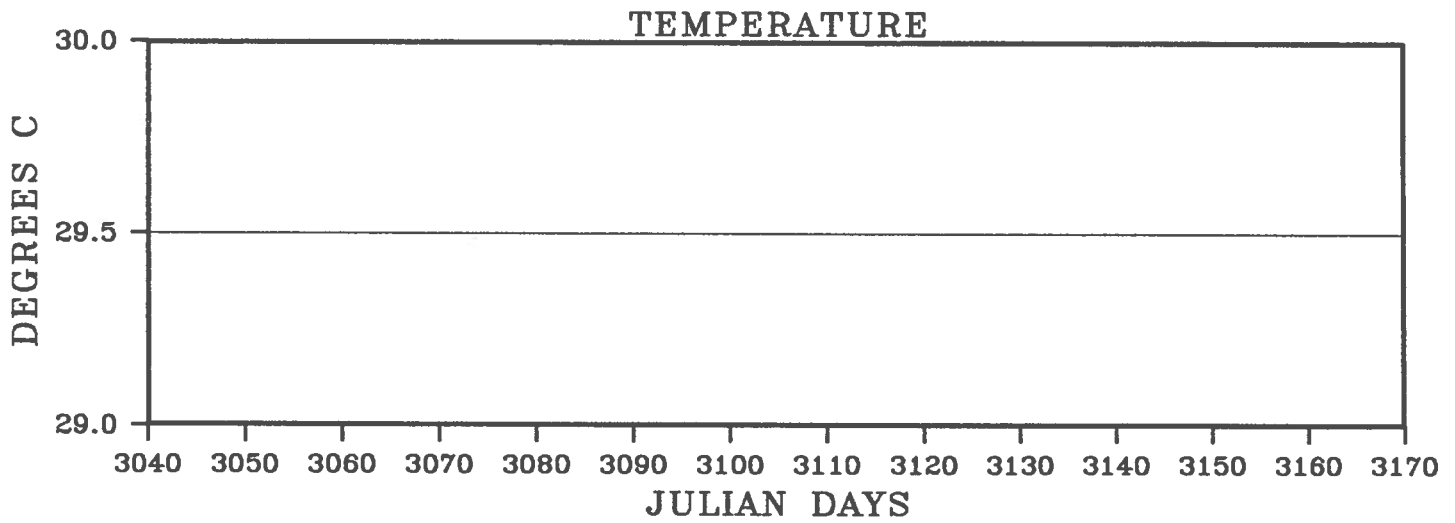
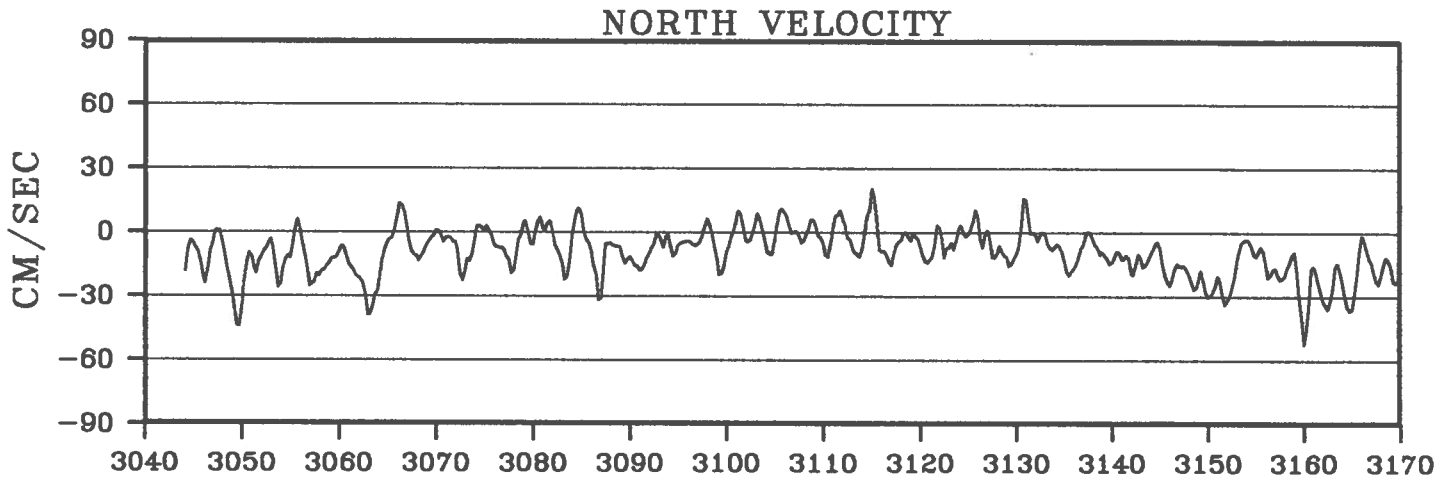
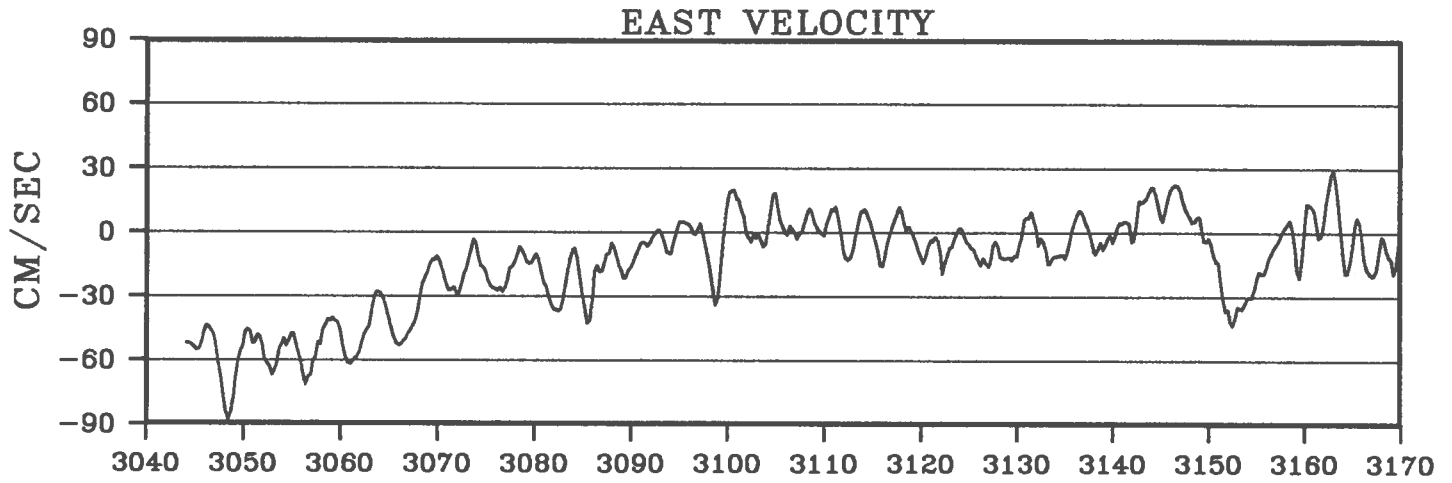
BUOY 4816



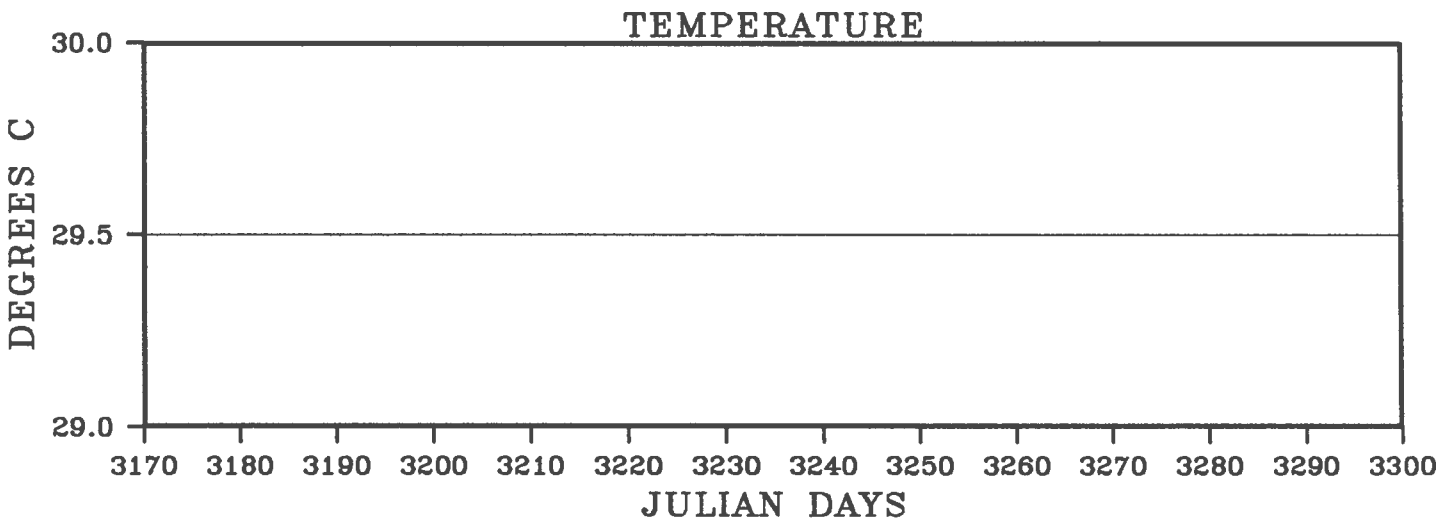
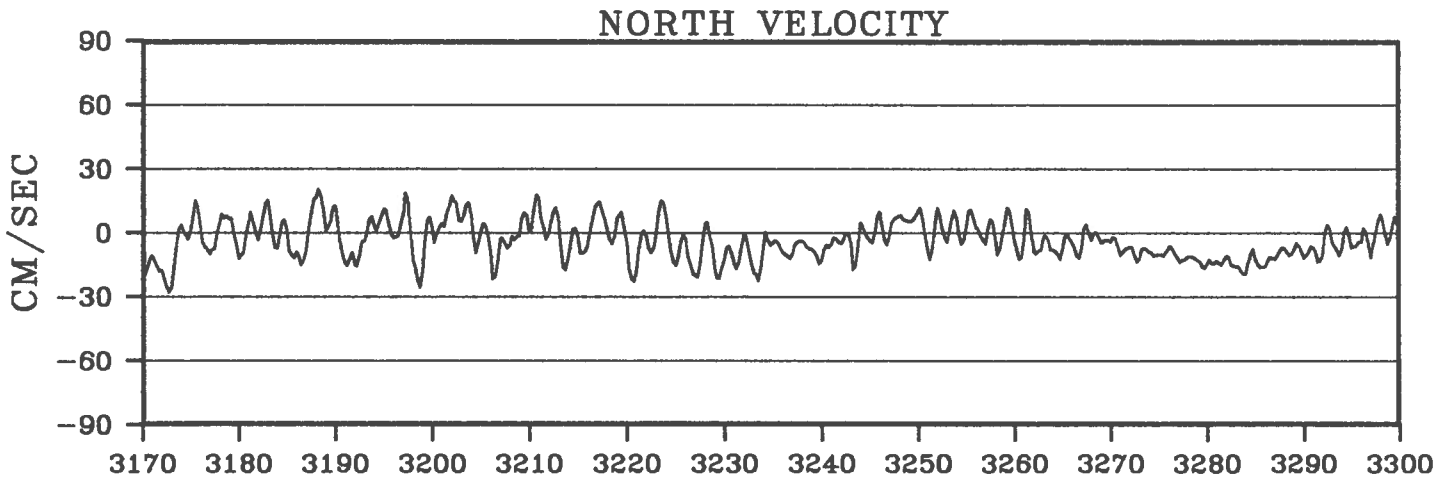
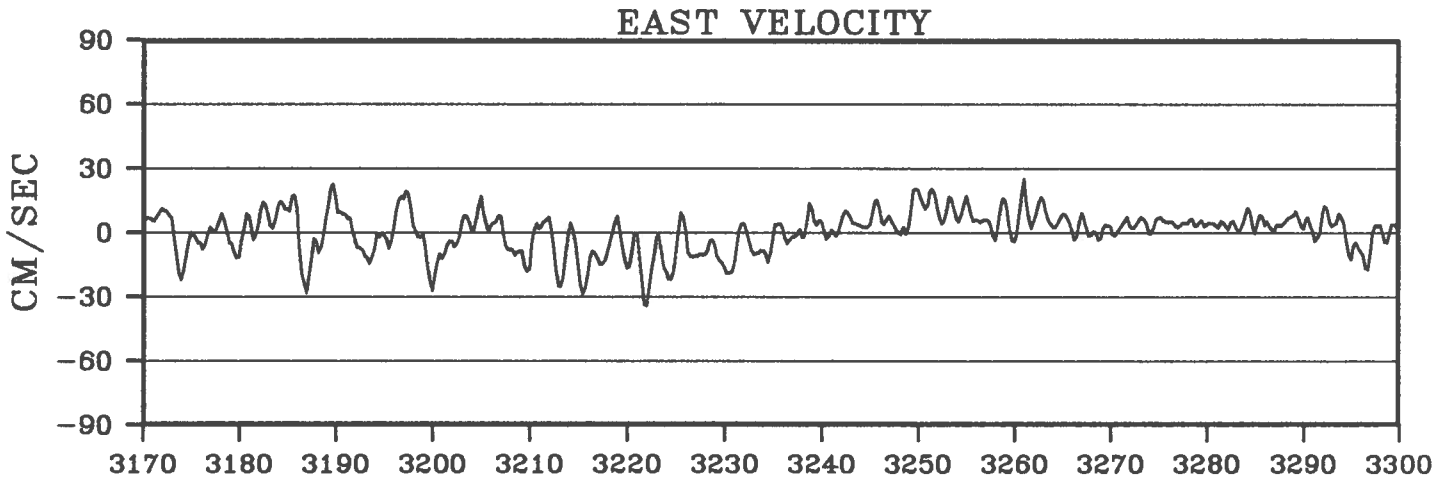
BUOY 4817



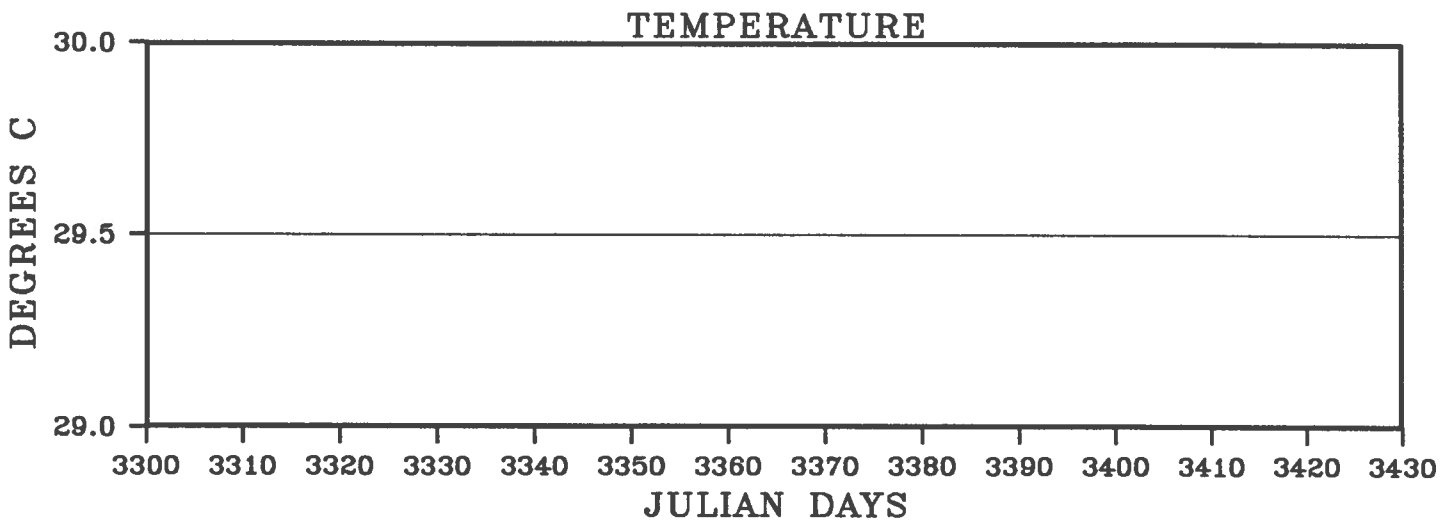
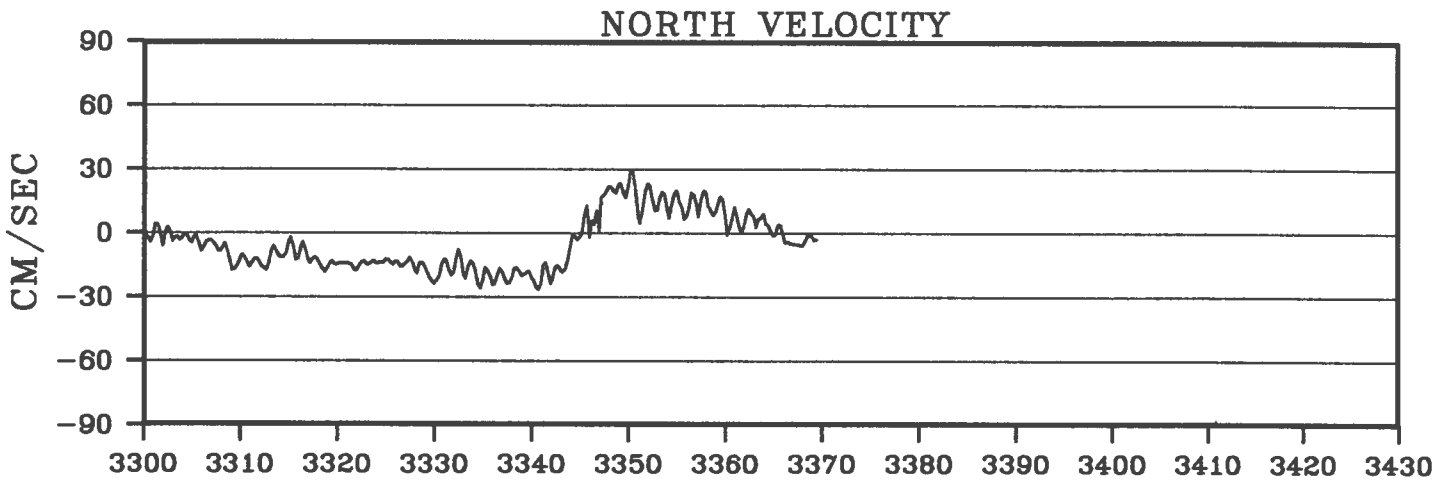
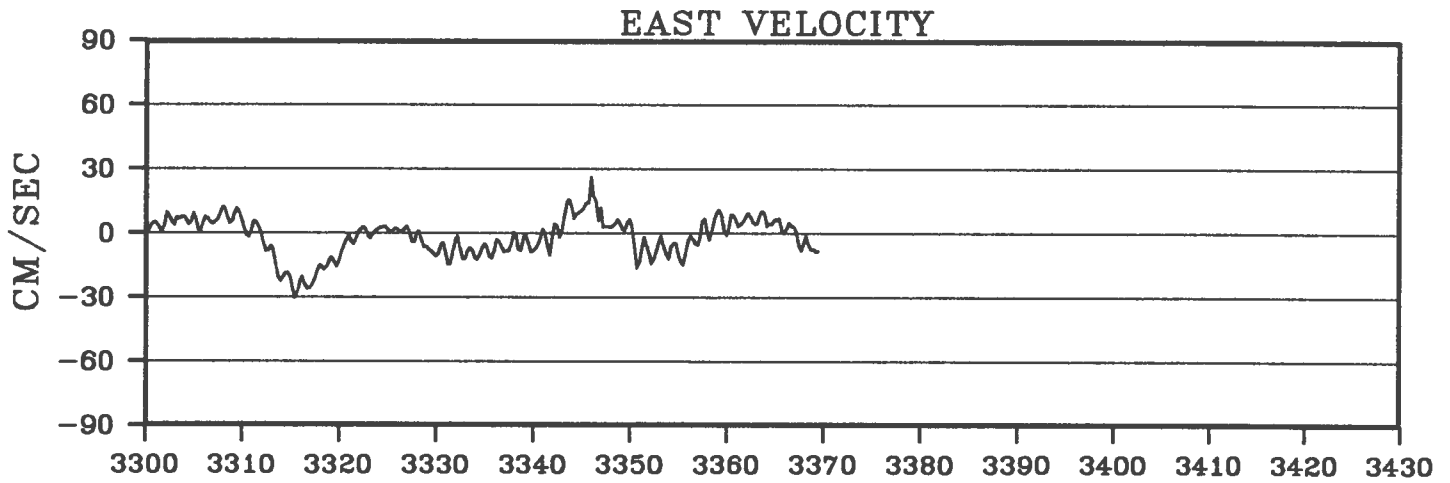
BUOY 4817



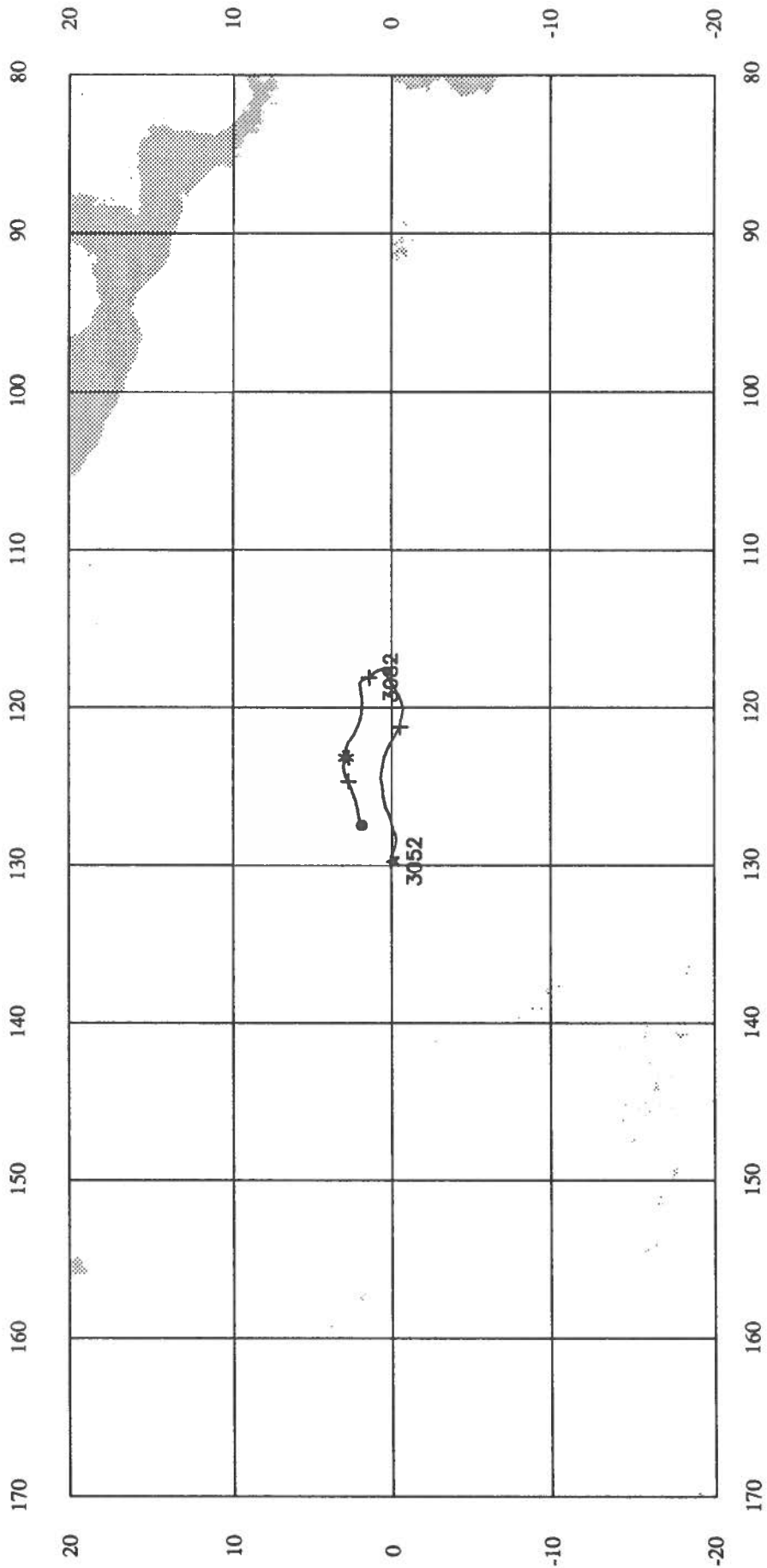
BUOY 4817



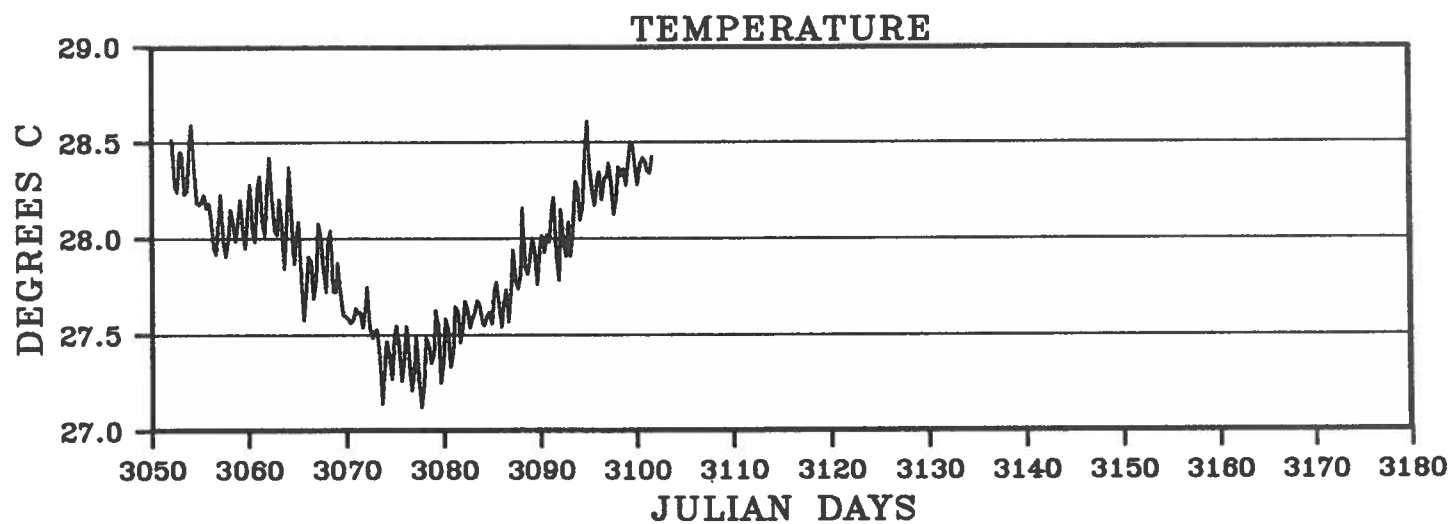
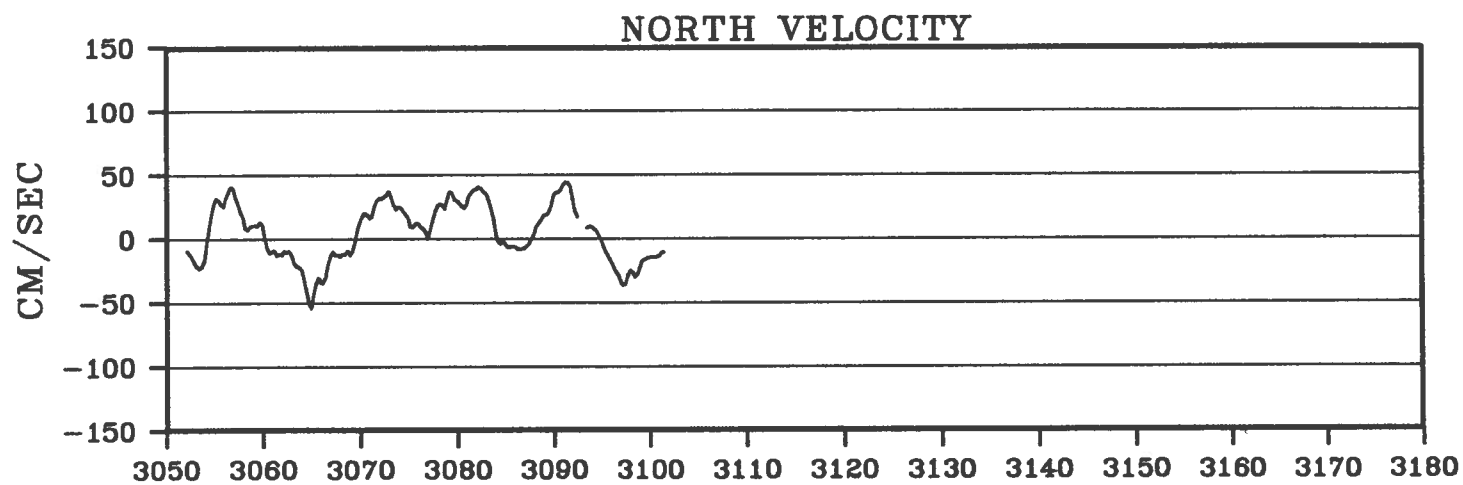
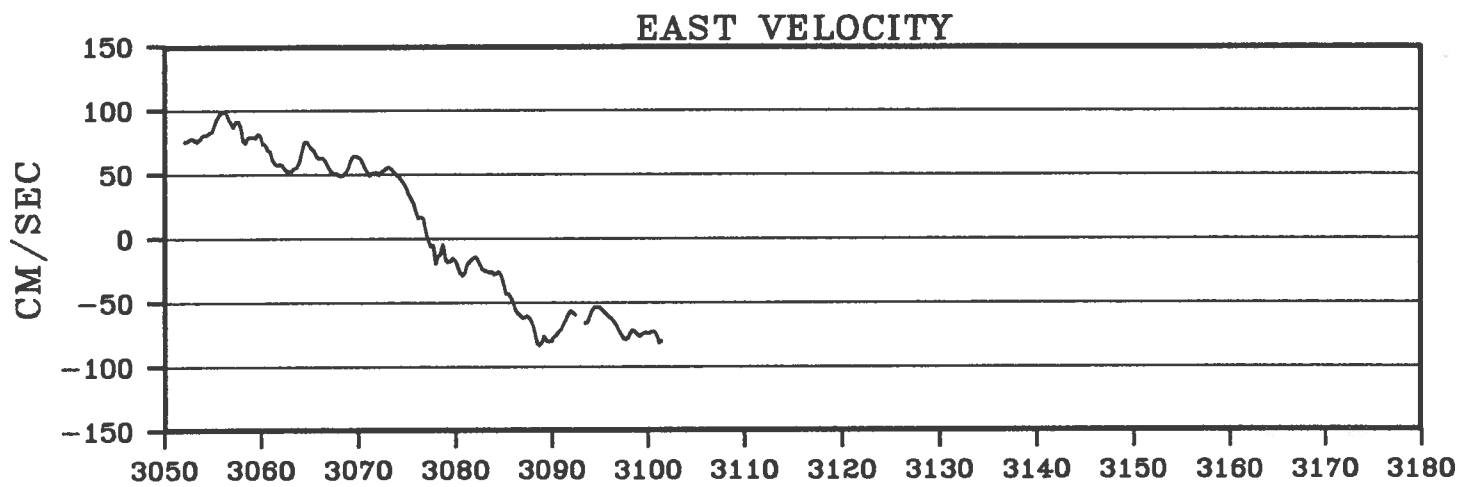
BUOY 4817



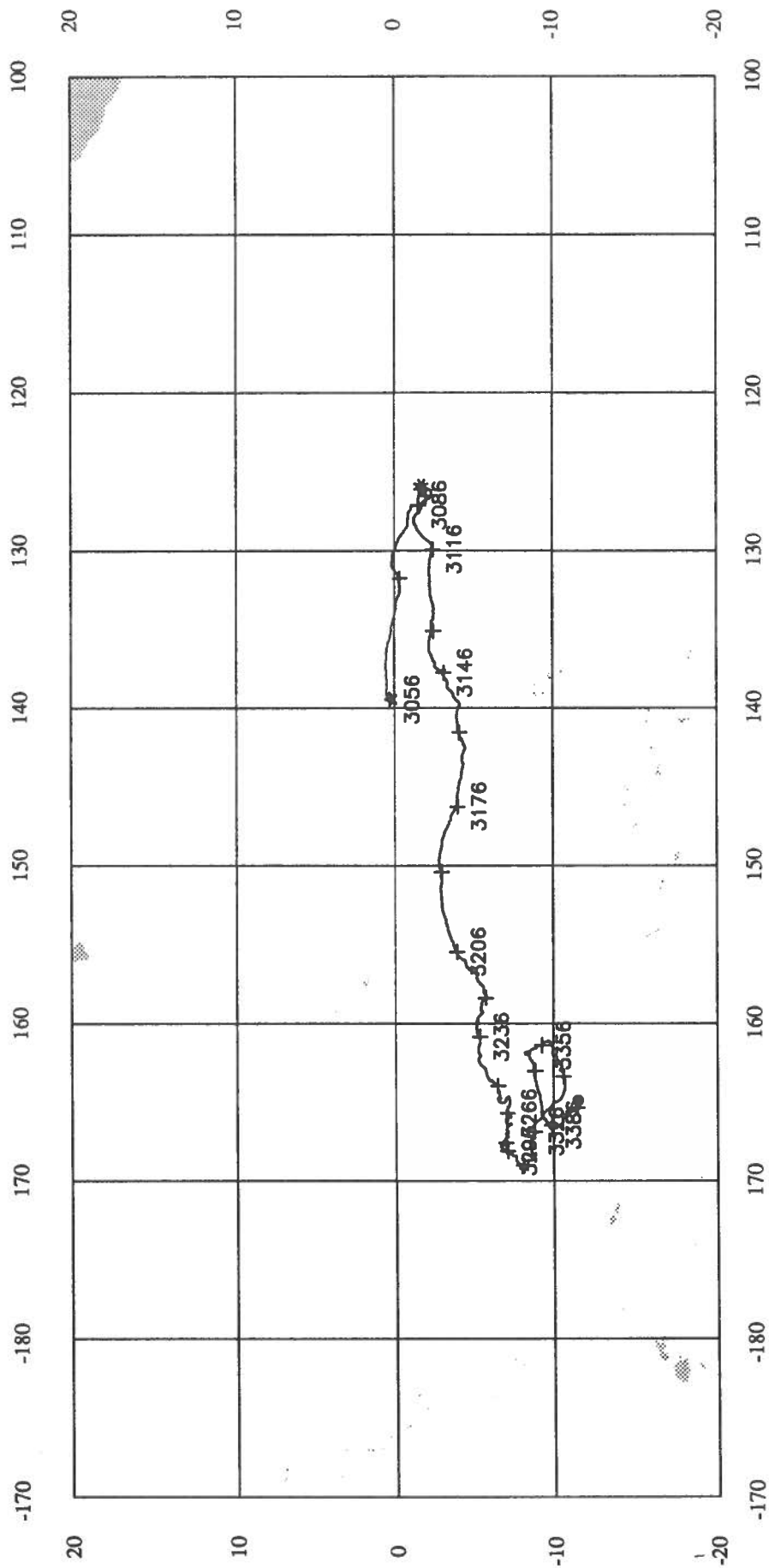
BUOY 4818



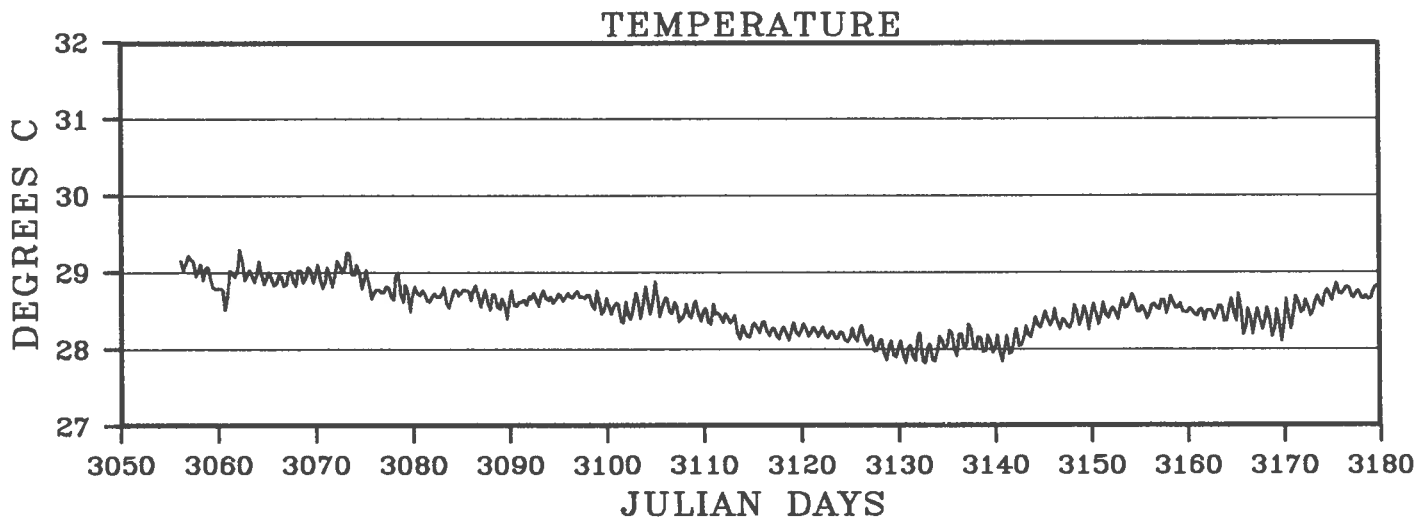
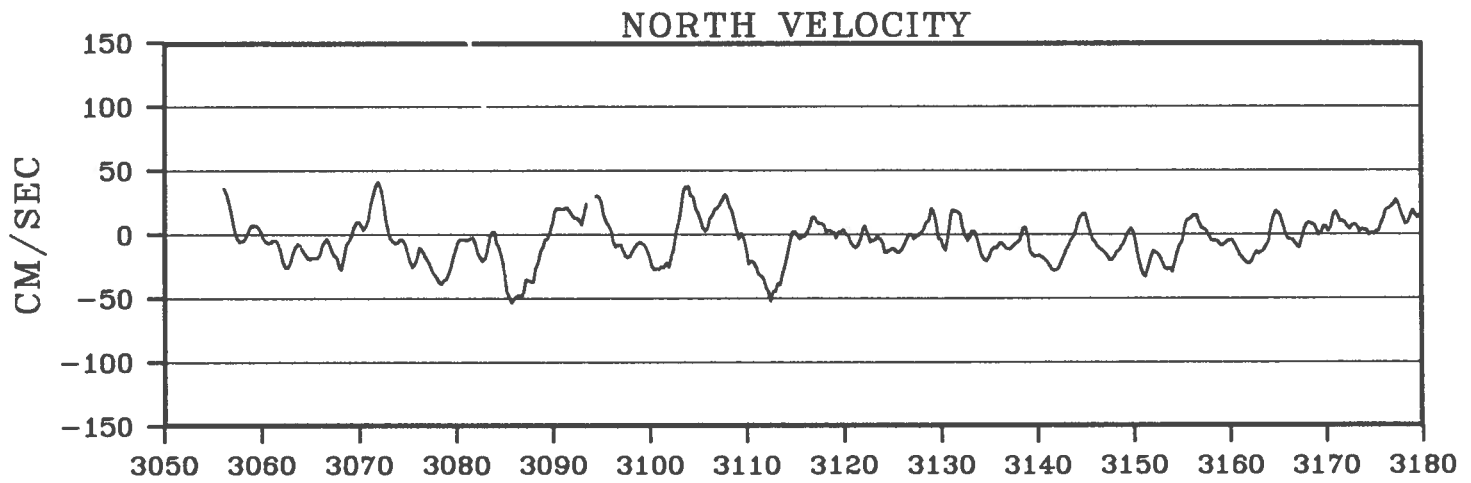
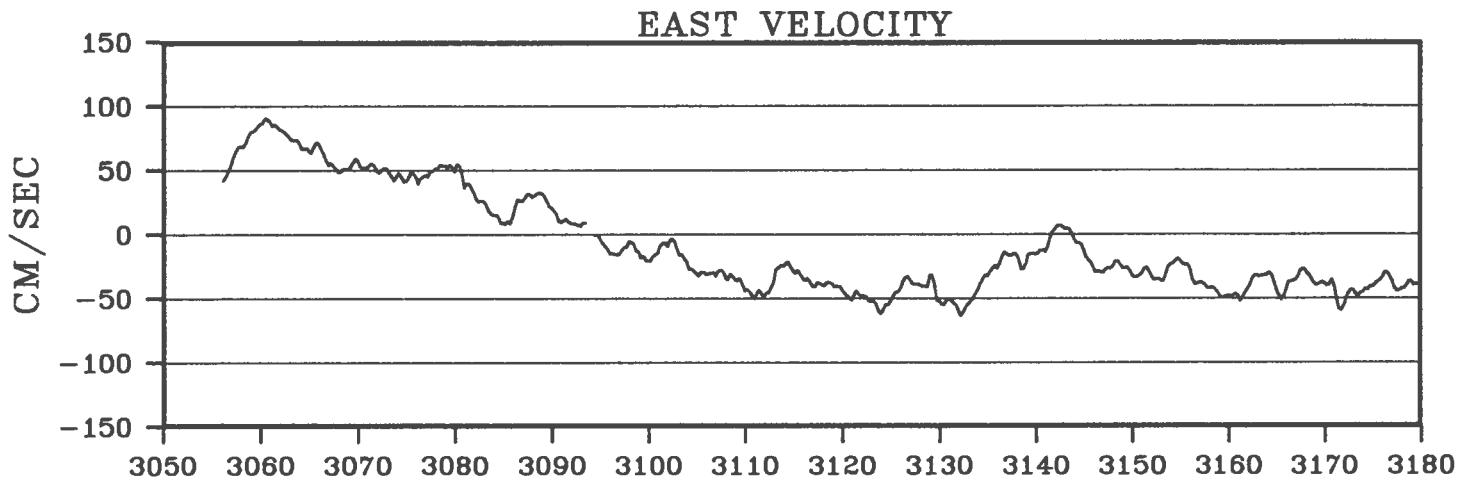
BUOY 4818



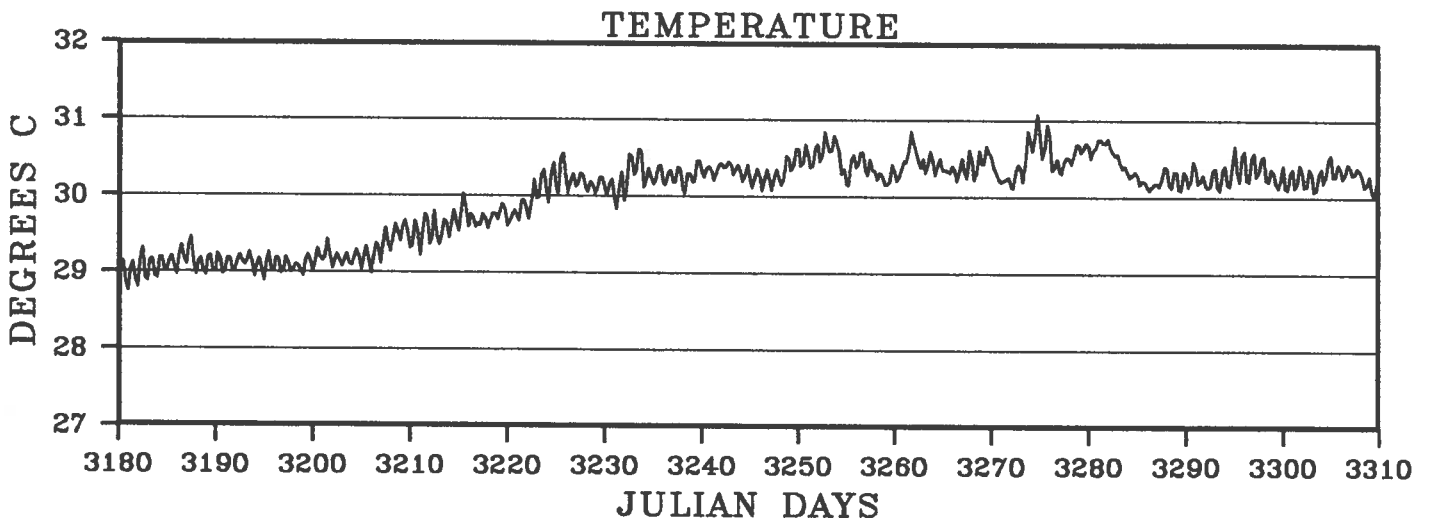
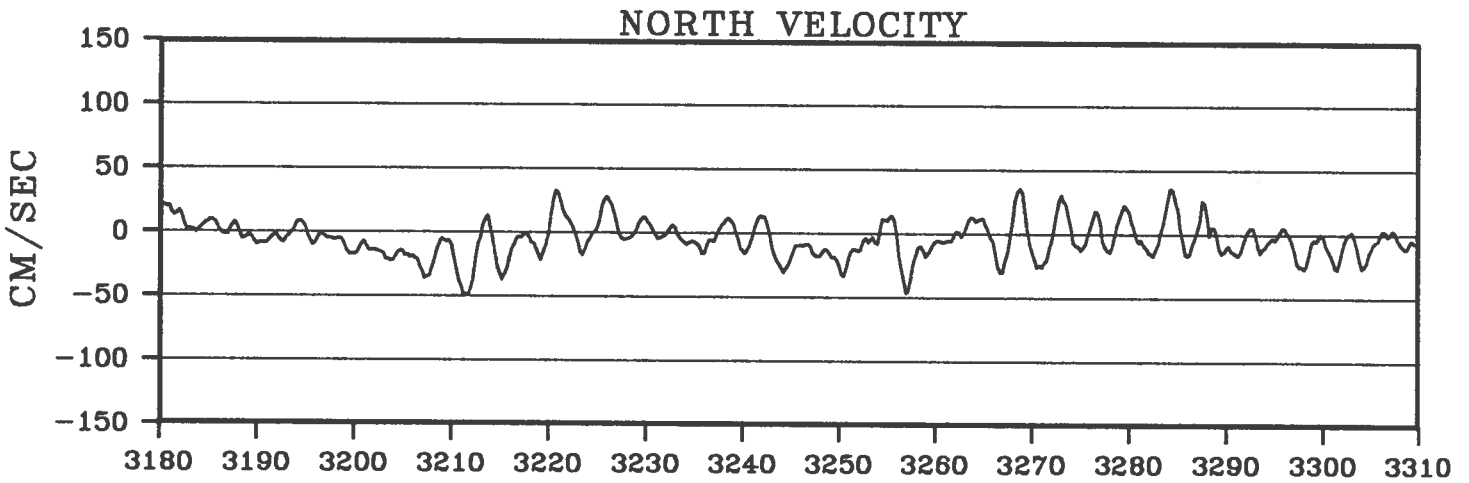
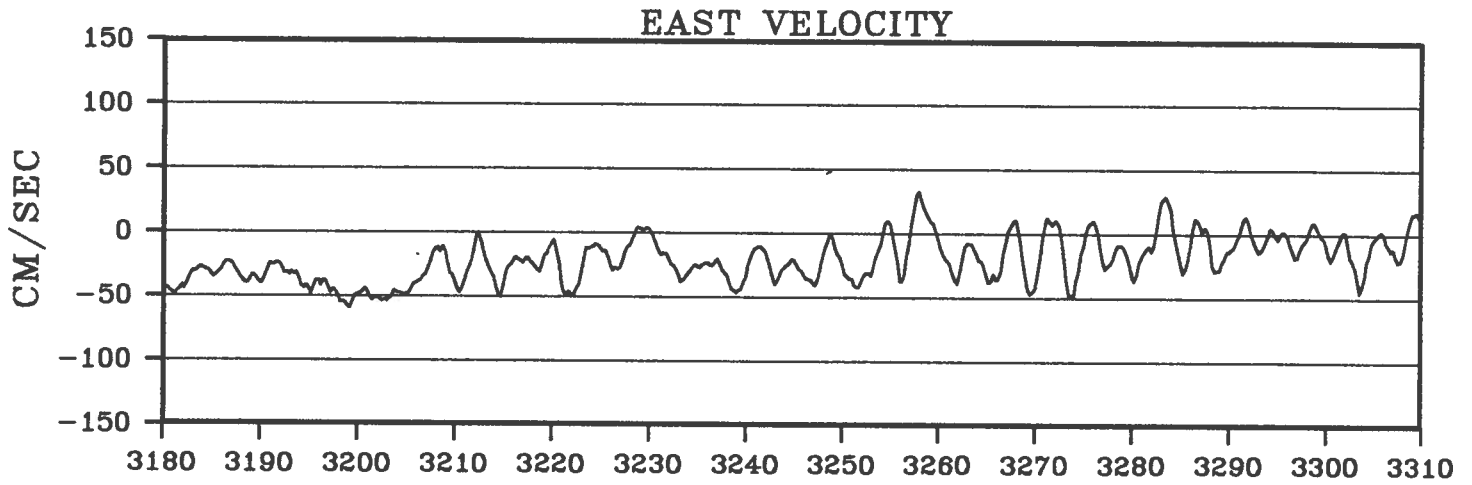
BUOY 4819



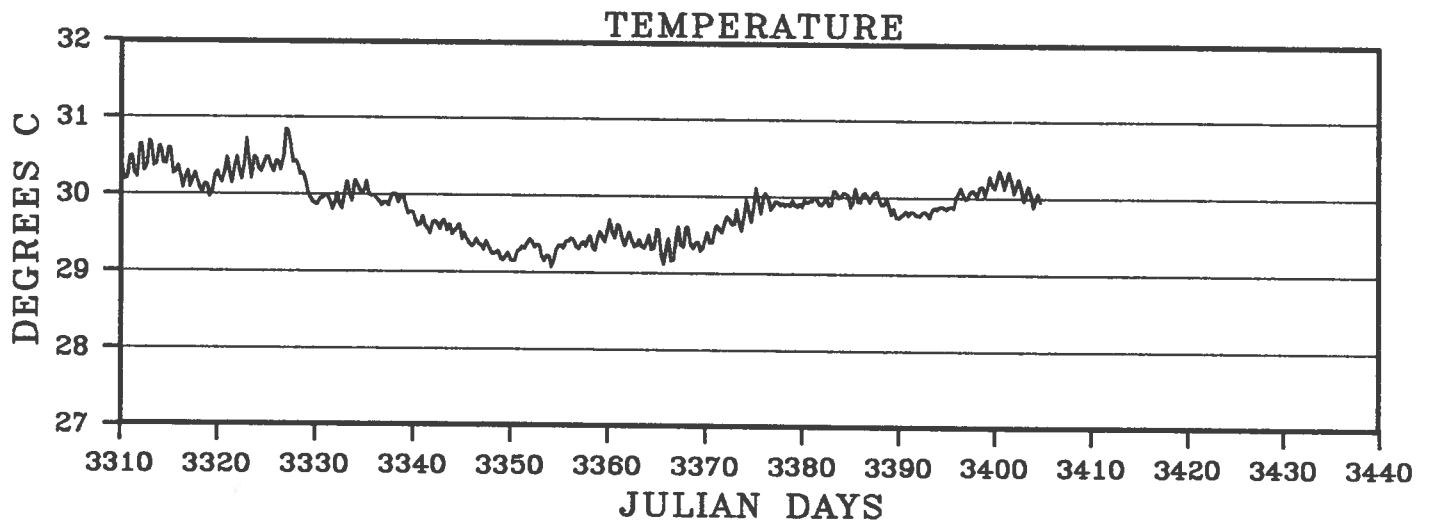
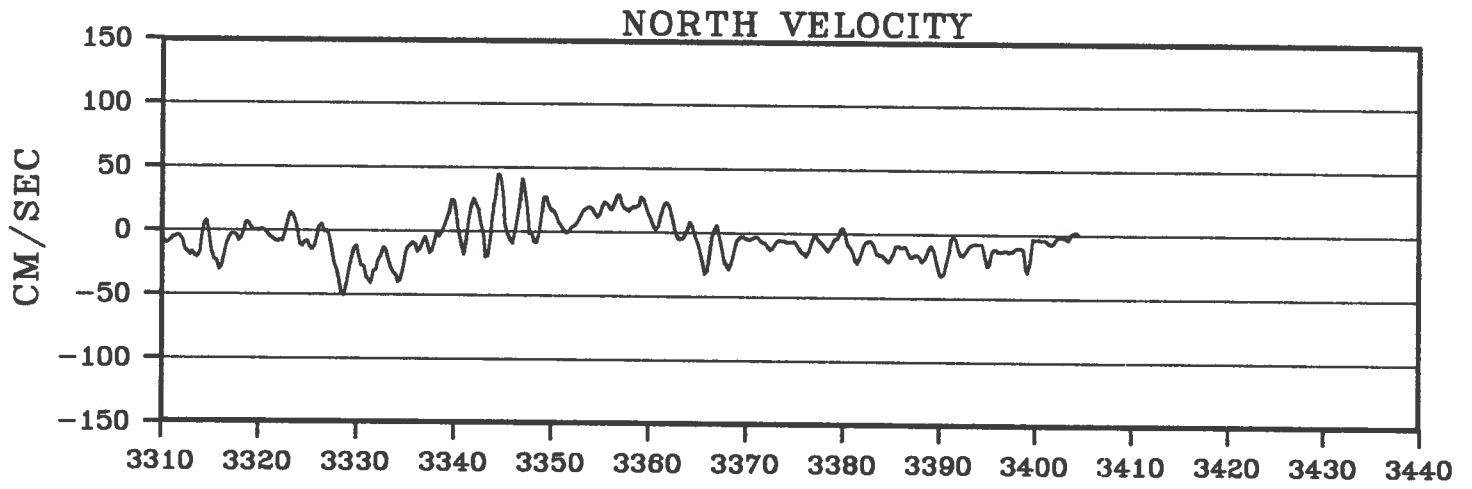
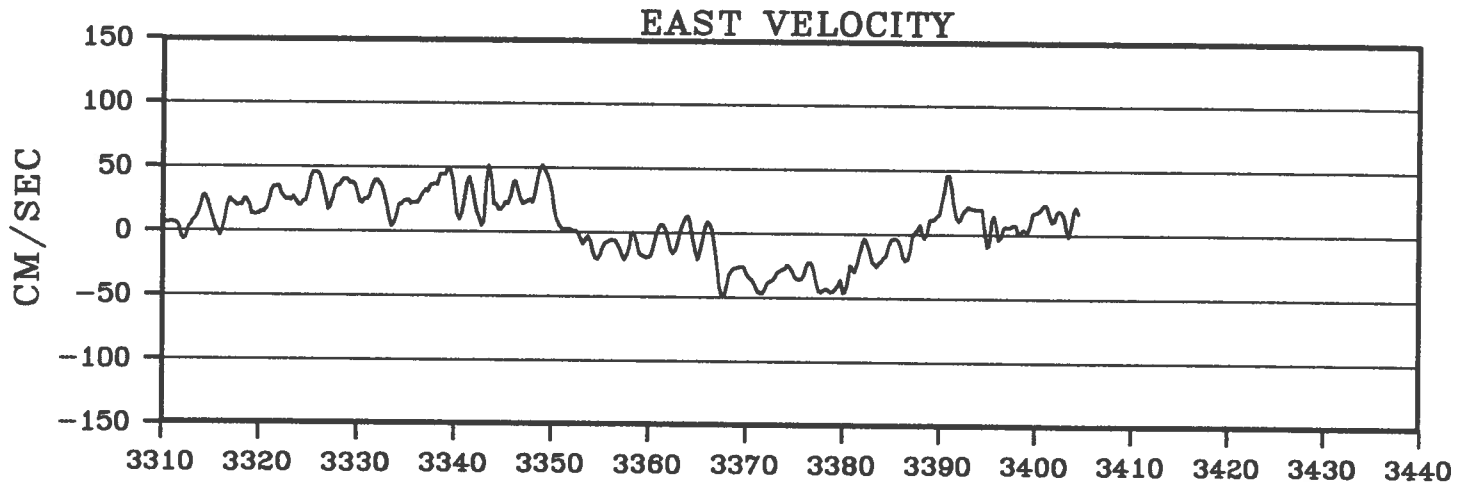
BUOY 4819



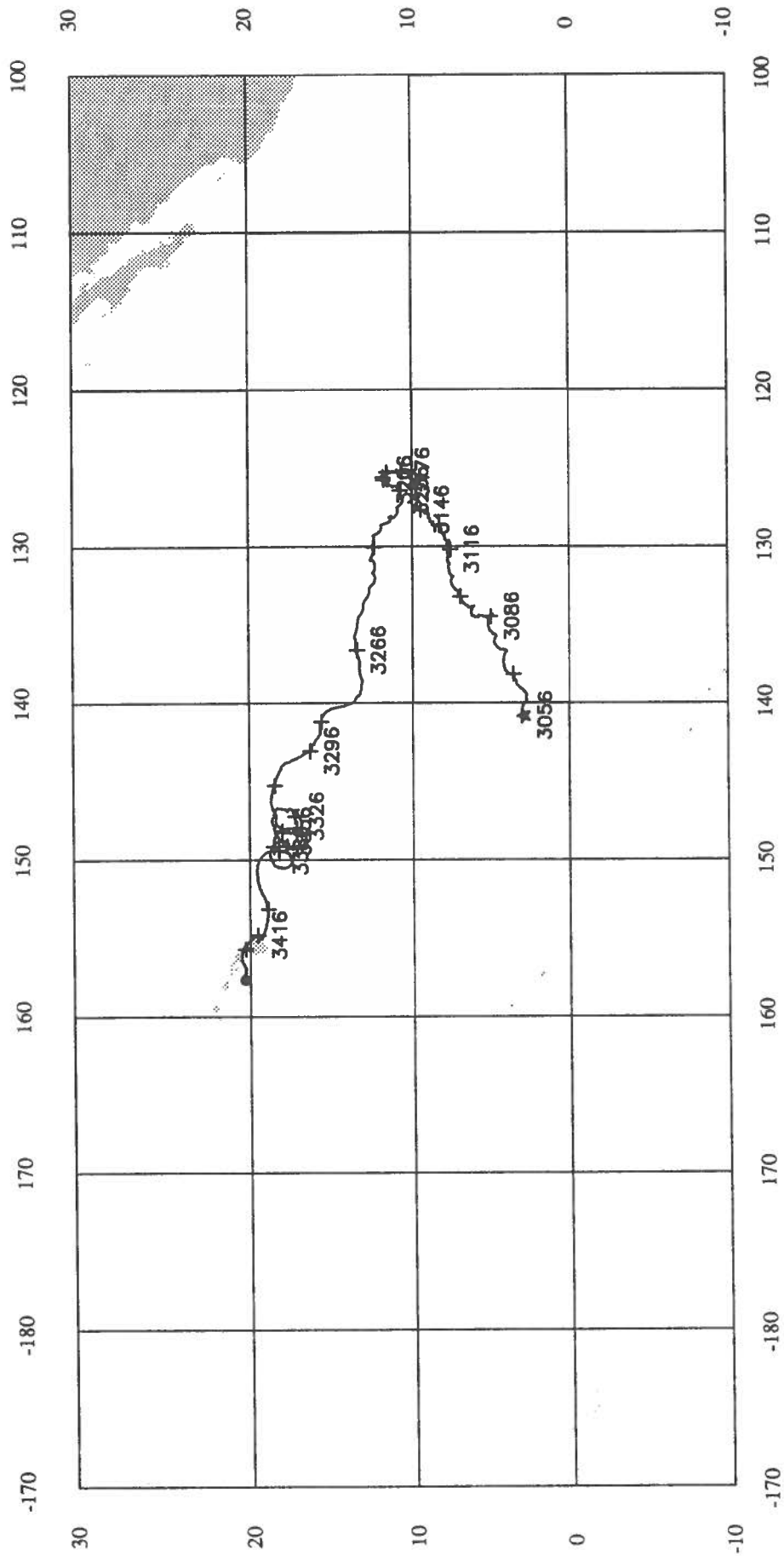
BUOY 4819



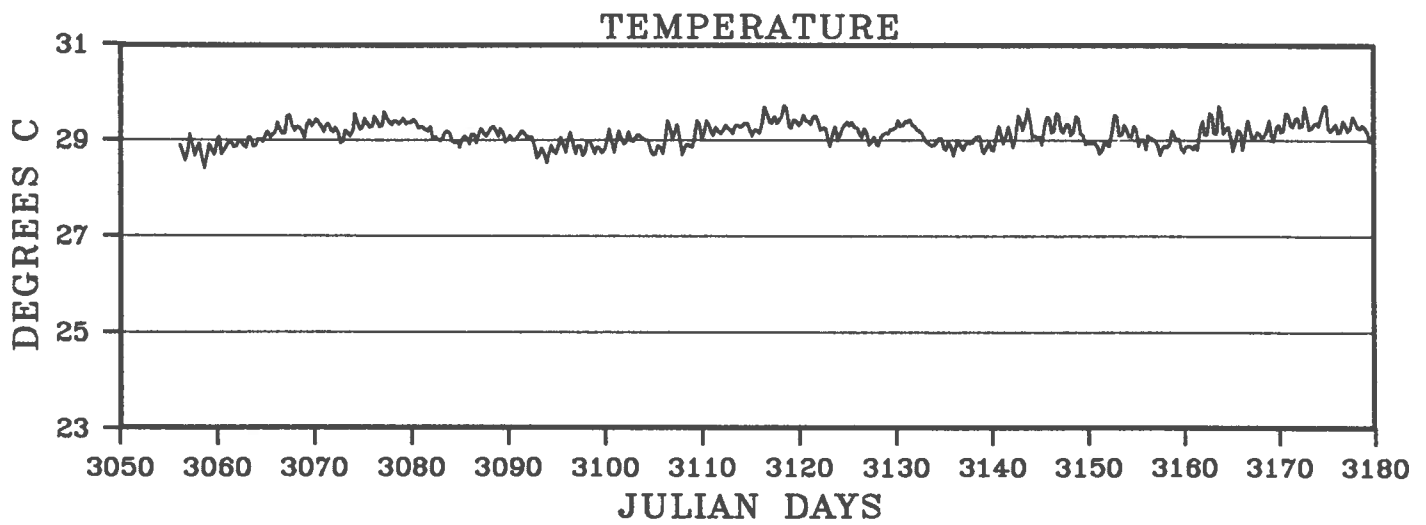
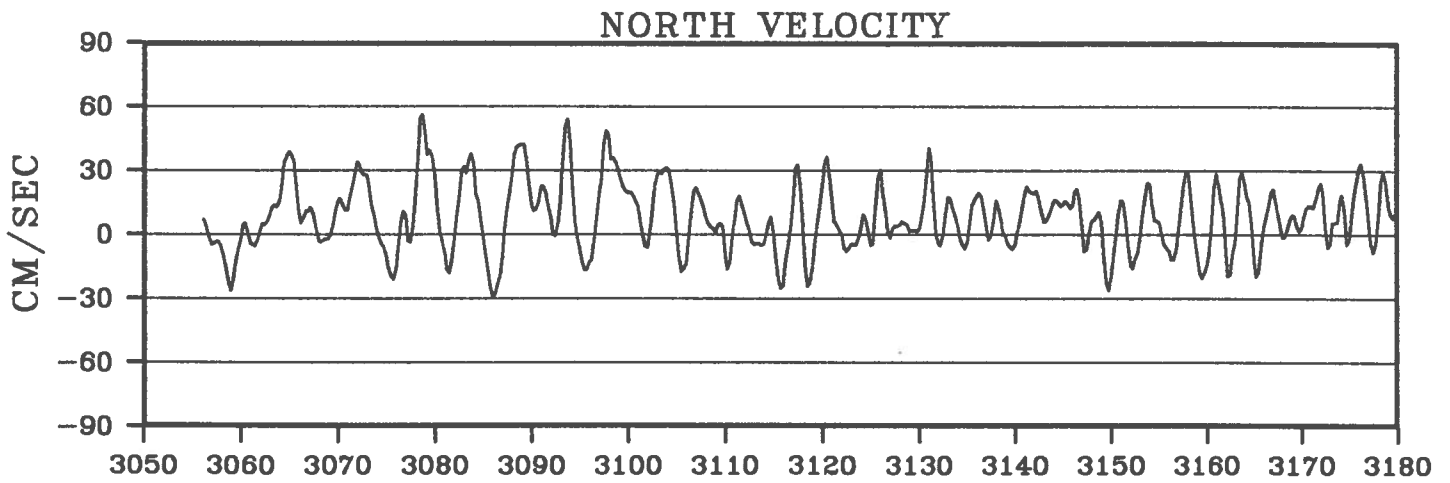
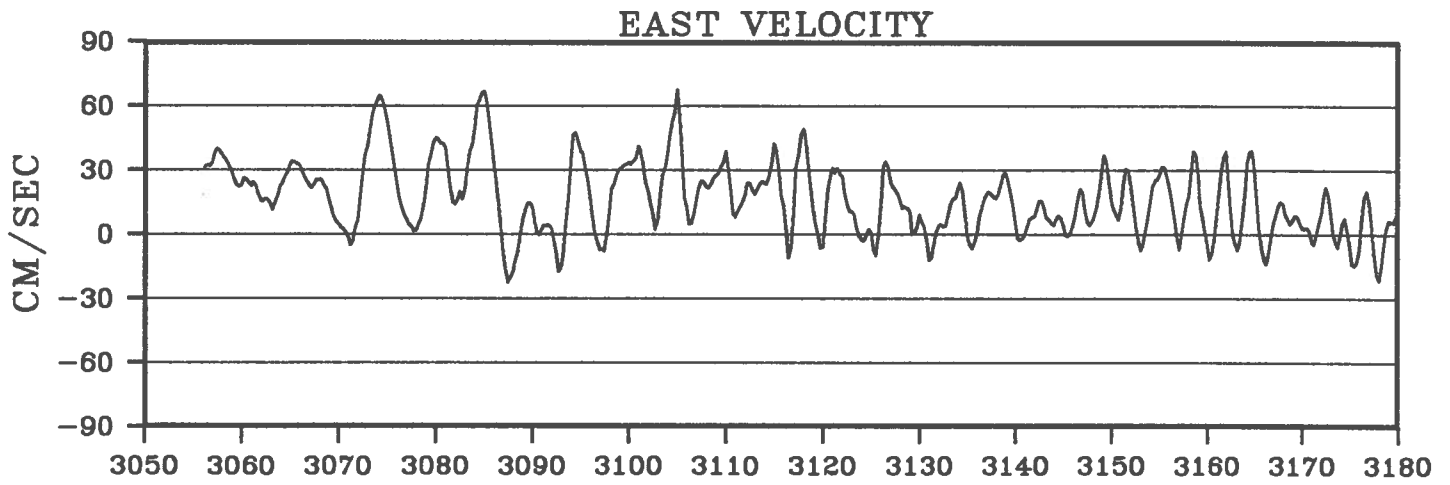
BUOY 4819



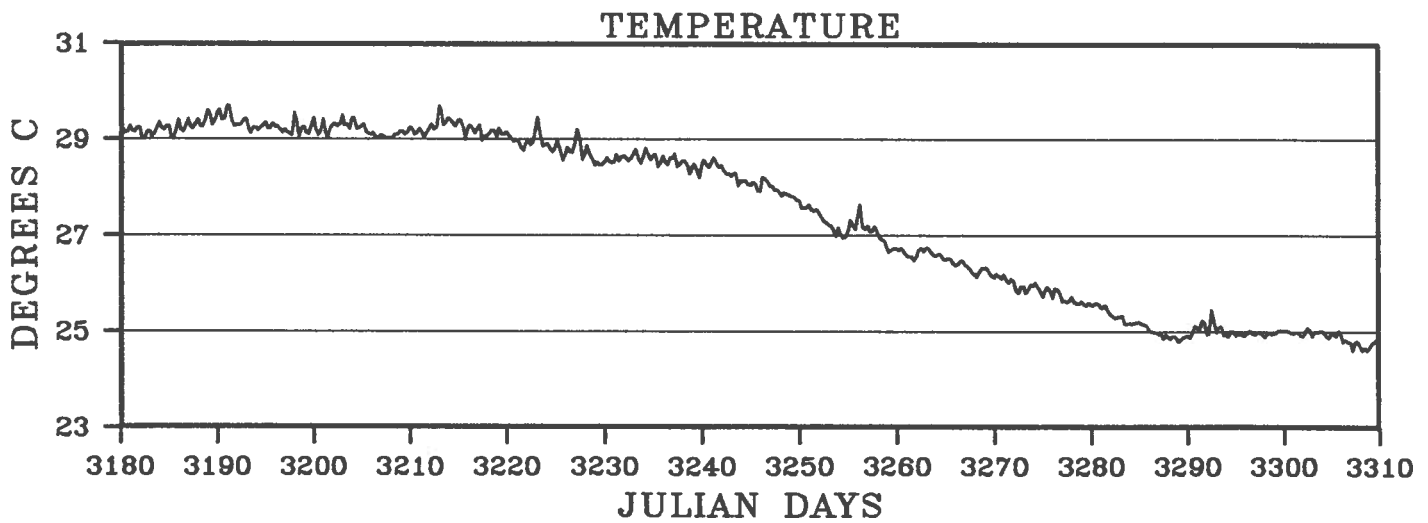
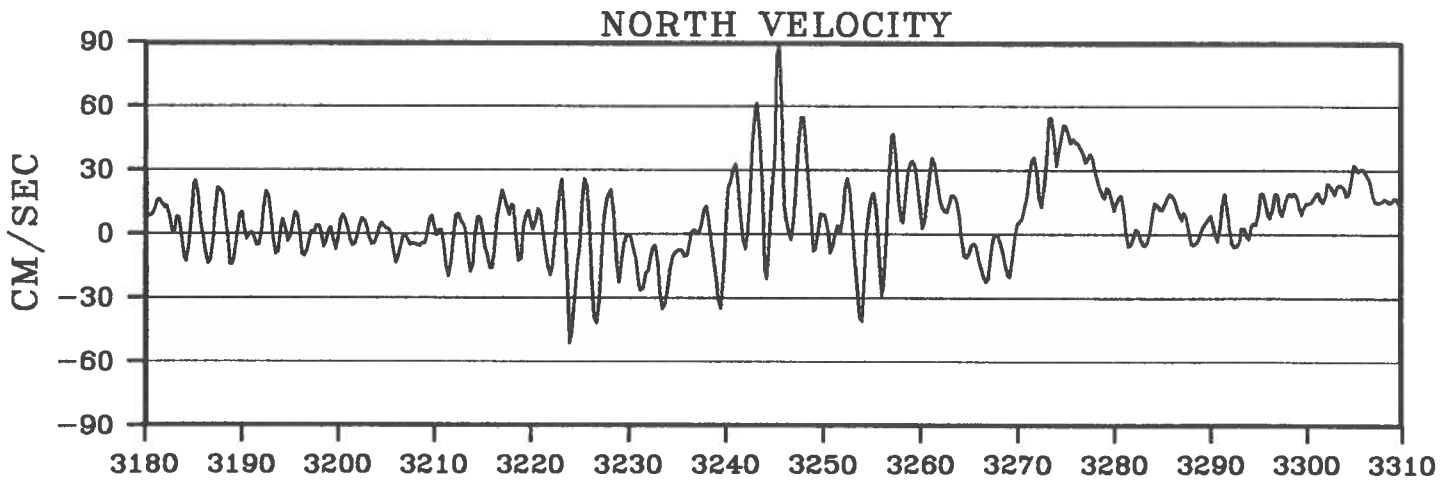
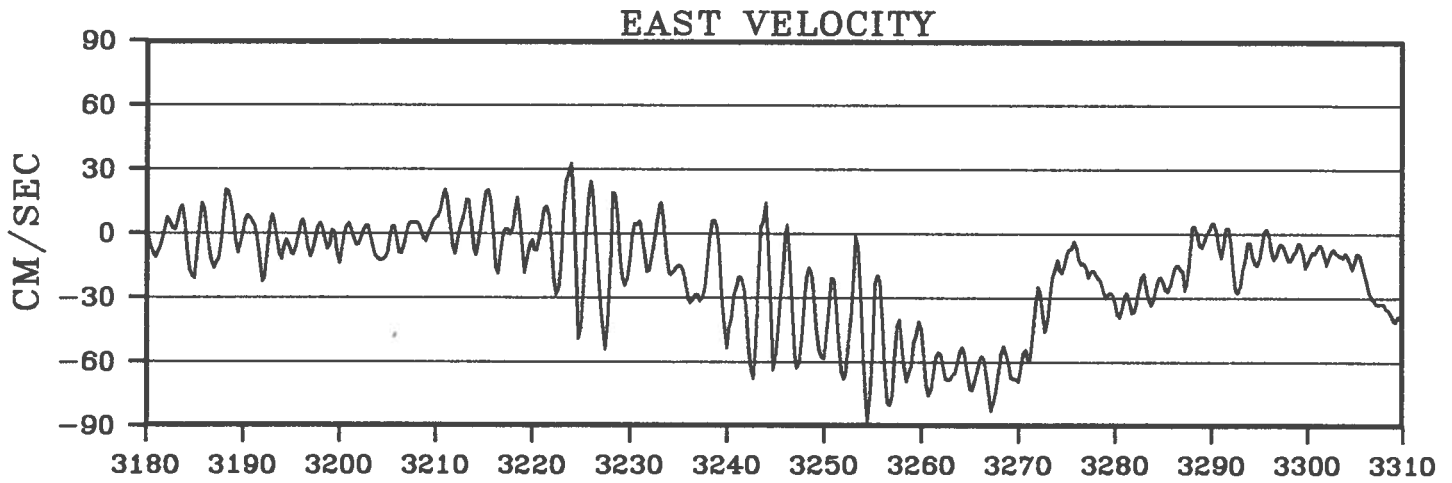
BUOY 4820



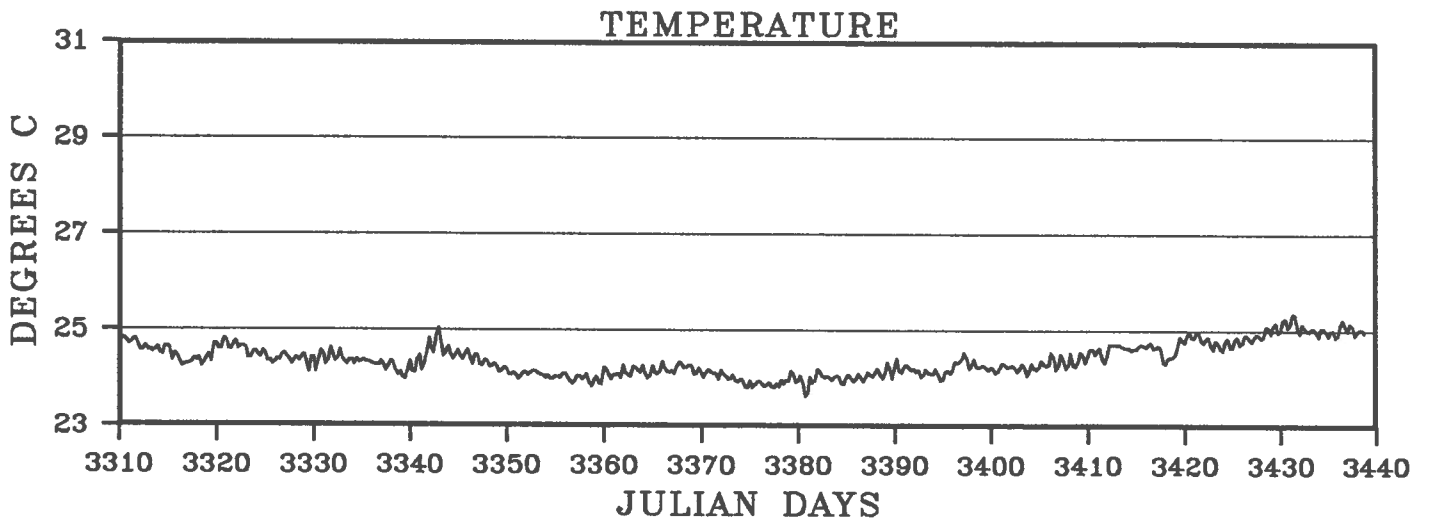
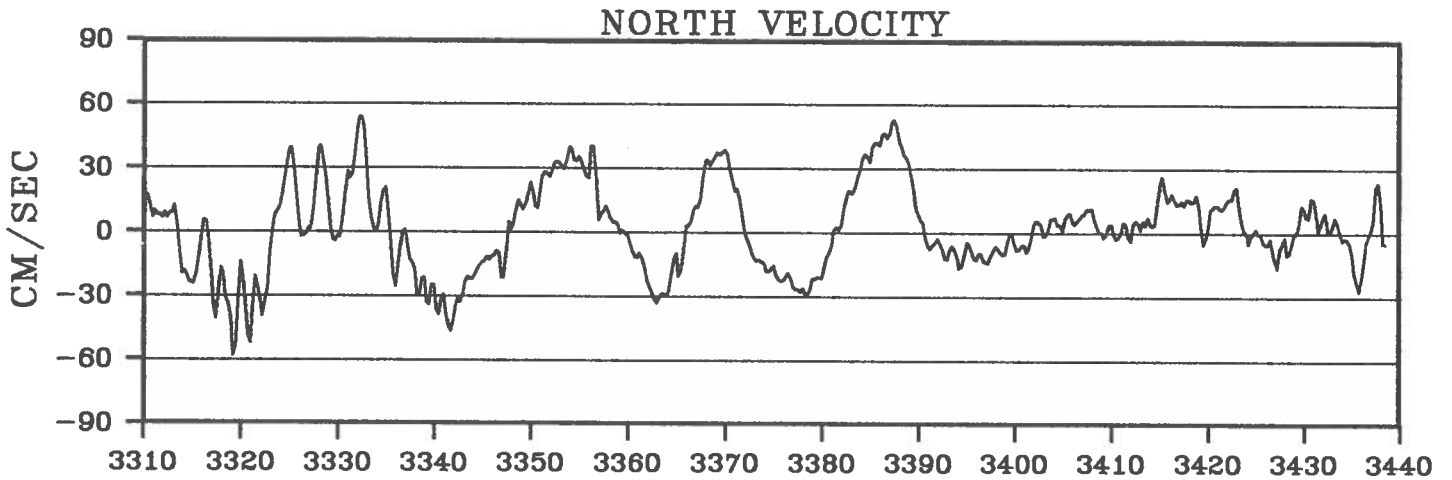
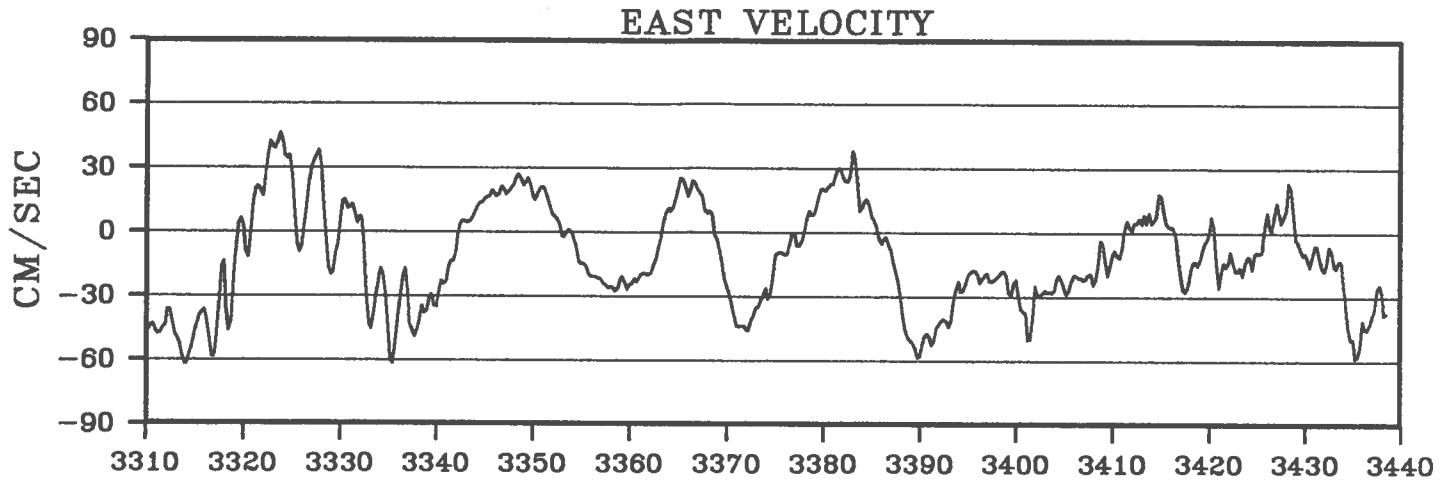
BUOY 4820



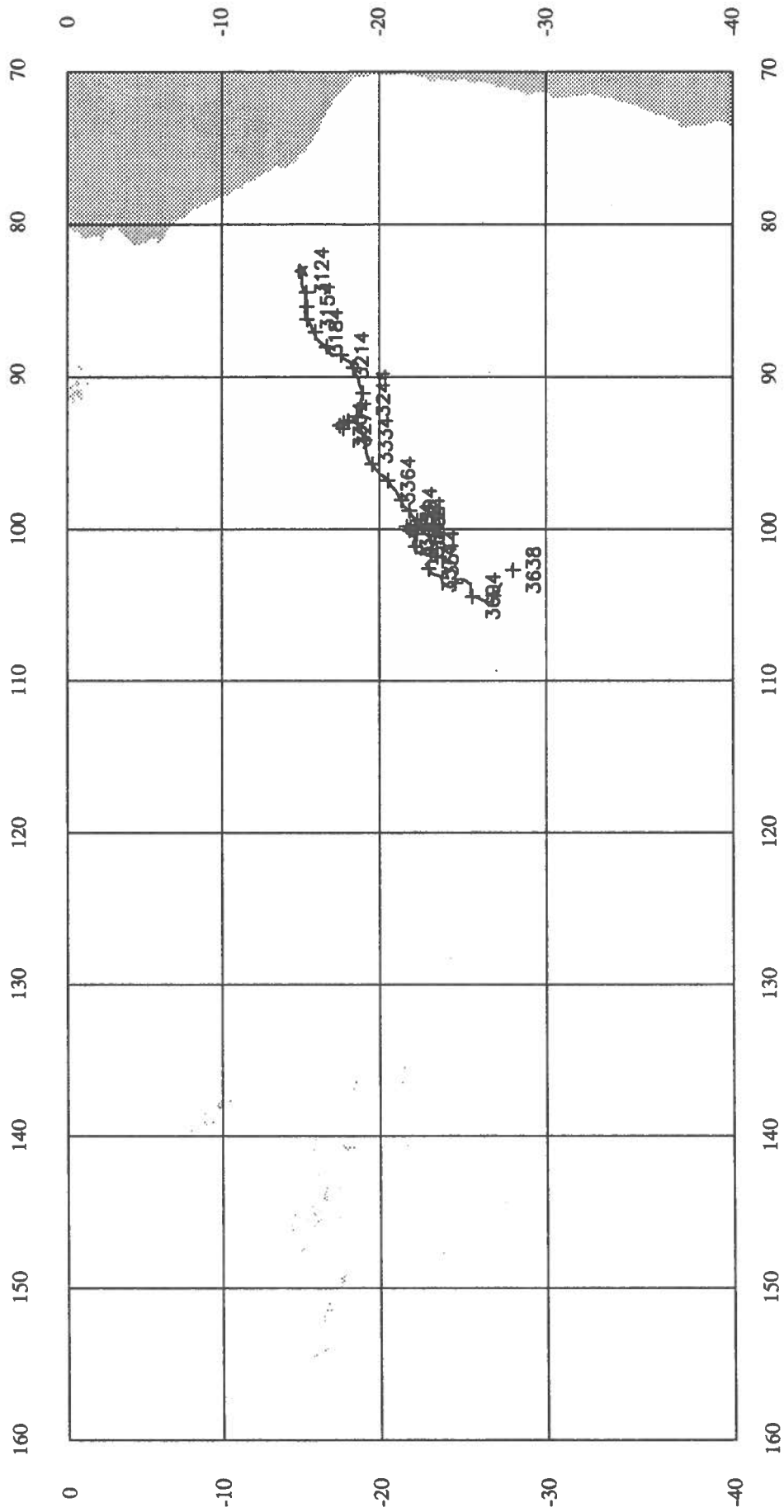
BUOY 4820



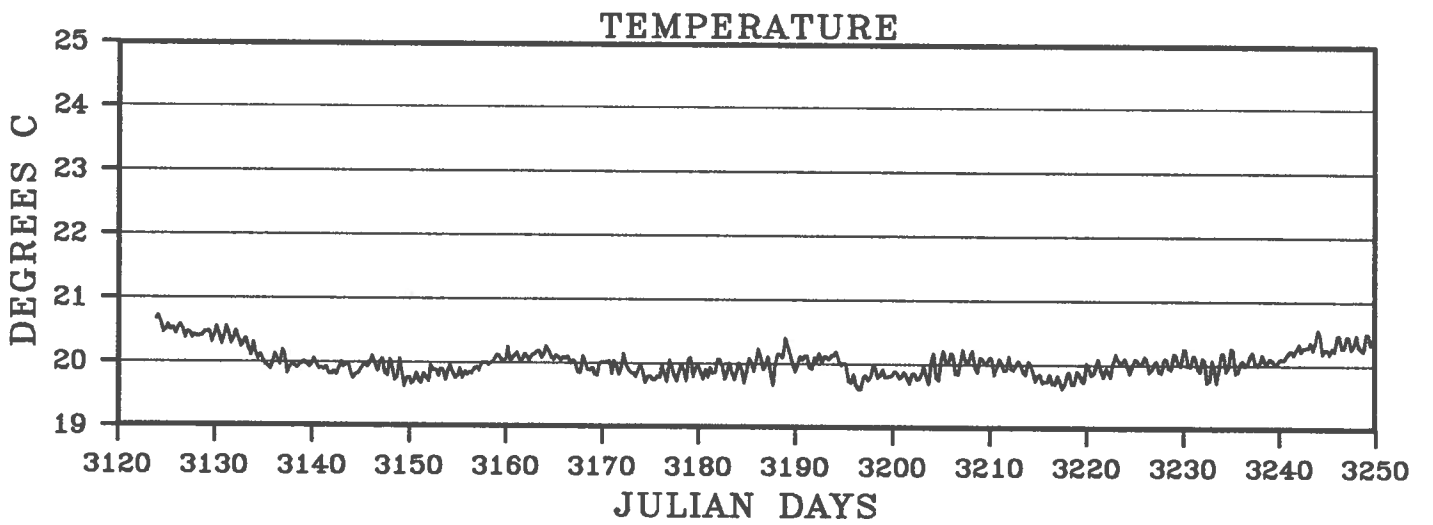
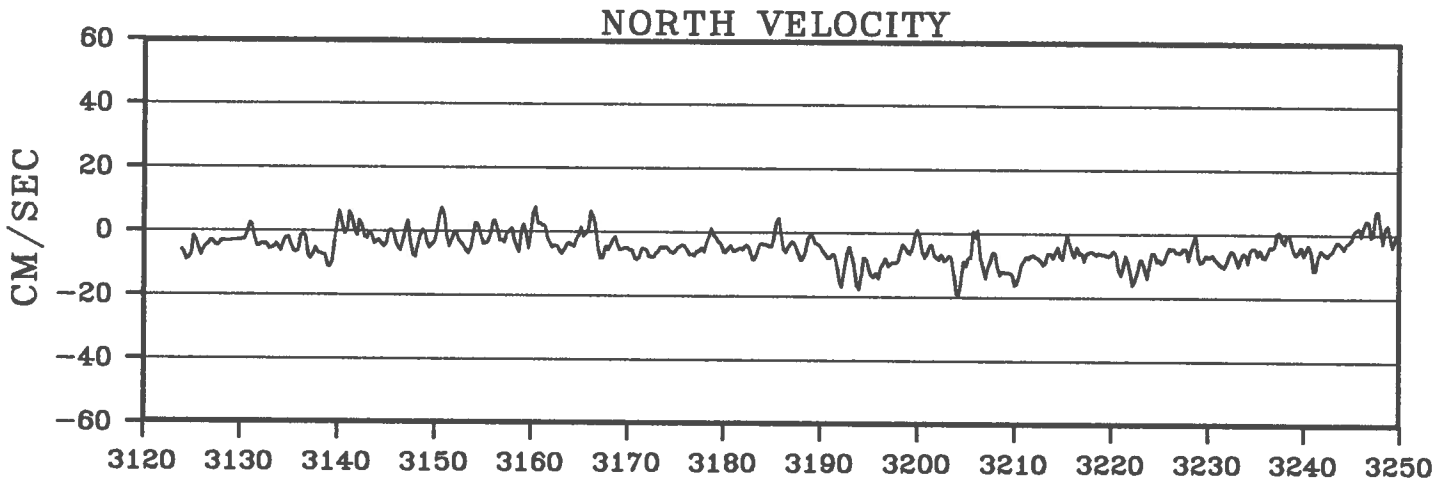
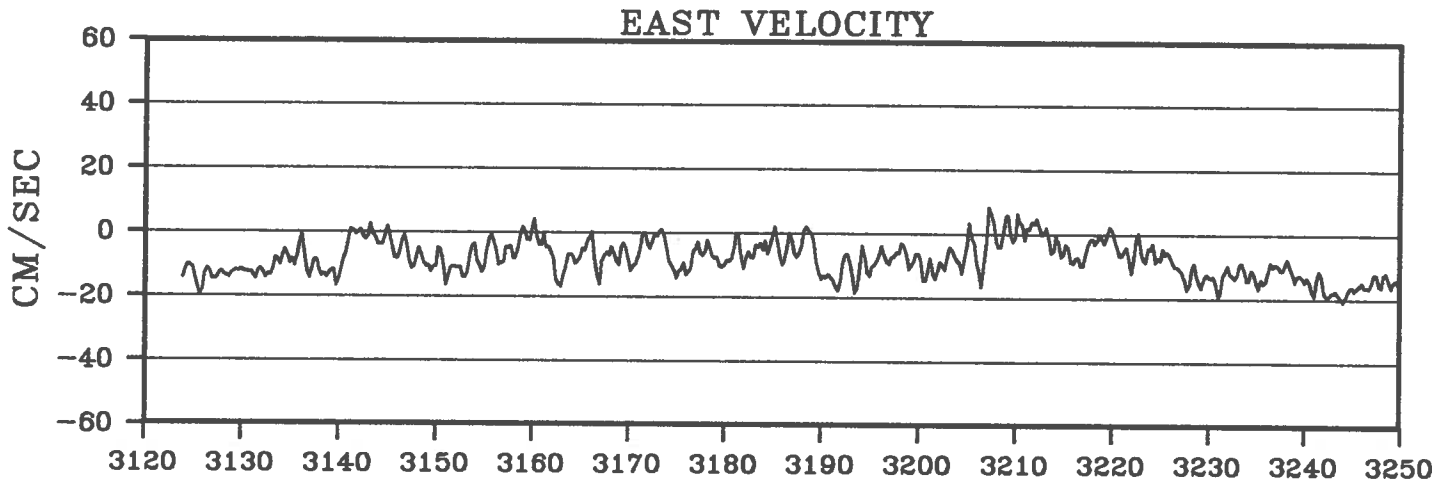
BUOY 4820



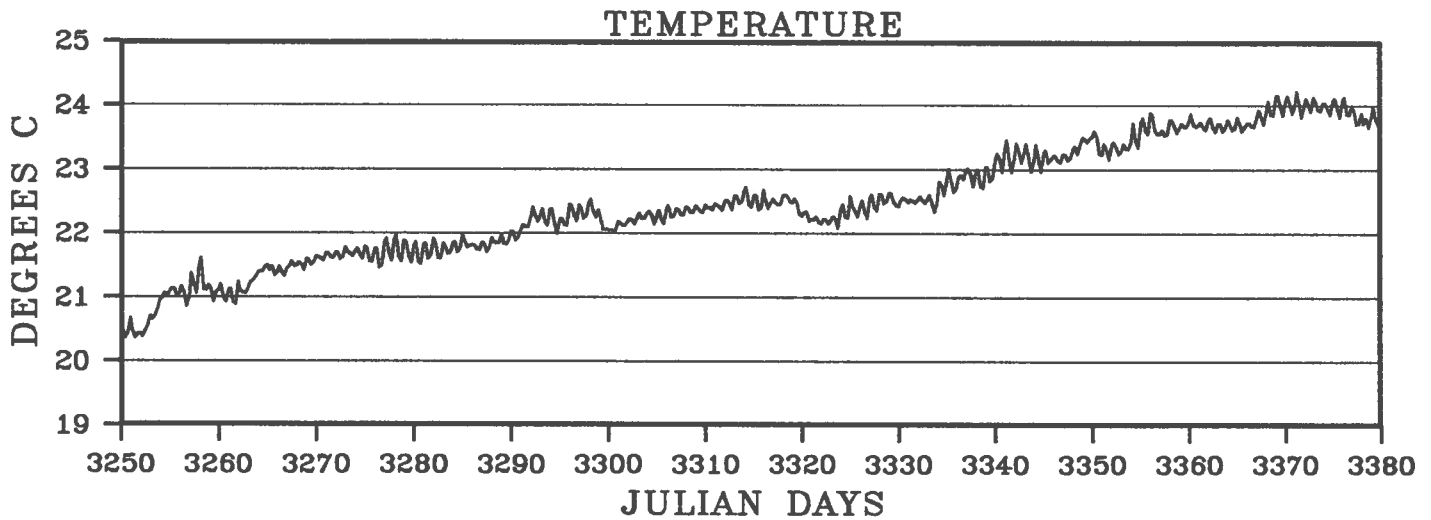
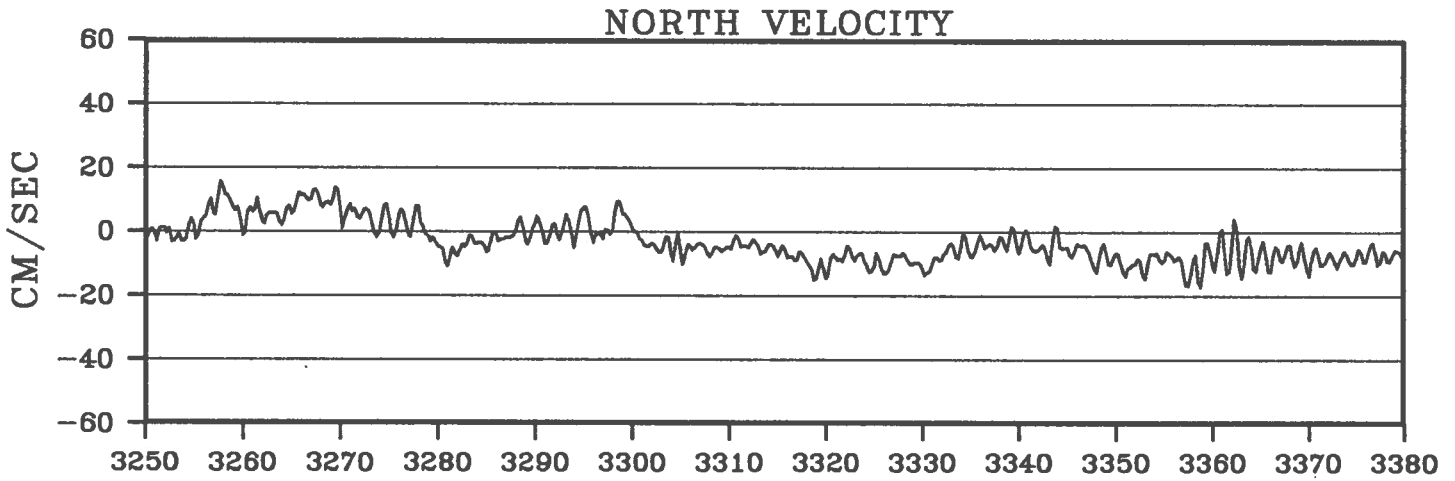
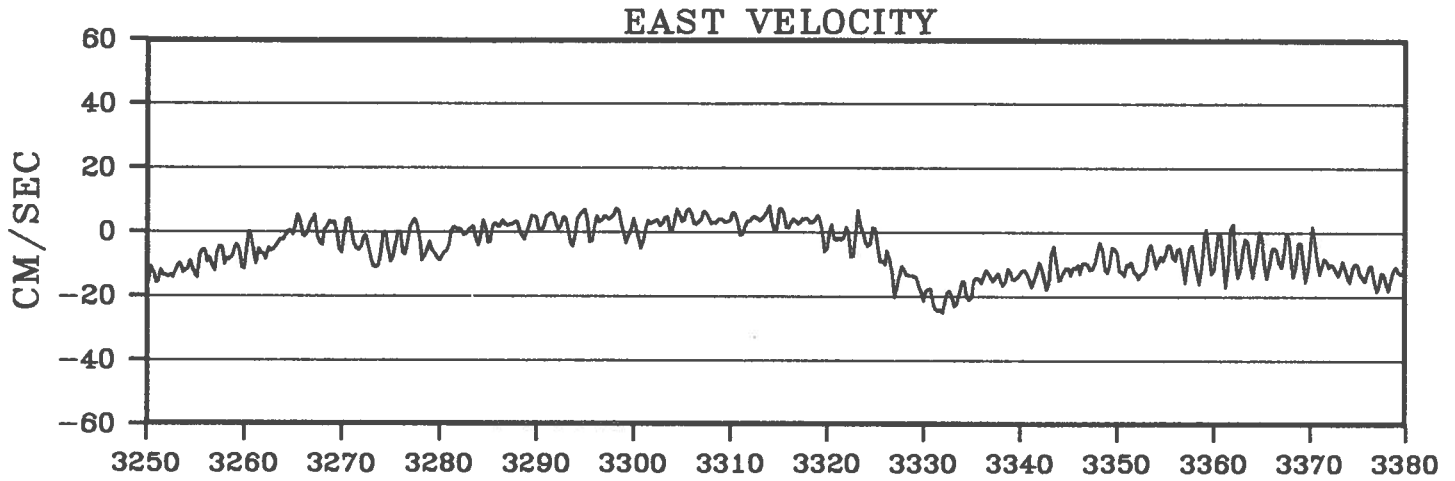
BUOY 4821



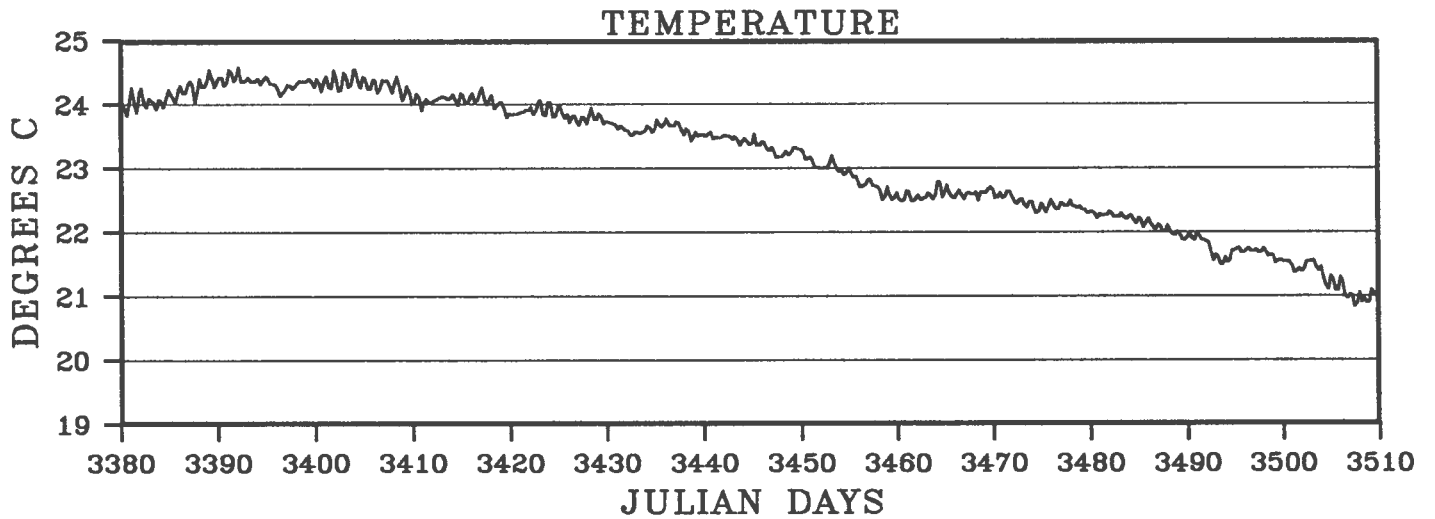
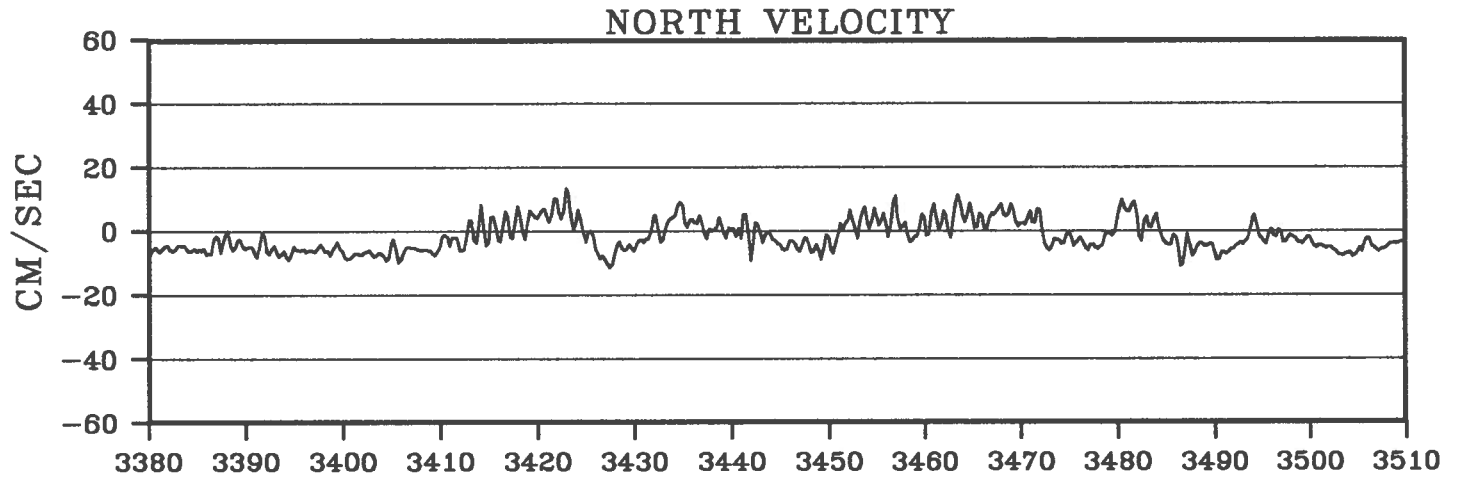
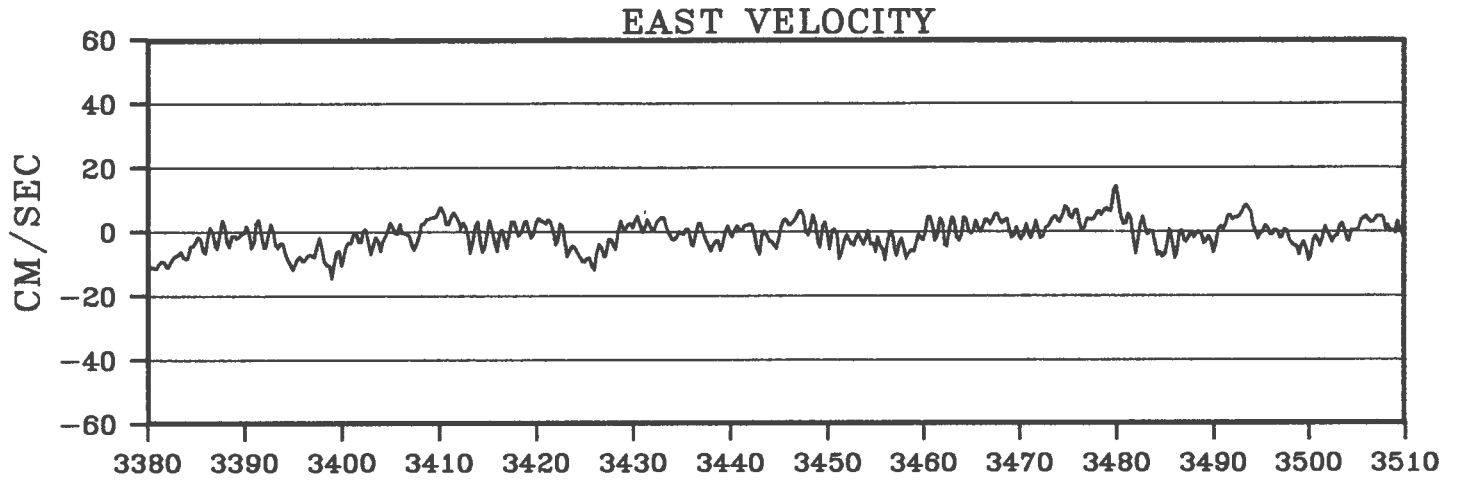
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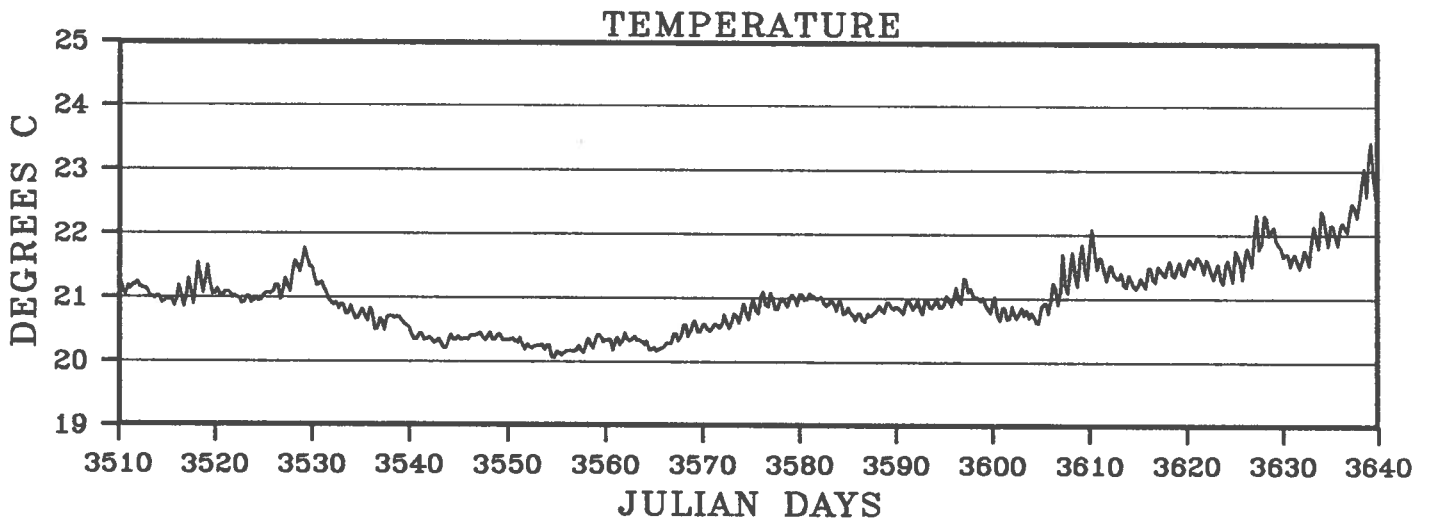
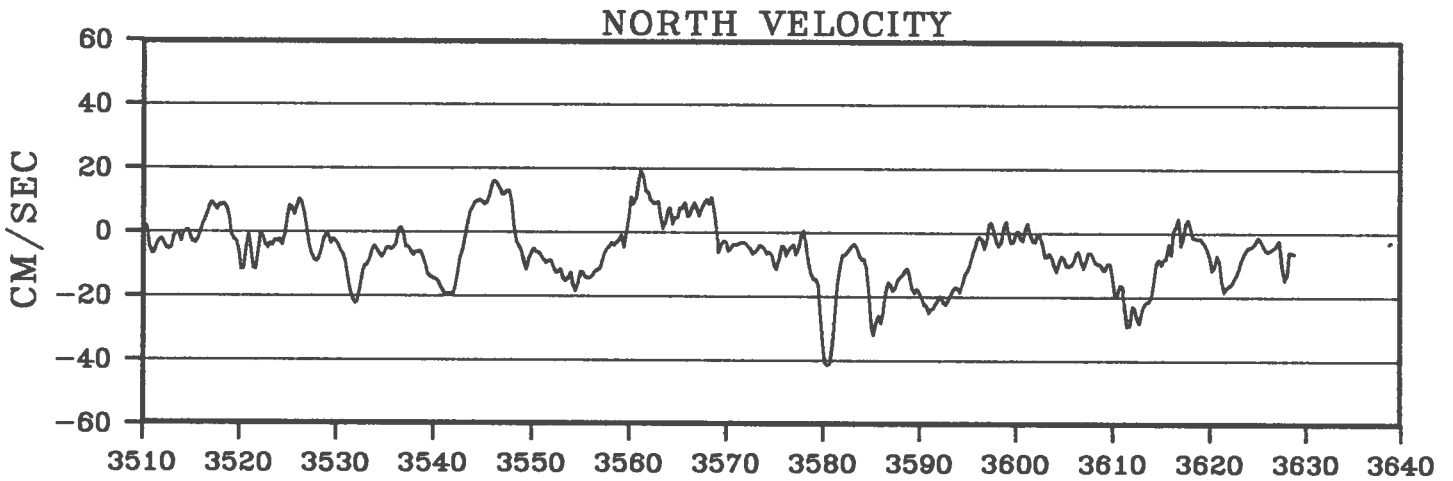
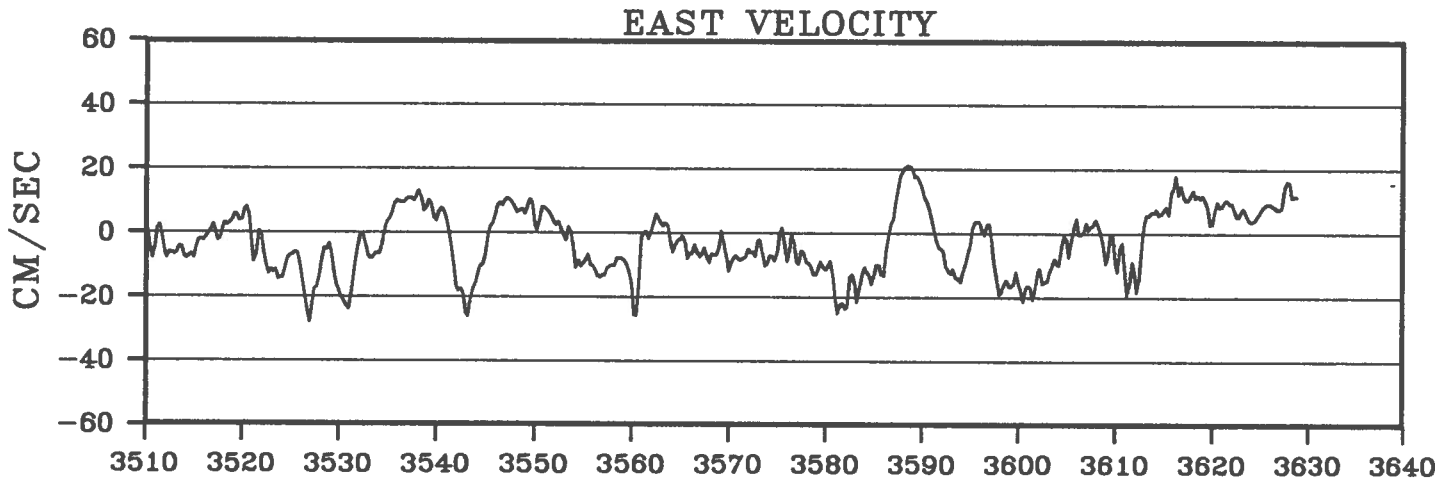
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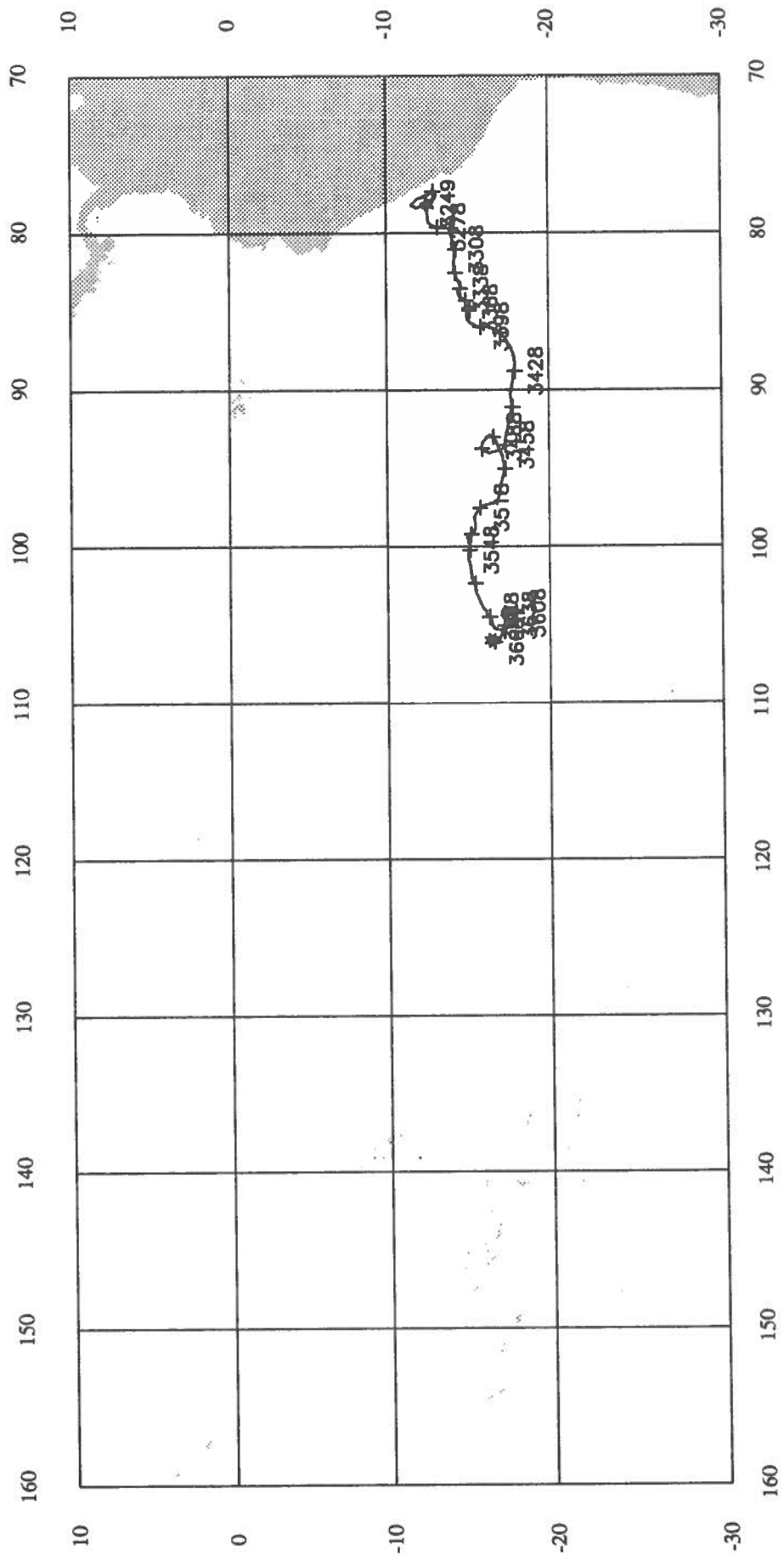
BUOY 4821



BUOY 4821

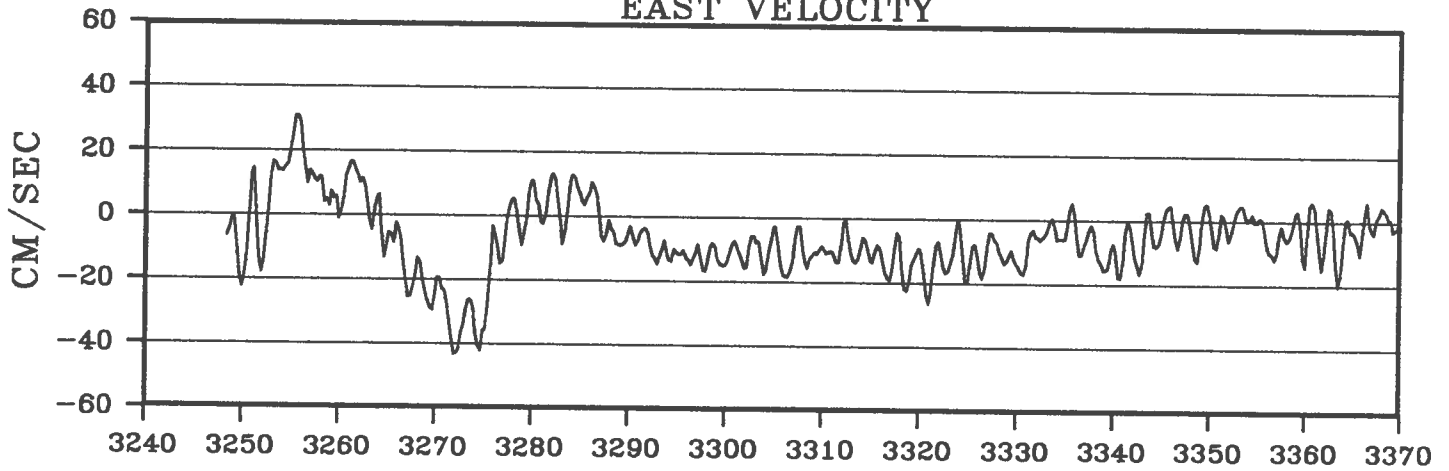


BUOY 4822

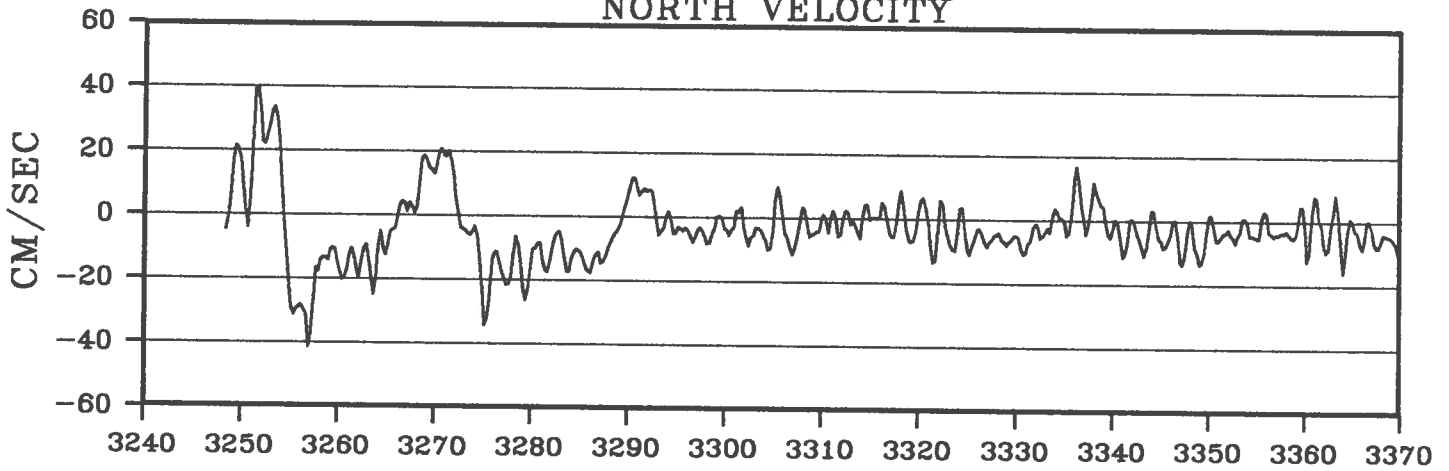


BUOY 4822

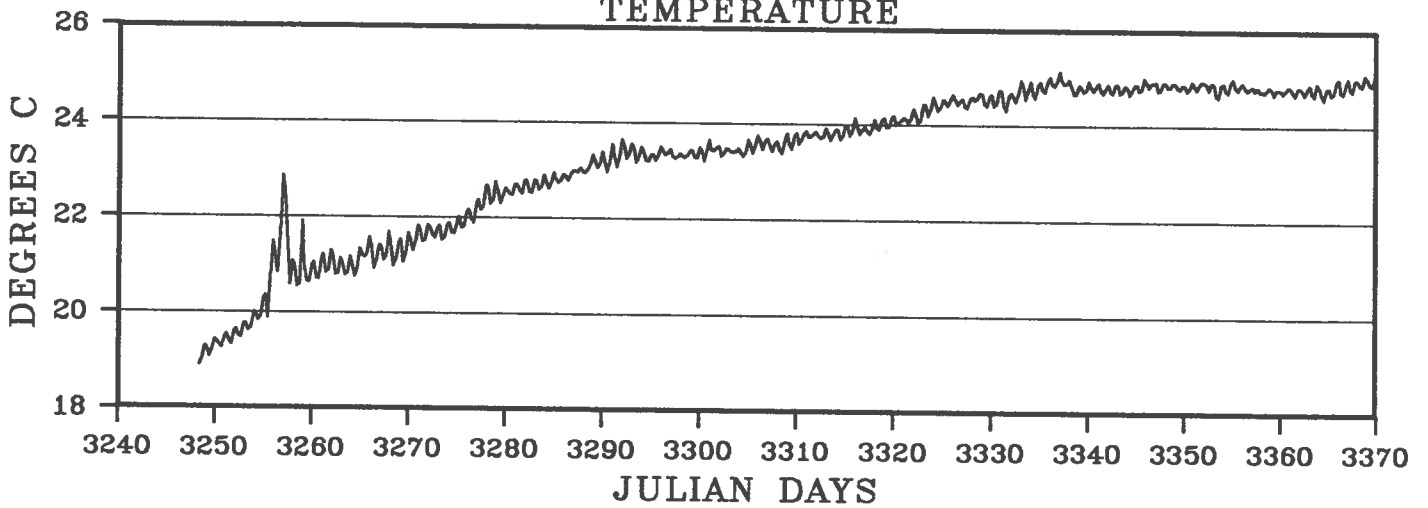
EAST VELOCITY



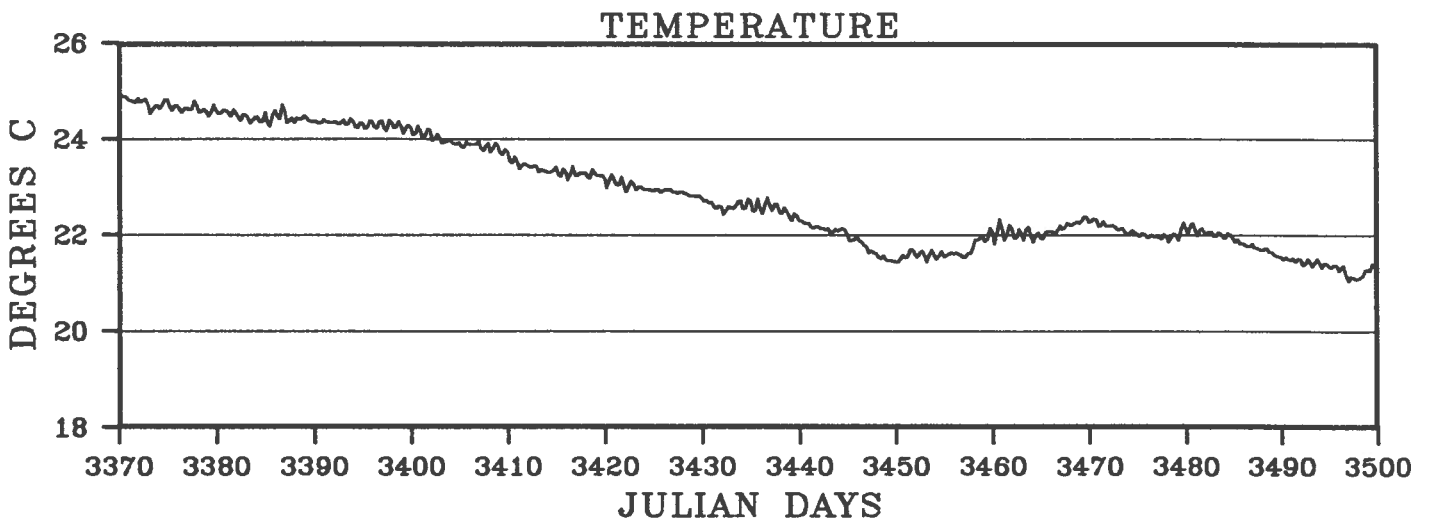
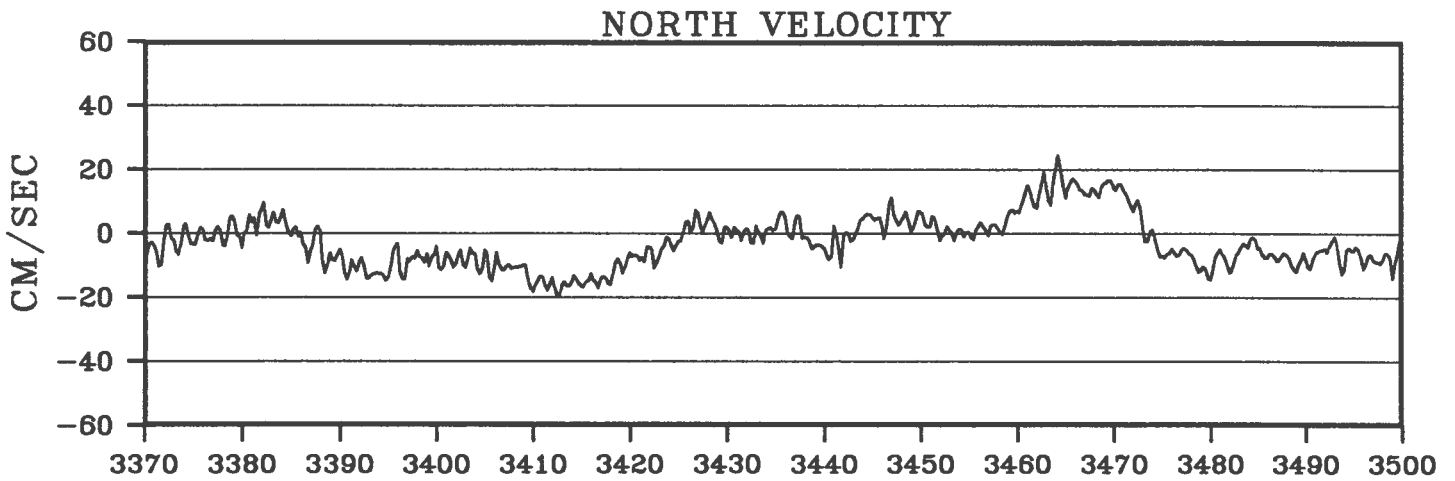
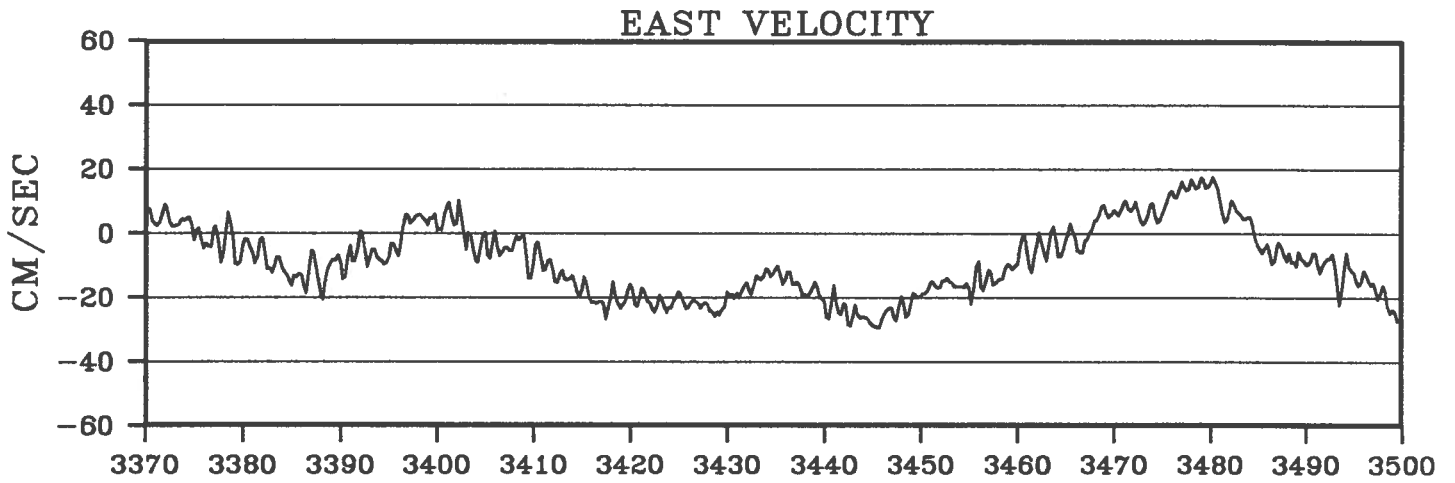
NORTH VELOCITY



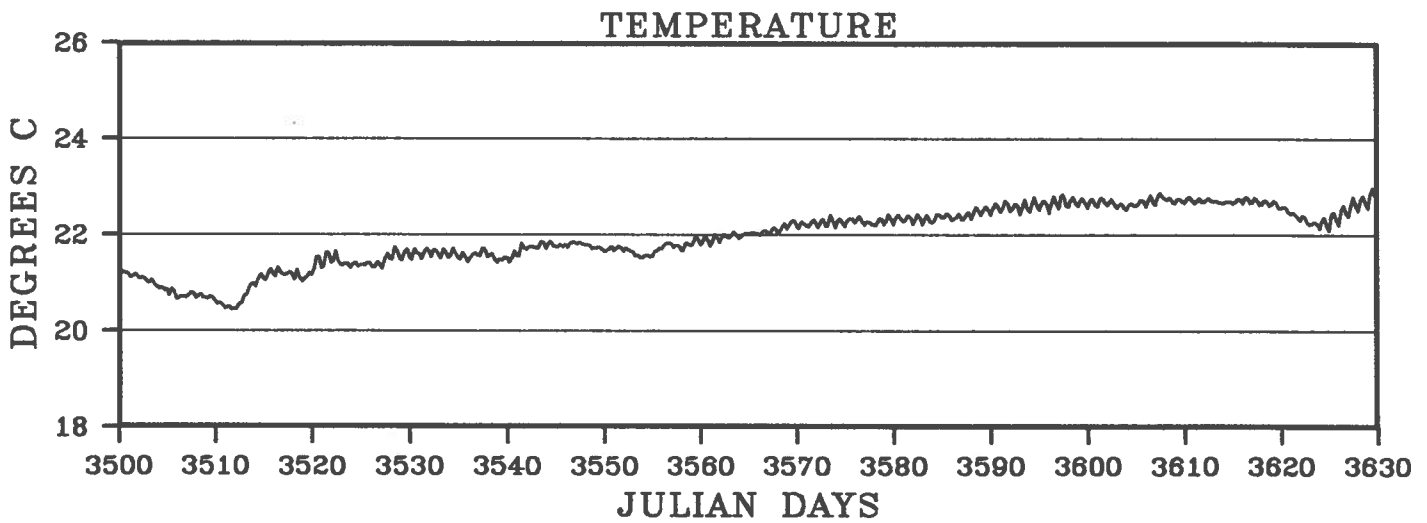
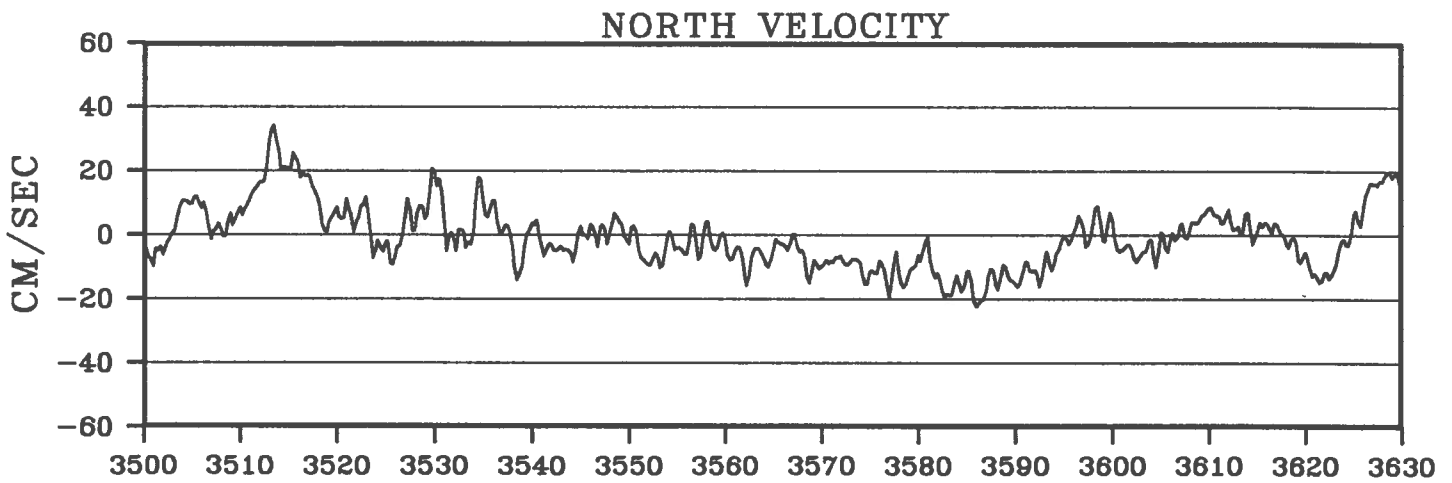
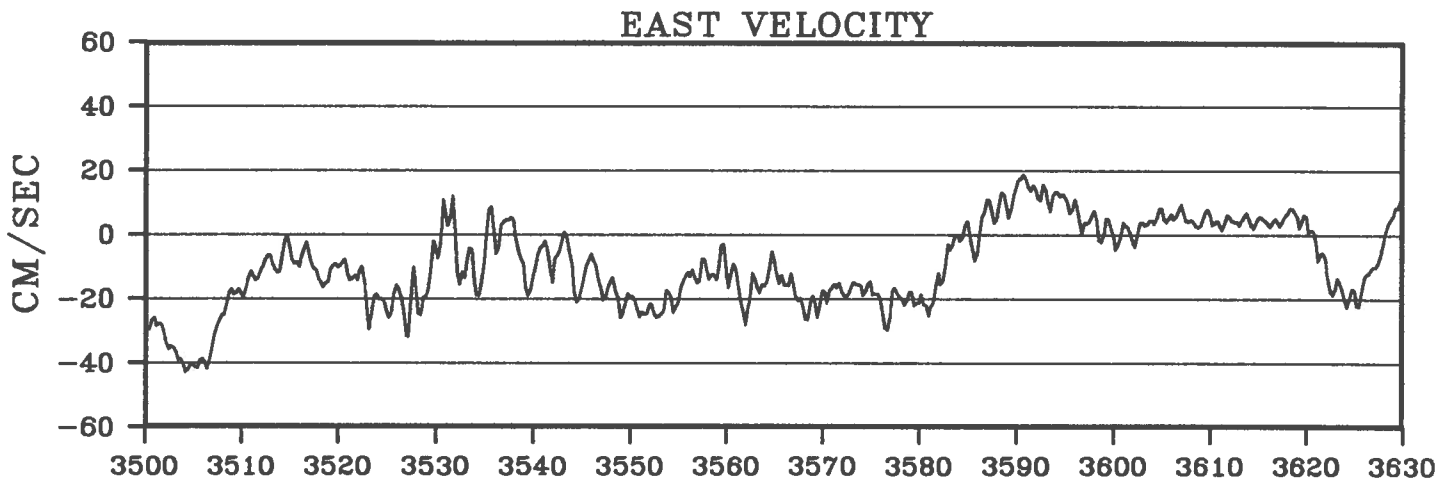
TEMPERATURE



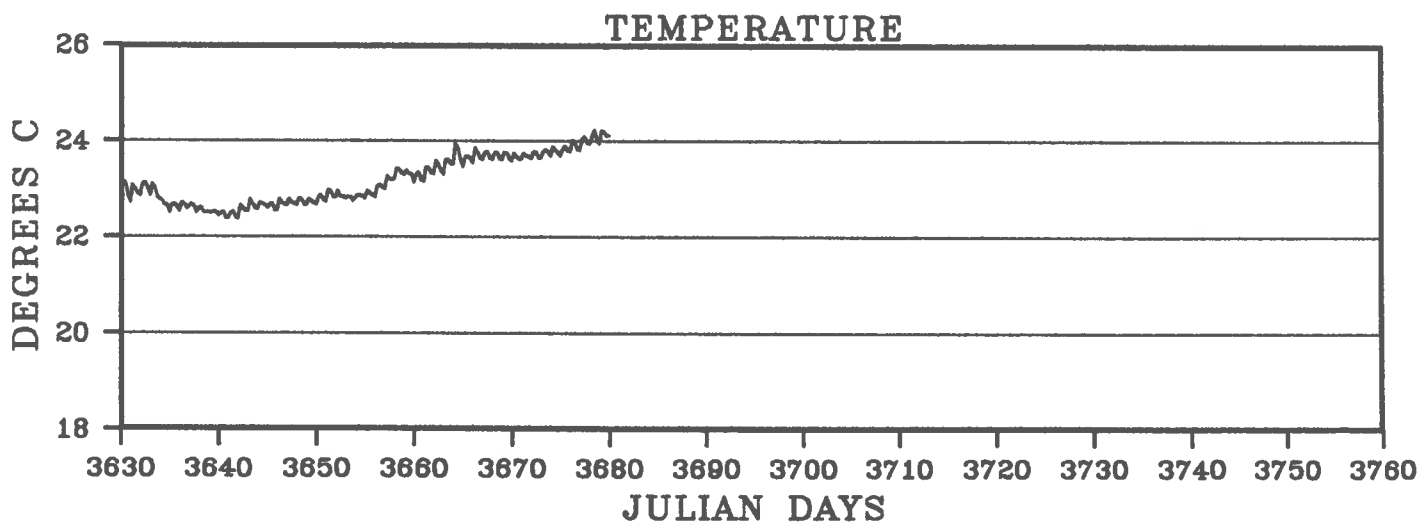
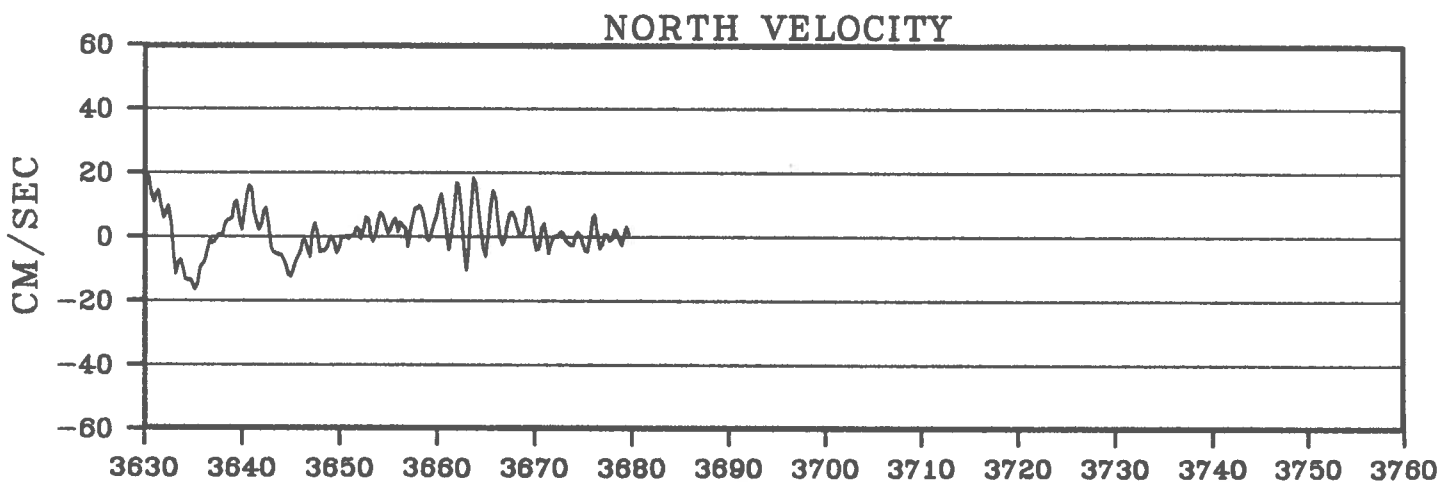
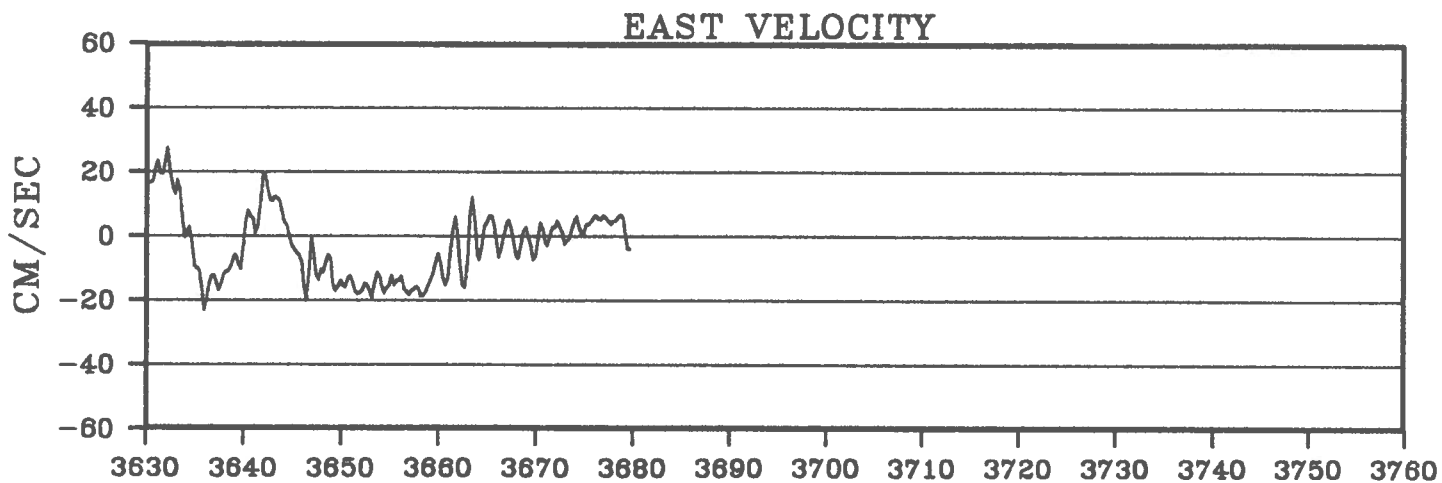
BUOY 4822



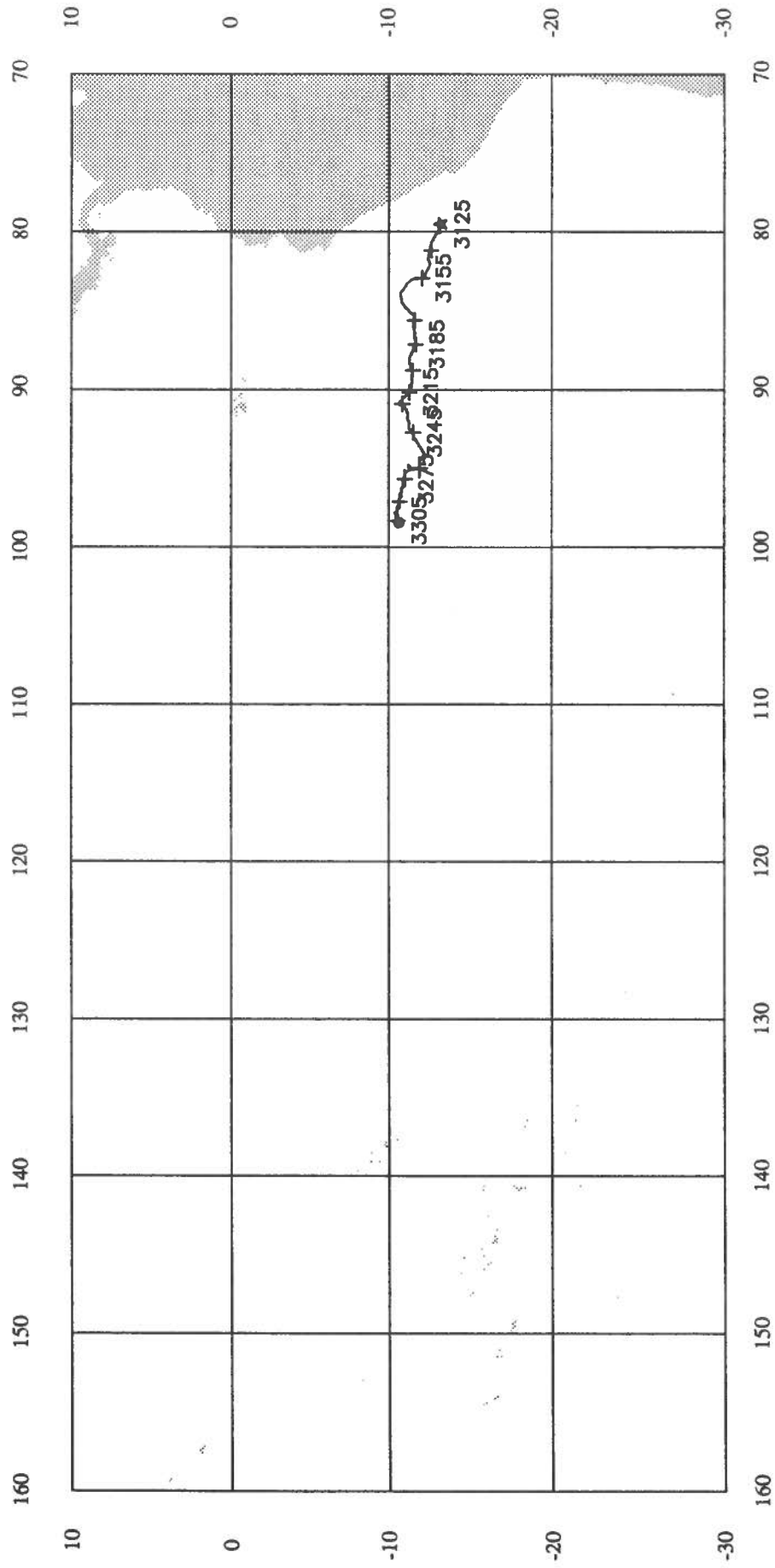
BUOY 4822



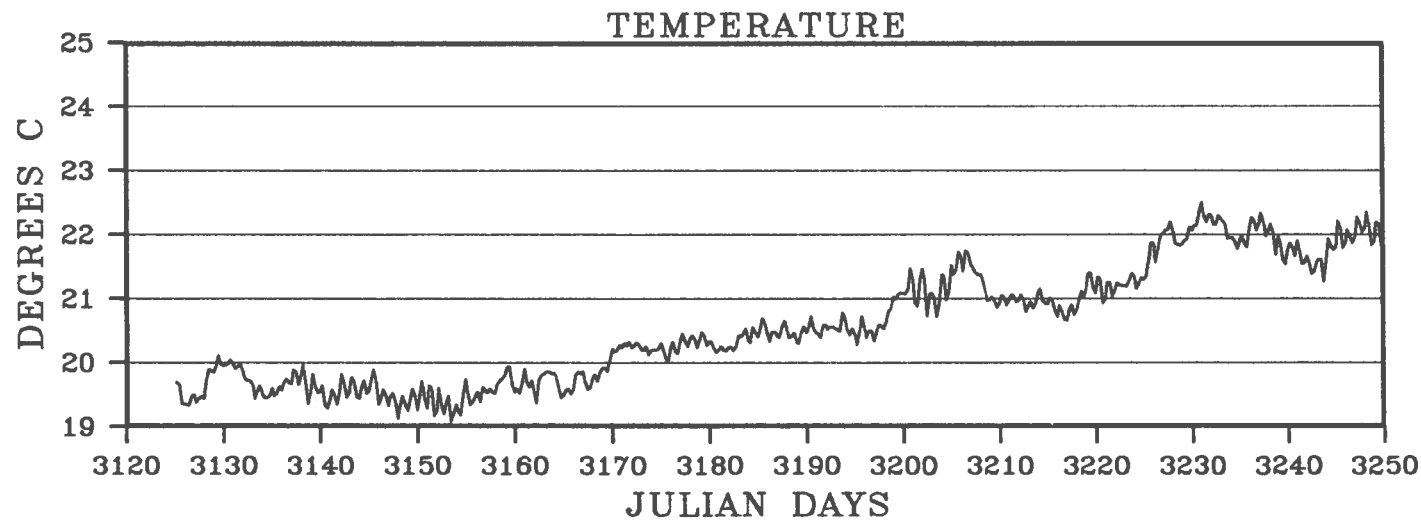
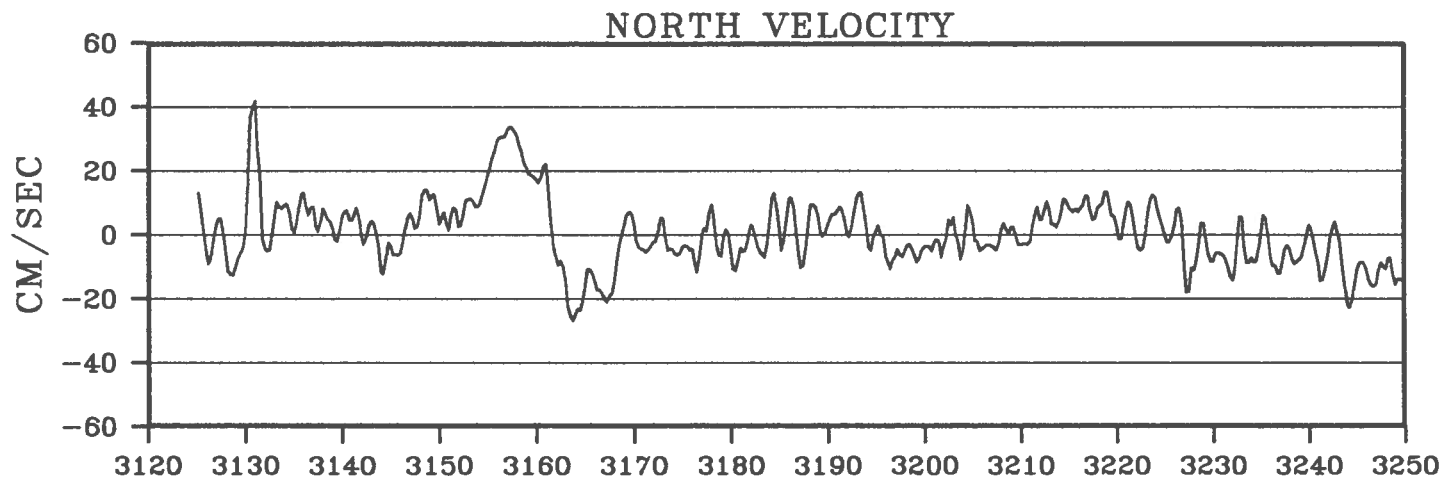
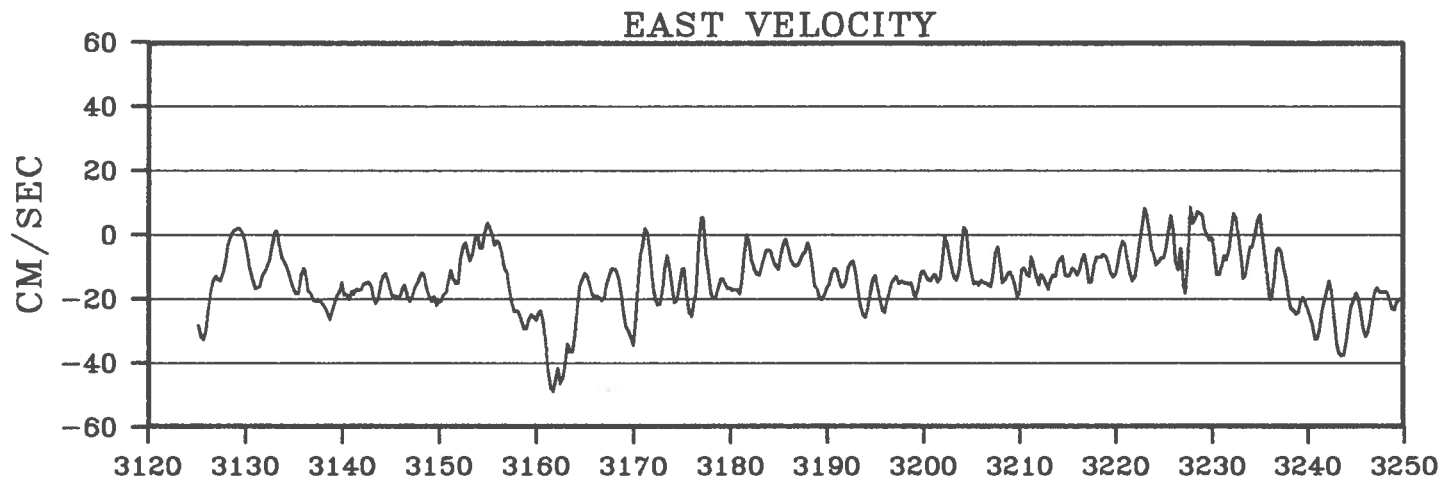
BUOY 4822



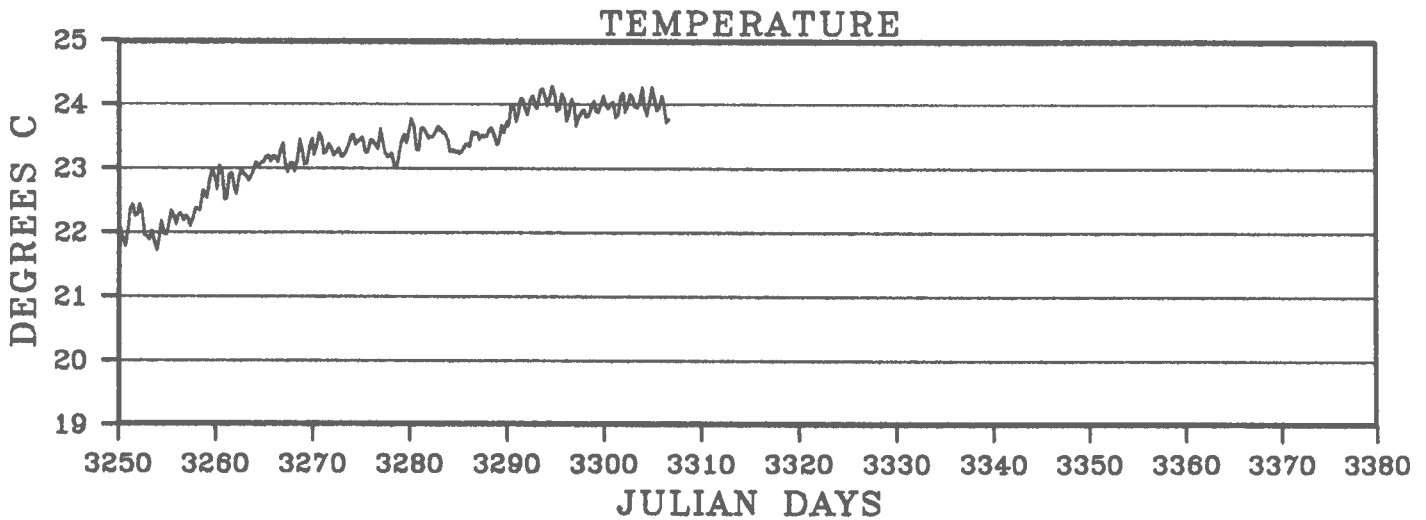
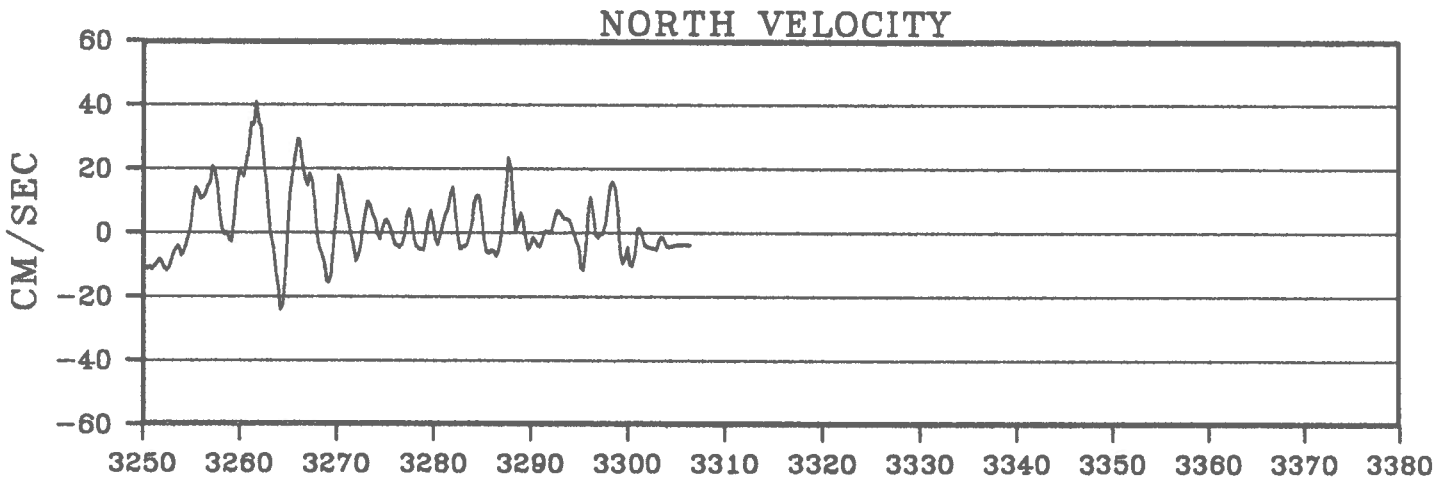
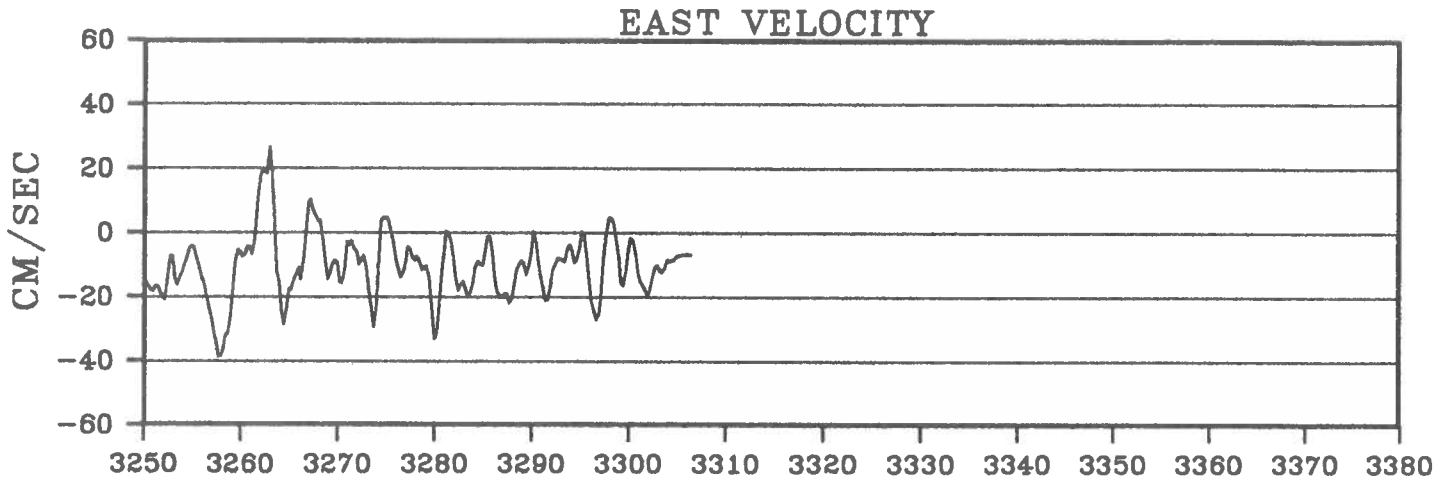
BUOY 4823



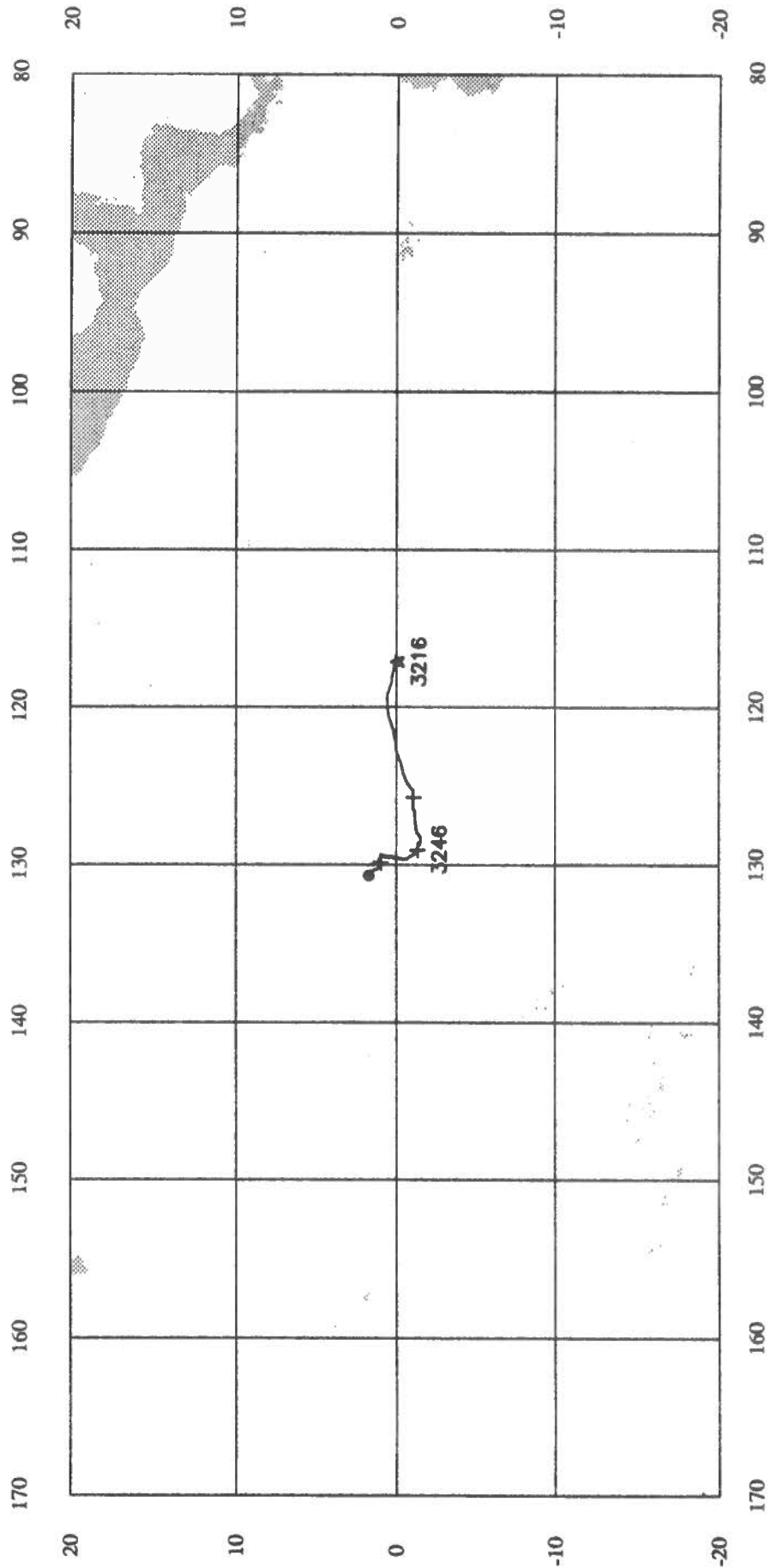
BUOY 4823



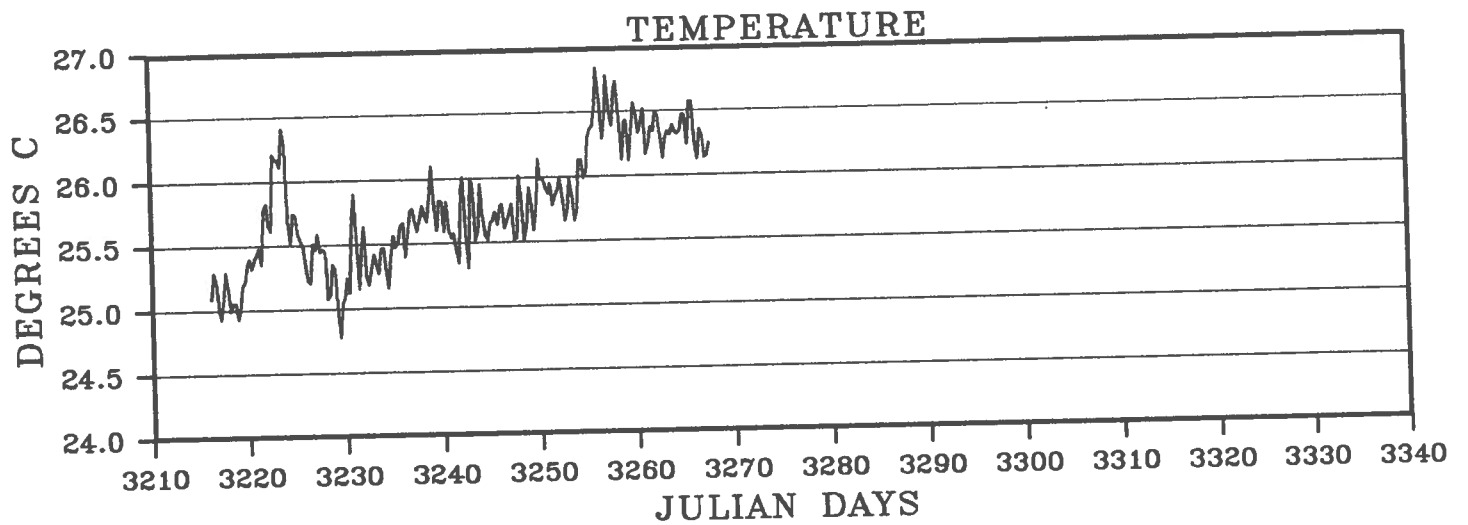
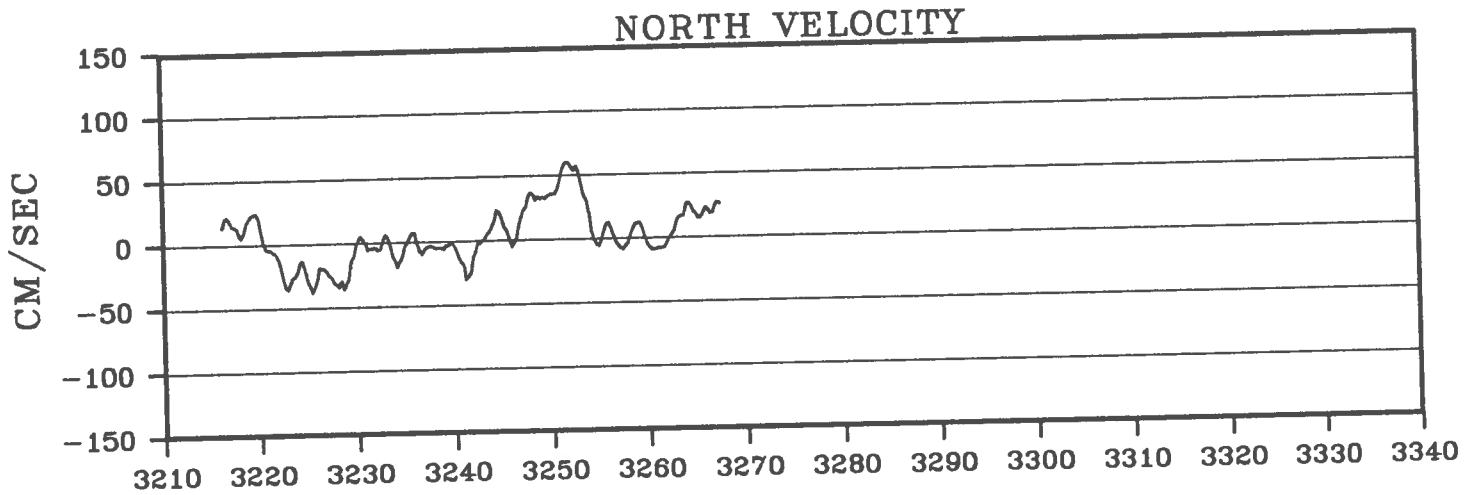
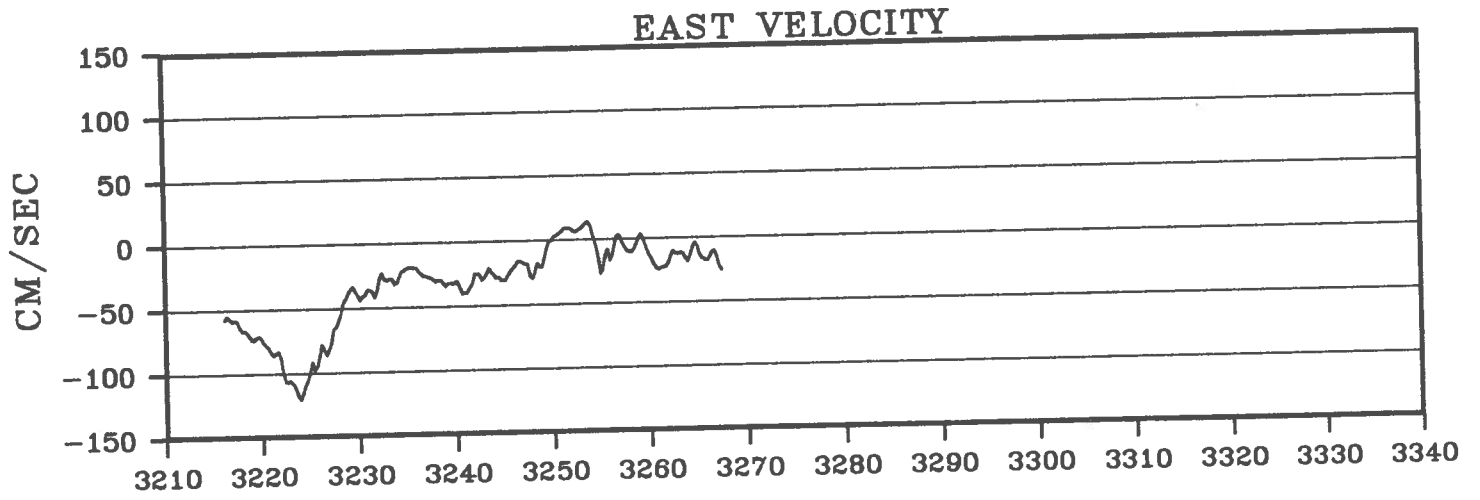
BUOY 4823



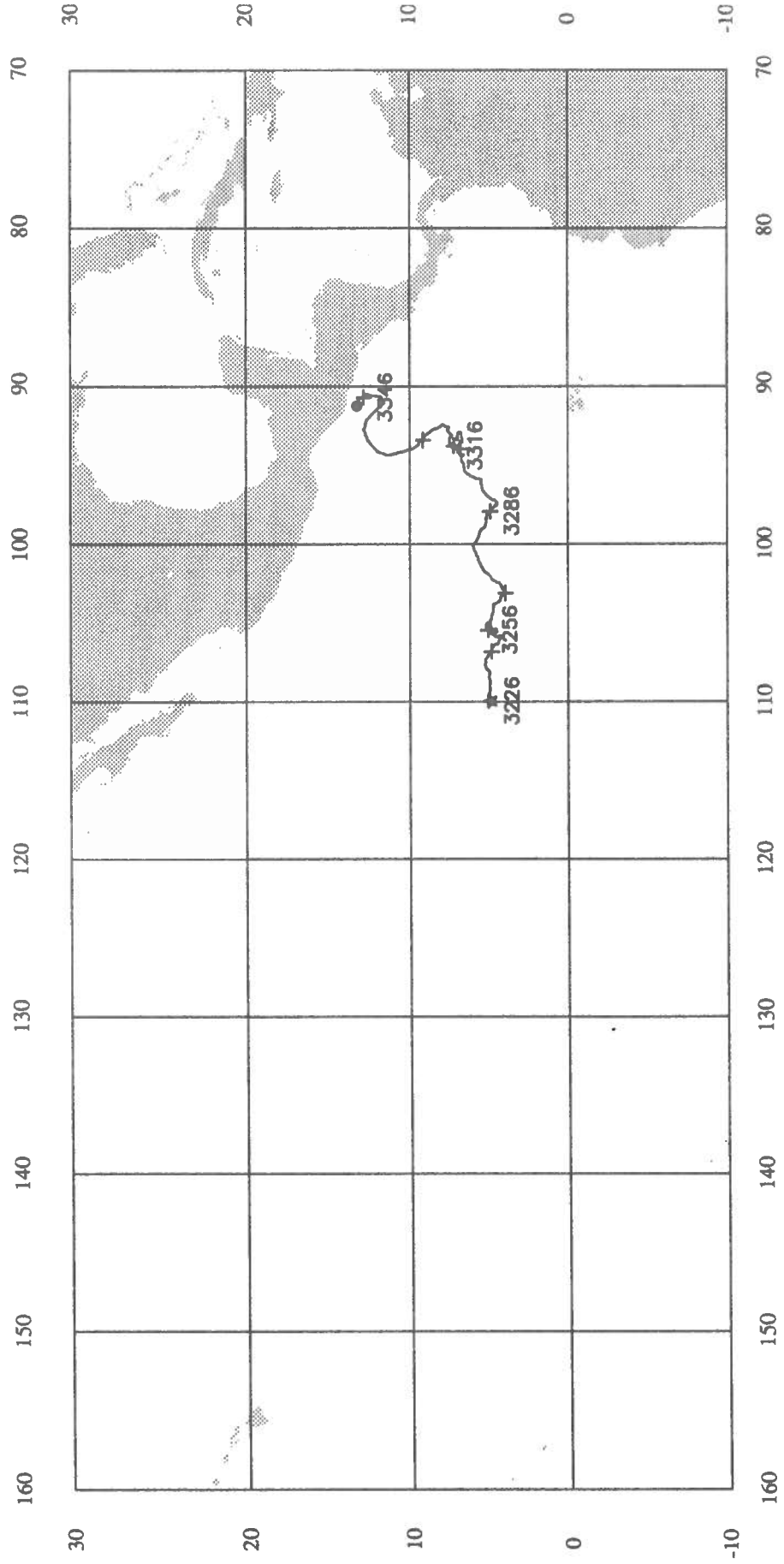
BUOY 4824



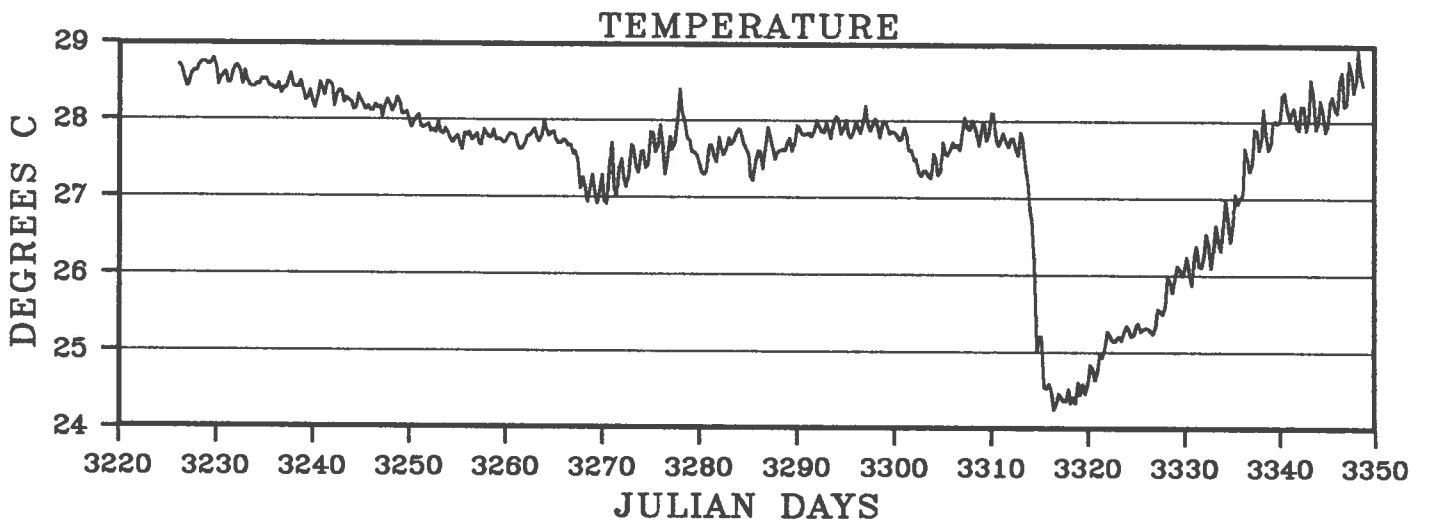
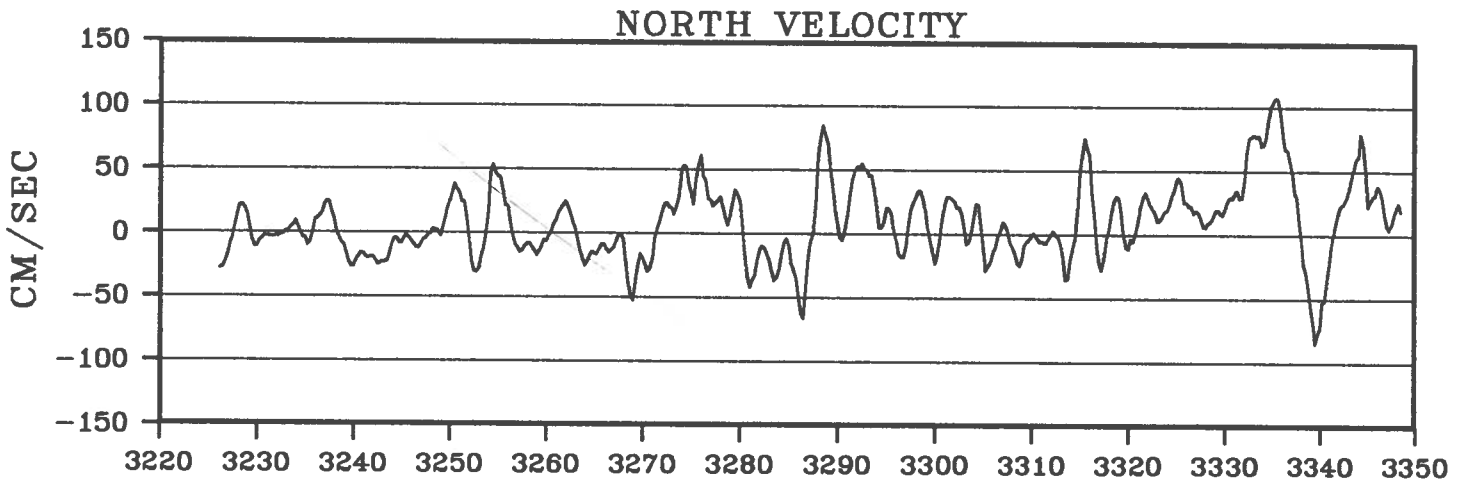
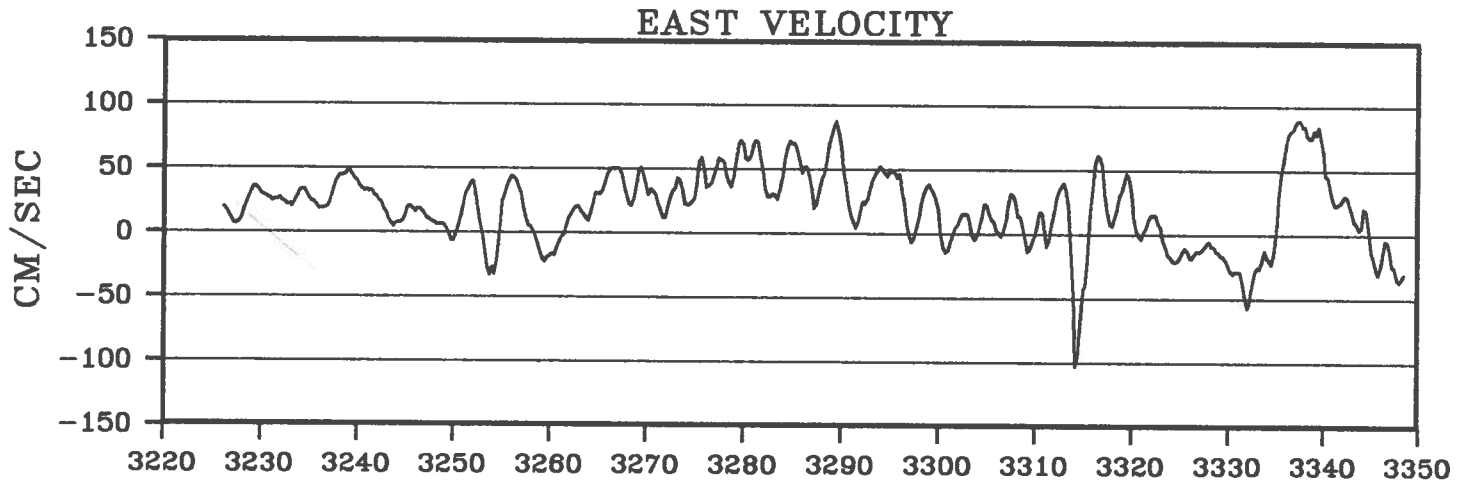
BUOY 4824



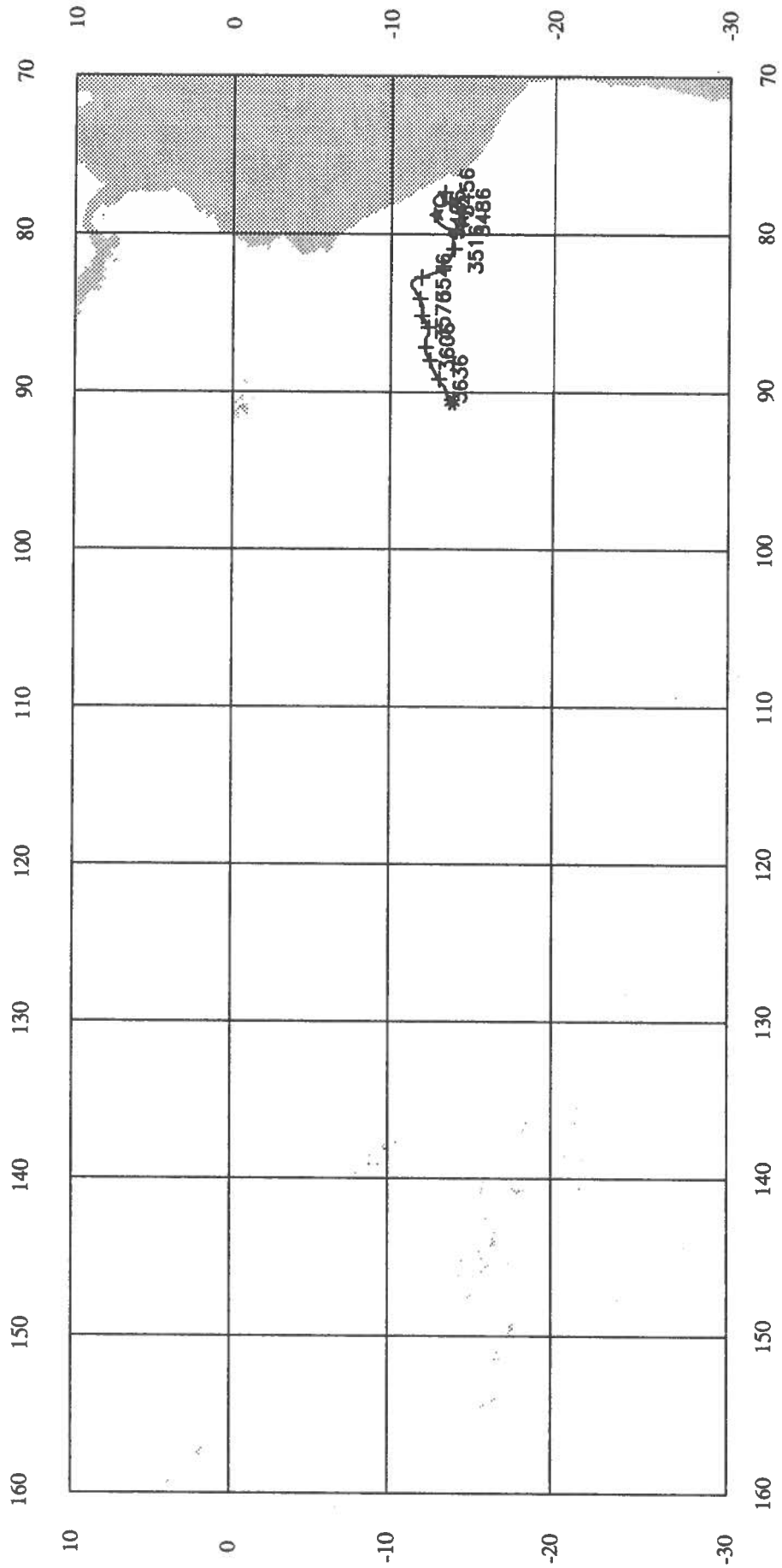
BUOY 4825



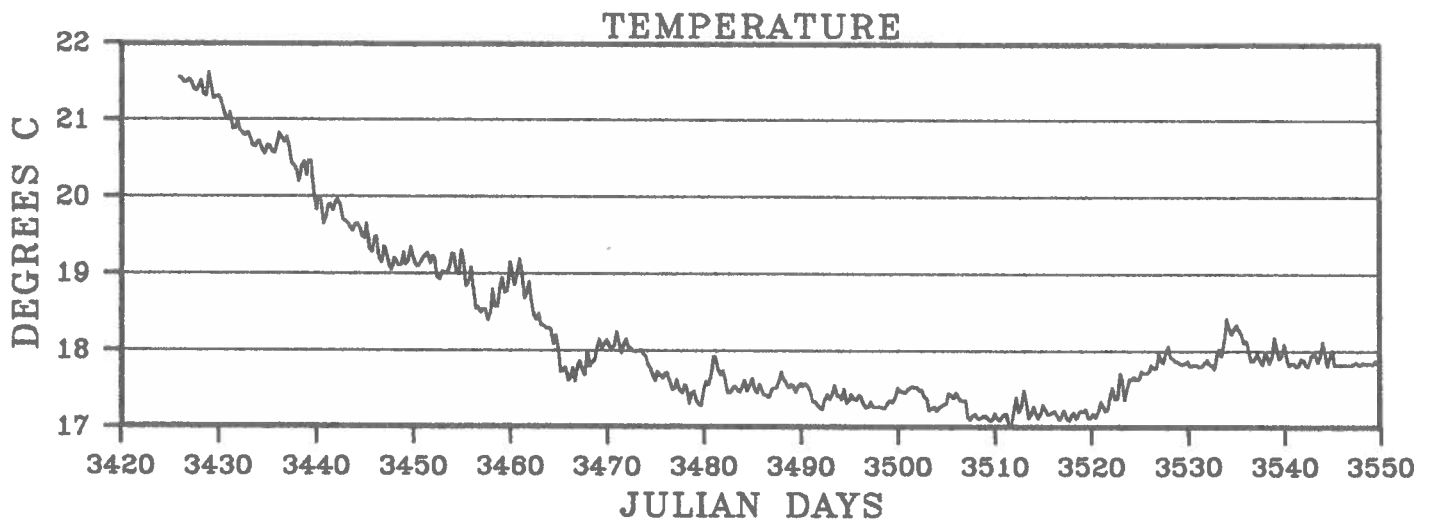
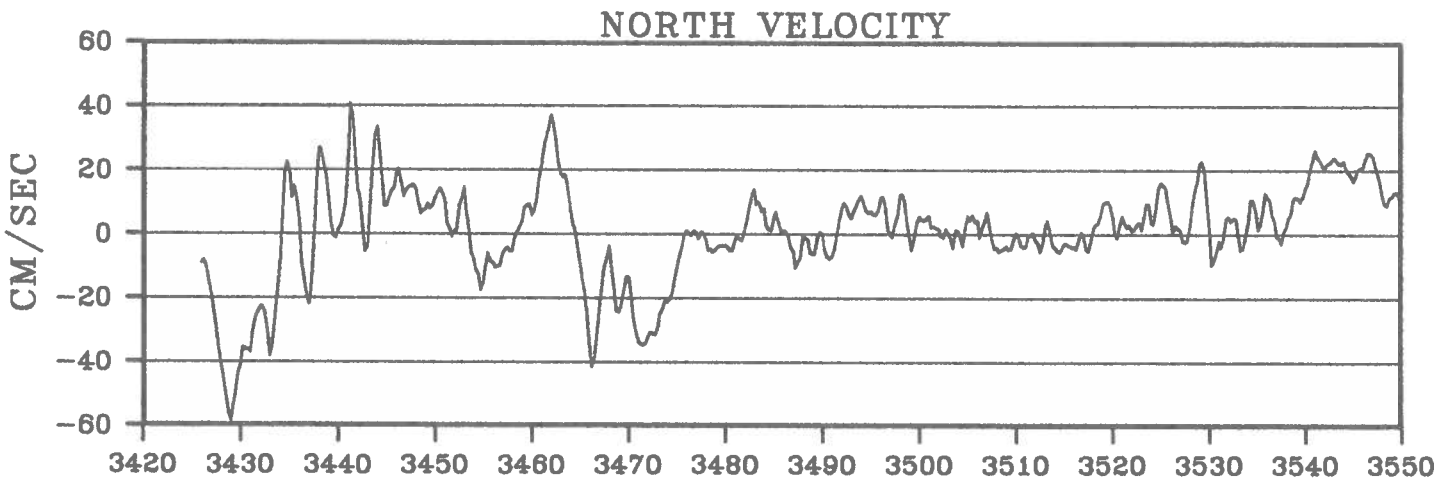
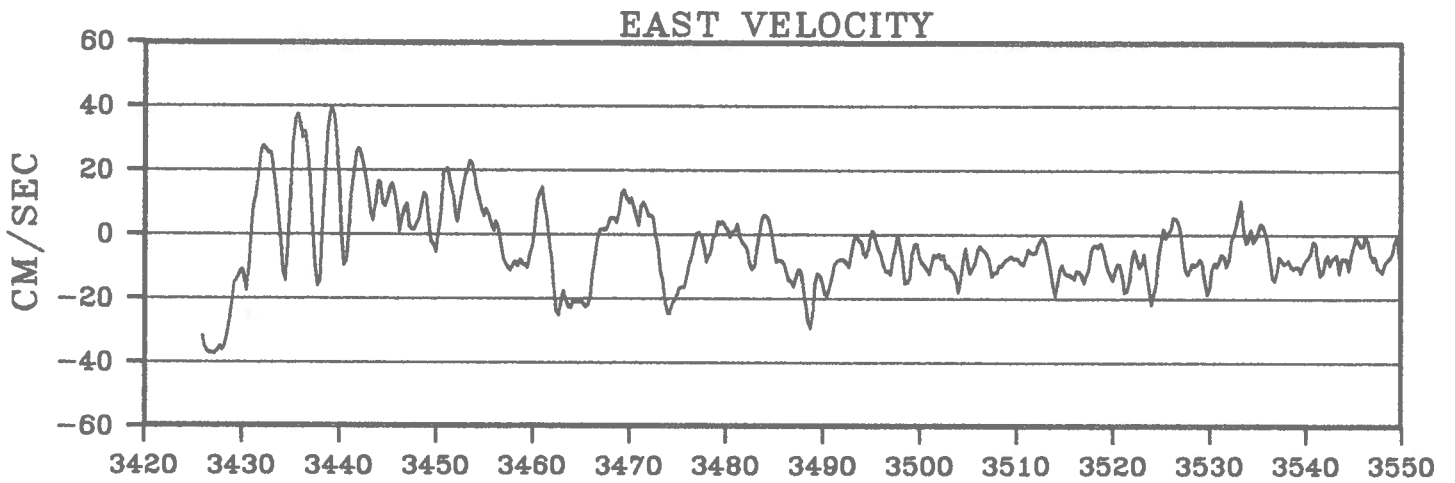
BUOY 4825



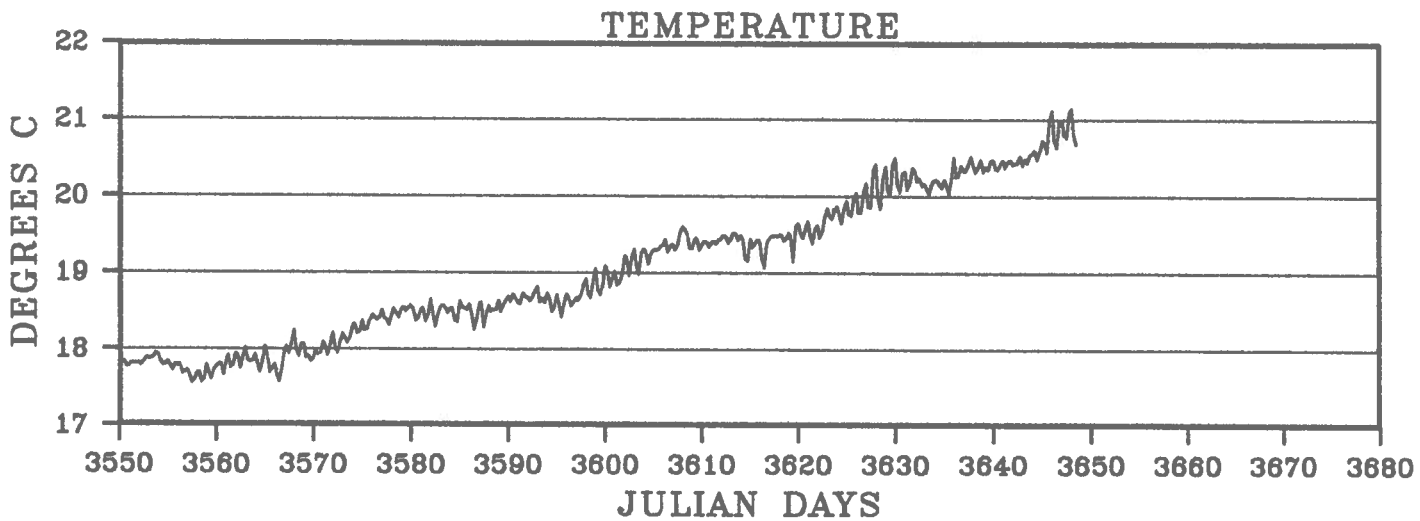
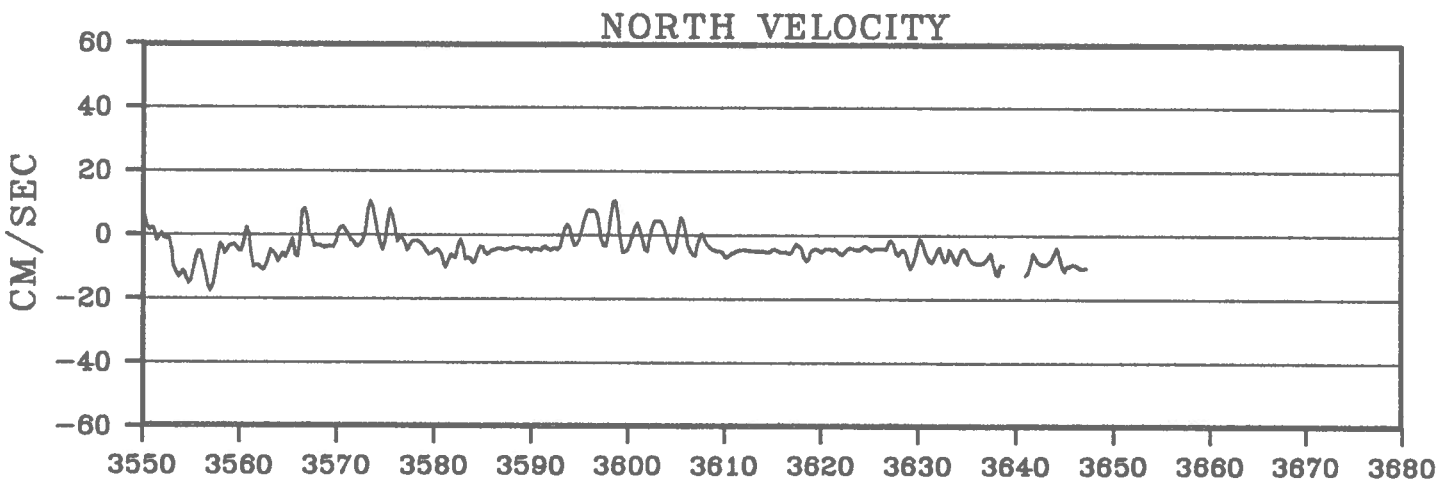
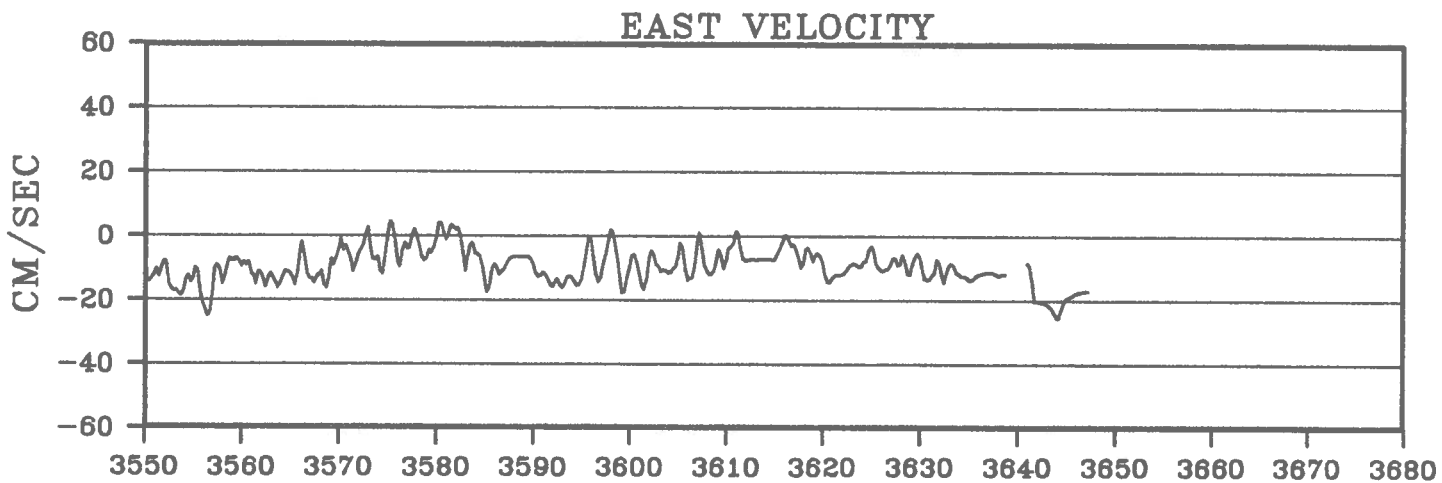
BUOY 4827



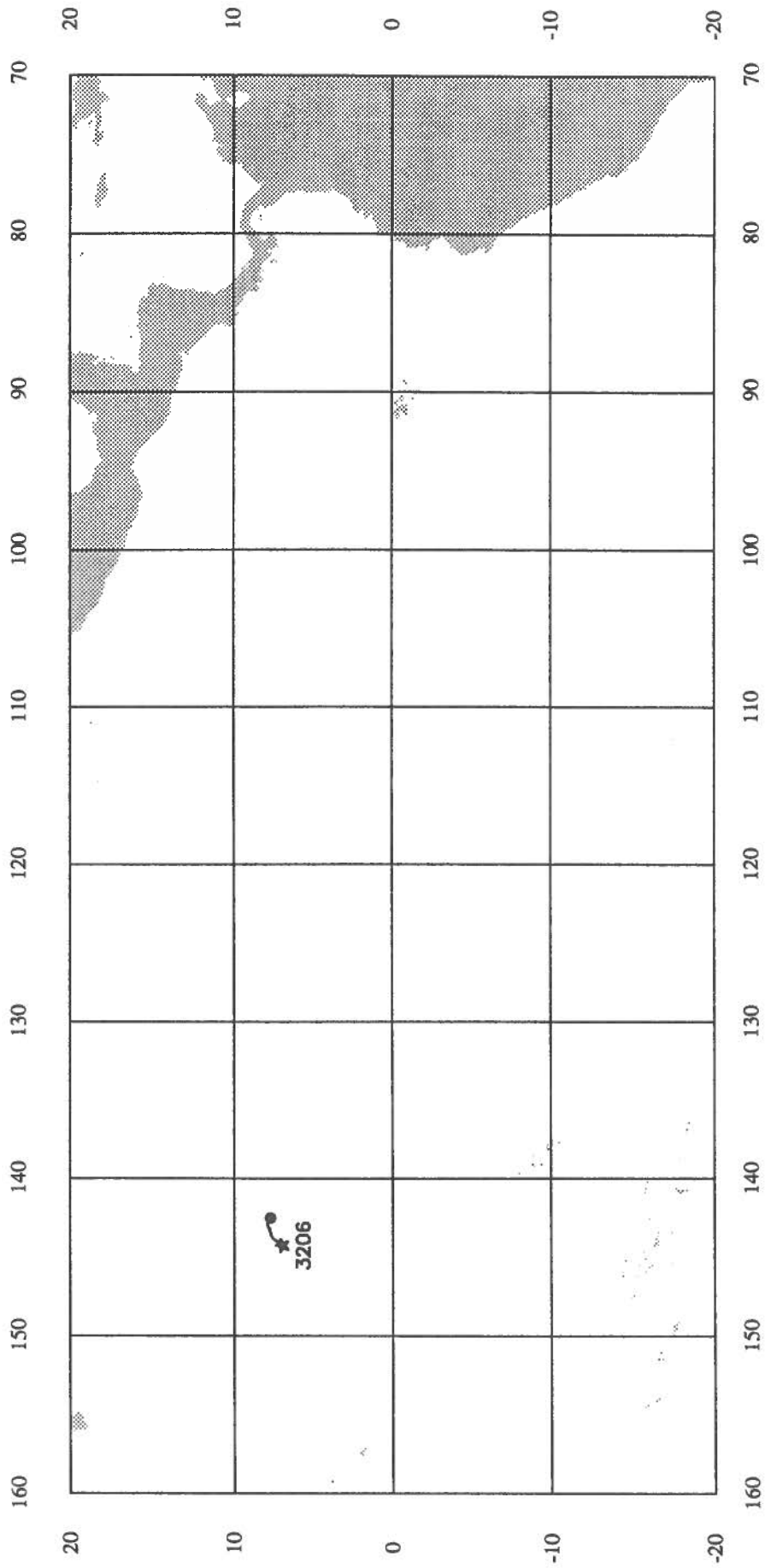
BUOY 4827



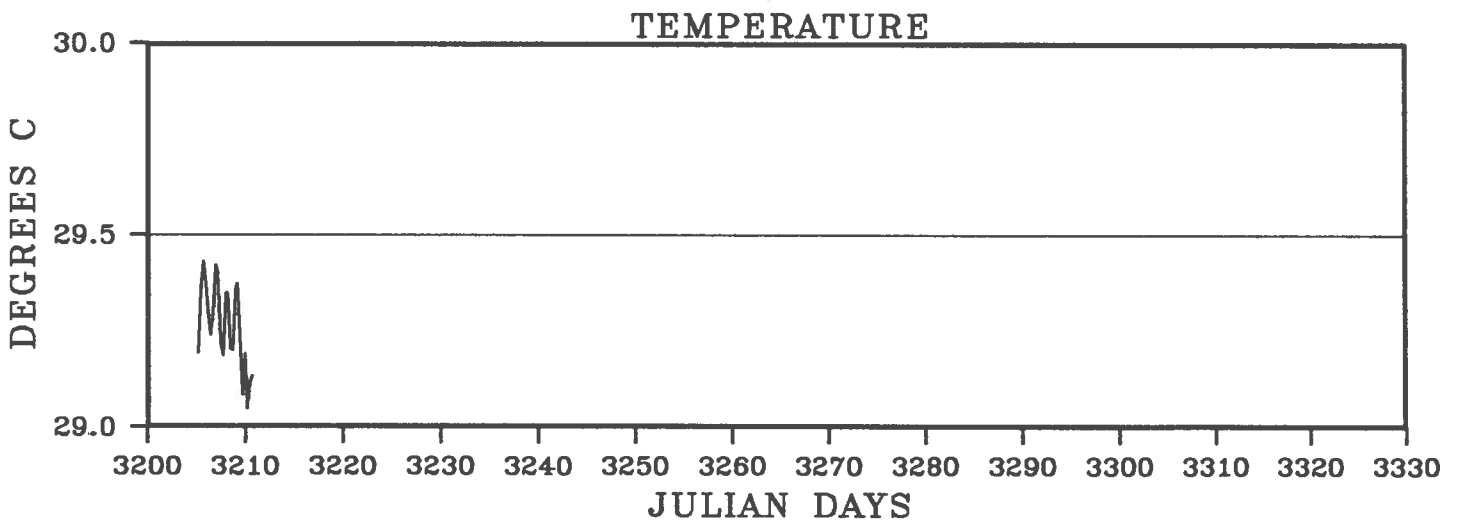
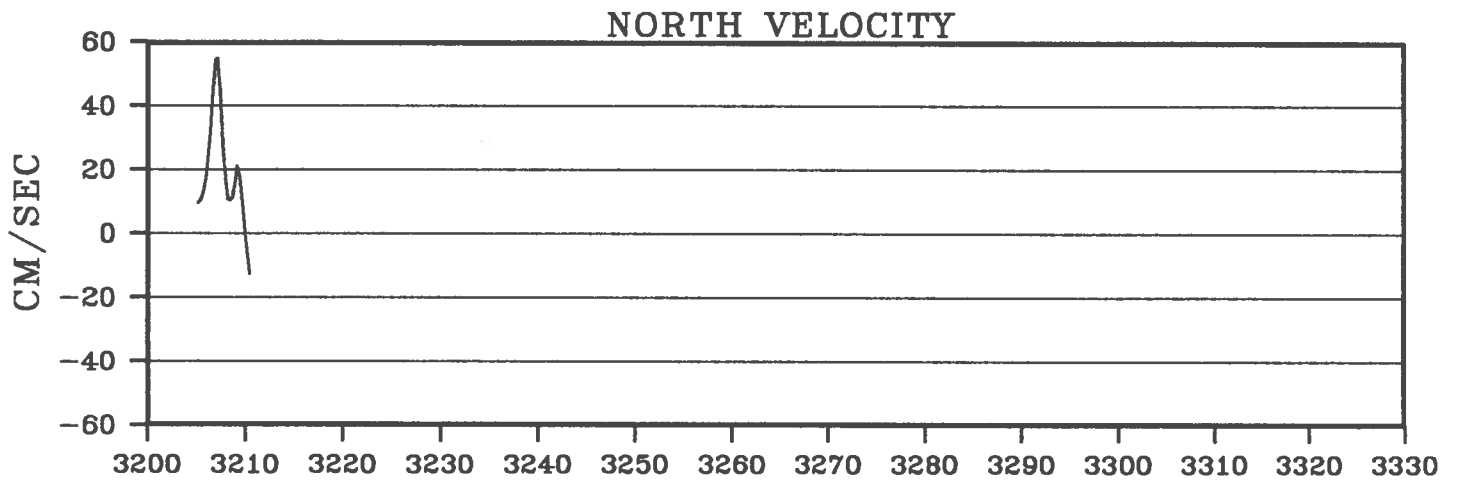
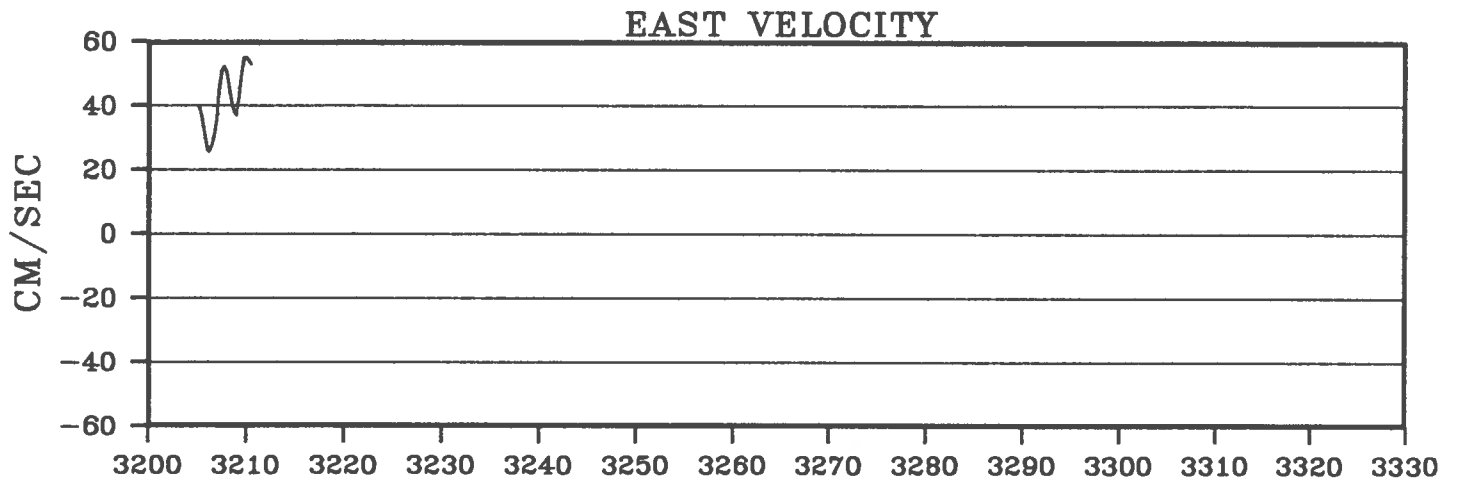
BUOY 4827



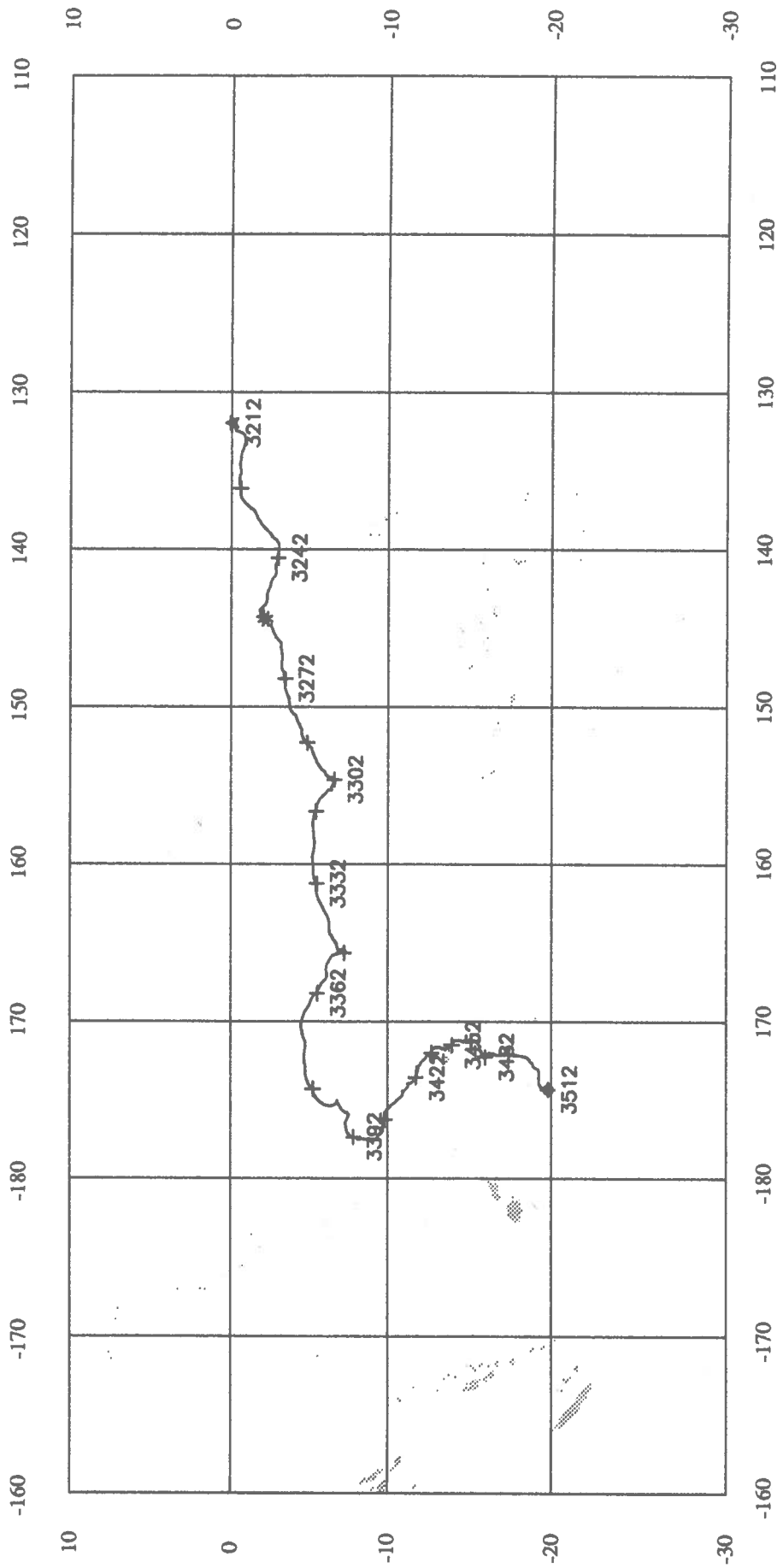
BUOY 6853



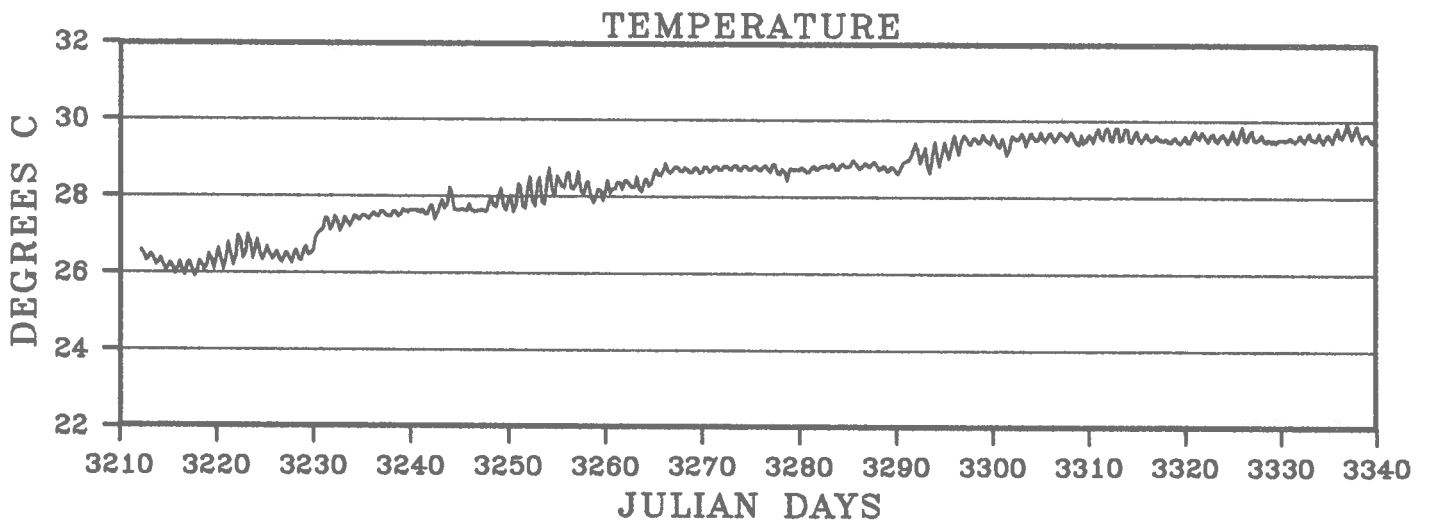
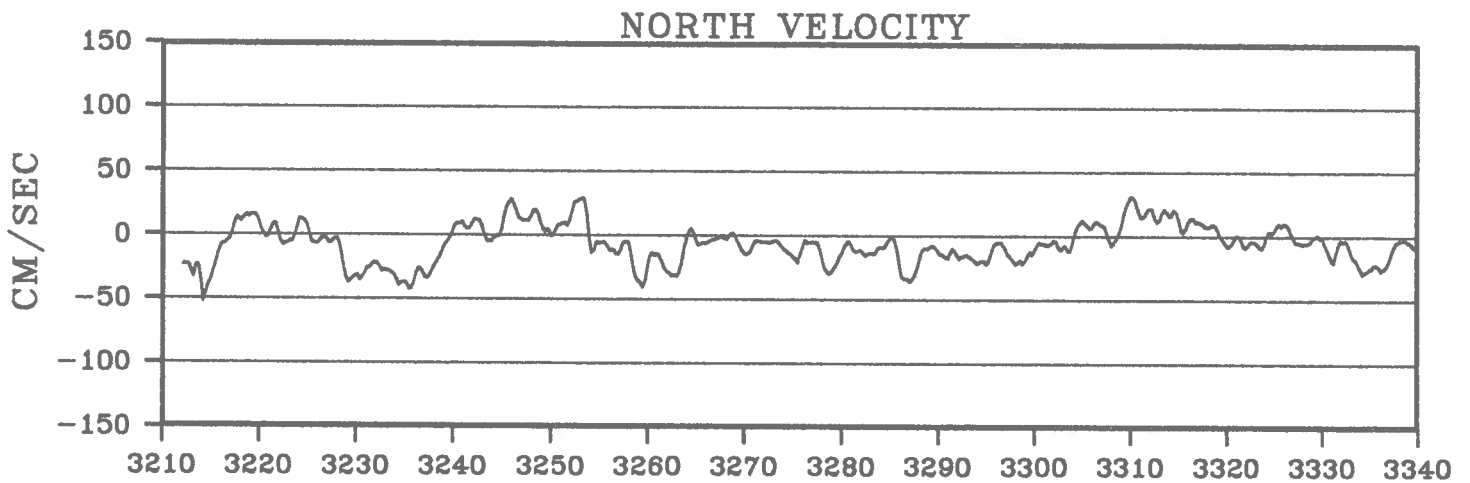
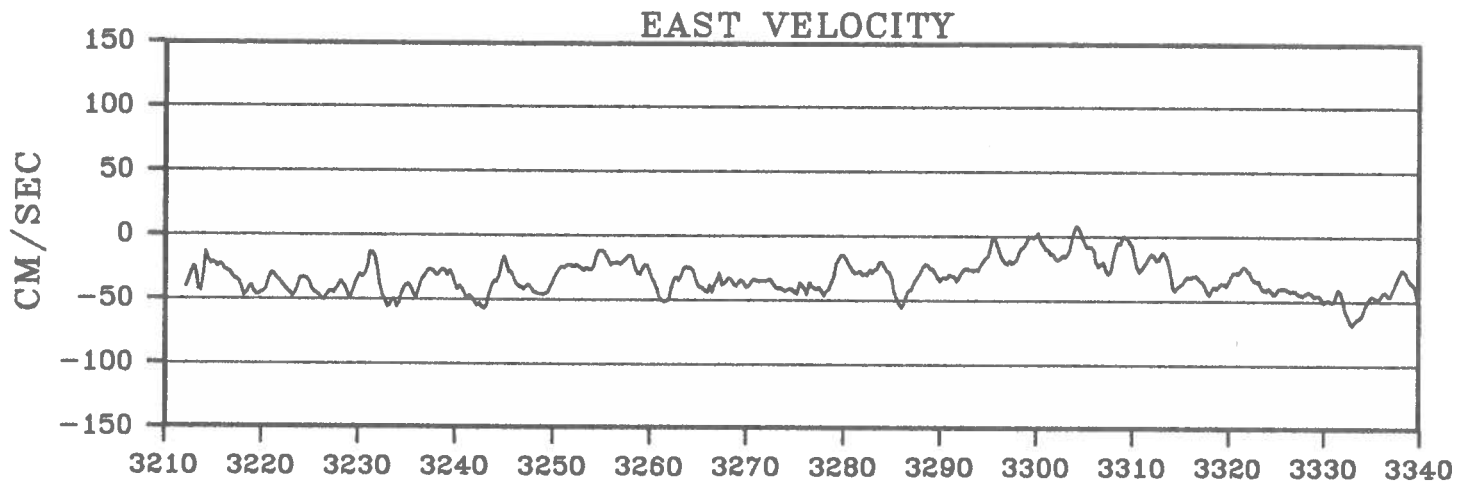
BUOY 6853



BUOY 6854

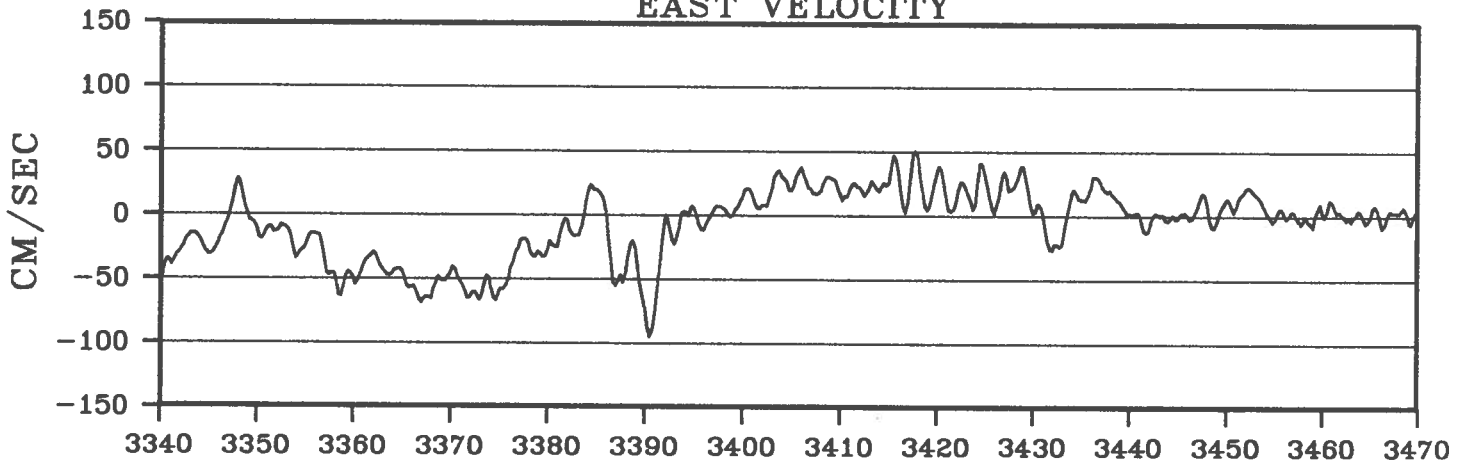


BUOY 6854

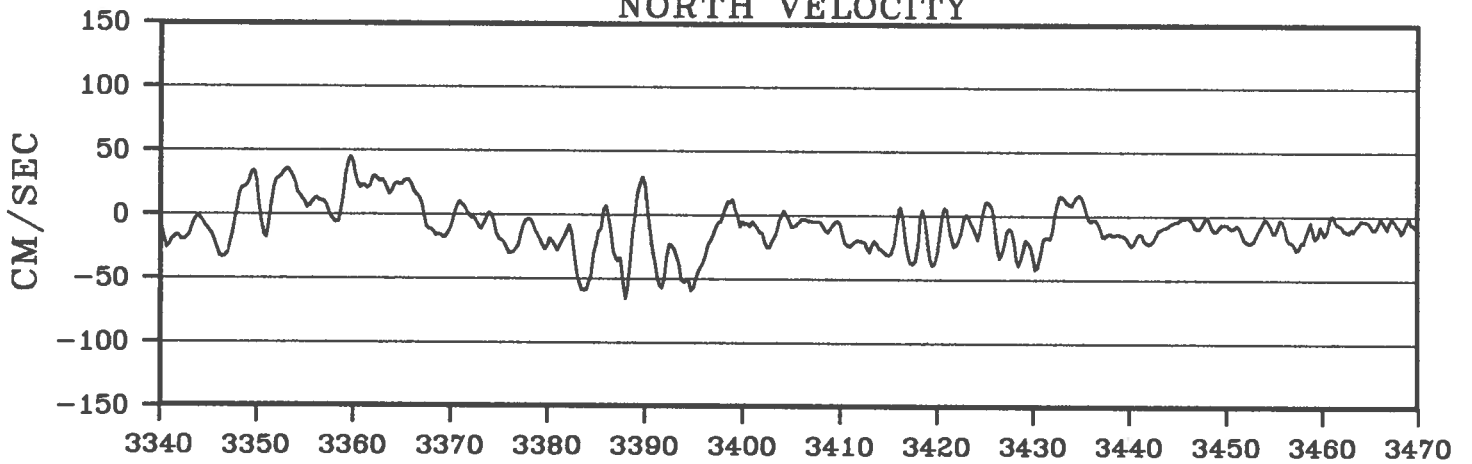


BUOY 6854

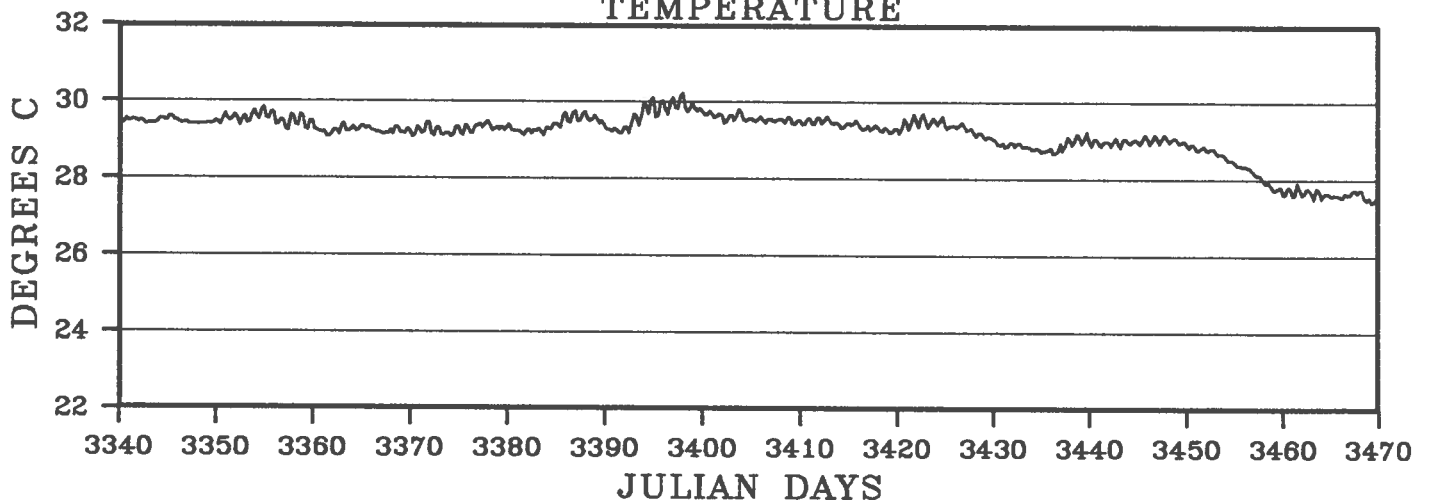
EAST VELOCITY



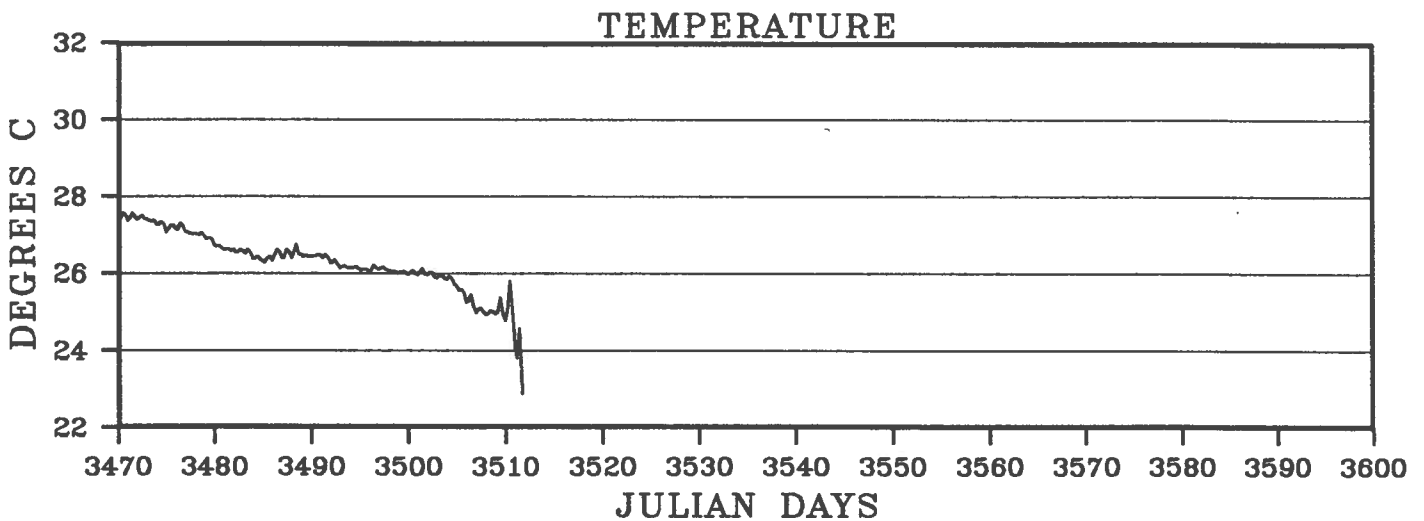
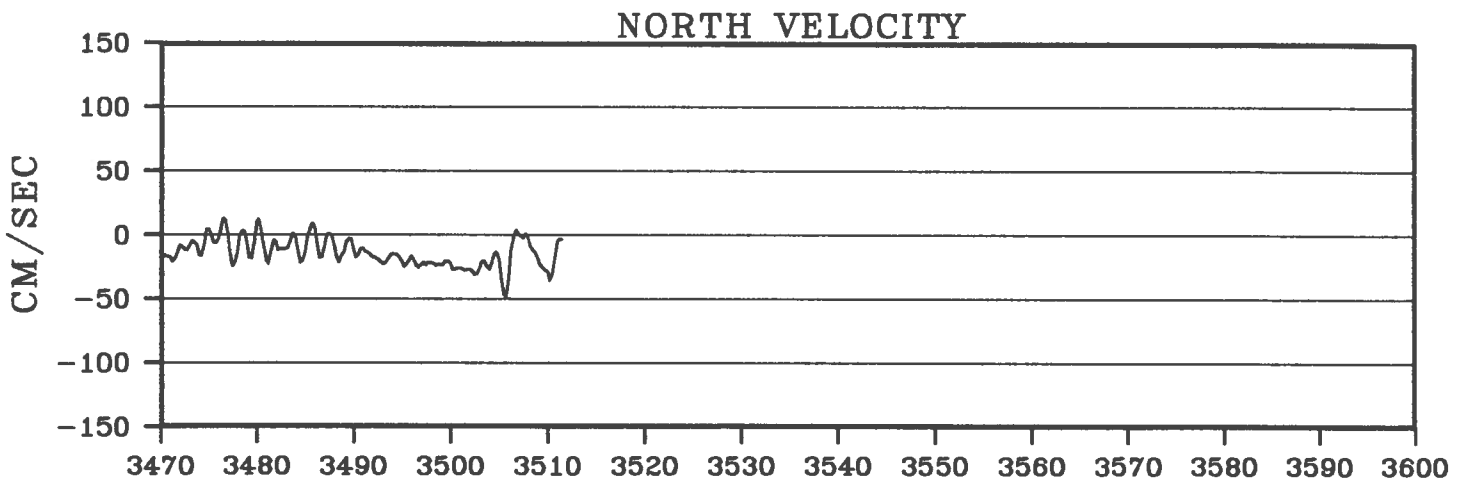
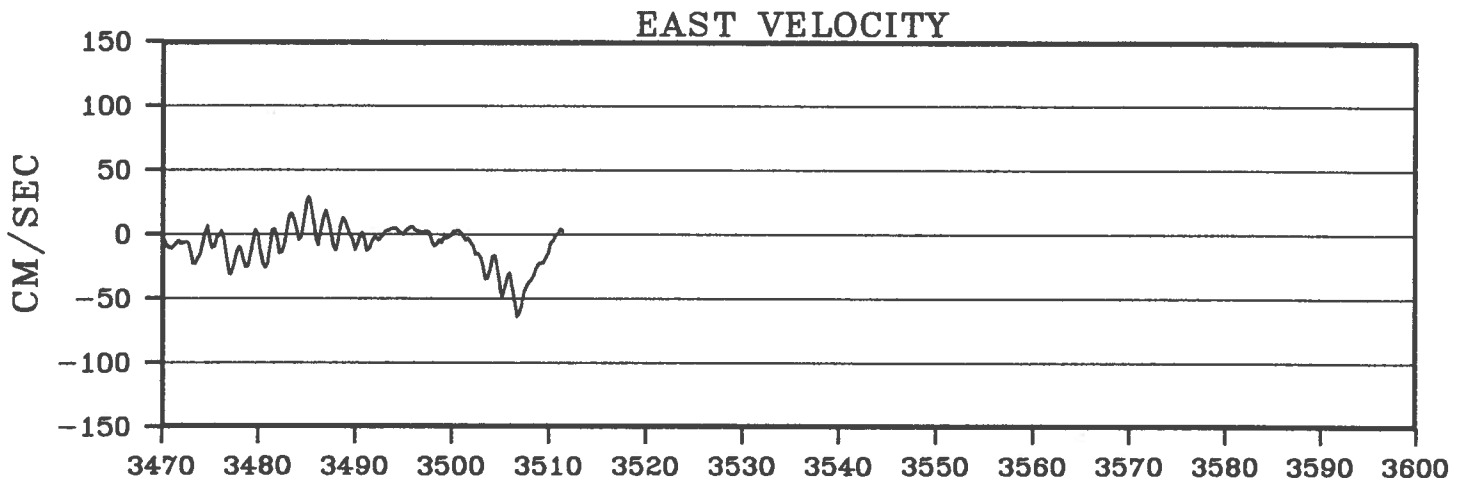
NORTH VELOCITY



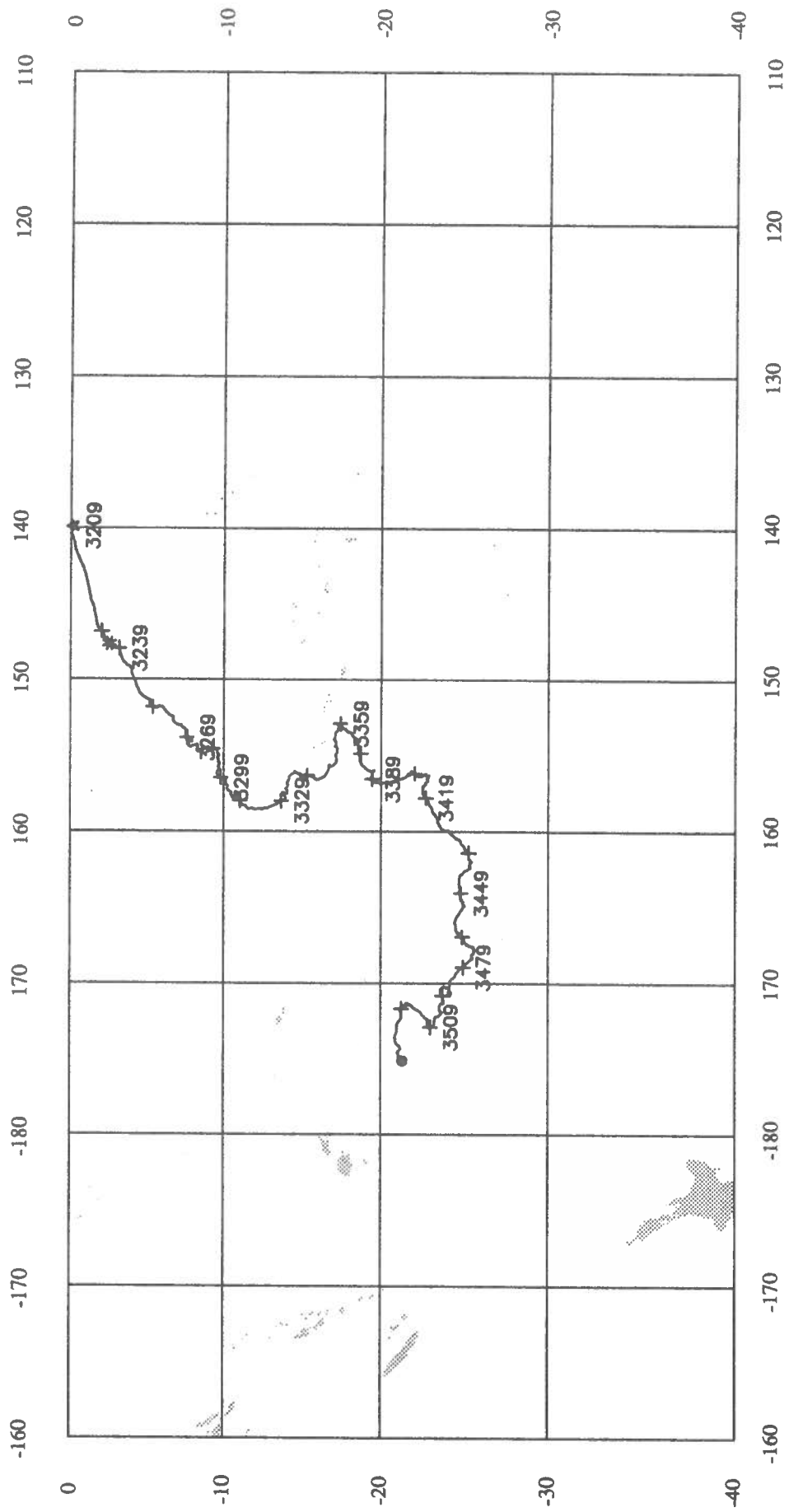
TEMPERATURE



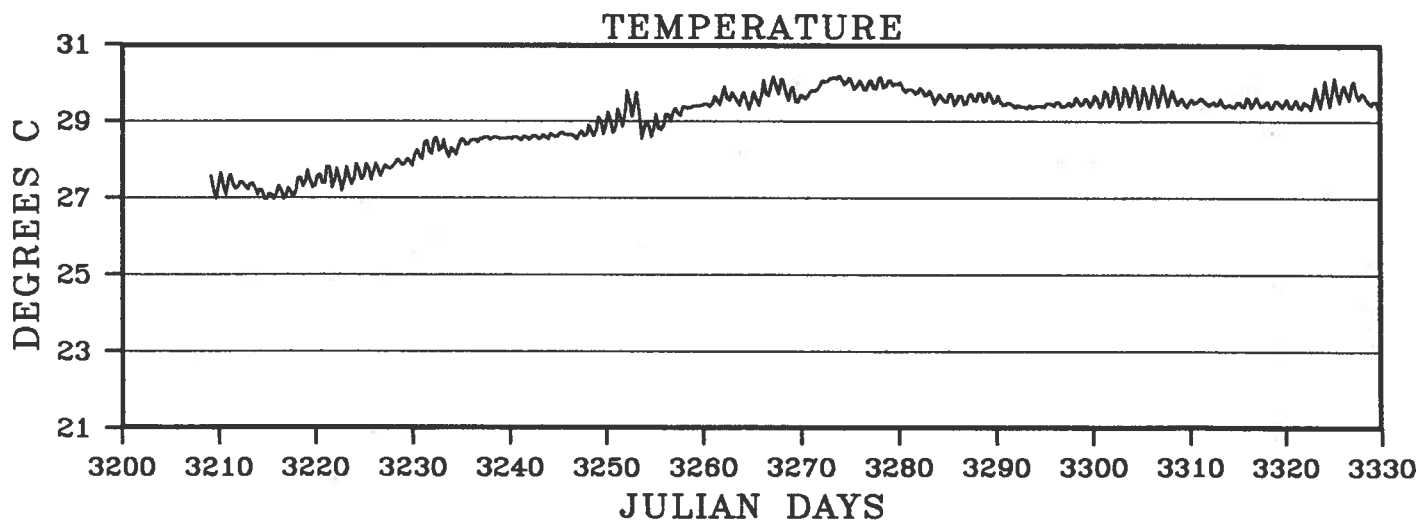
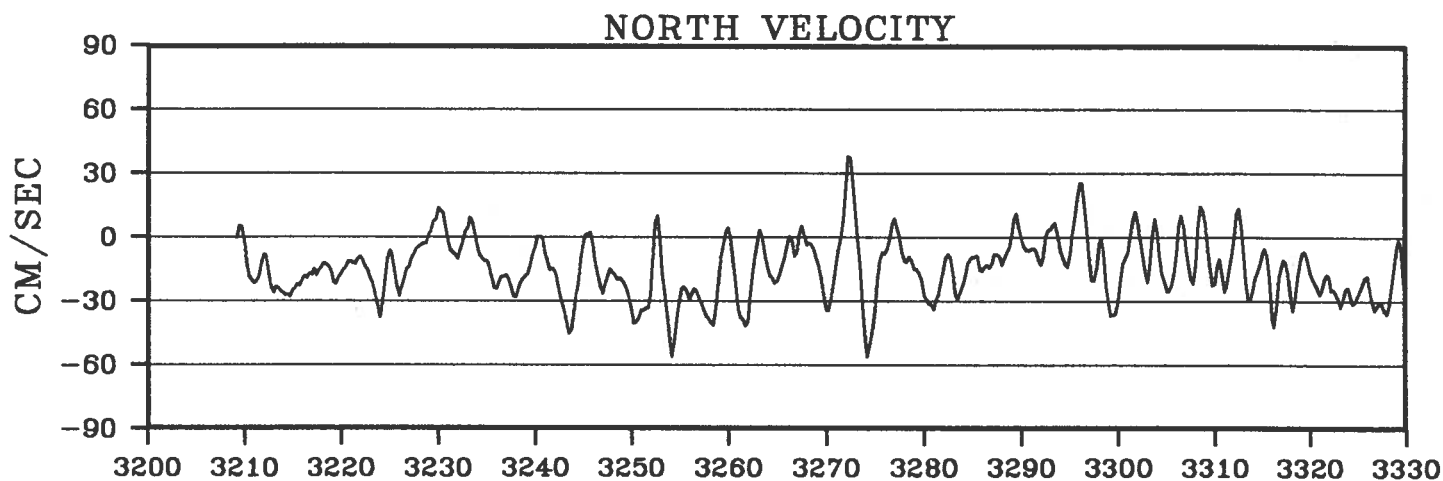
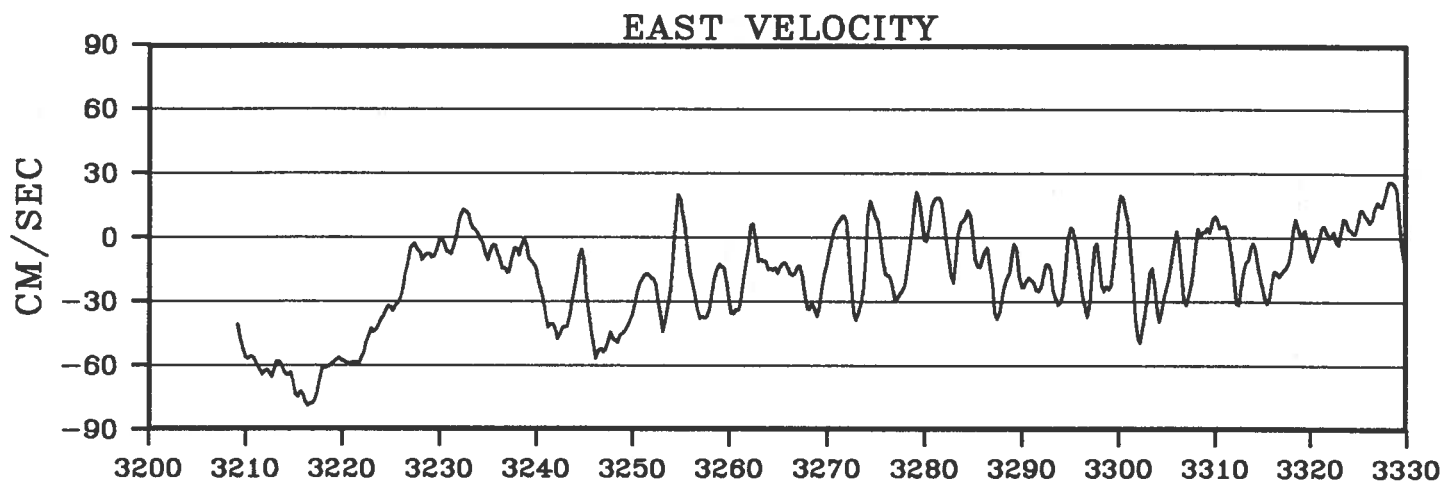
BUOY 6854



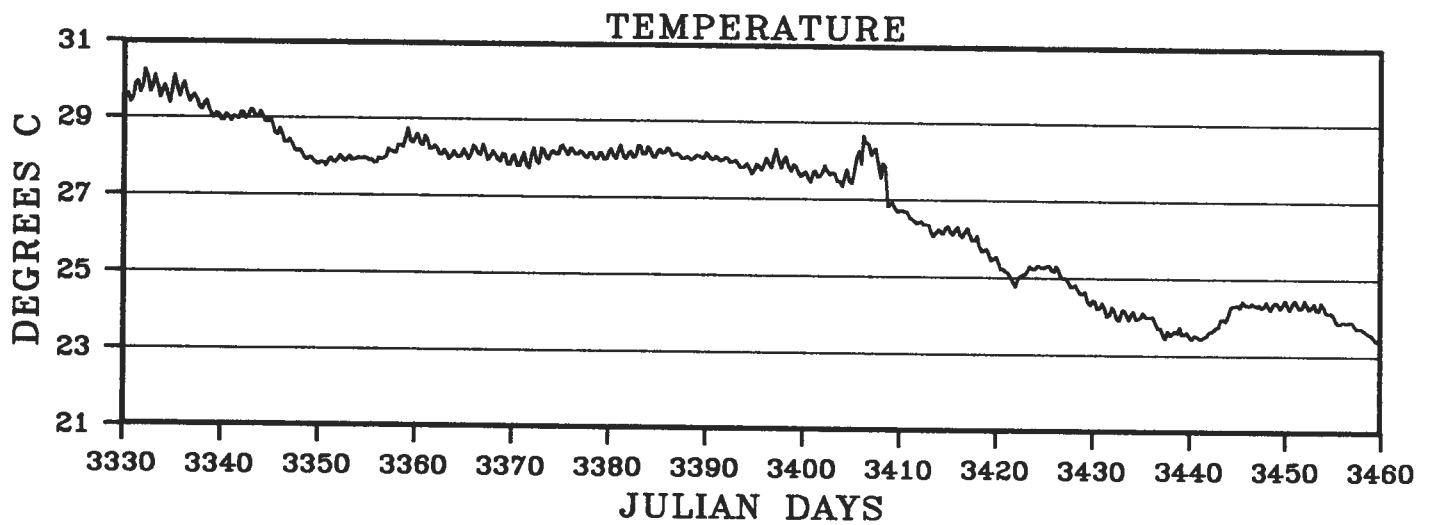
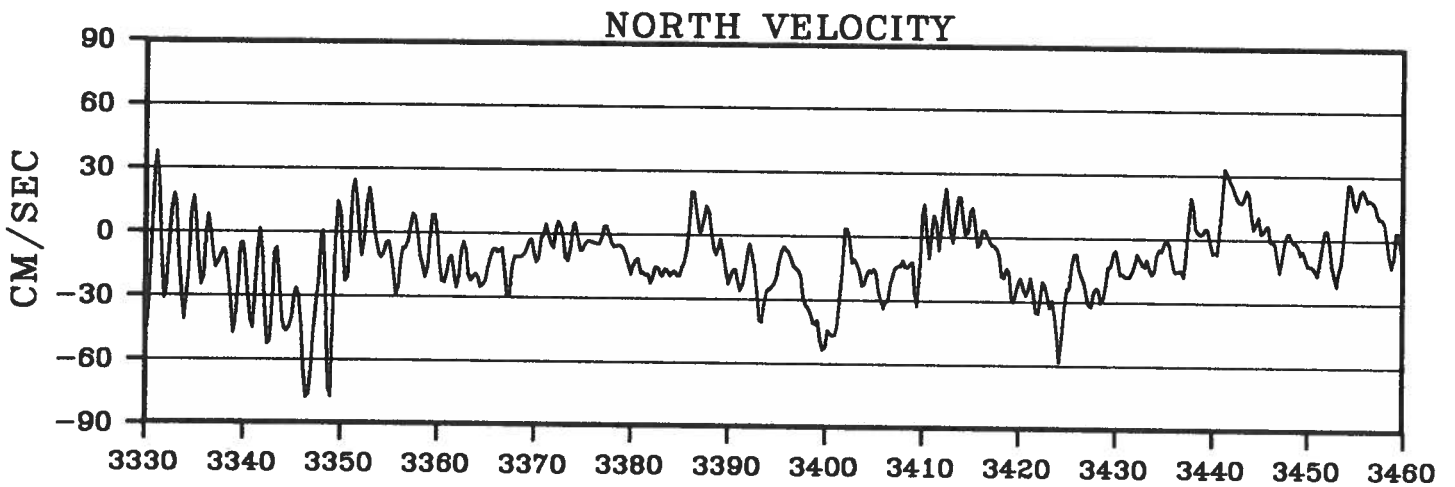
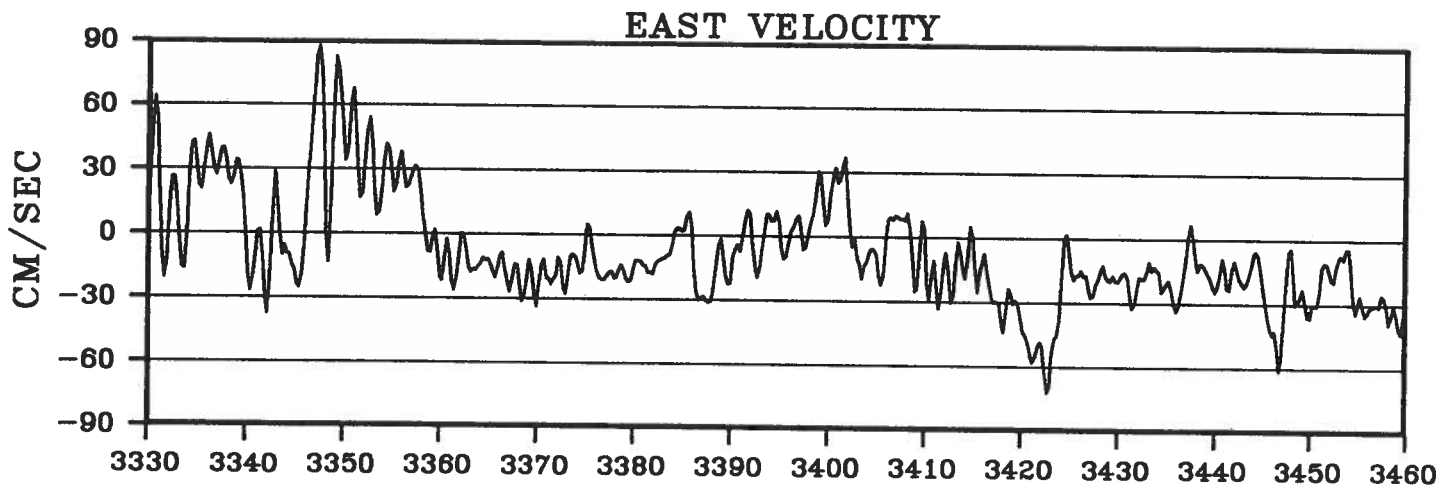
BUOY 6855



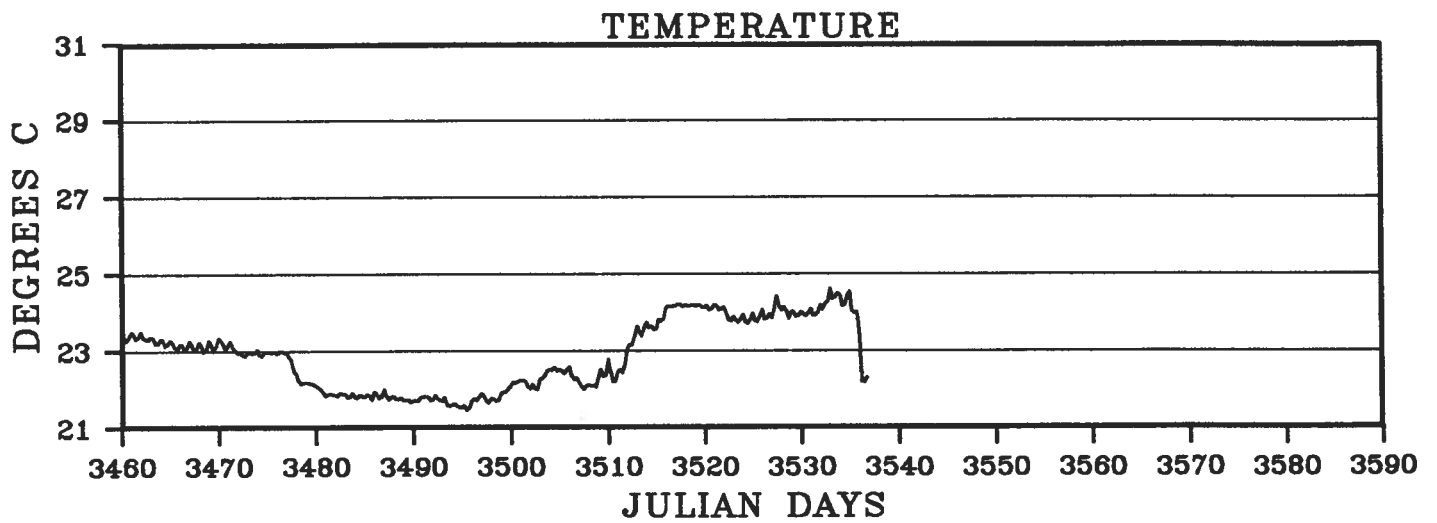
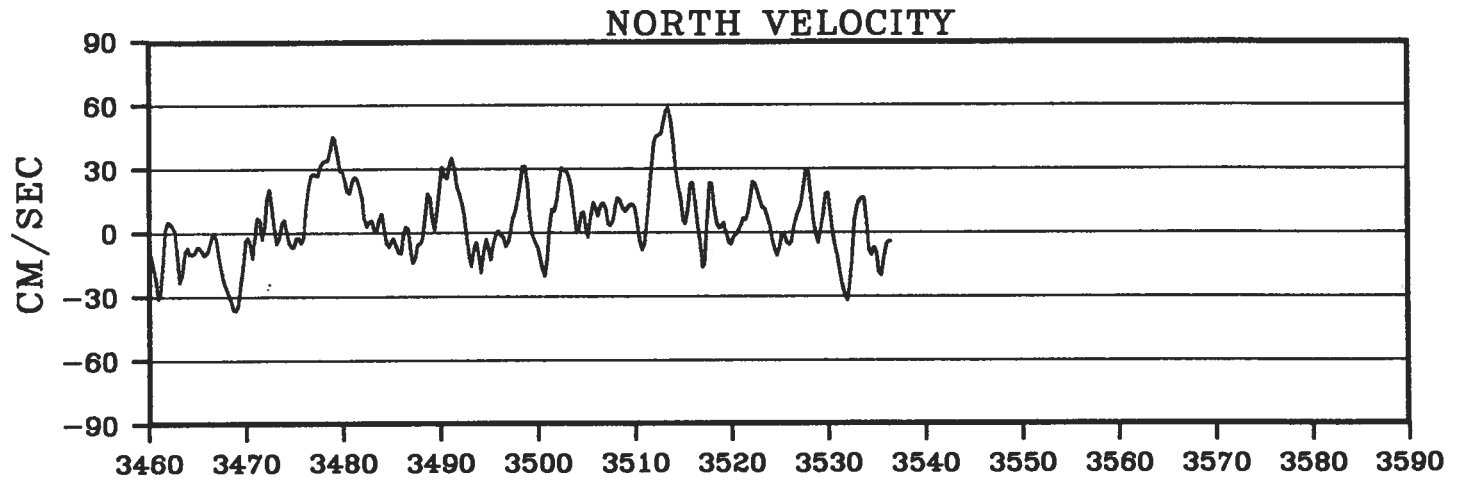
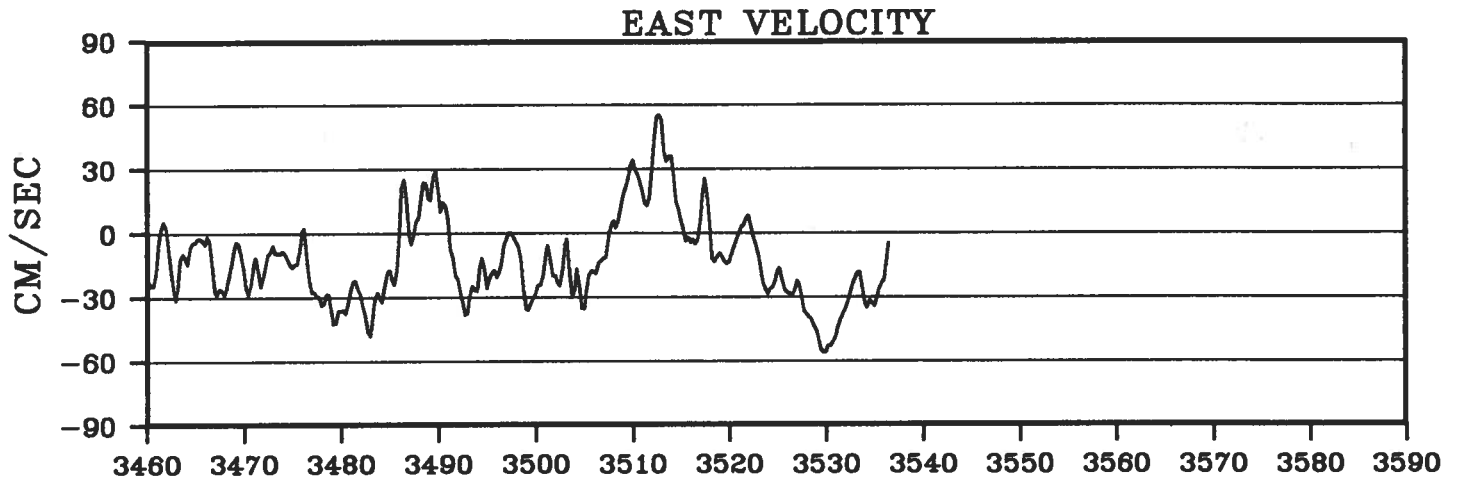
BUOY 6855



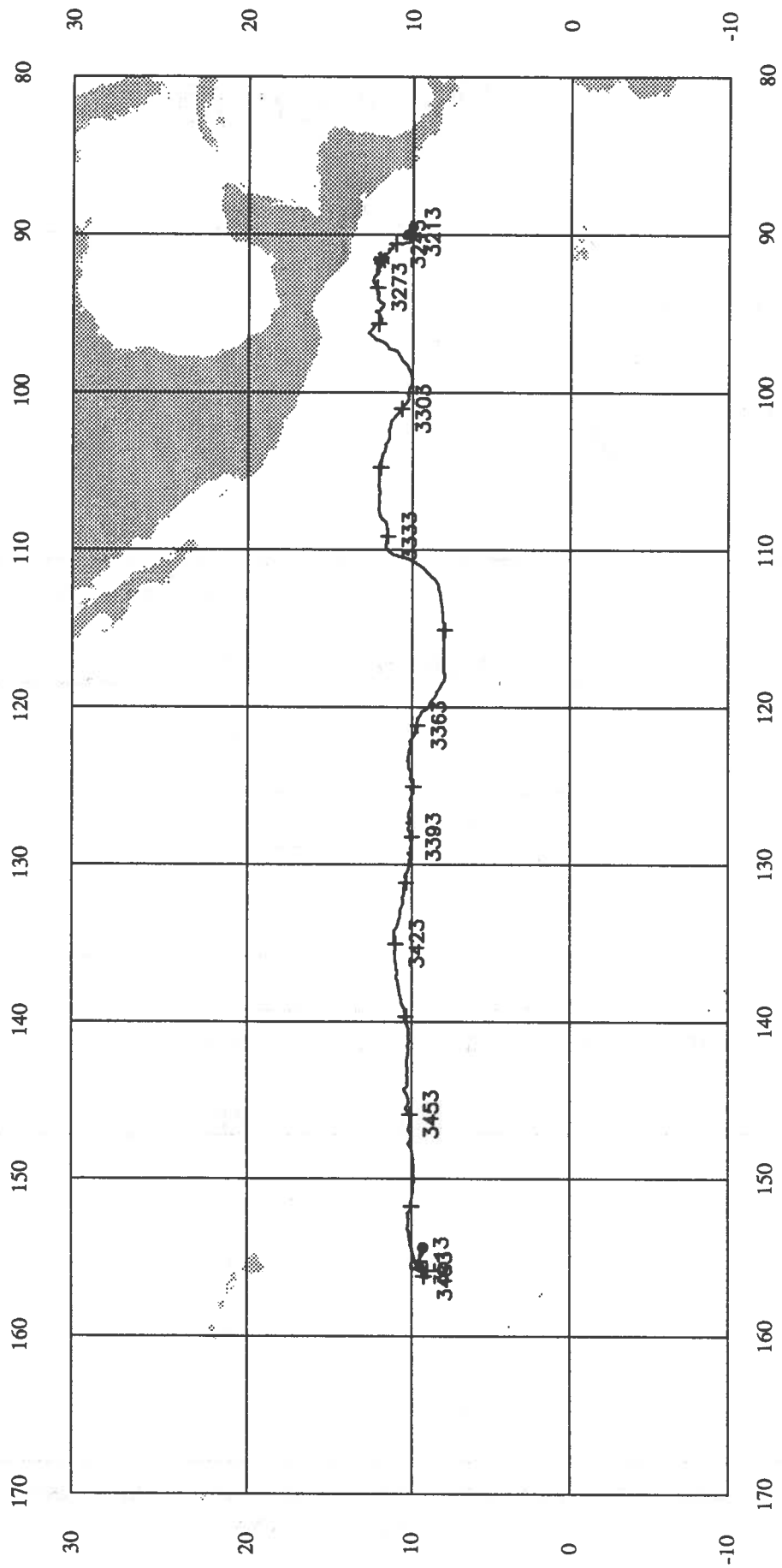
BUOY 6855



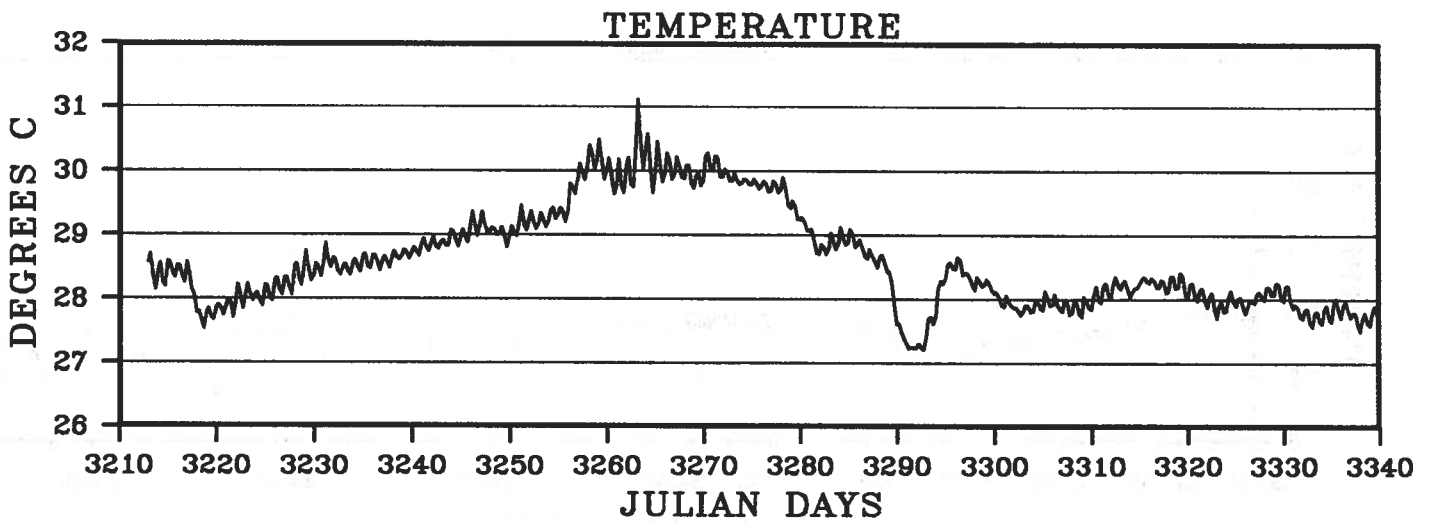
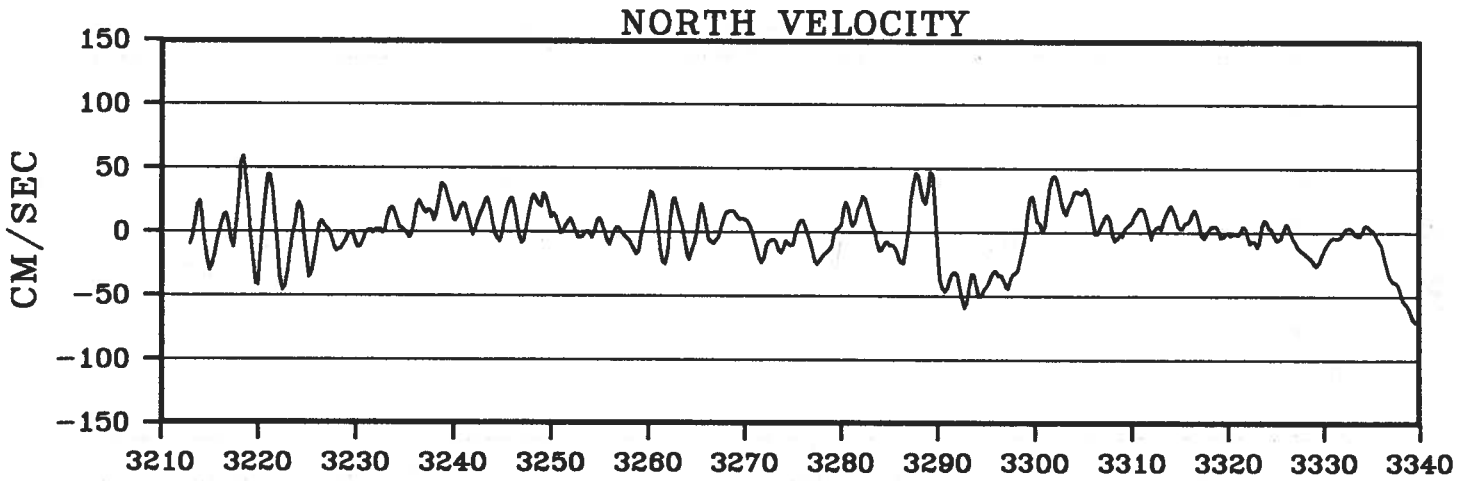
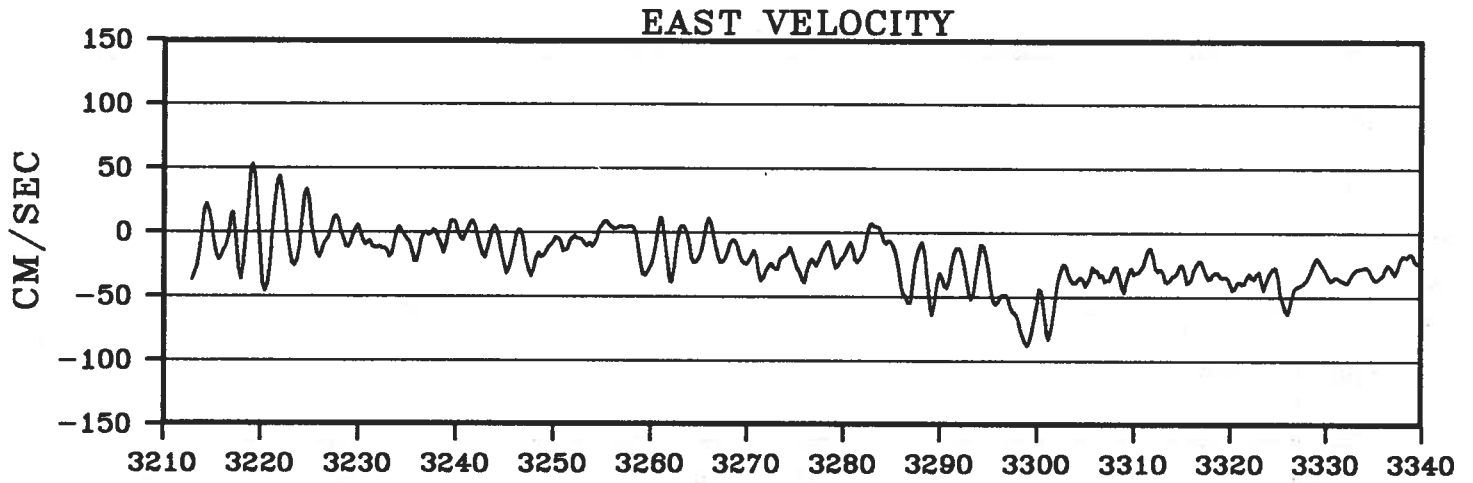
BUOY 6855



BUOY 6856

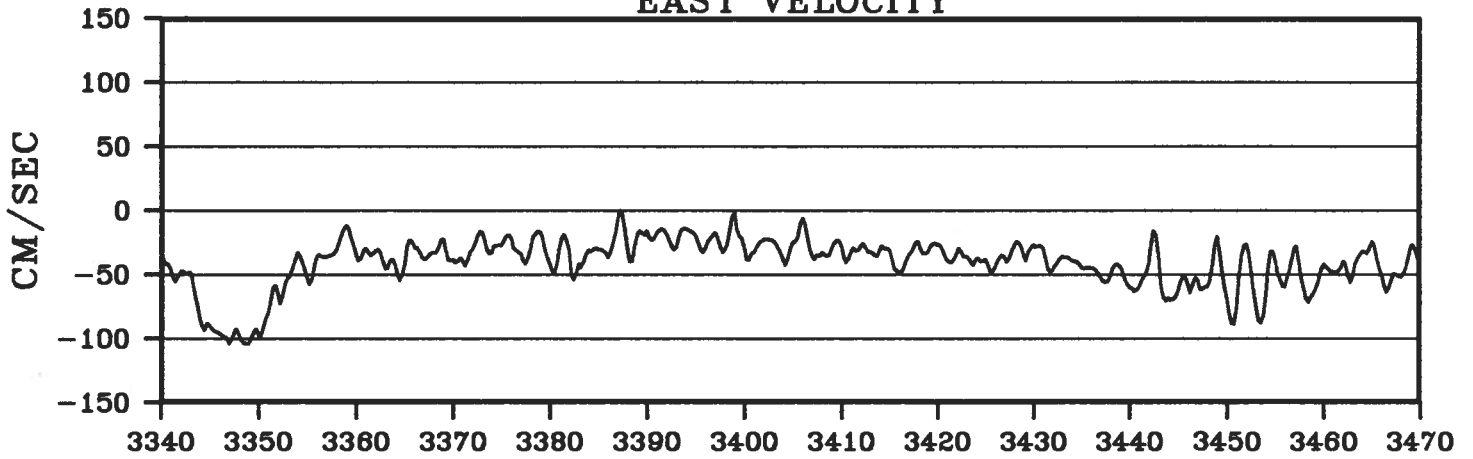


BUOY 6856

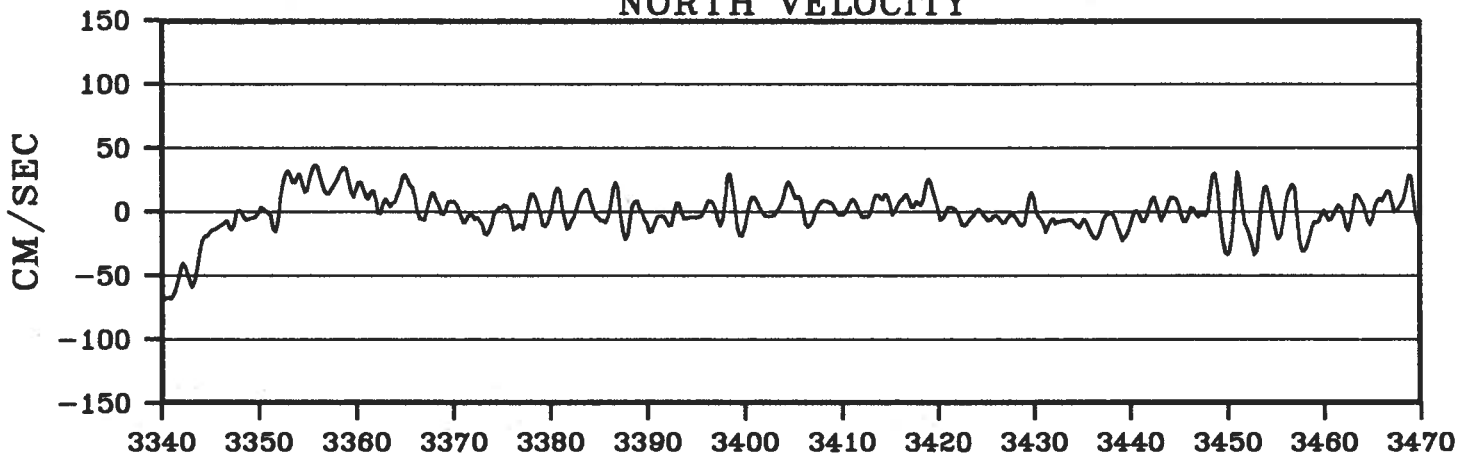


BUOY 6856

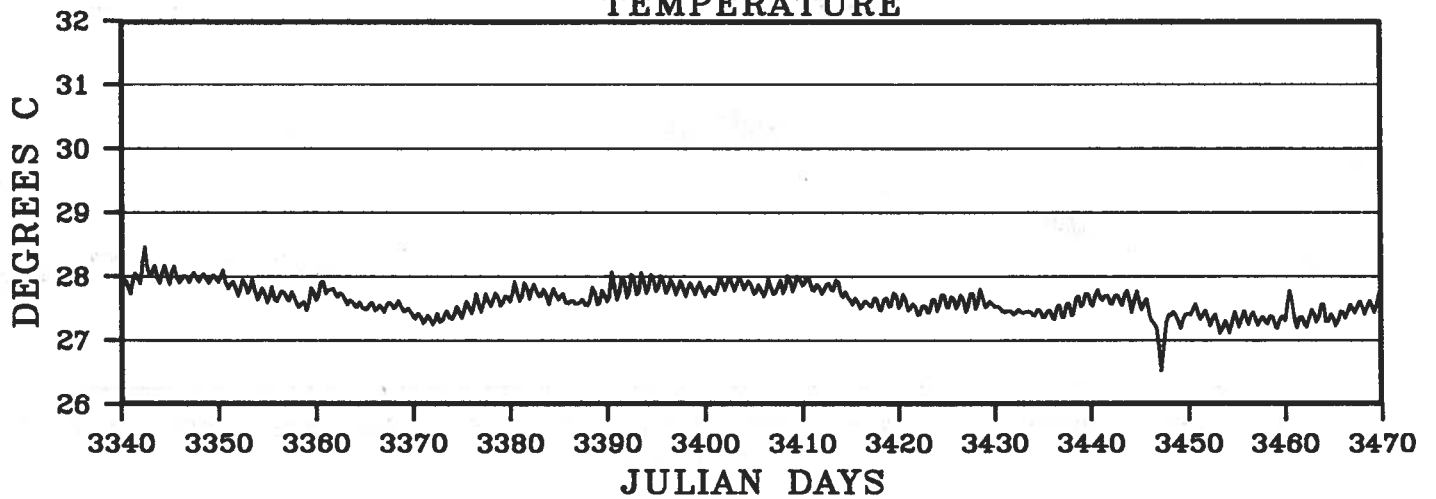
EAST VELOCITY



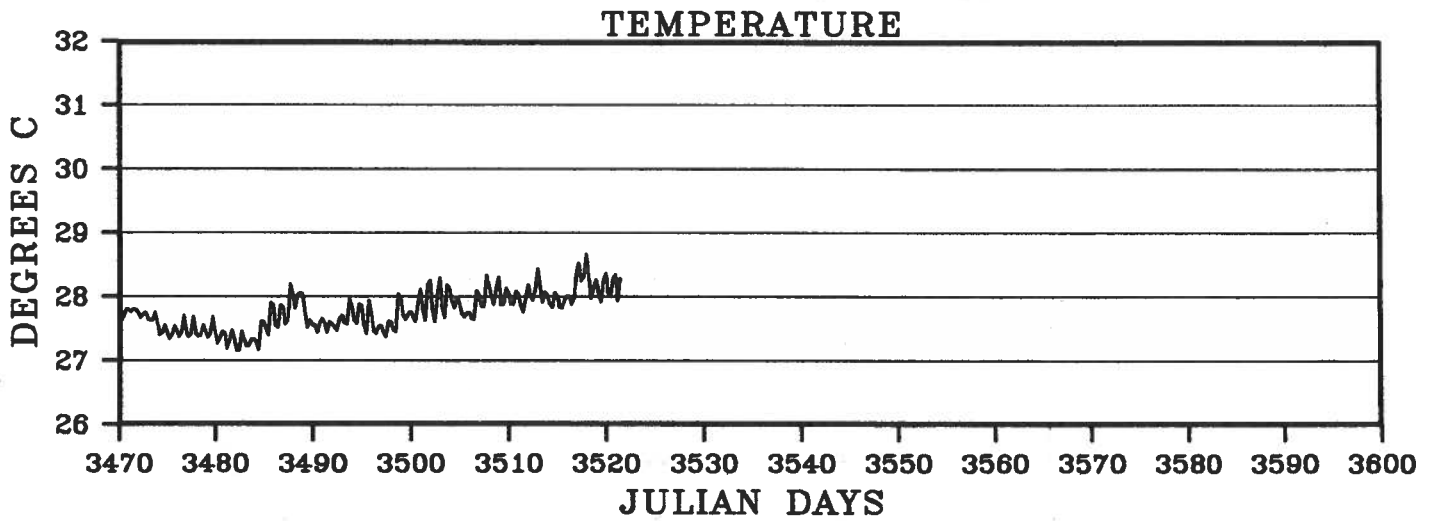
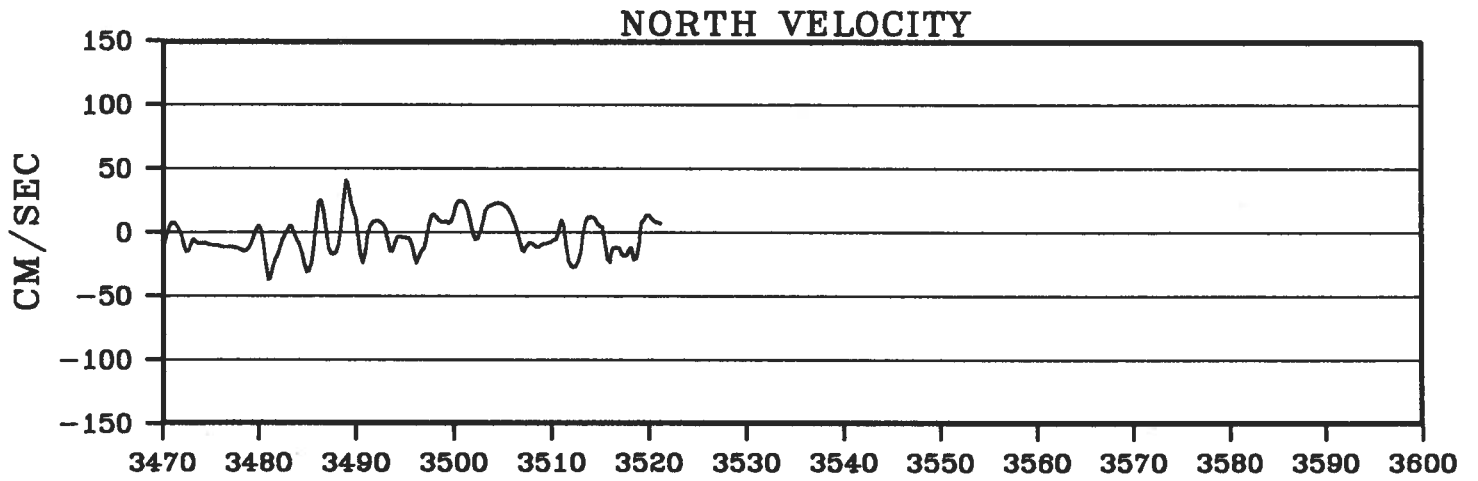
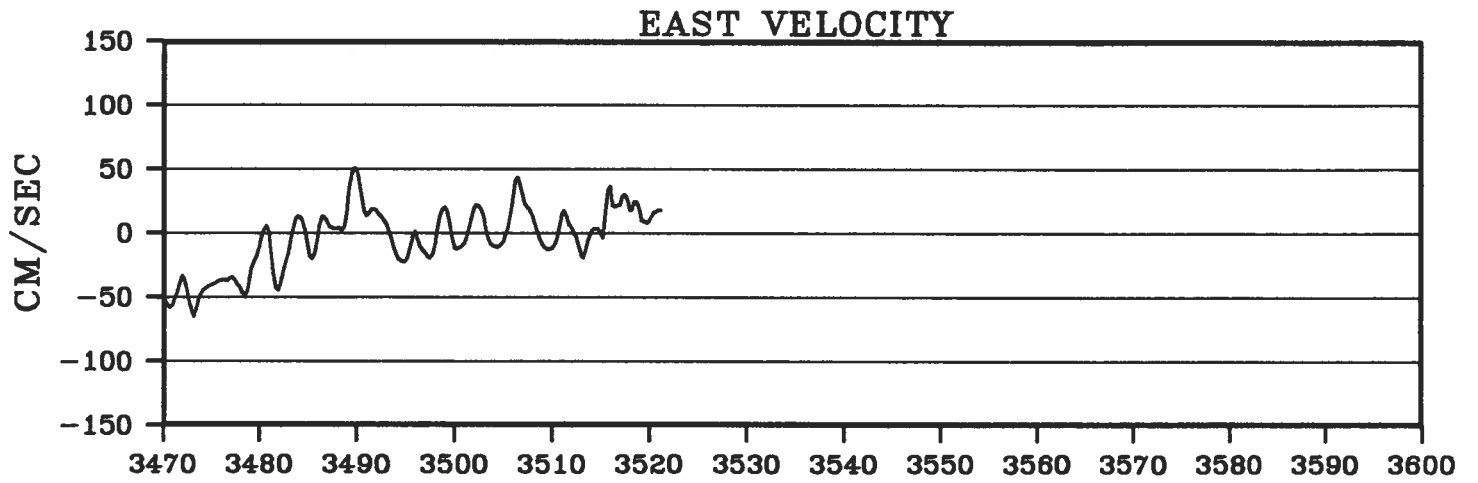
NORTH VELOCITY



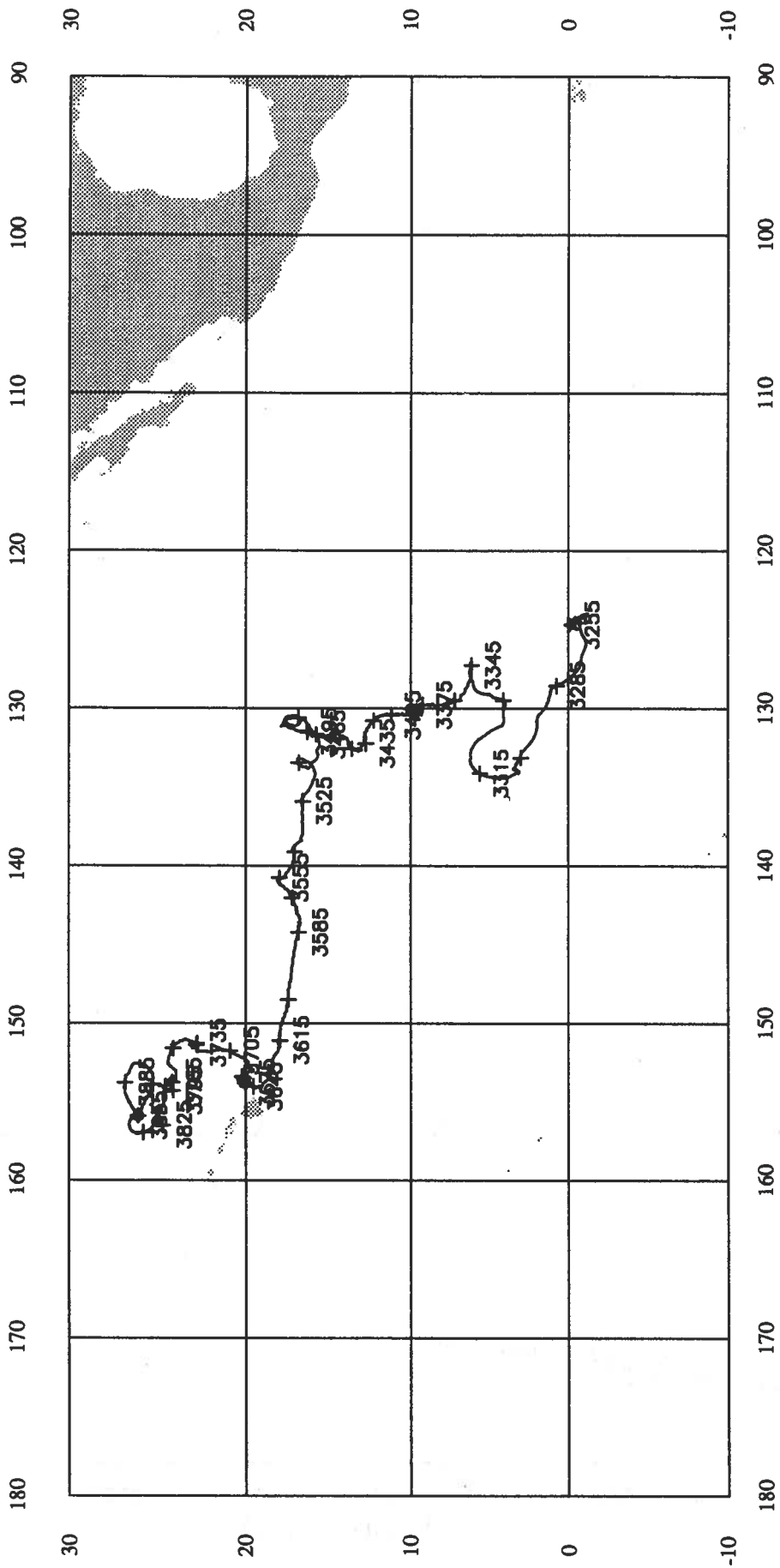
TEMPERATURE



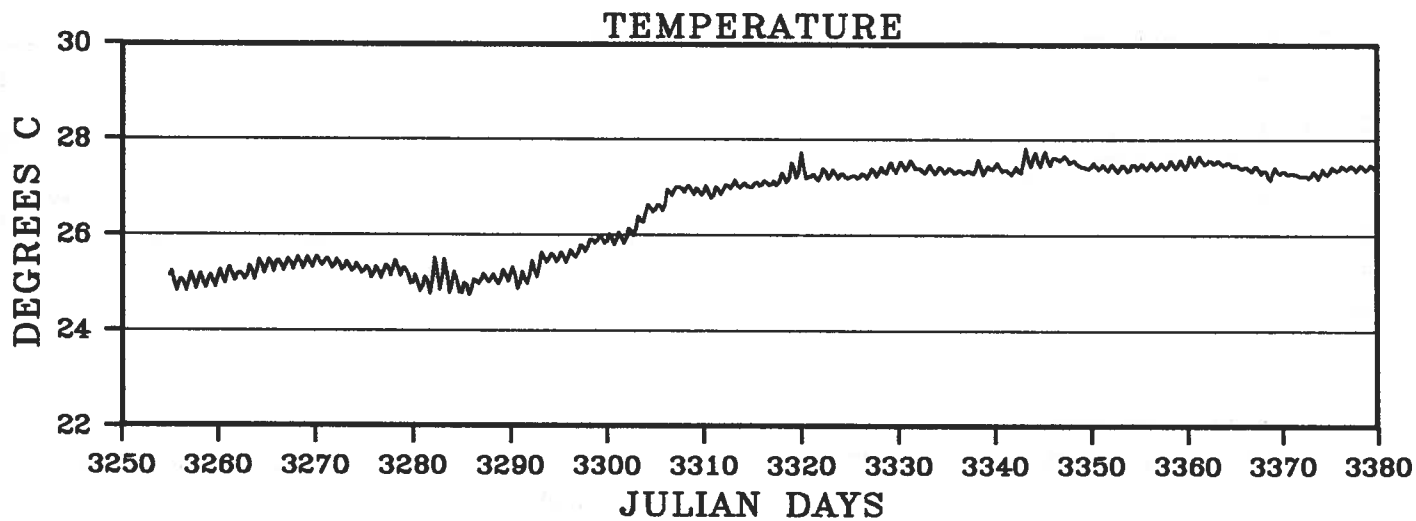
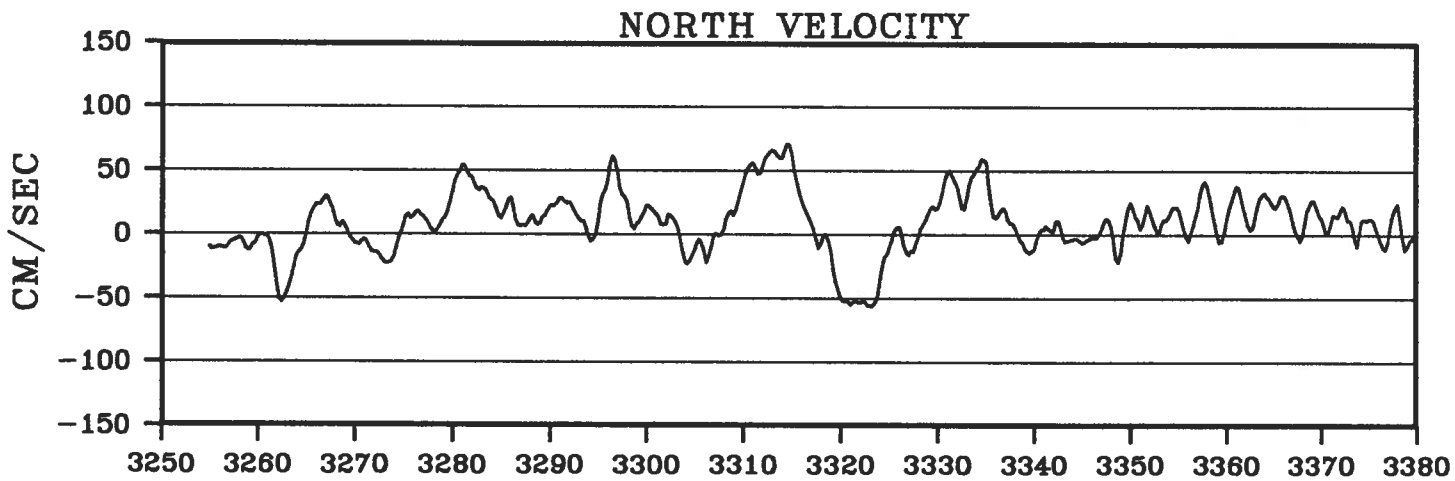
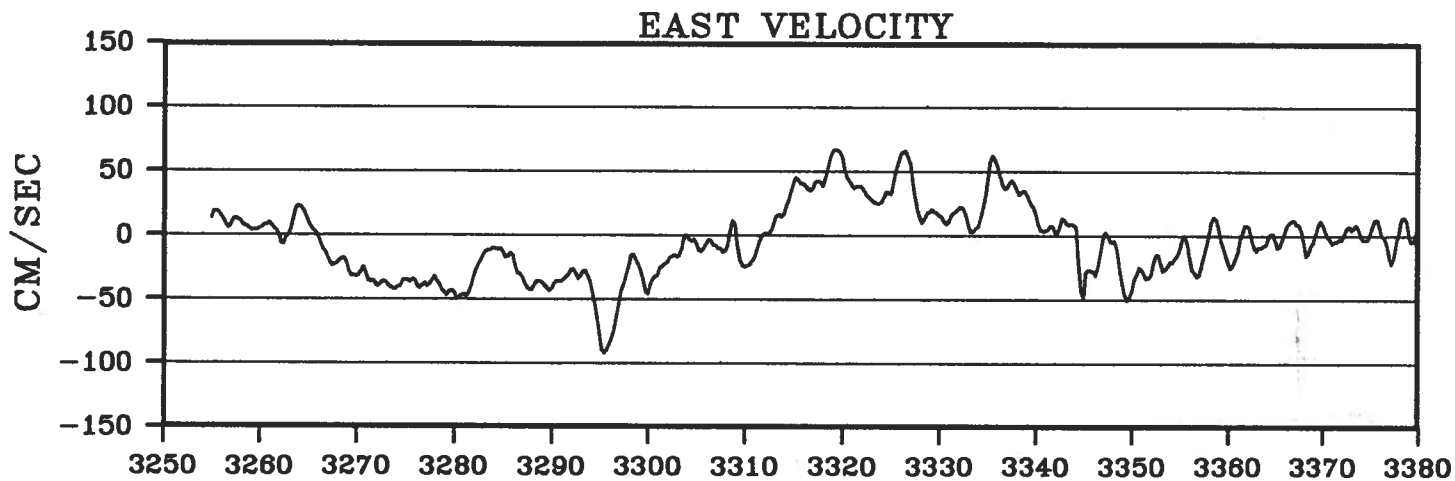
BUOY 6856



BUOY 6857

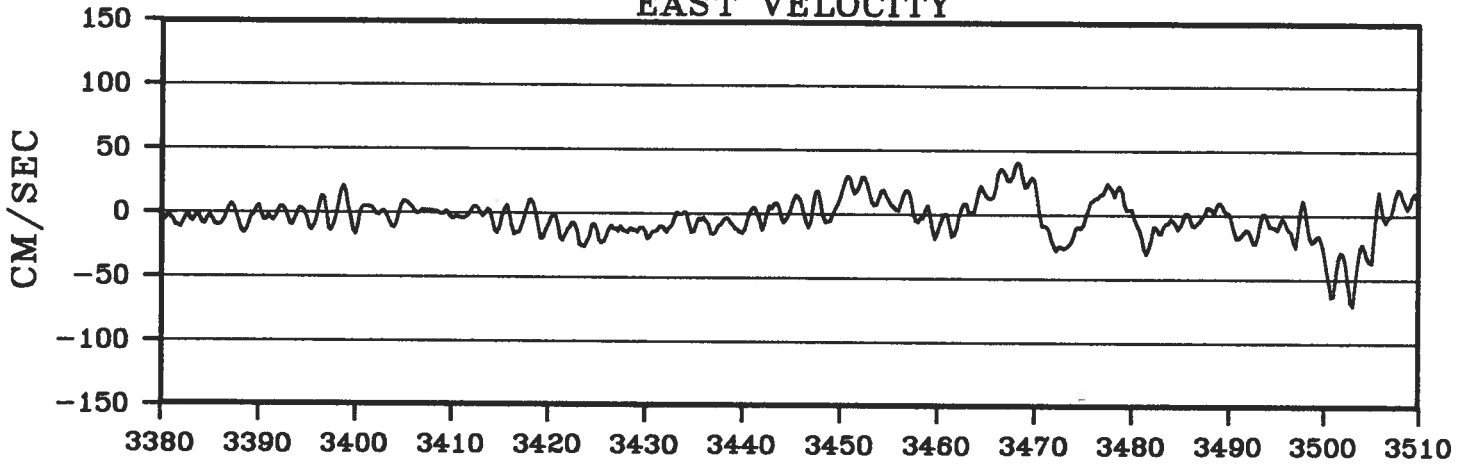


BUOY 6857

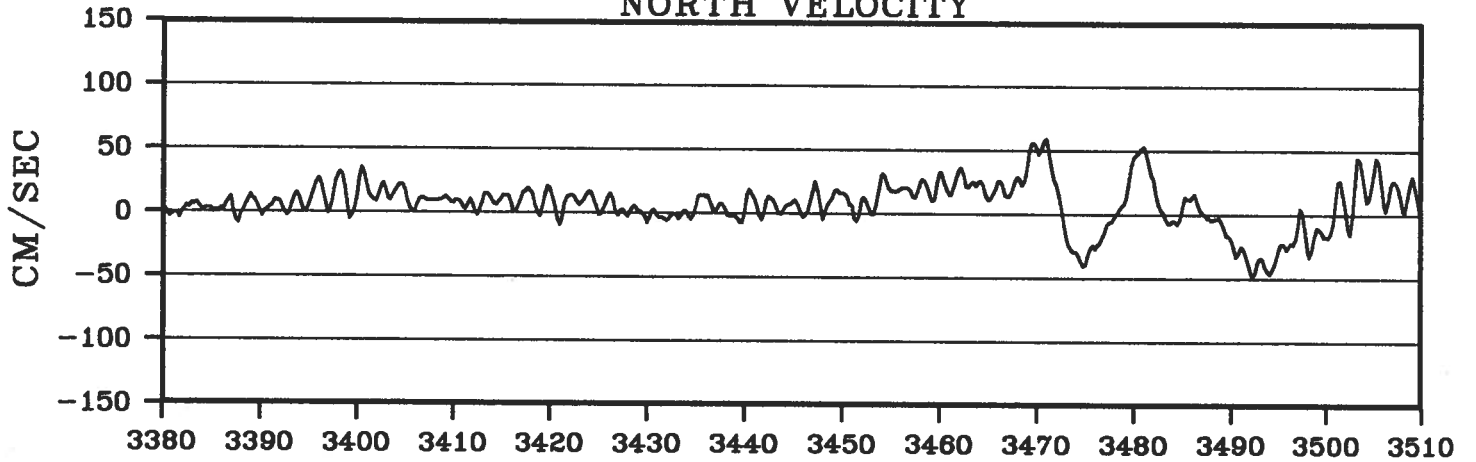


BUOY 6857

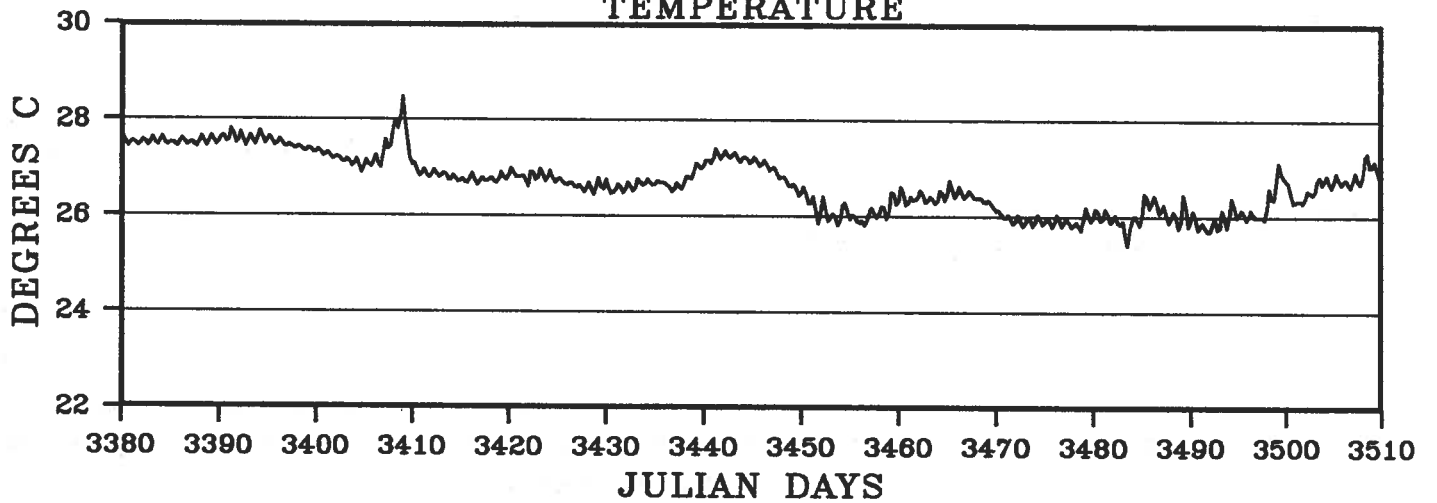
EAST VELOCITY



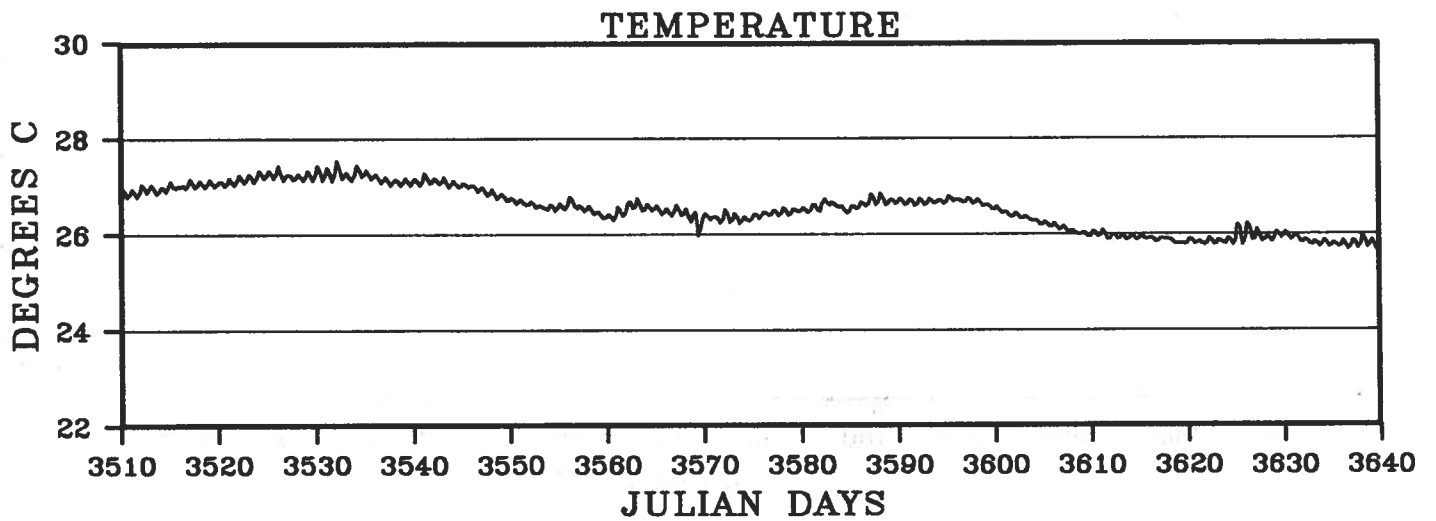
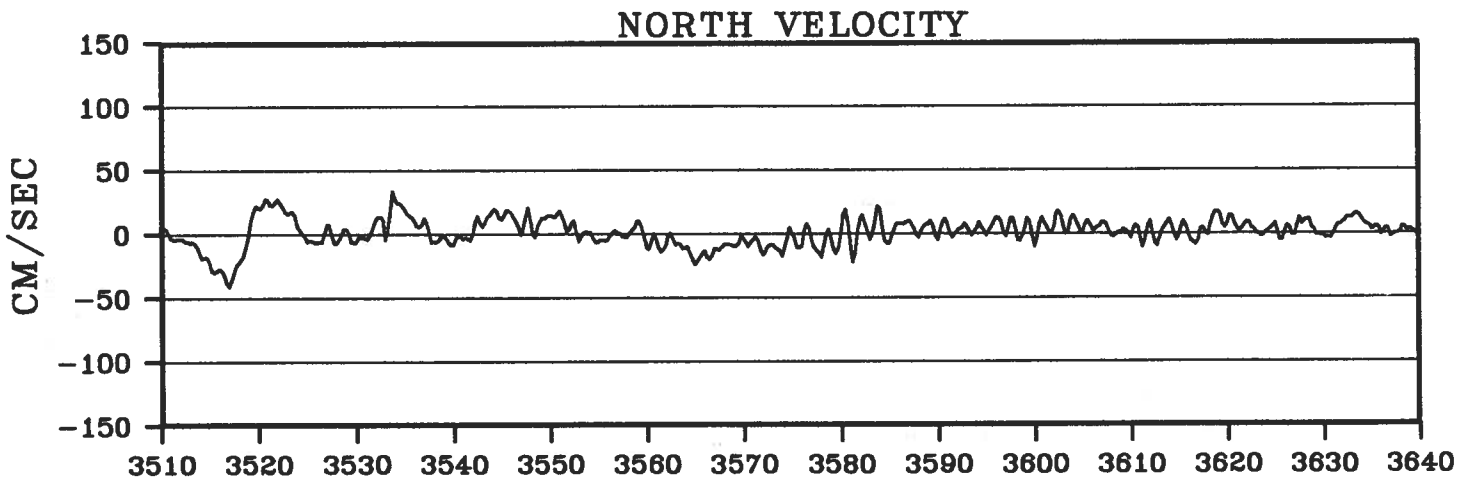
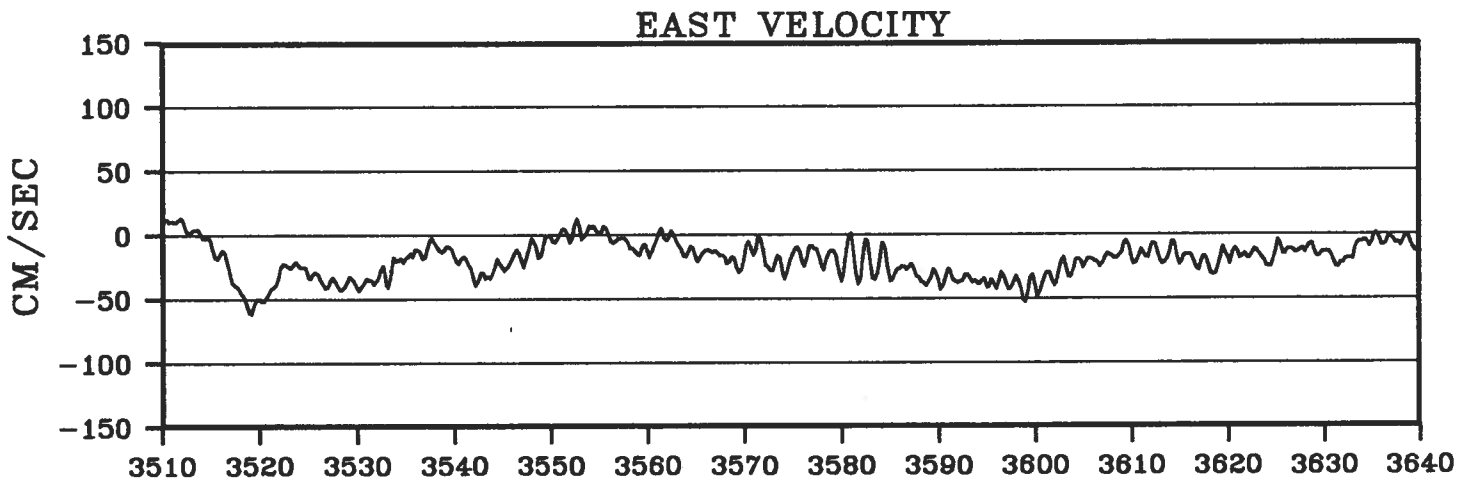
NORTH VELOCITY



TEMPERATURE

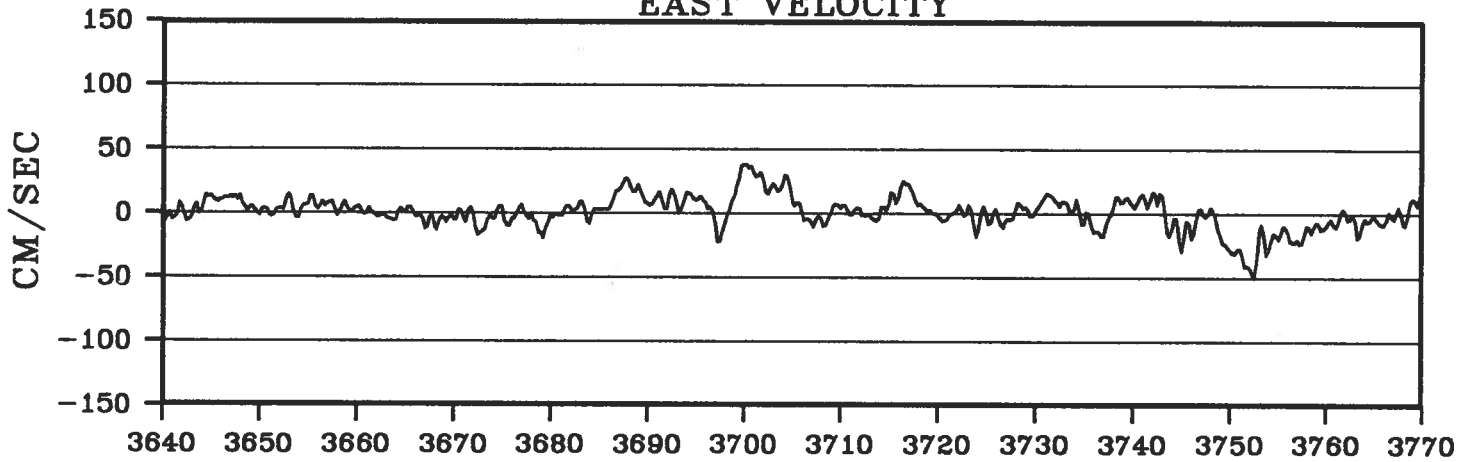


BUOY 6857

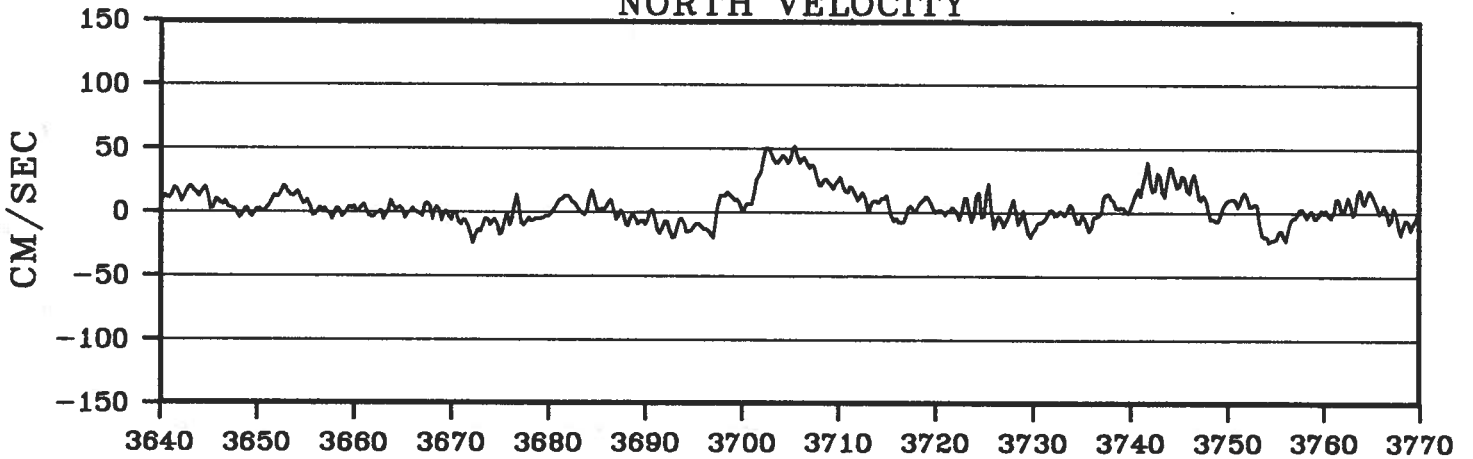


BUOY 6857

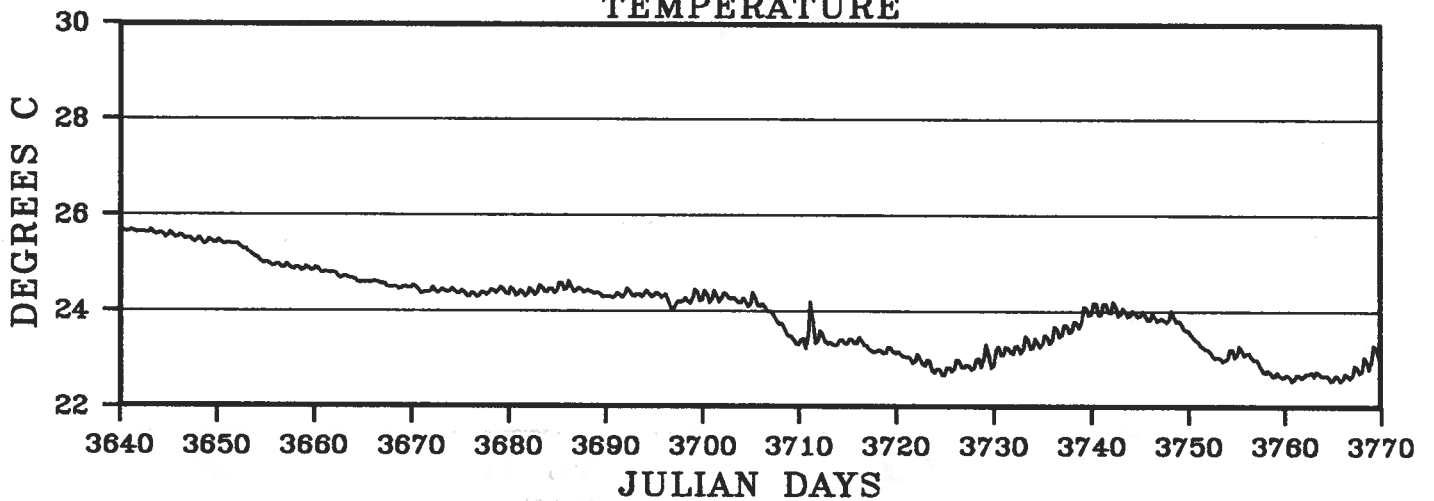
EAST VELOCITY



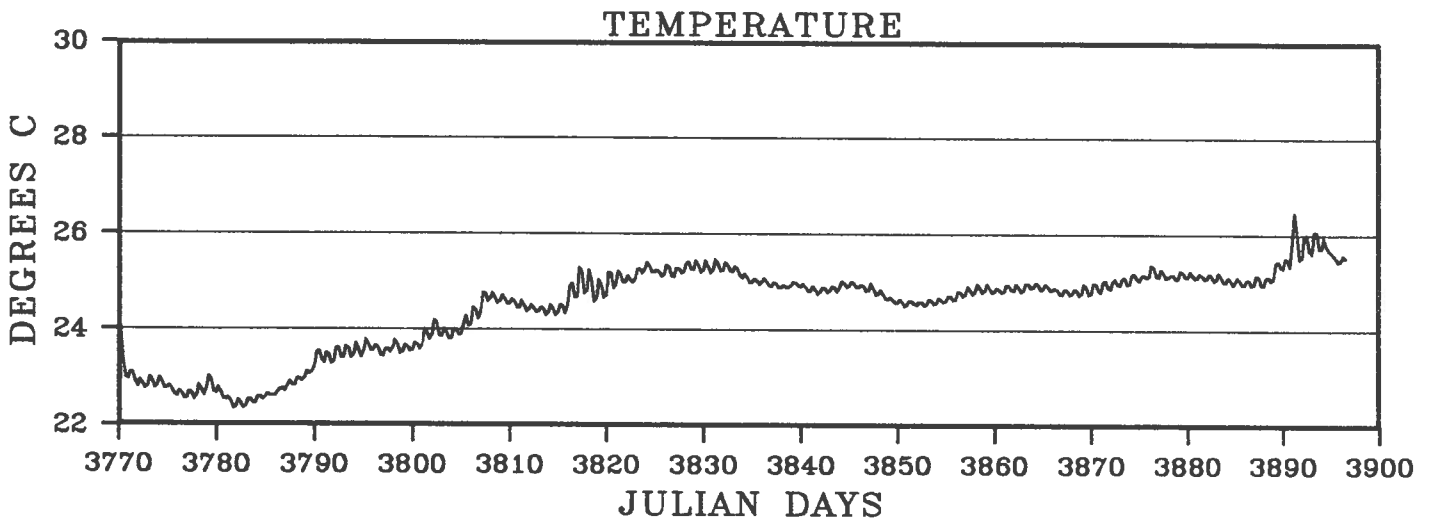
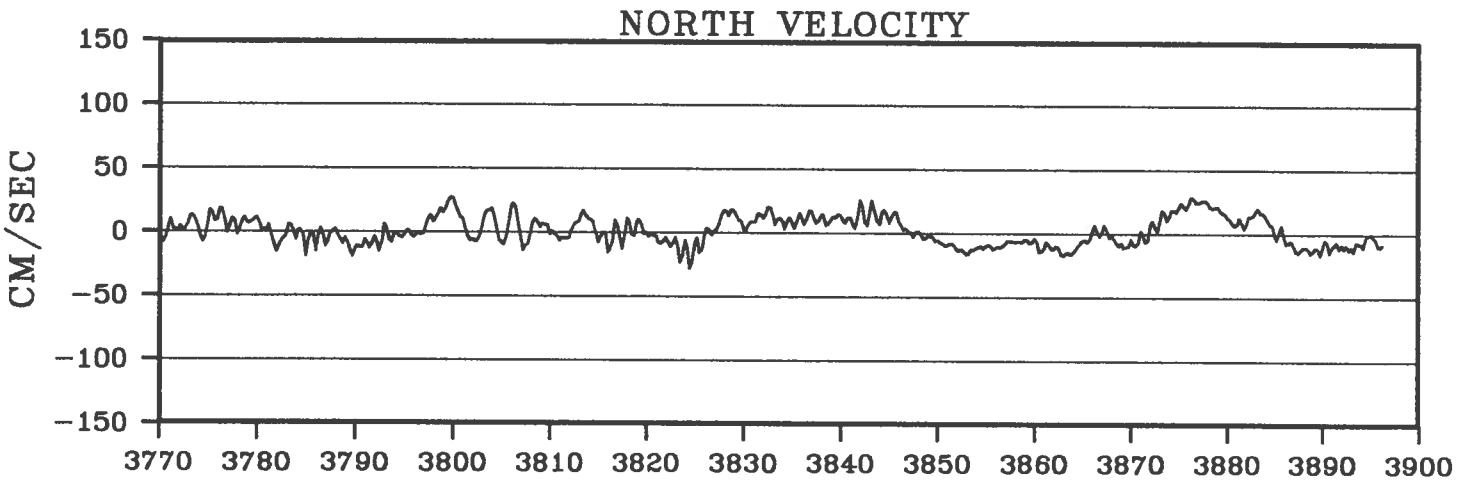
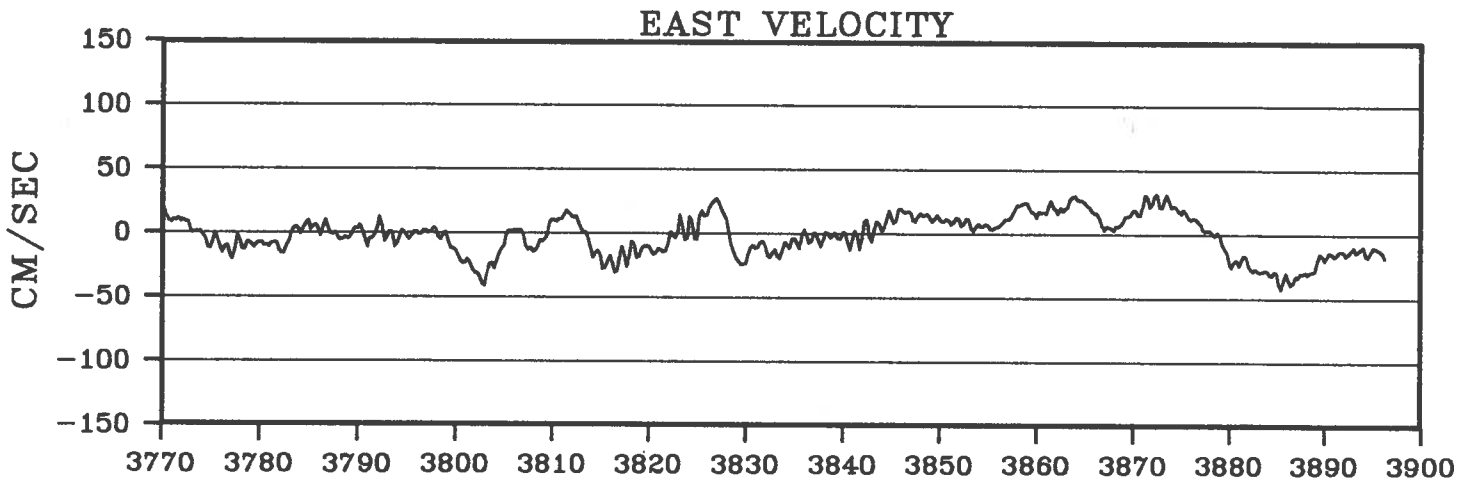
NORTH VELOCITY



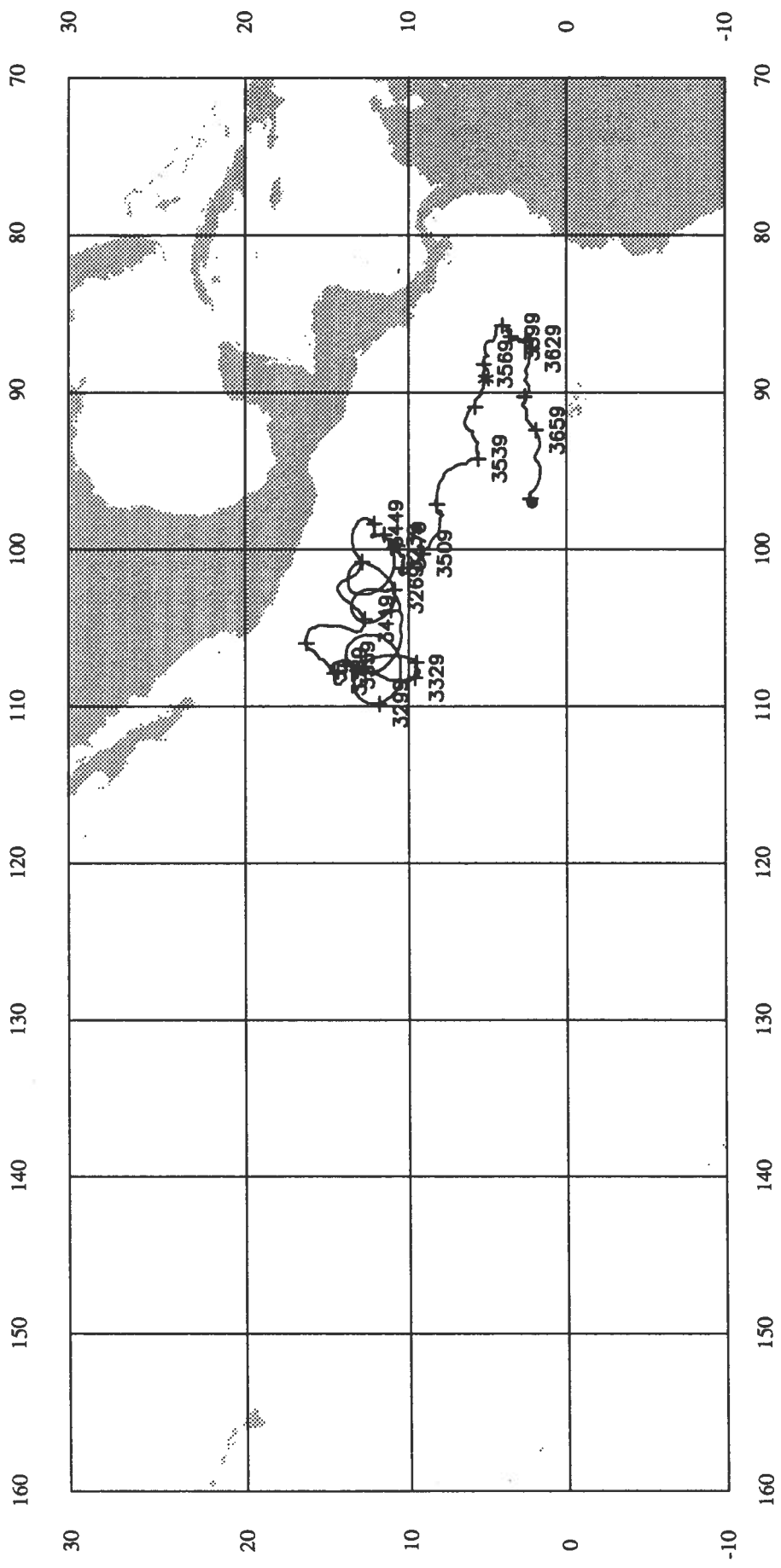
TEMPERATURE



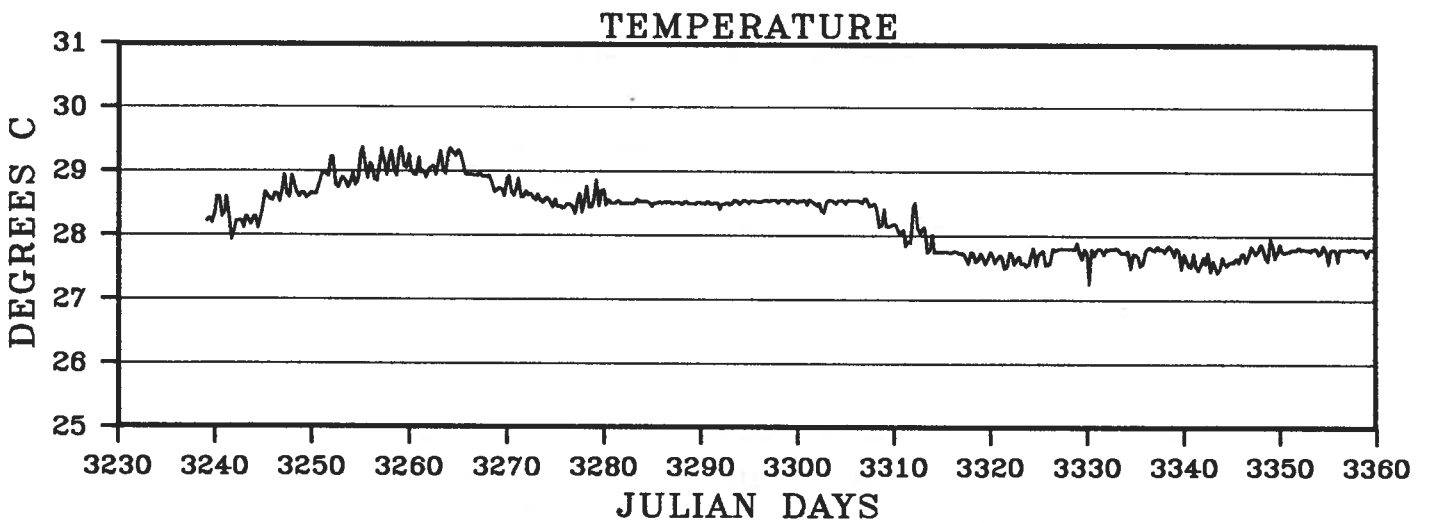
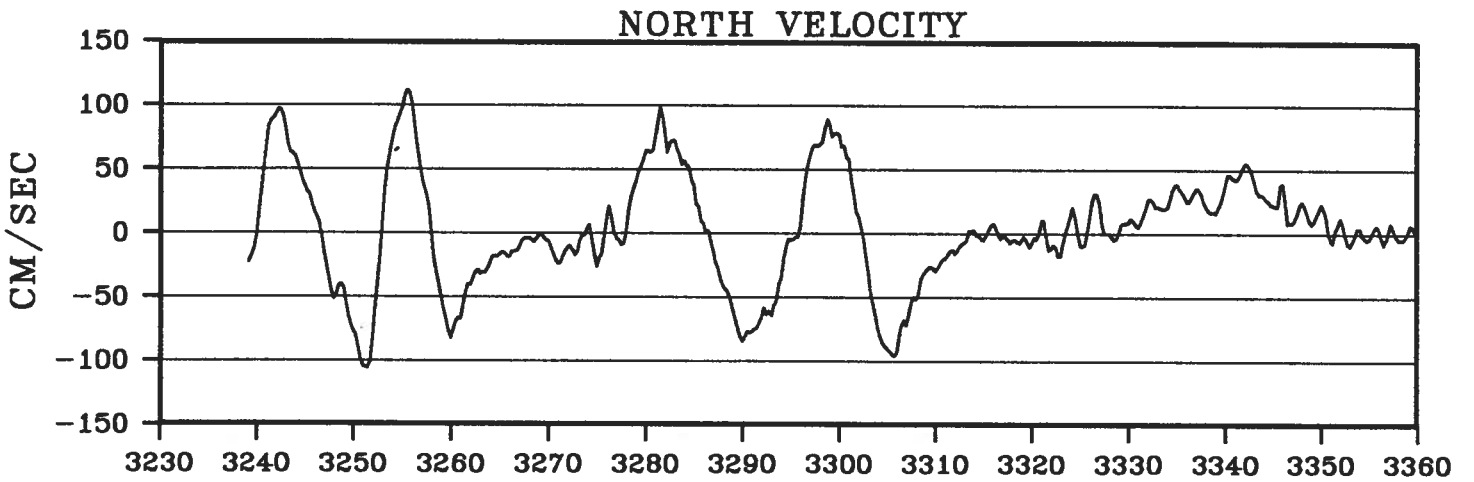
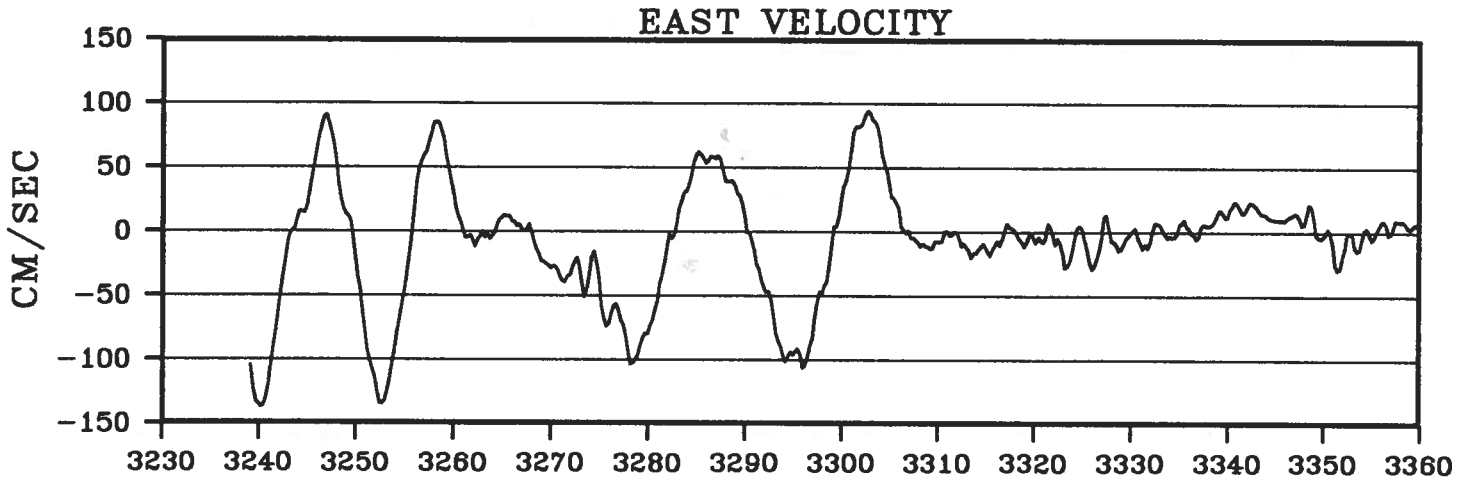
BUOY 6857



BUOY 6858

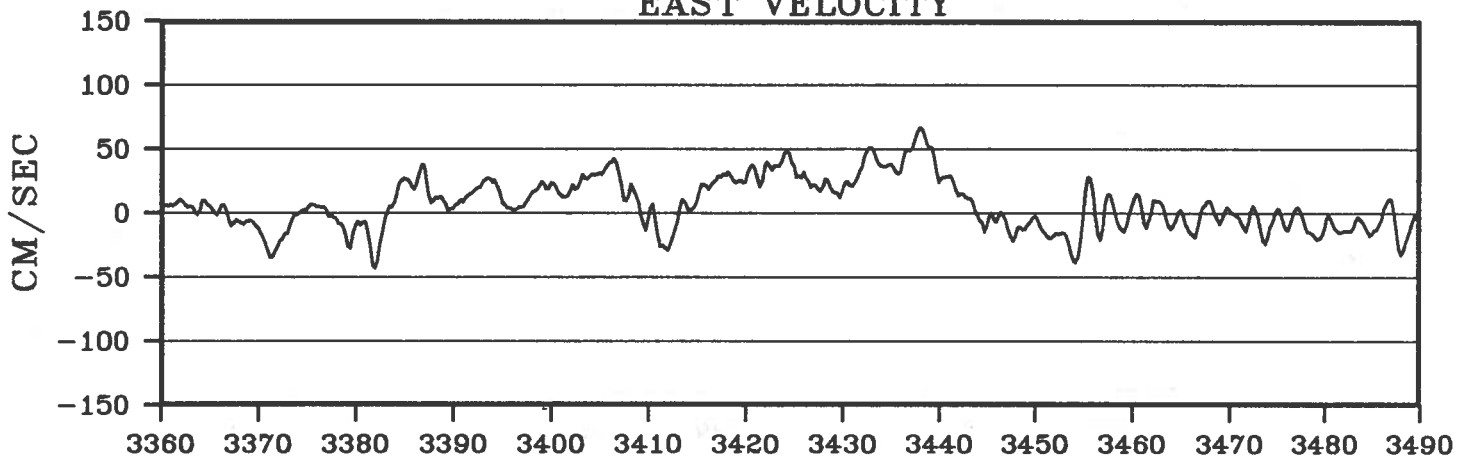


BUOY 6858

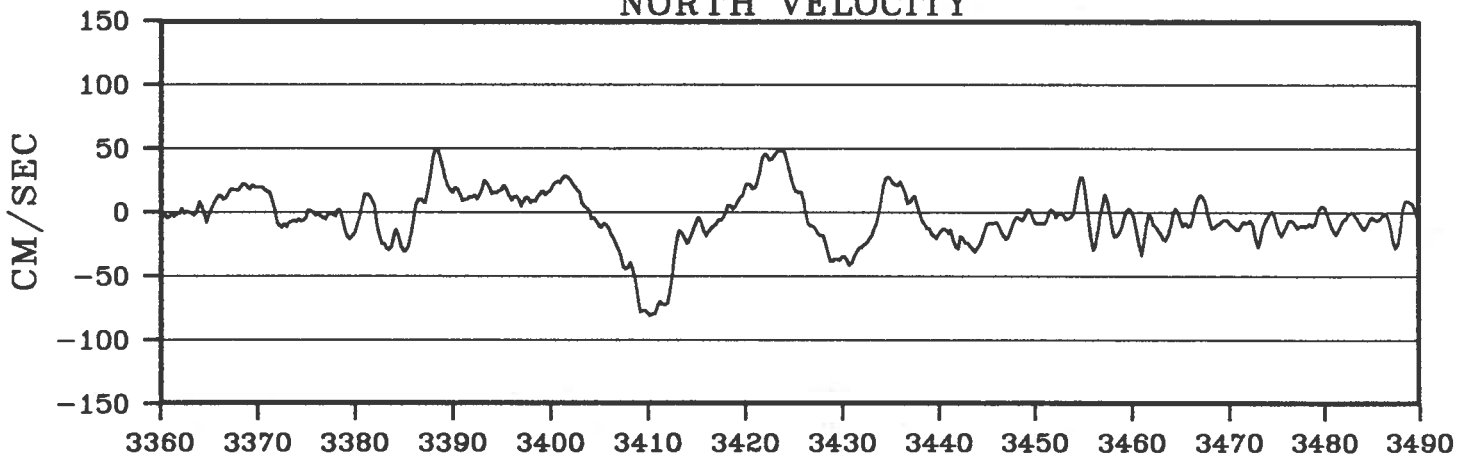


BUOY 6858

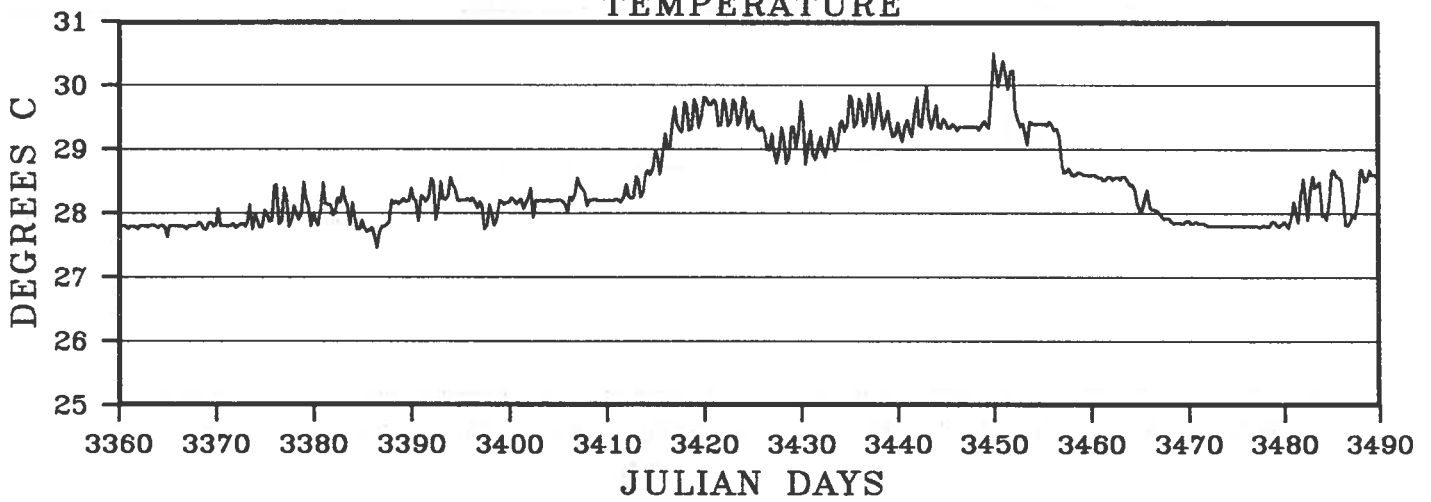
EAST VELOCITY



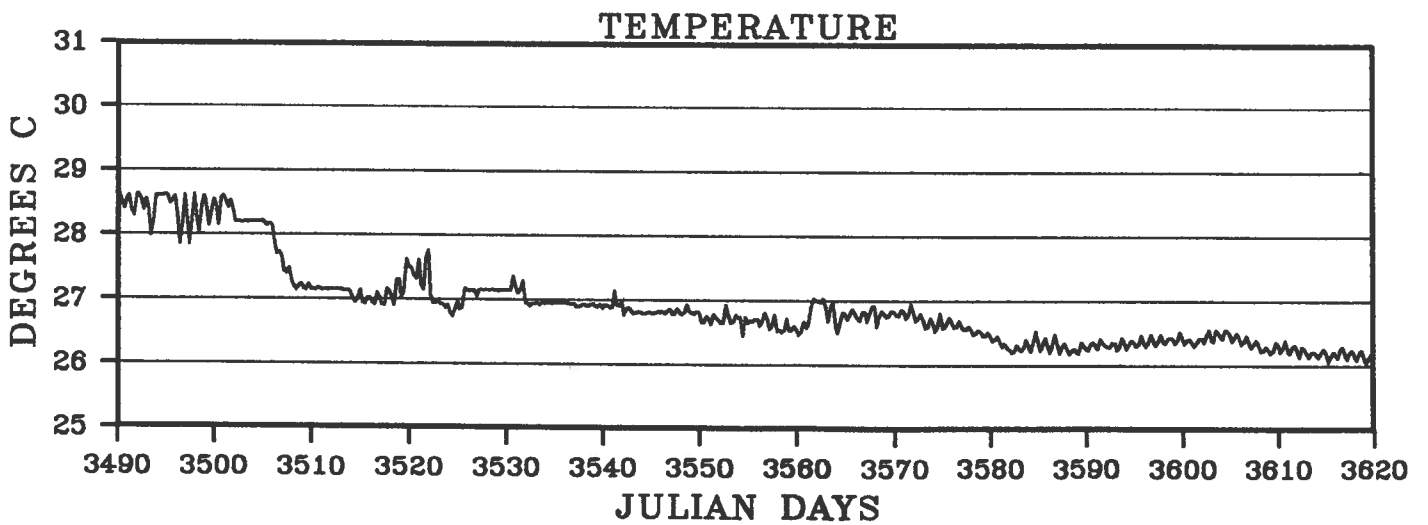
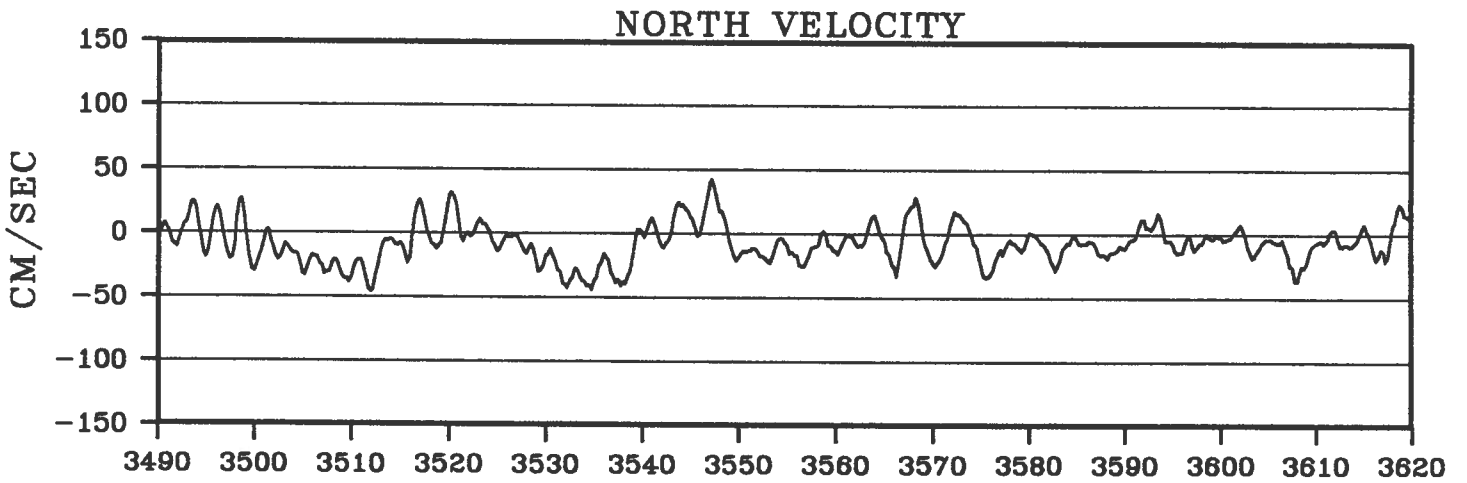
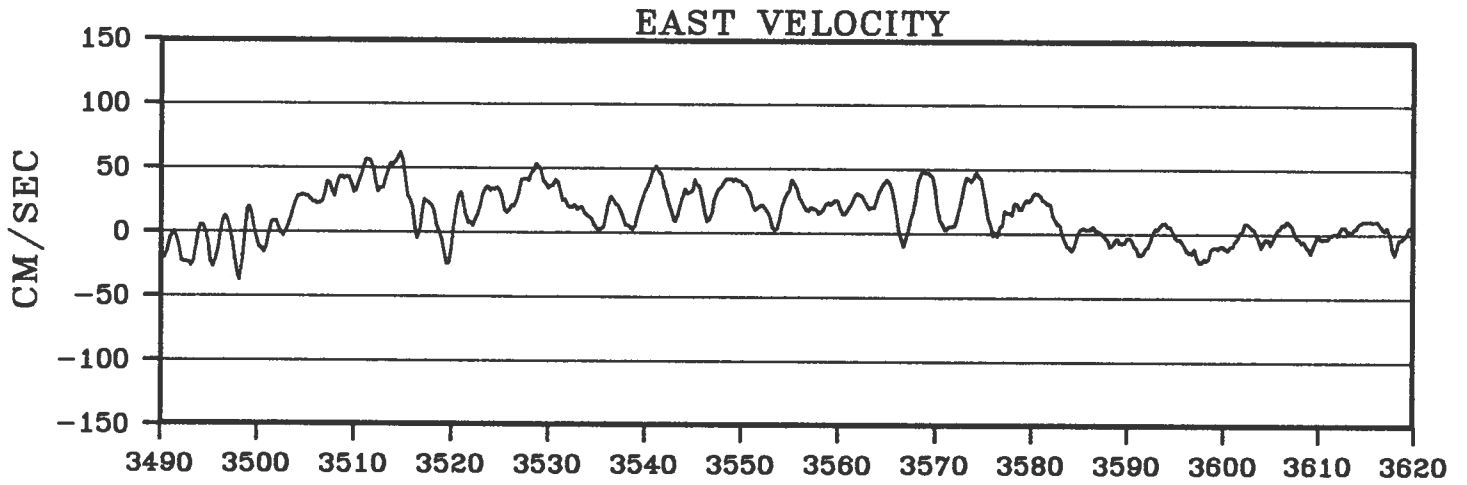
NORTH VELOCITY



TEMPERATURE

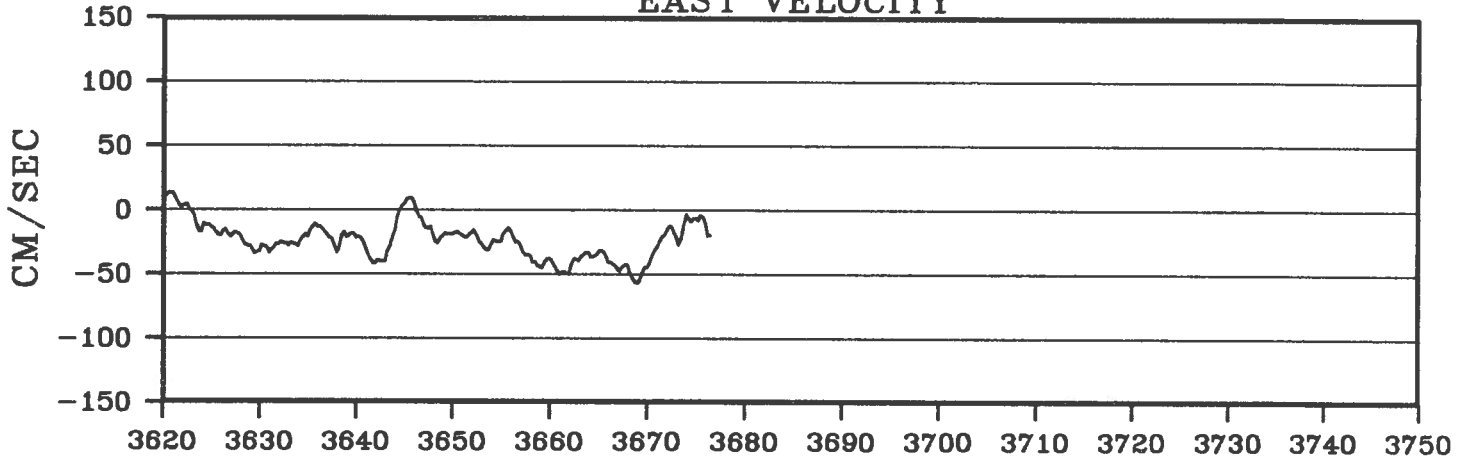


BUOY 6858

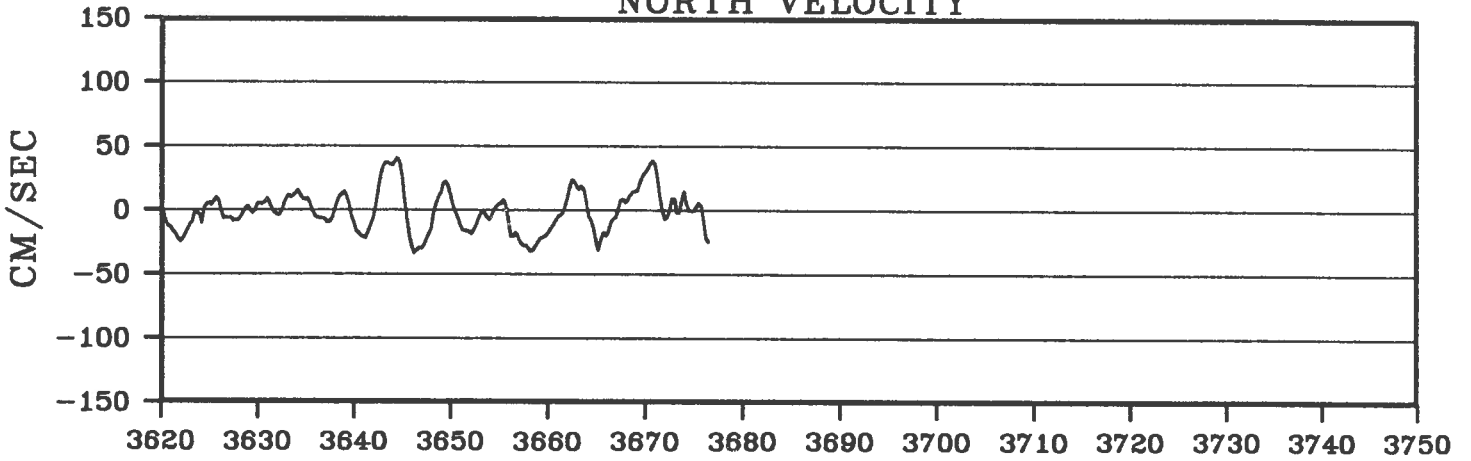


BUOY 6858

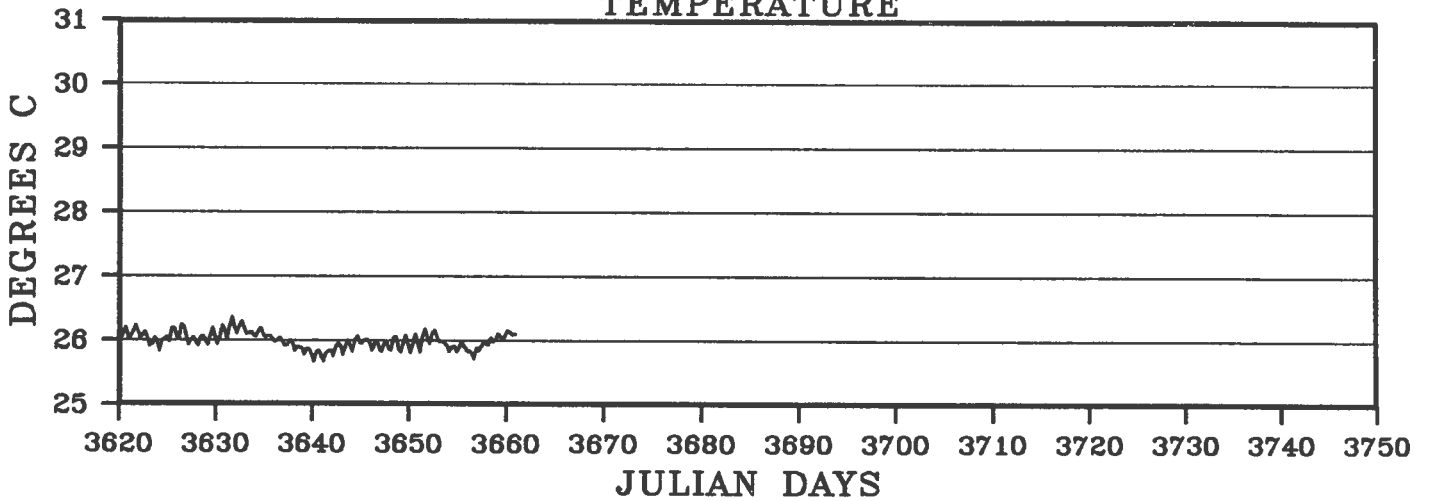
EAST VELOCITY



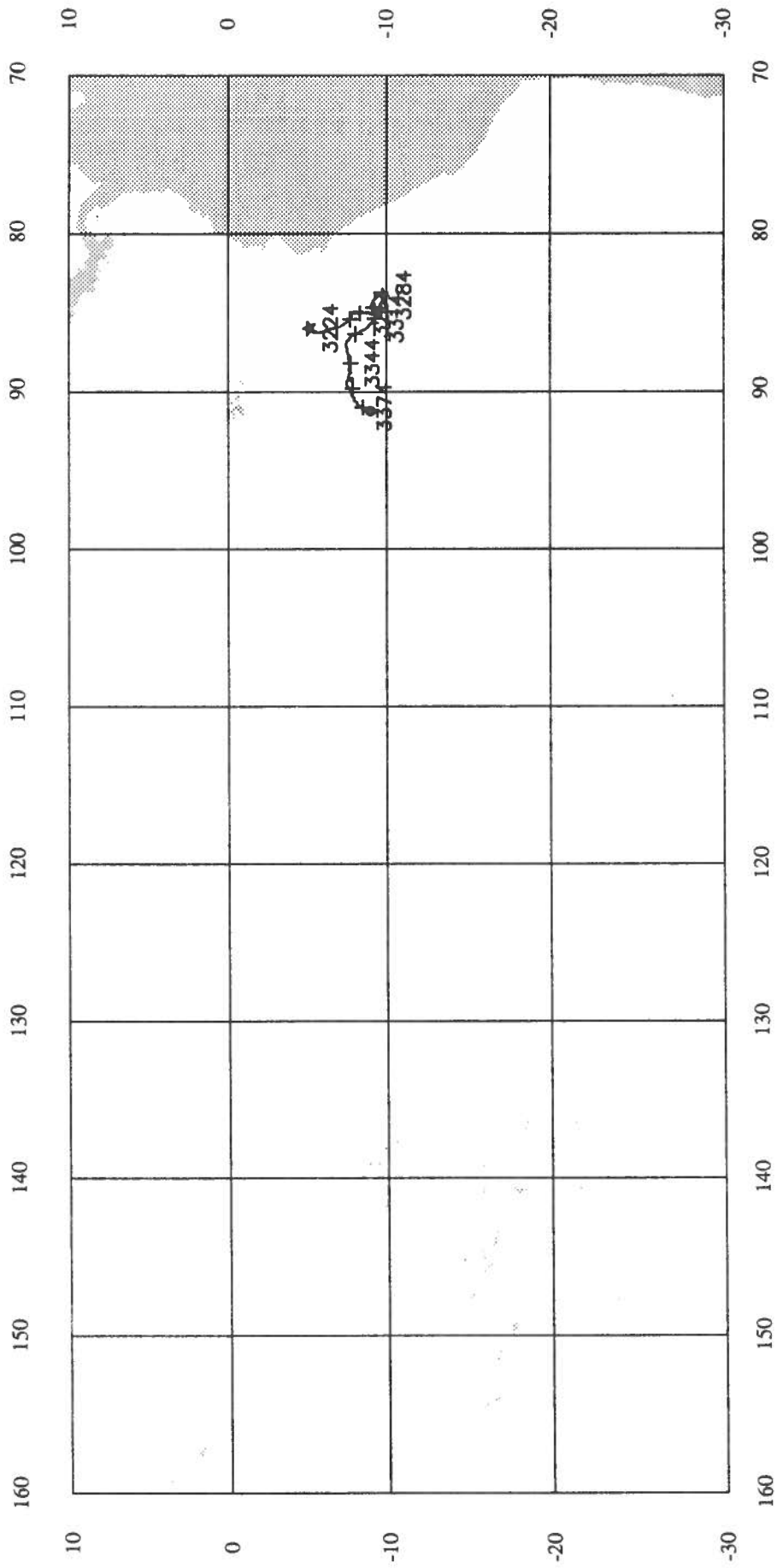
NORTH VELOCITY



TEMPERATURE

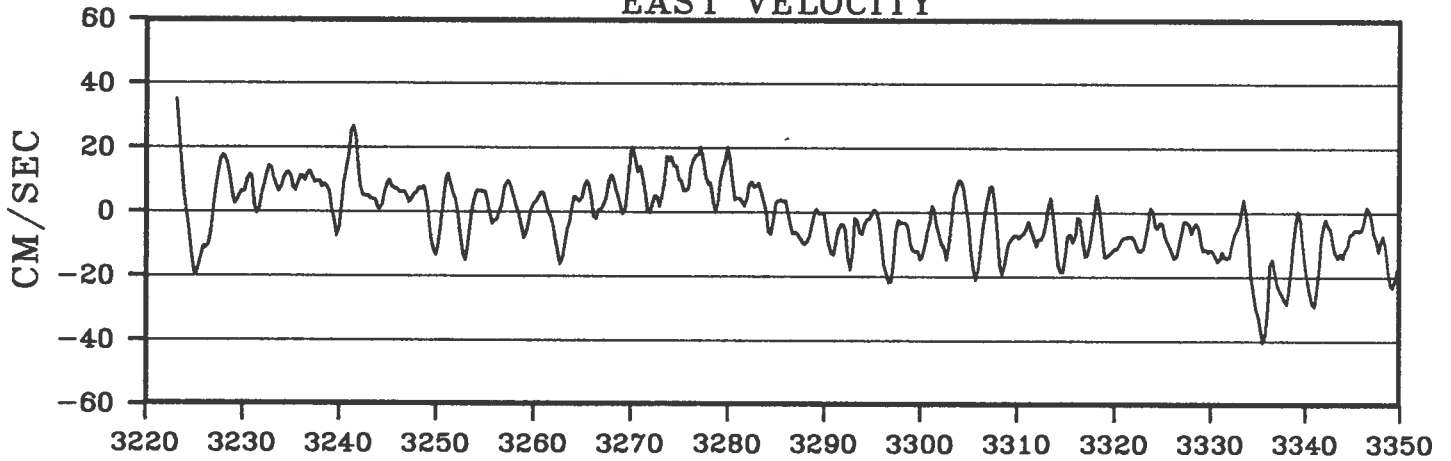


BUOY 6859

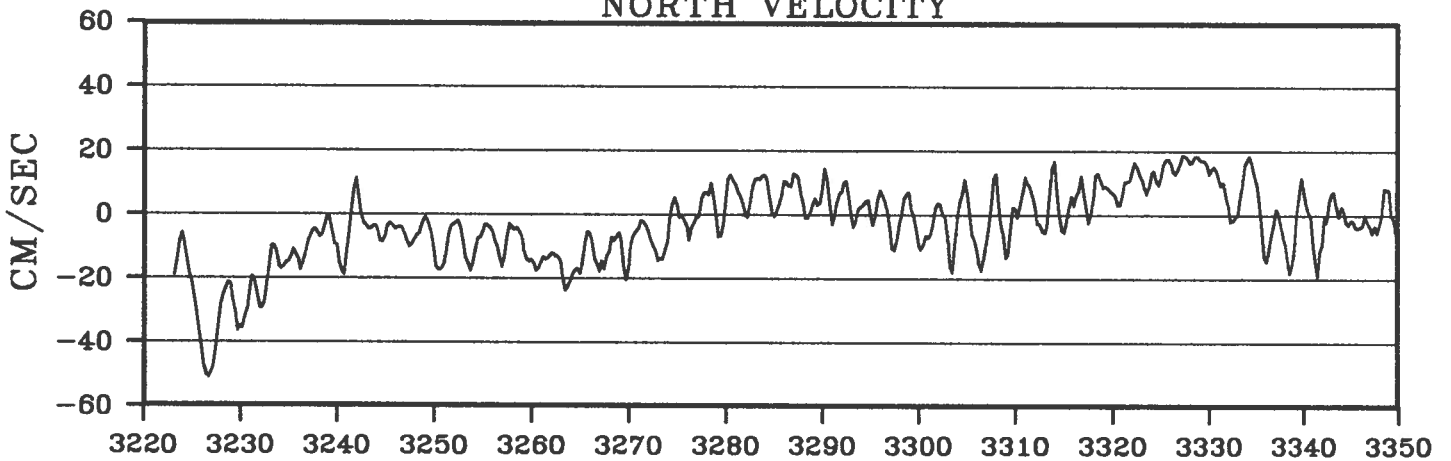


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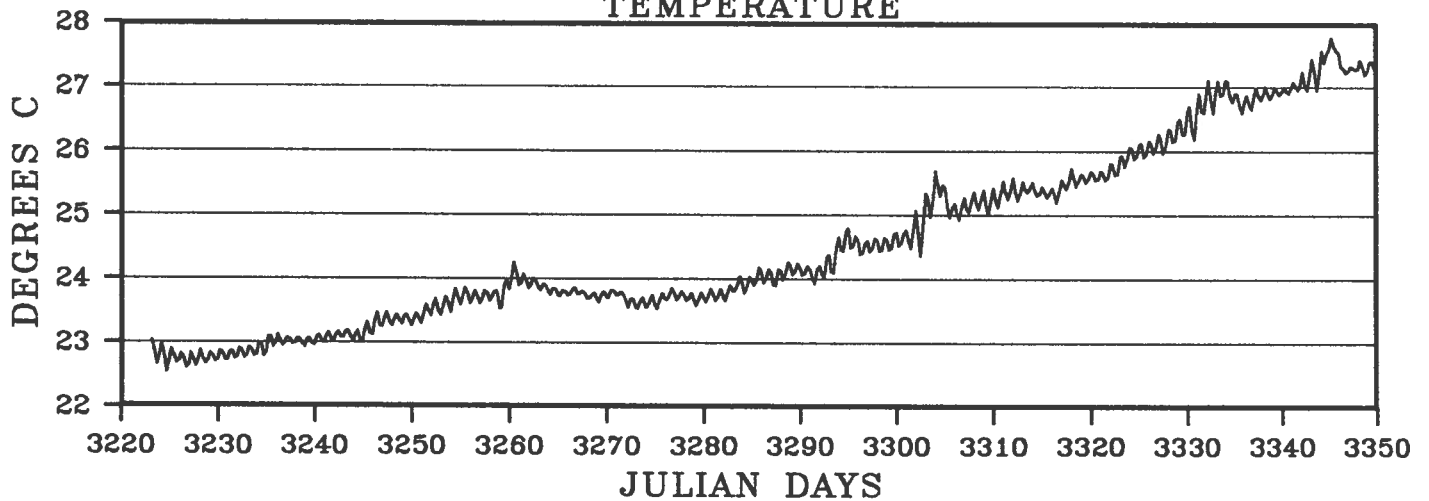
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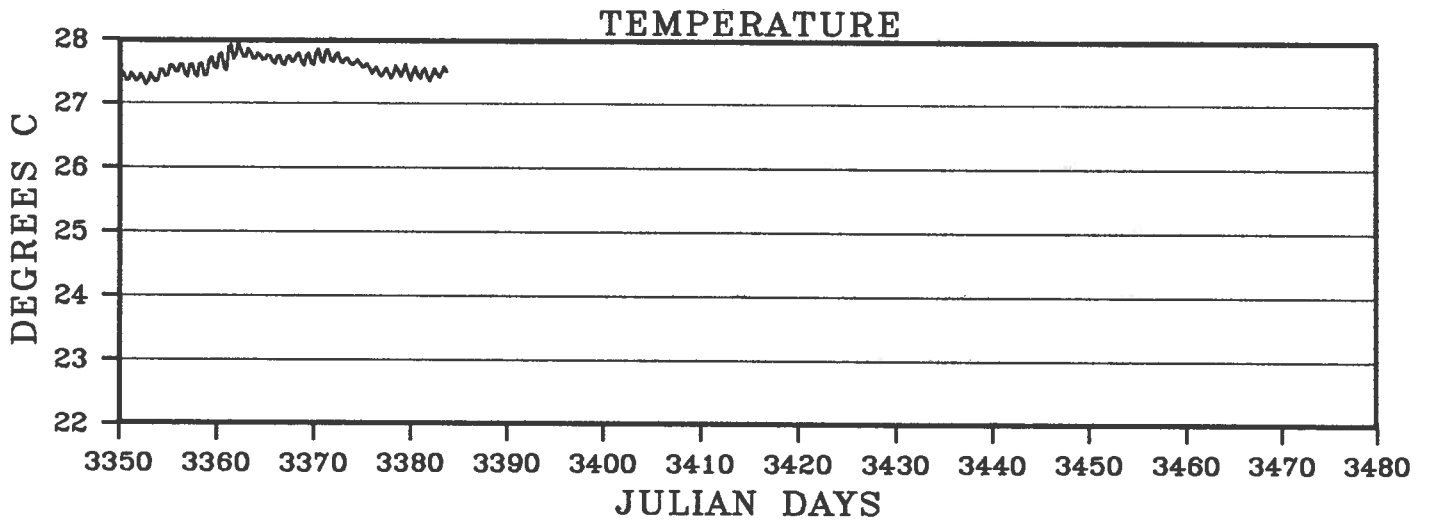
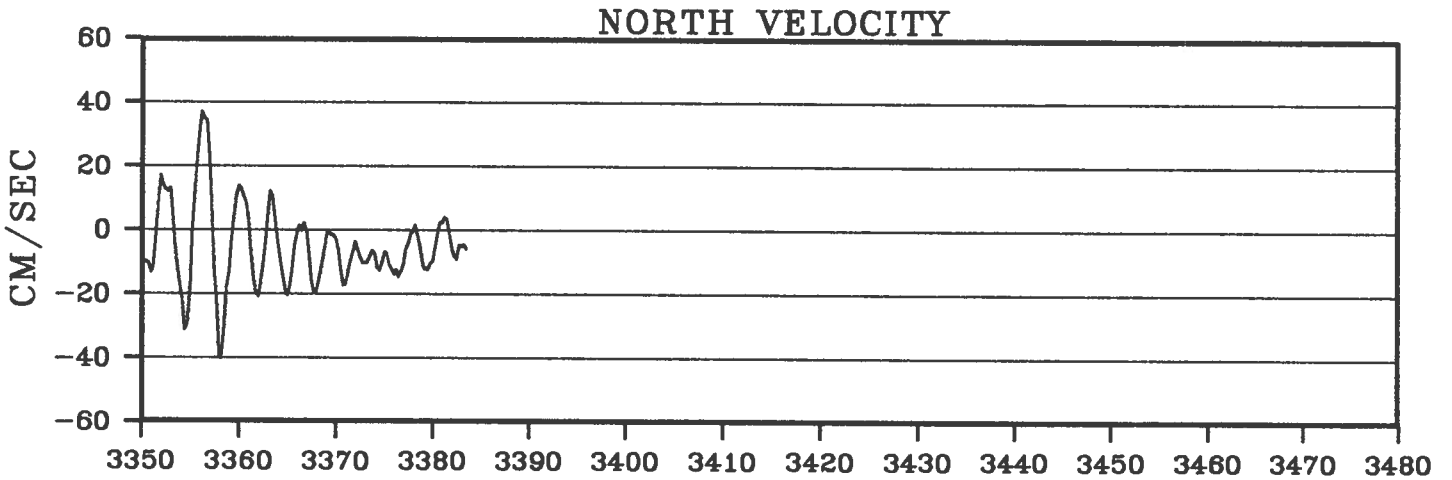
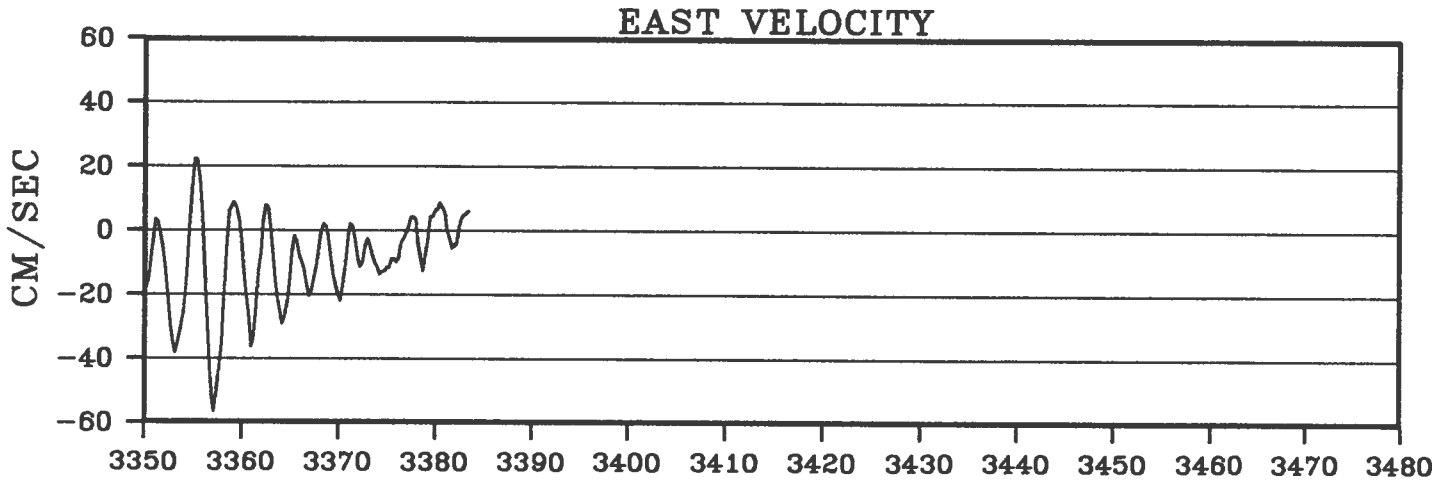
NORTH VELOCITY



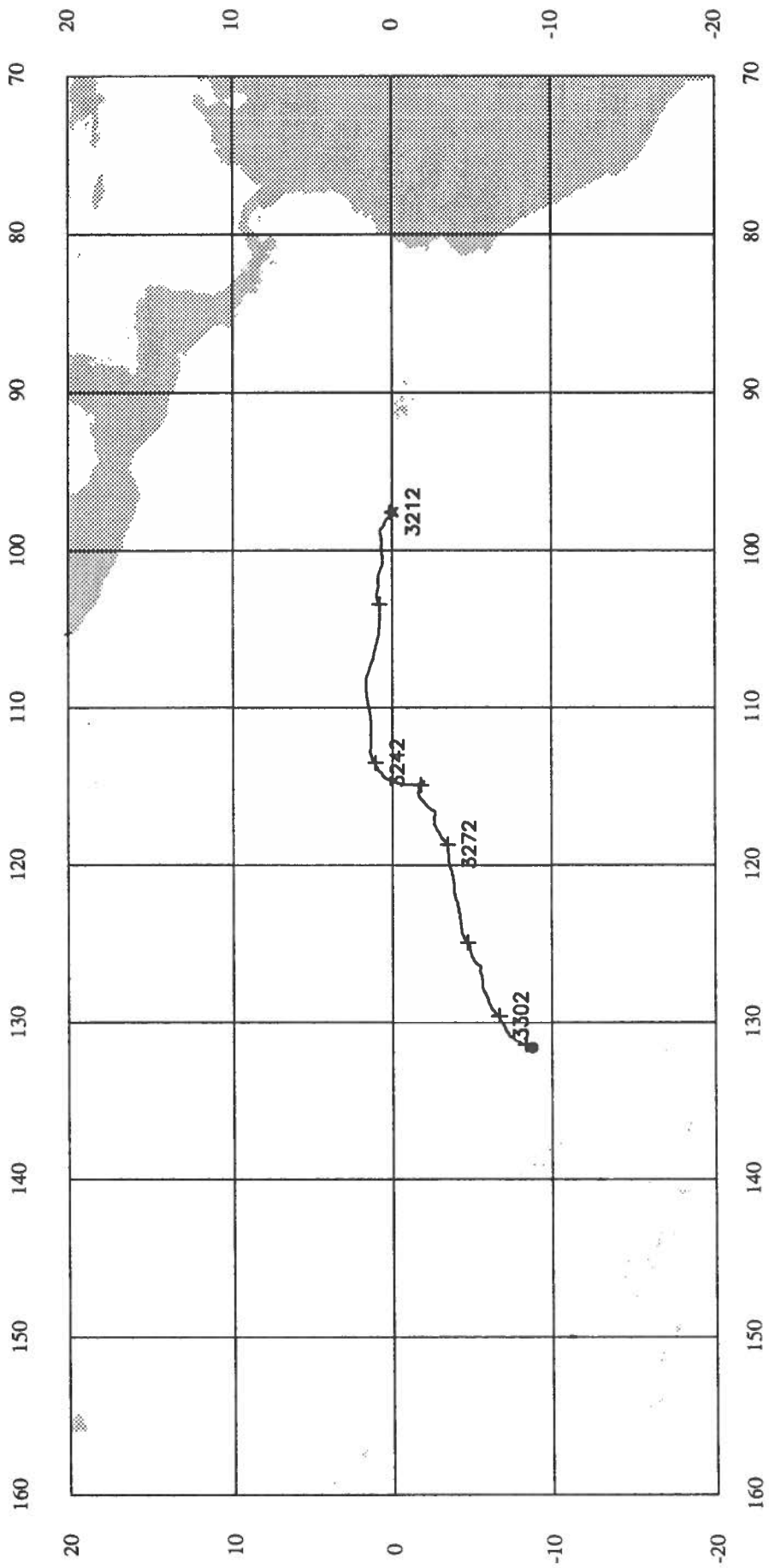
TEMPERATURE



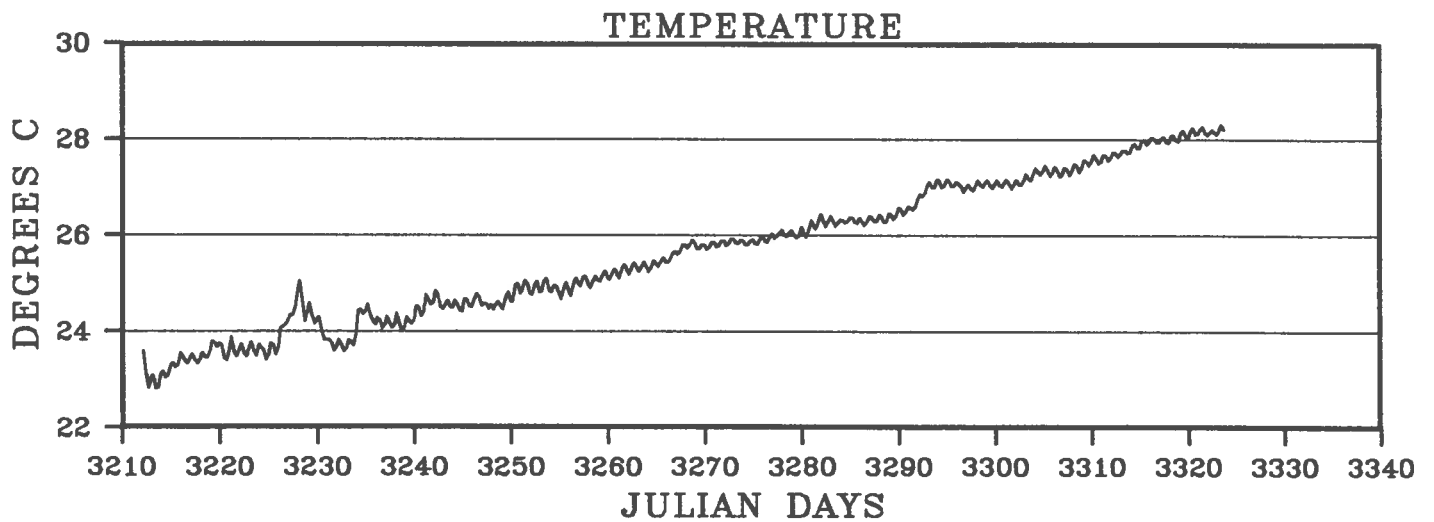
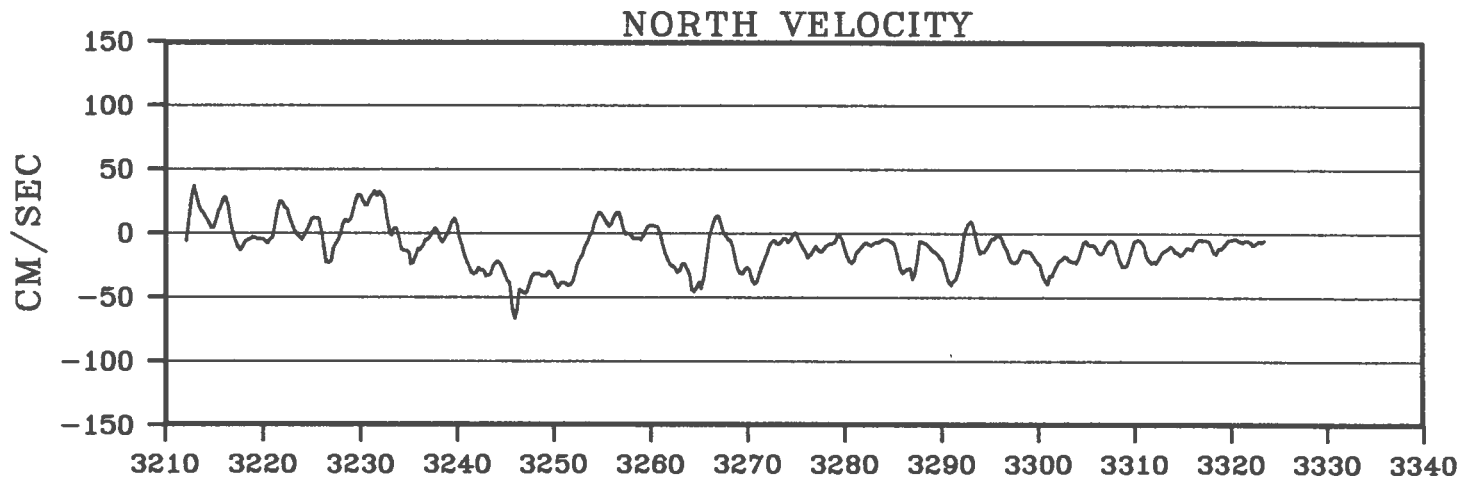
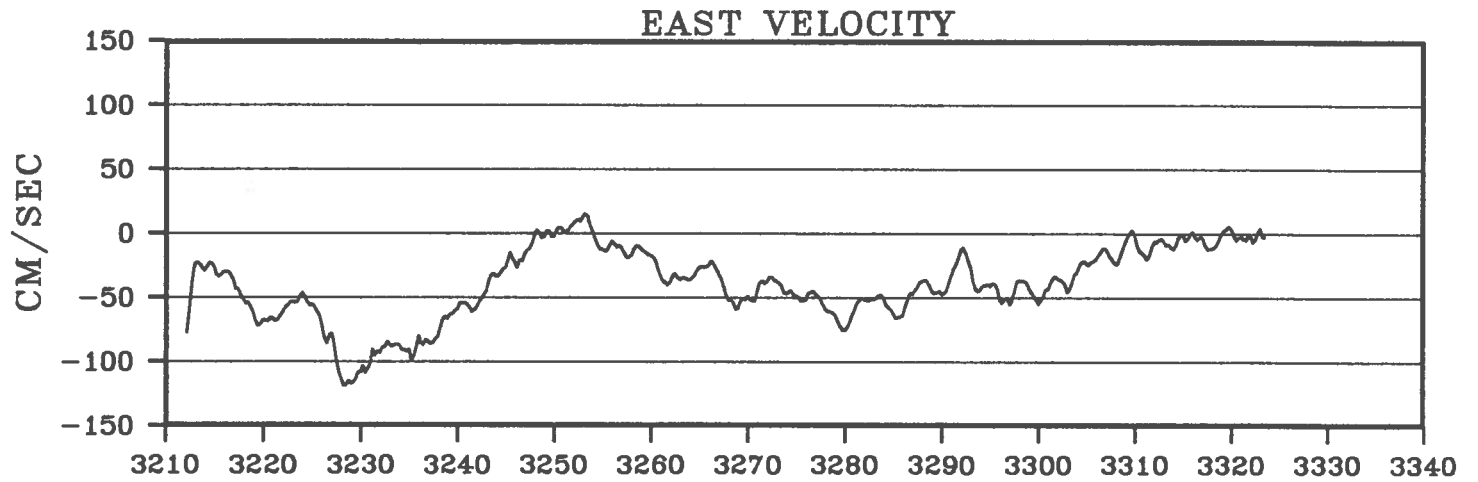
BUOY 6859



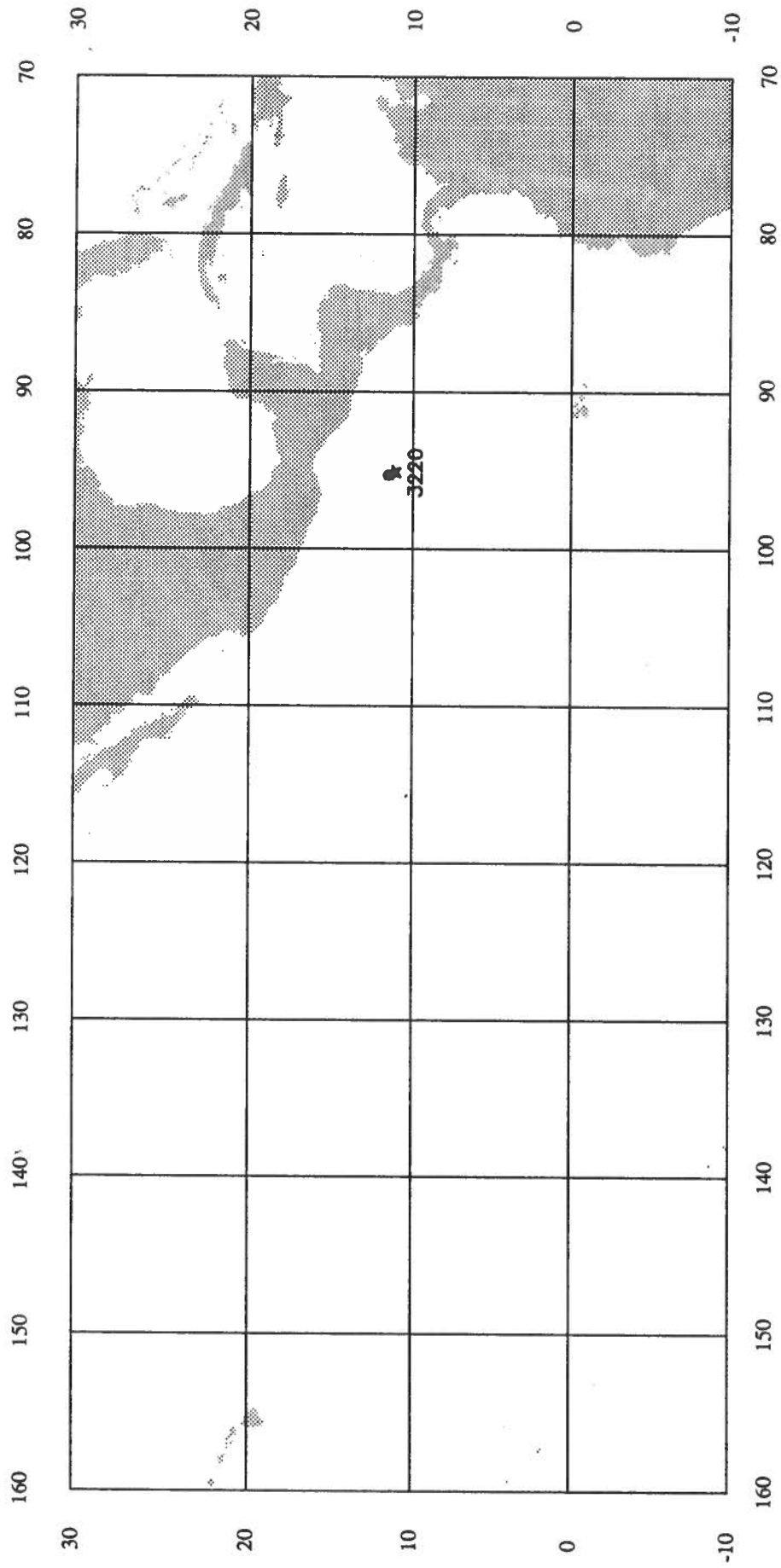
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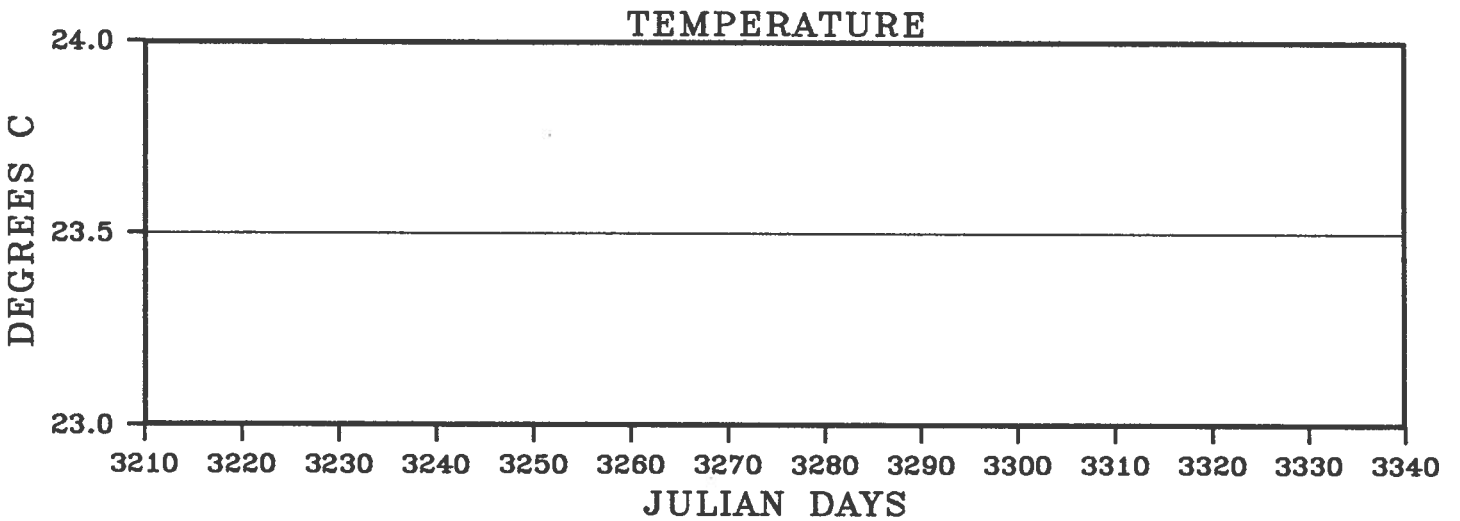
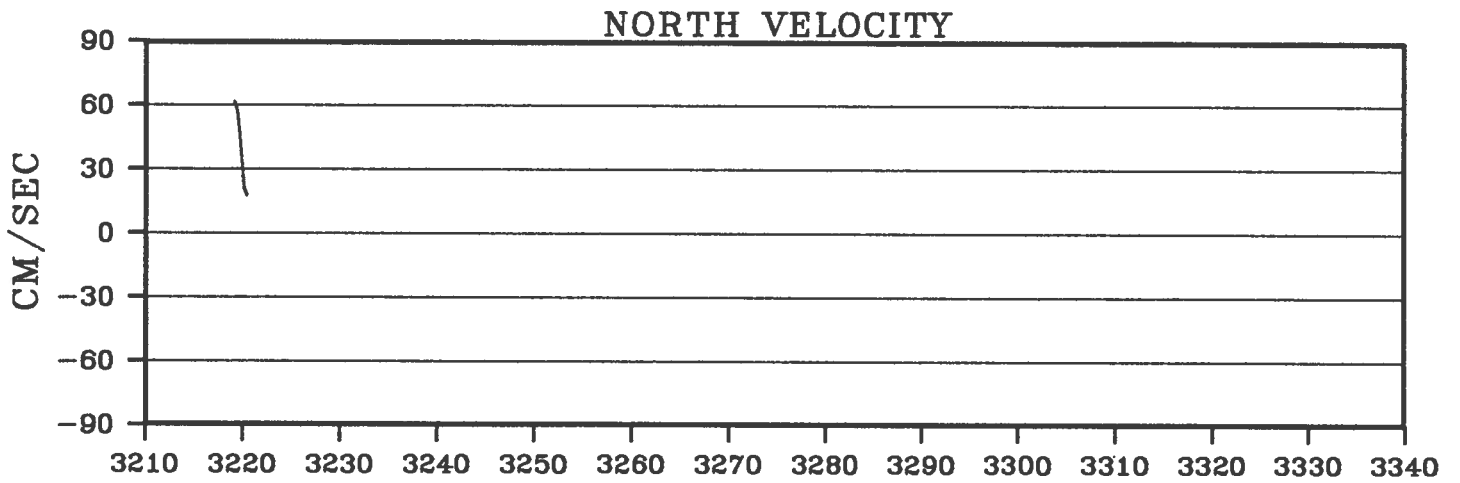
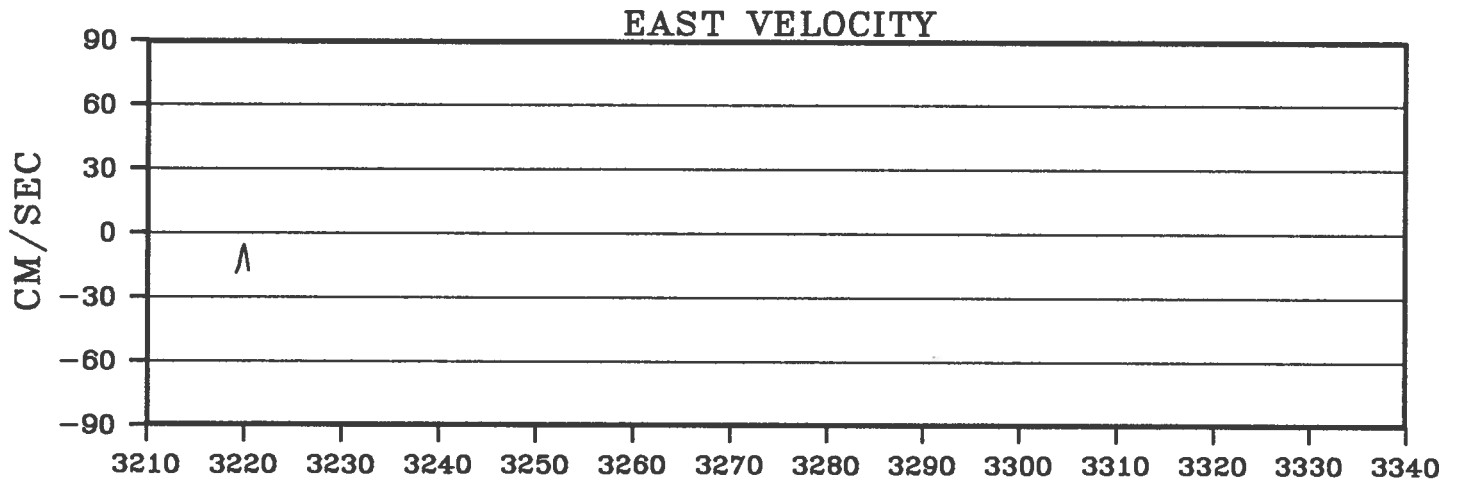
BUOY 6860



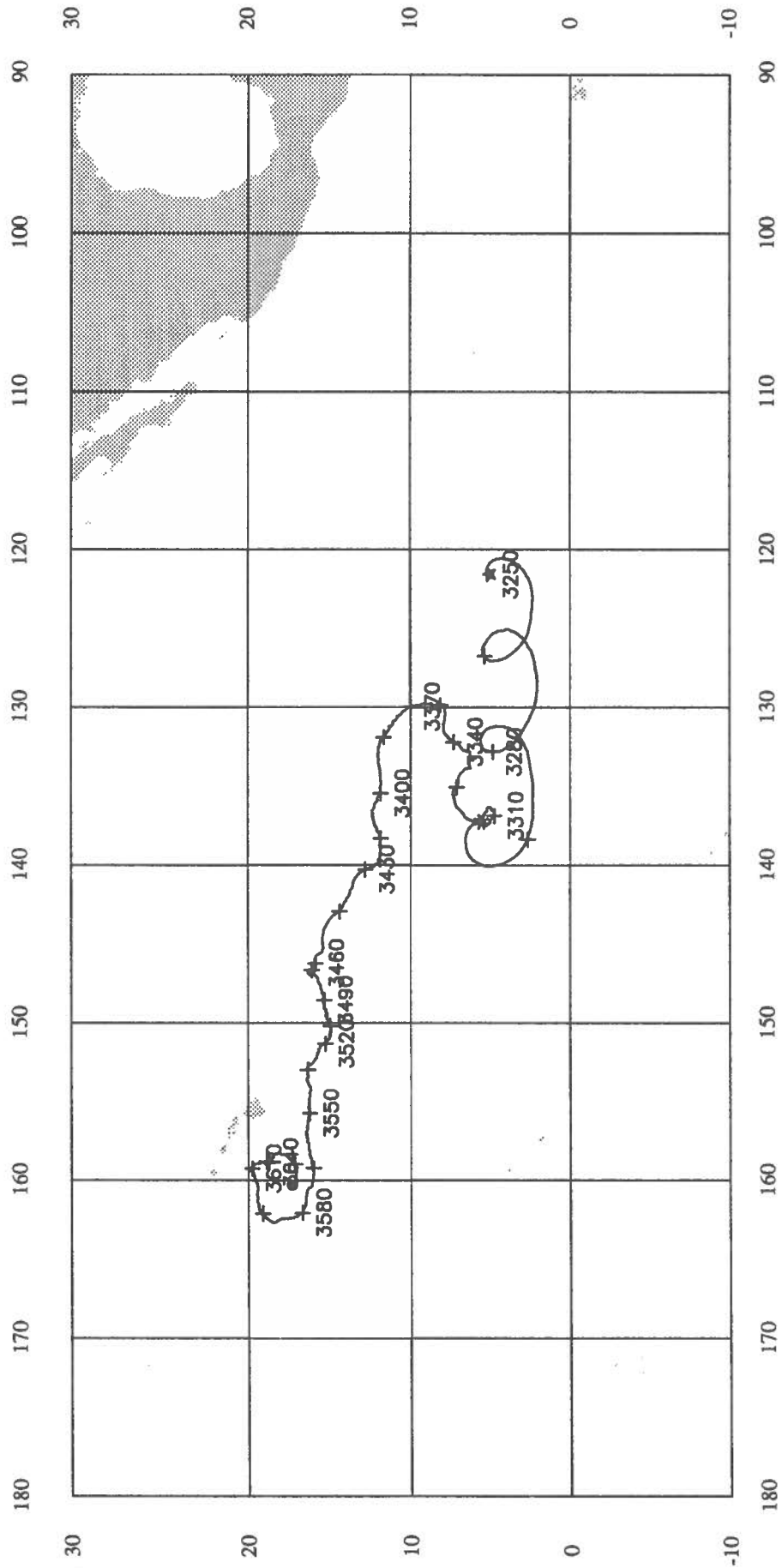
BUOY 6861



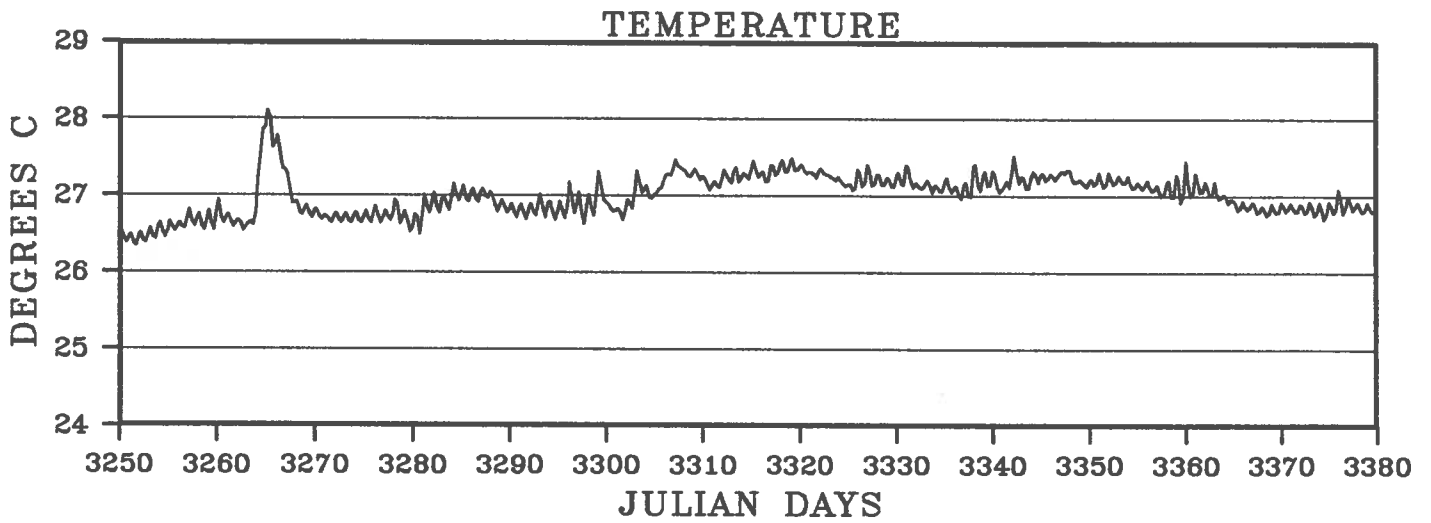
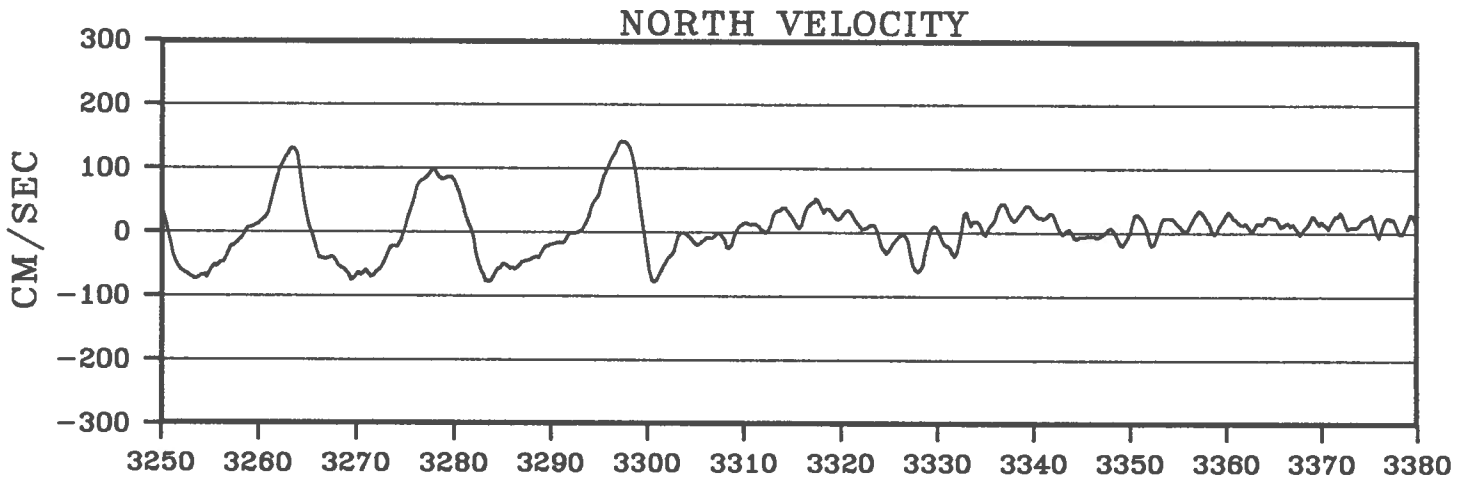
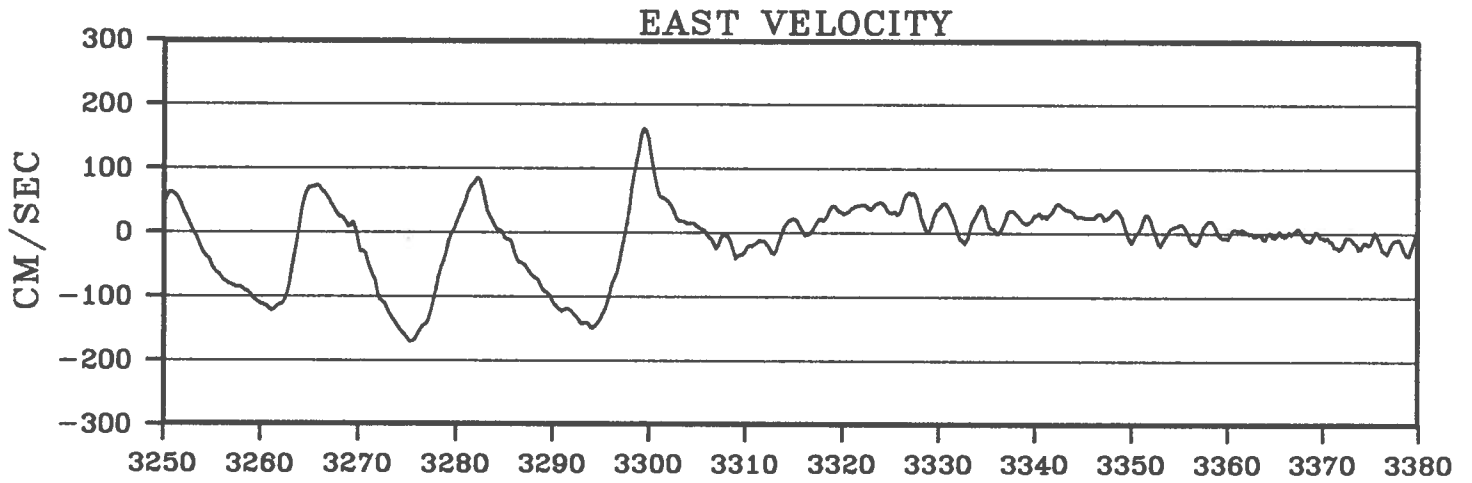
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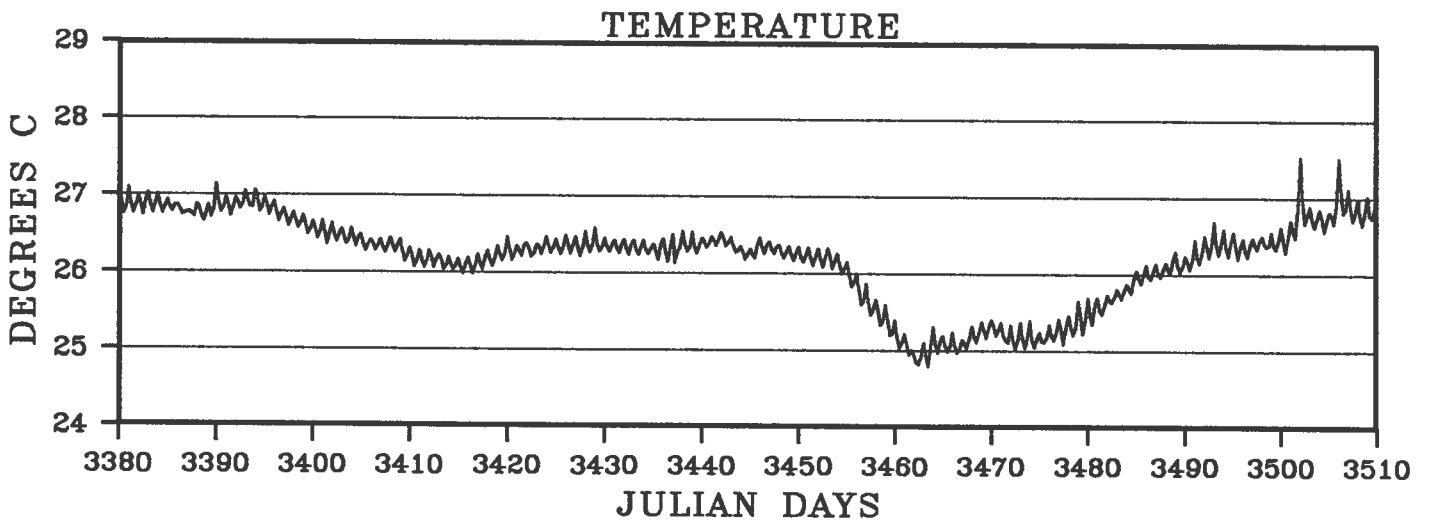
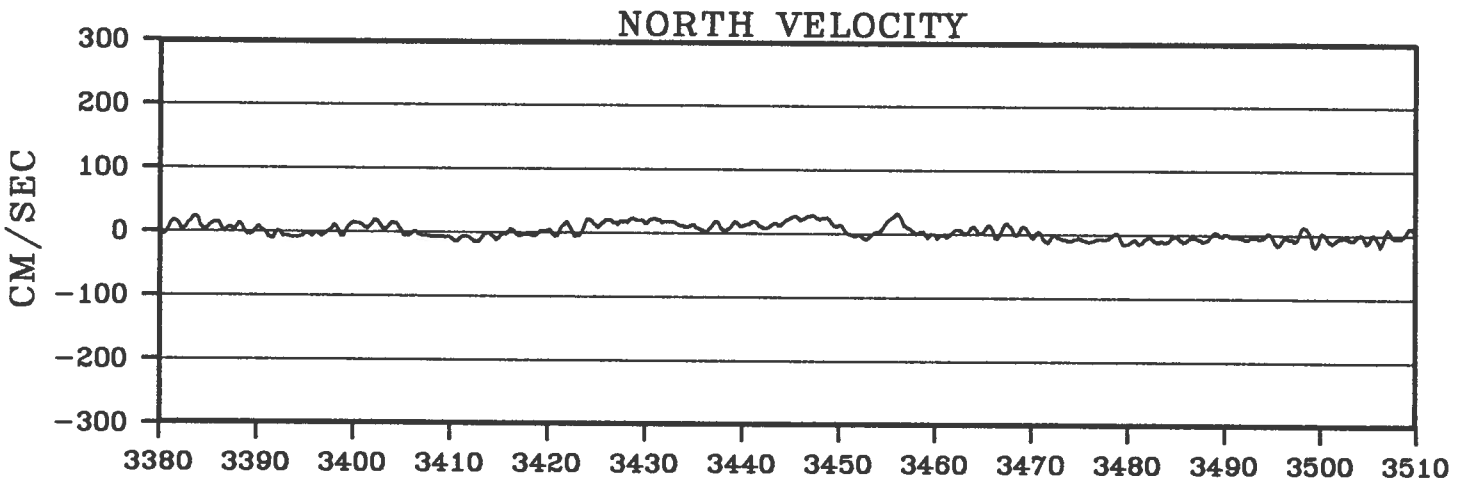
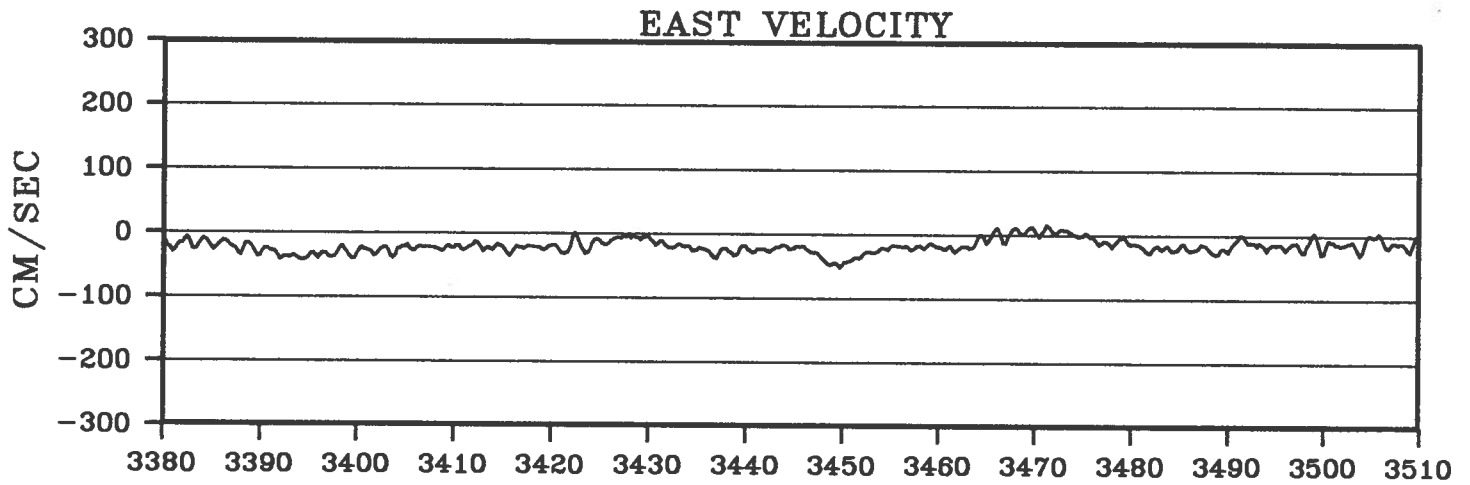
BUOY 6862



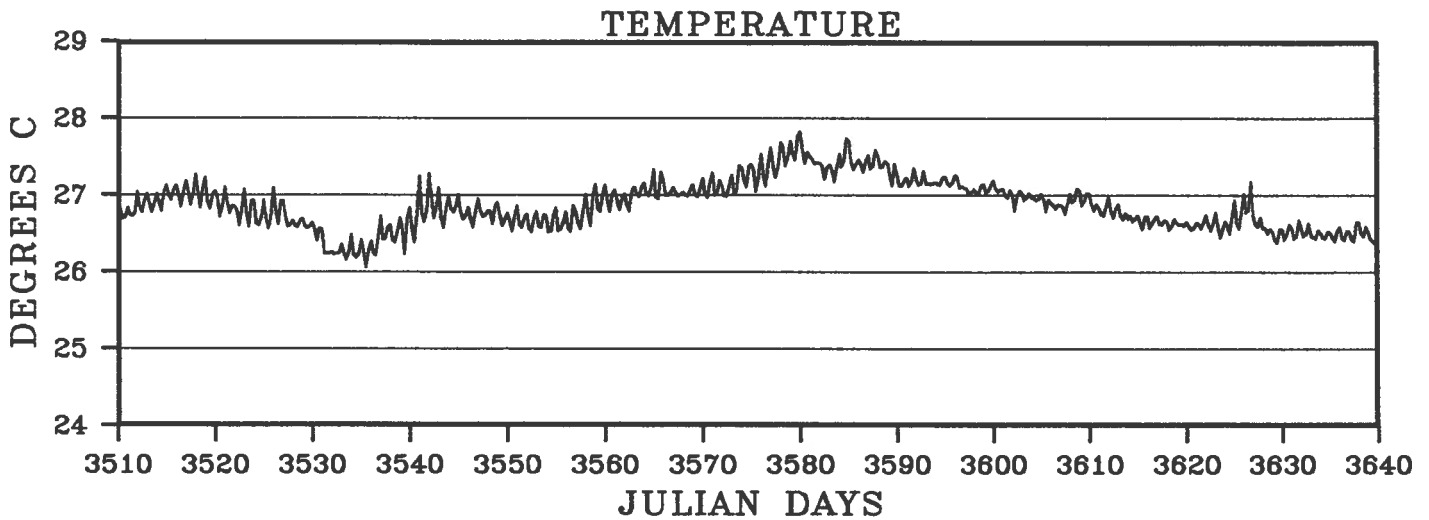
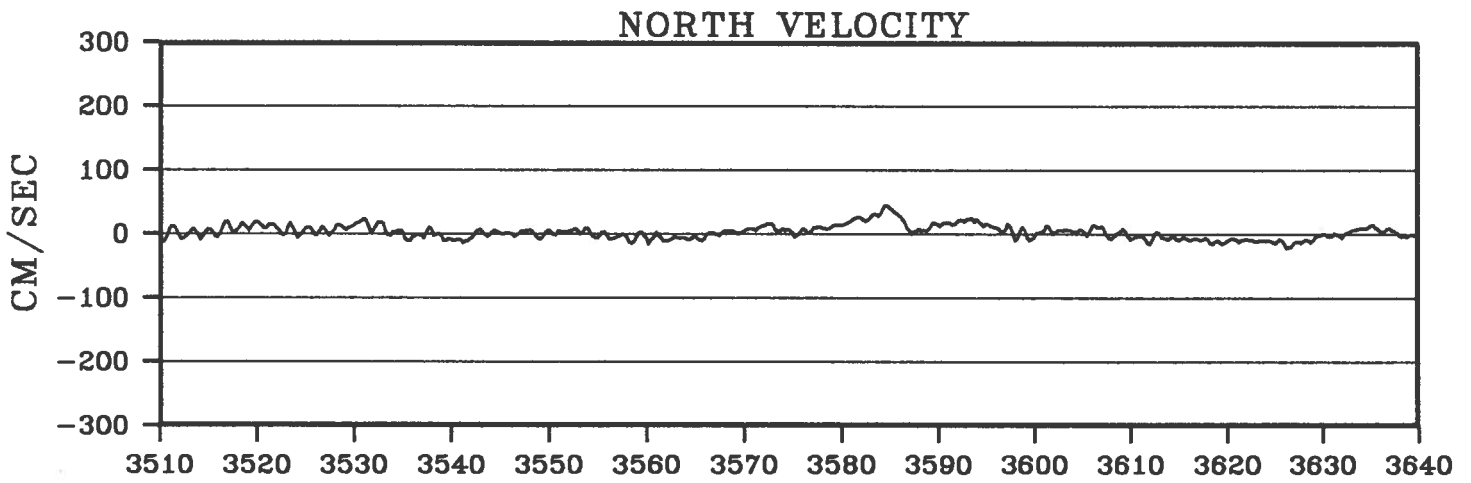
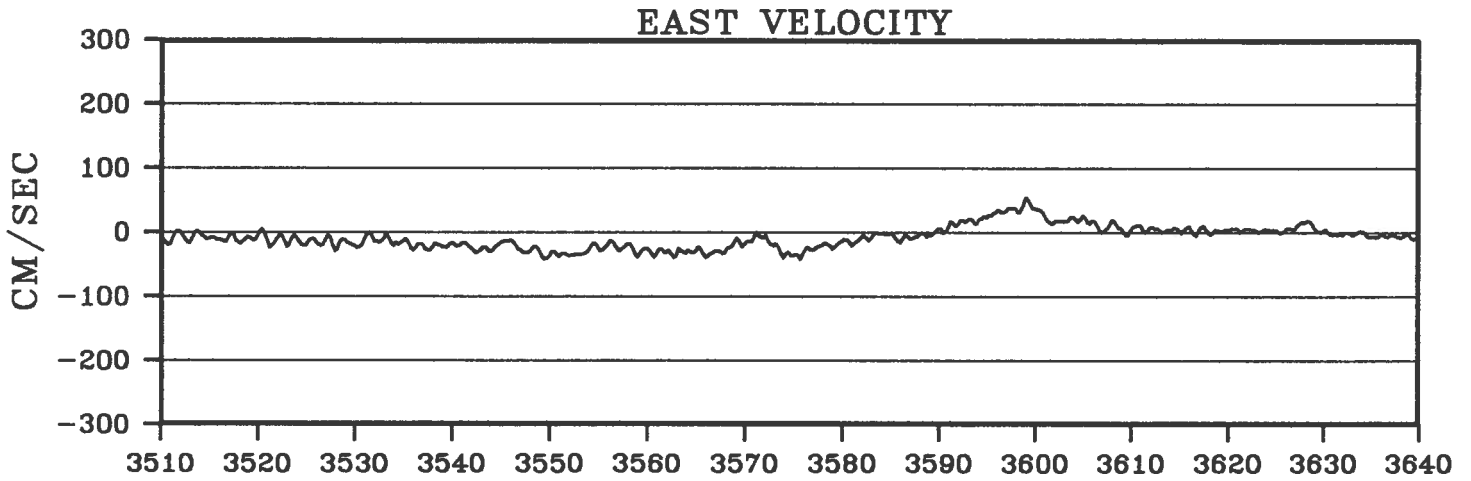
BUOY 6862



BUOY 6862

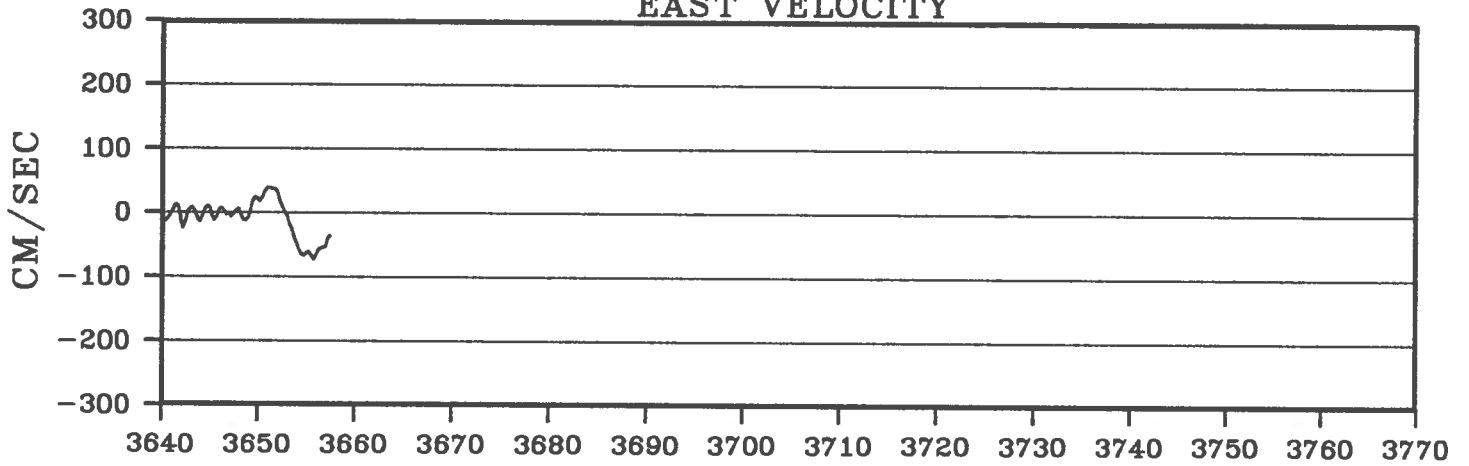


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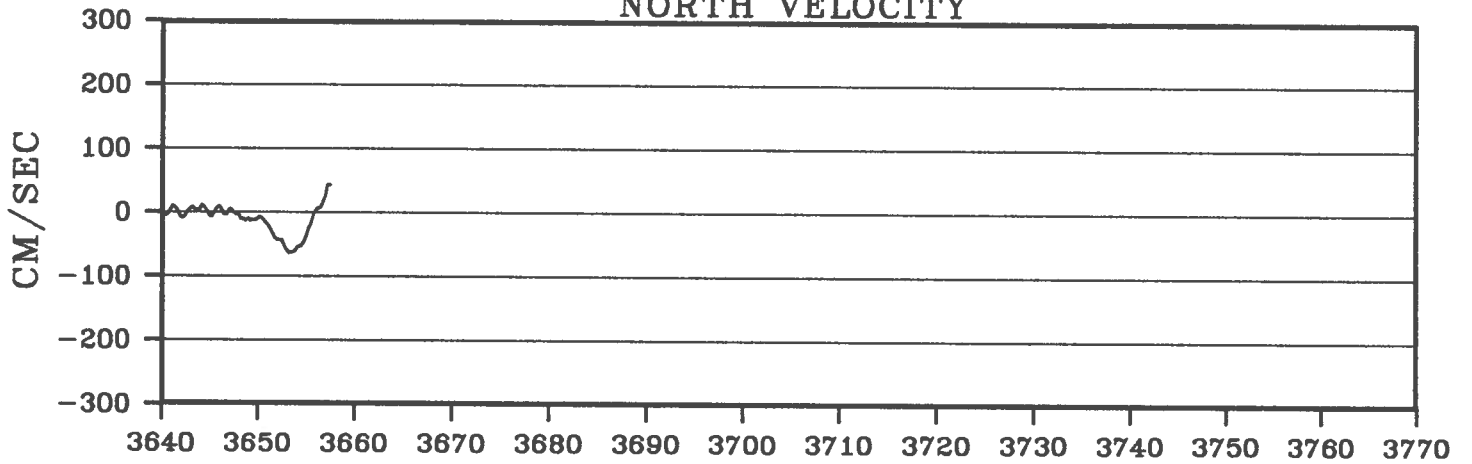


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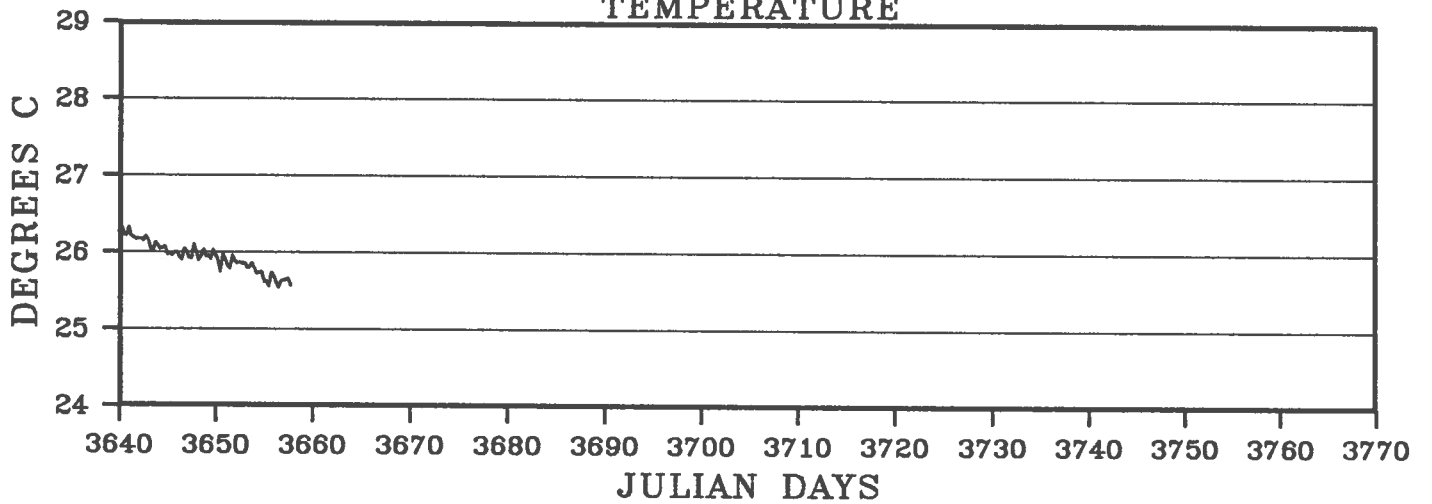
EAST VELOCITY



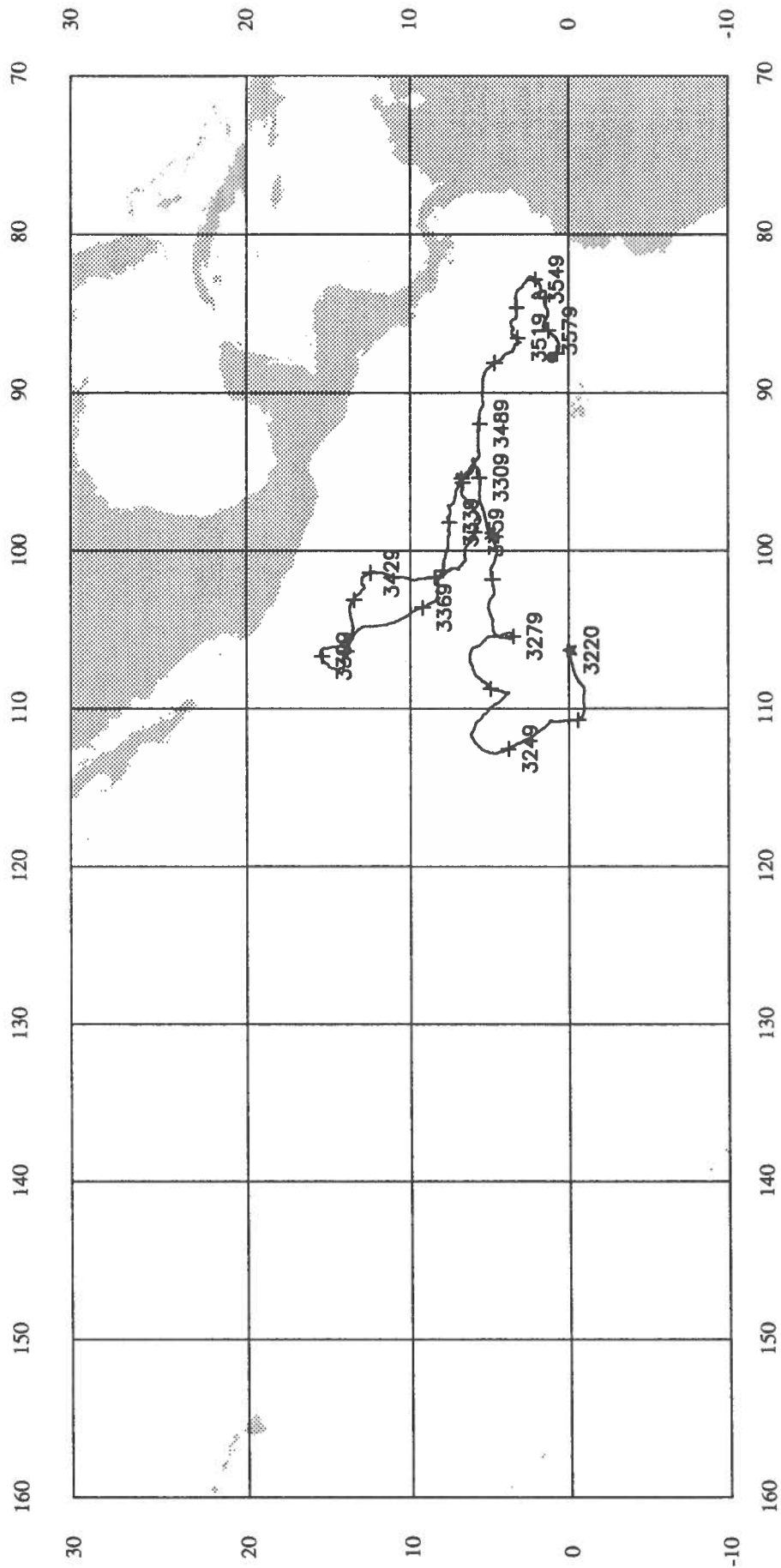
NORTH VELOCITY



TEMPERATURE

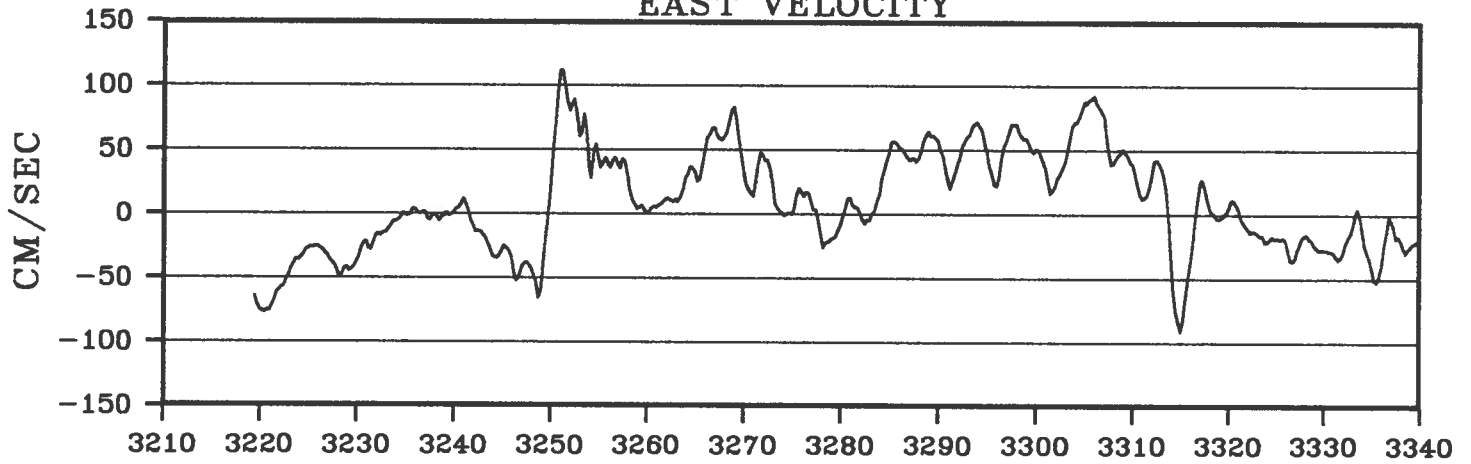


BUOY 6864

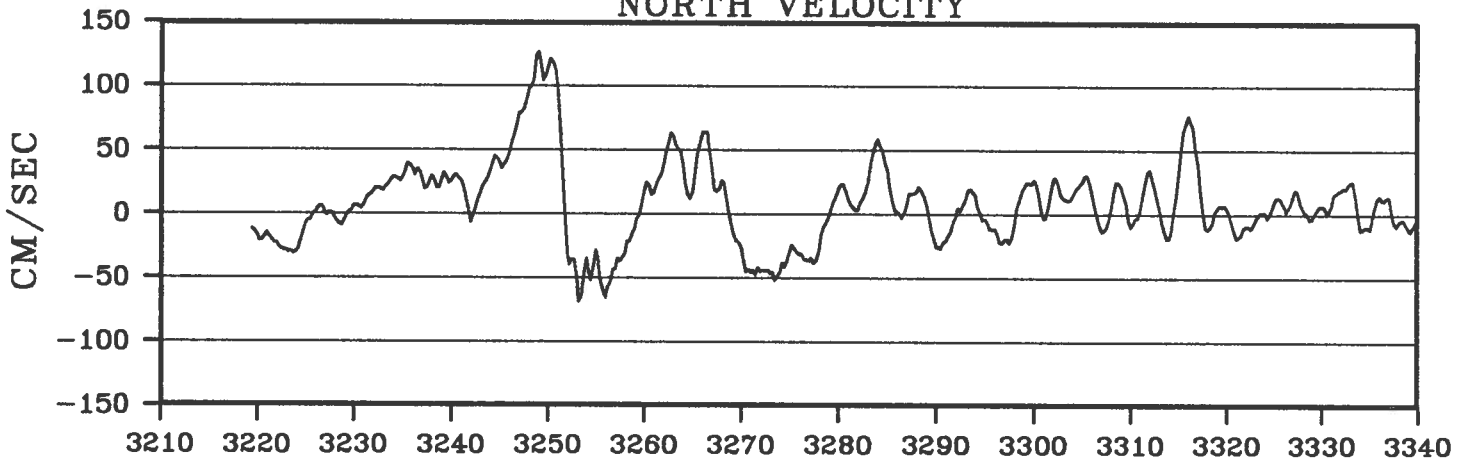


BUOY 6864

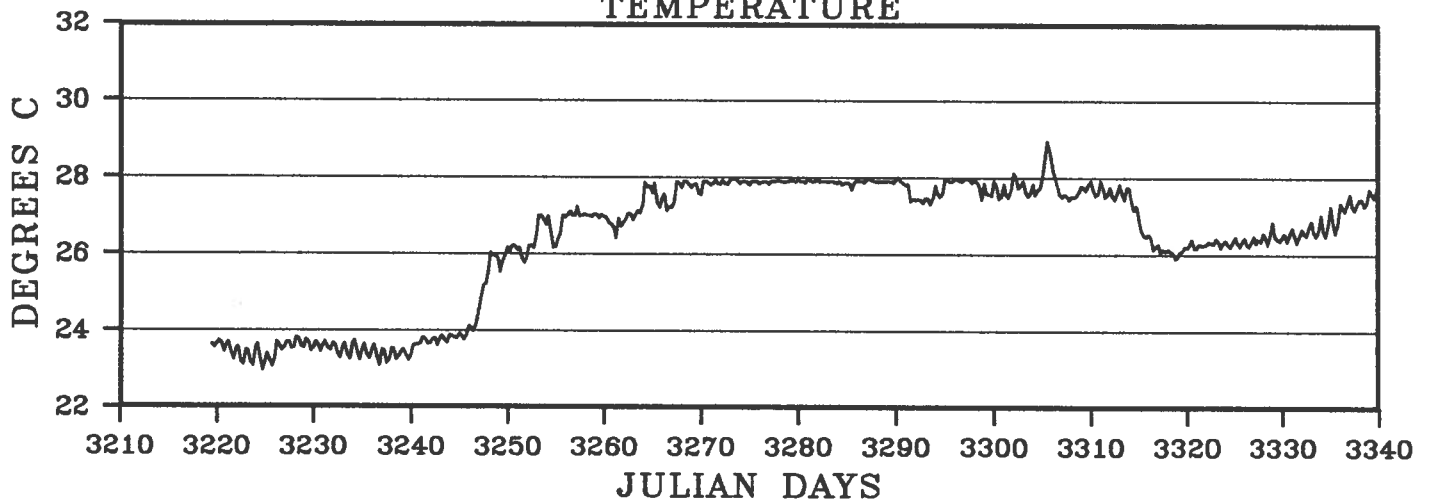
EAST VELOCITY



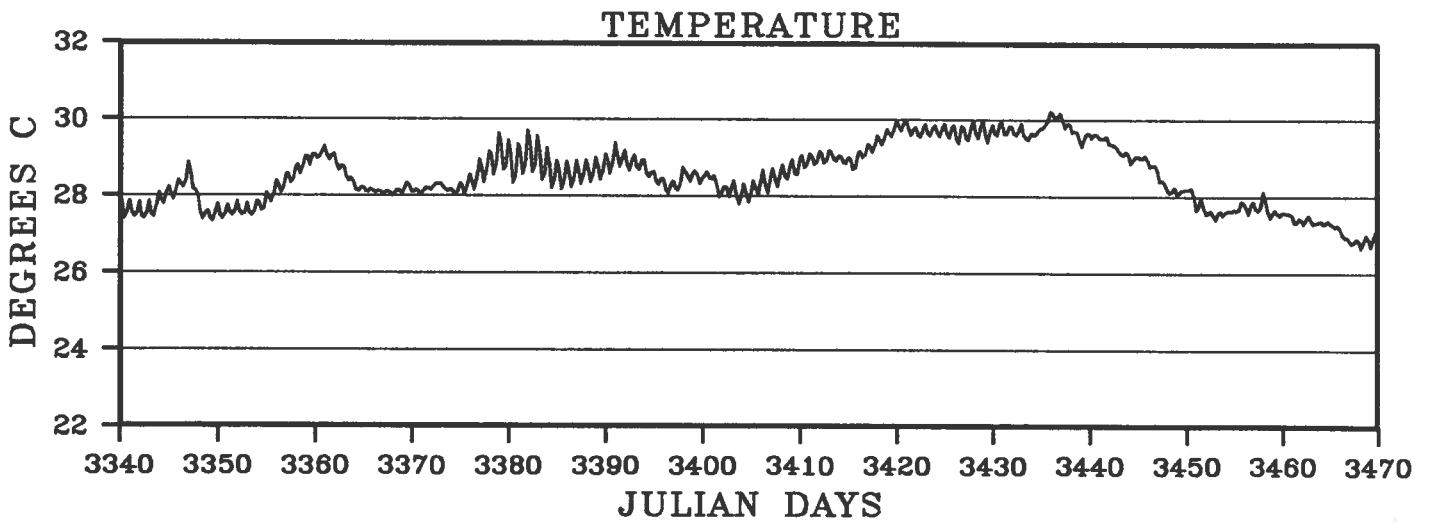
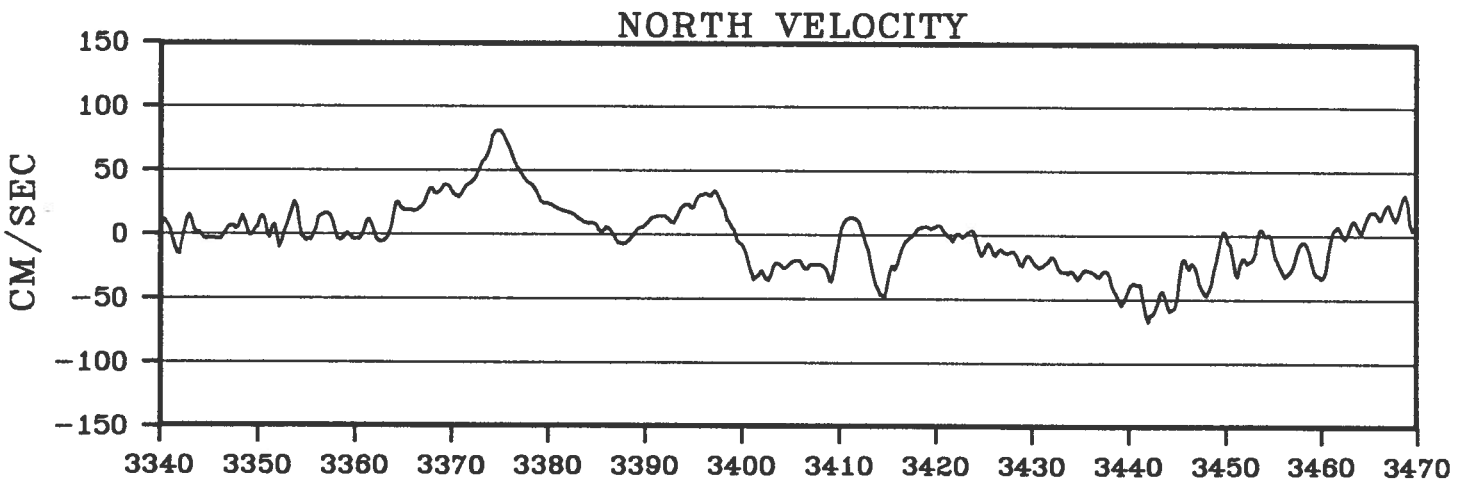
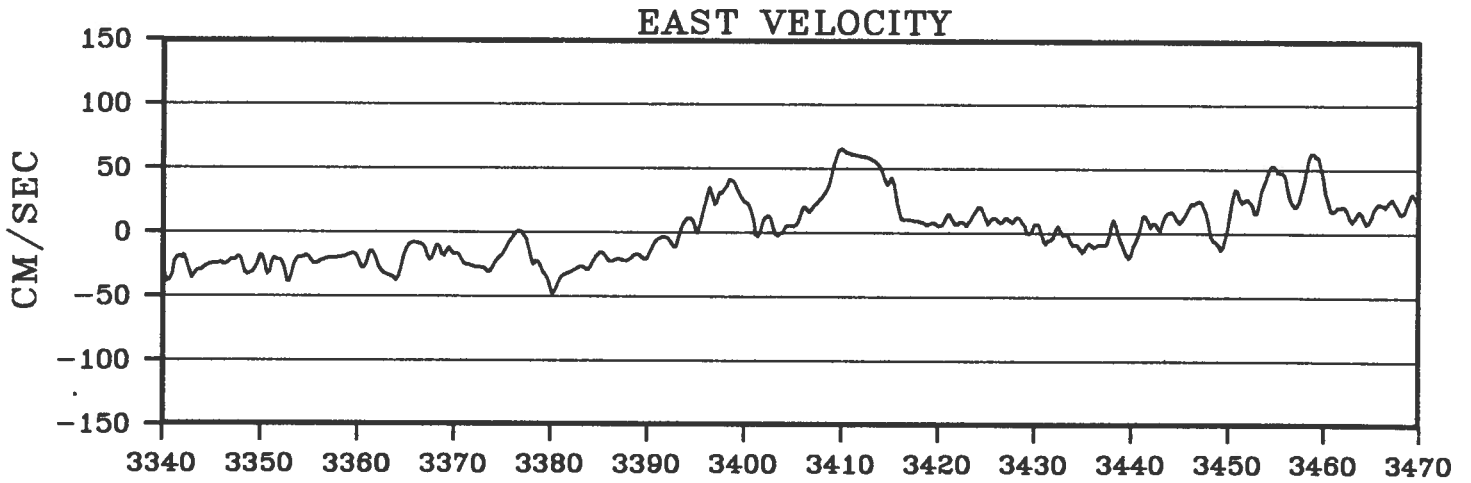
NORTH VELOCITY



TEMPERATURE

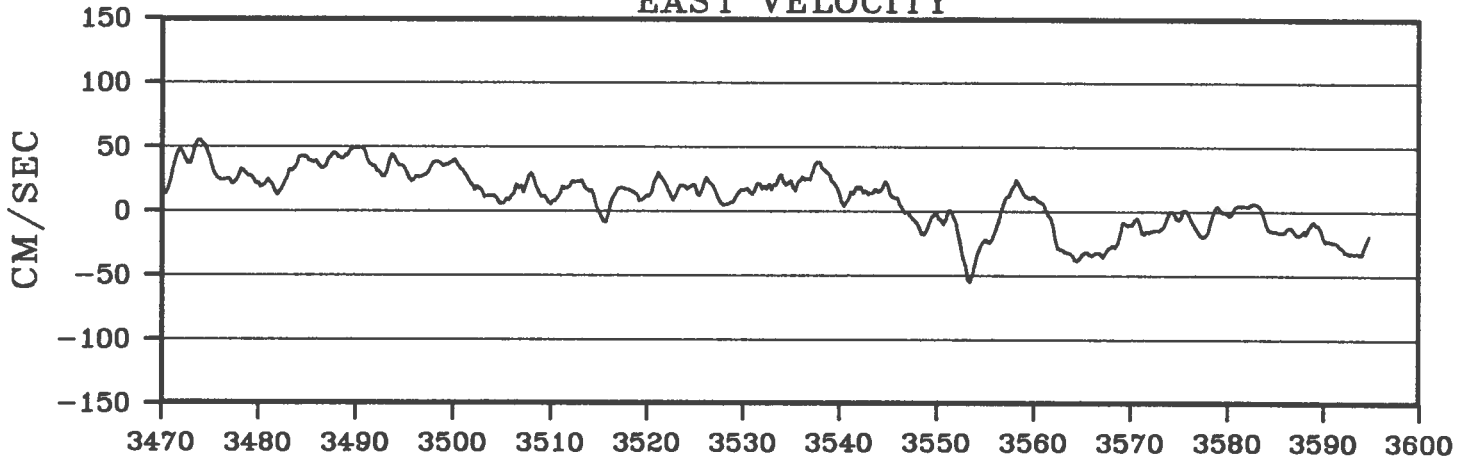


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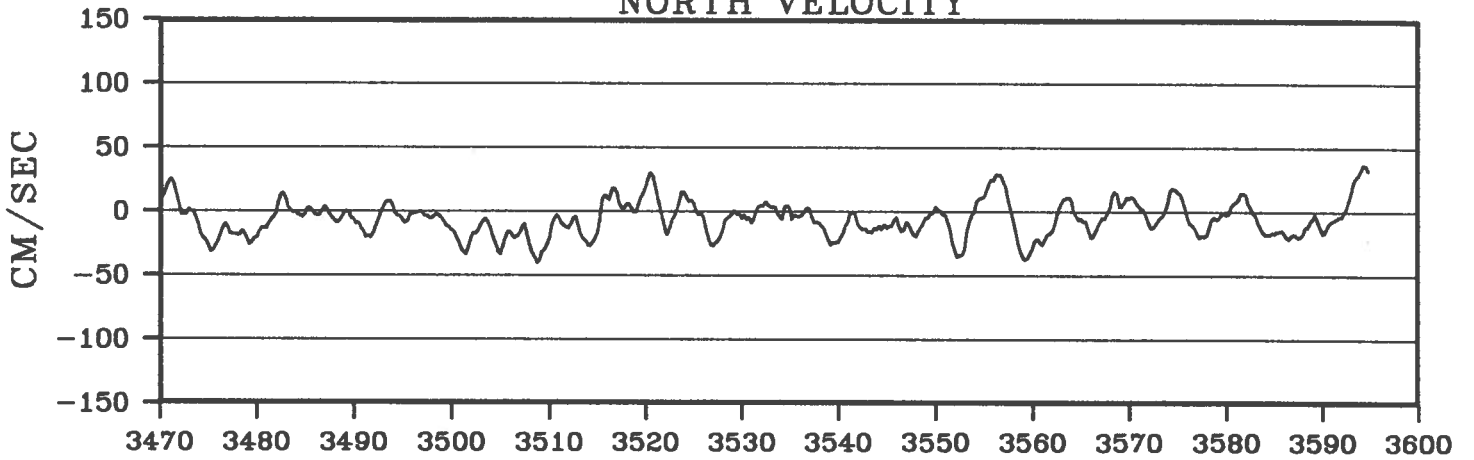


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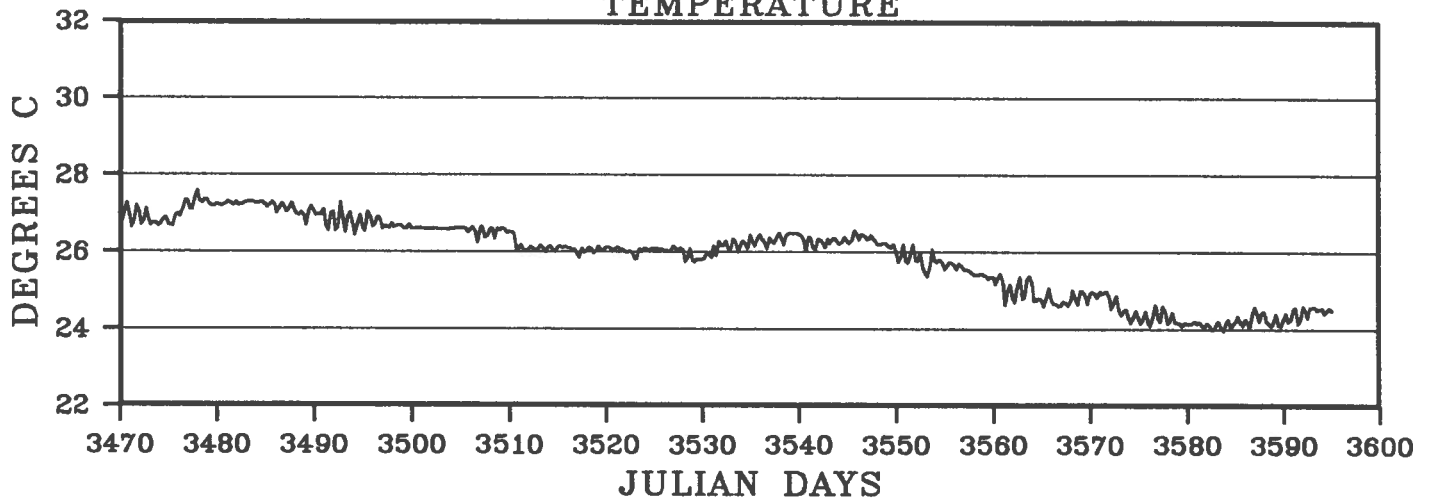
EAST VELOCITY



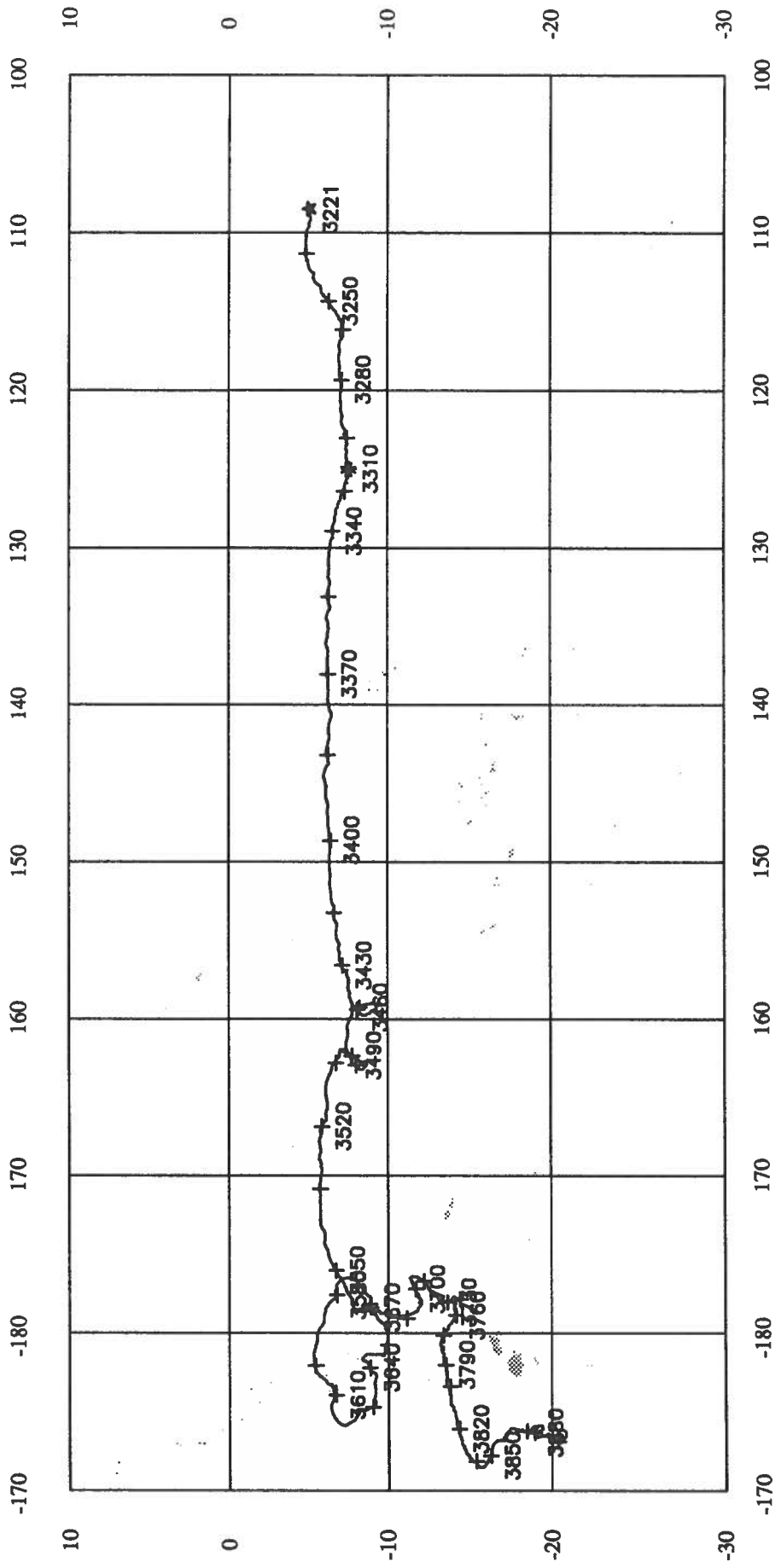
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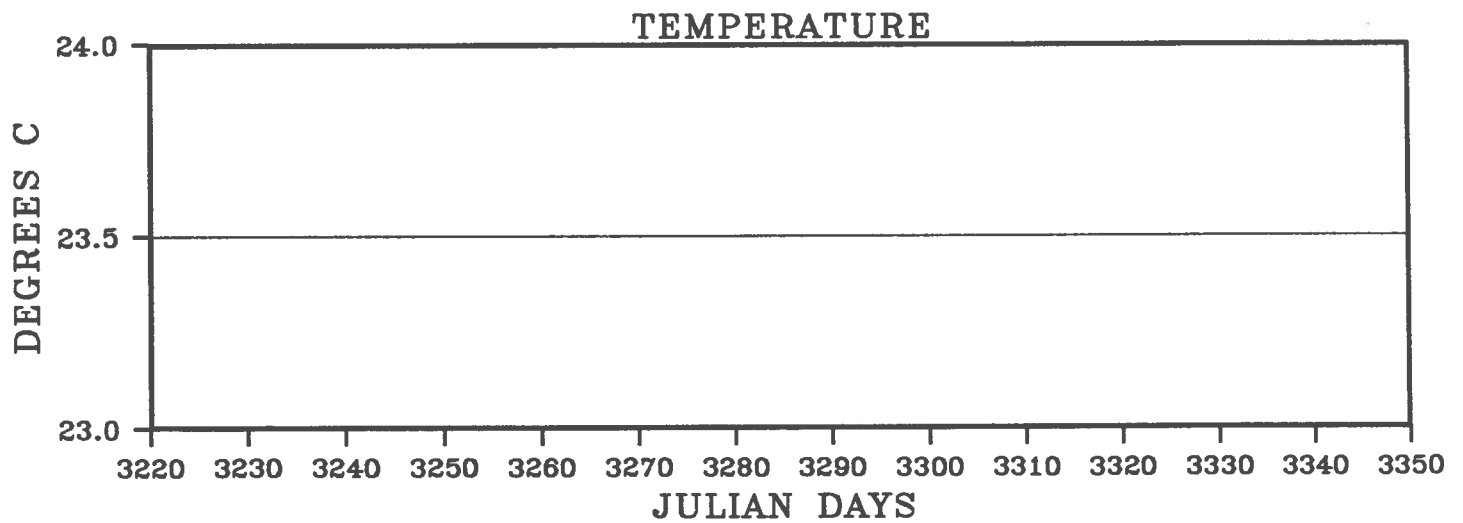
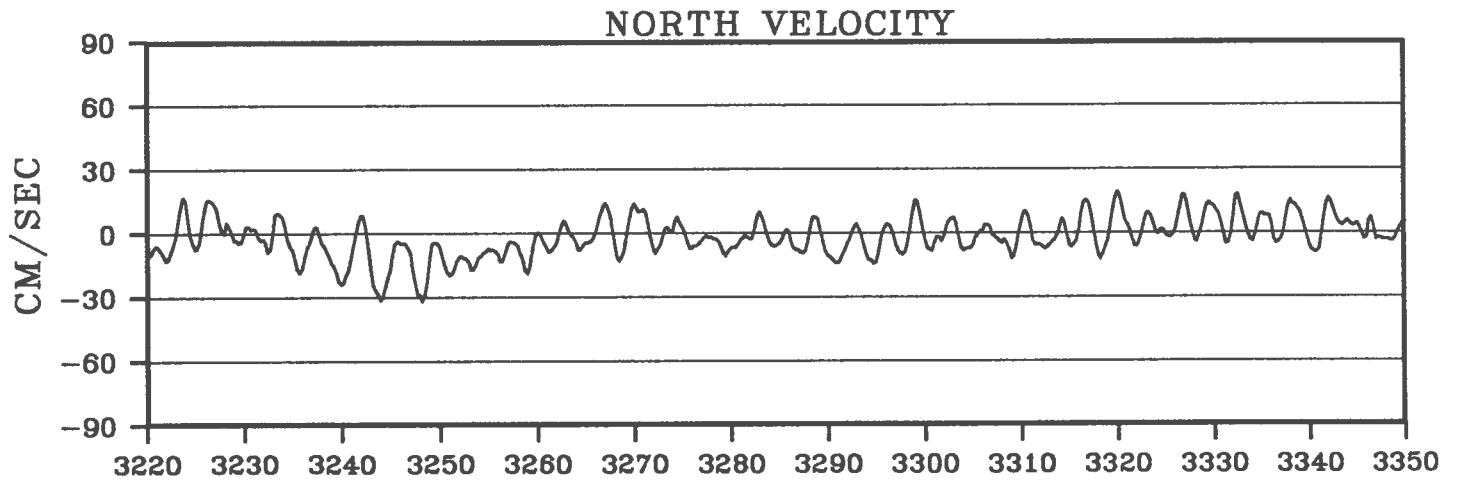
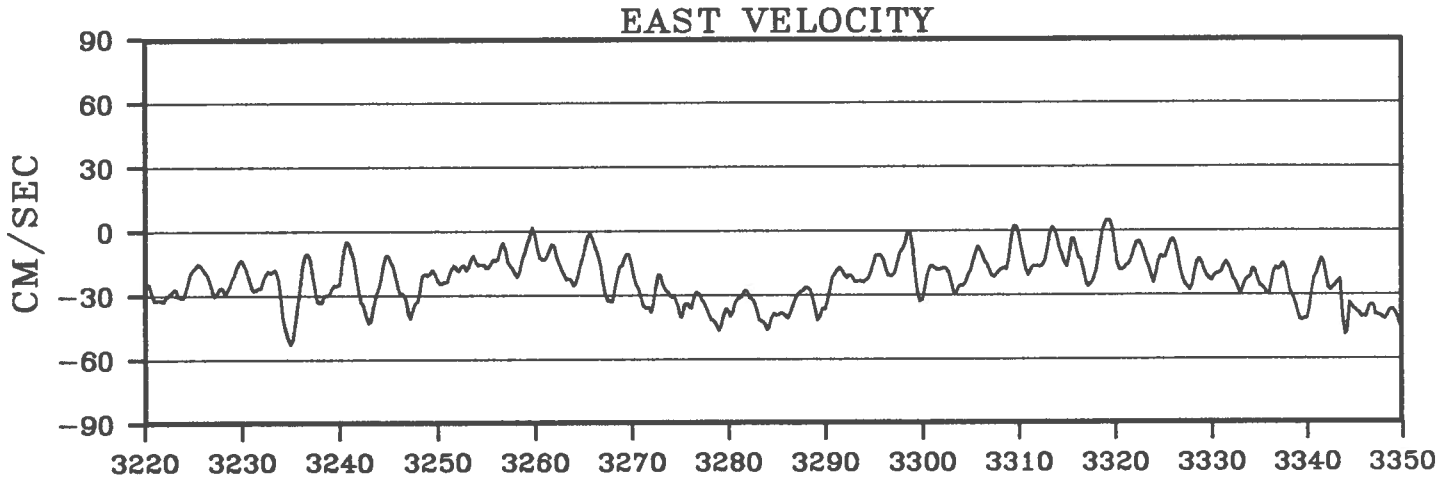
TEMPERATURE



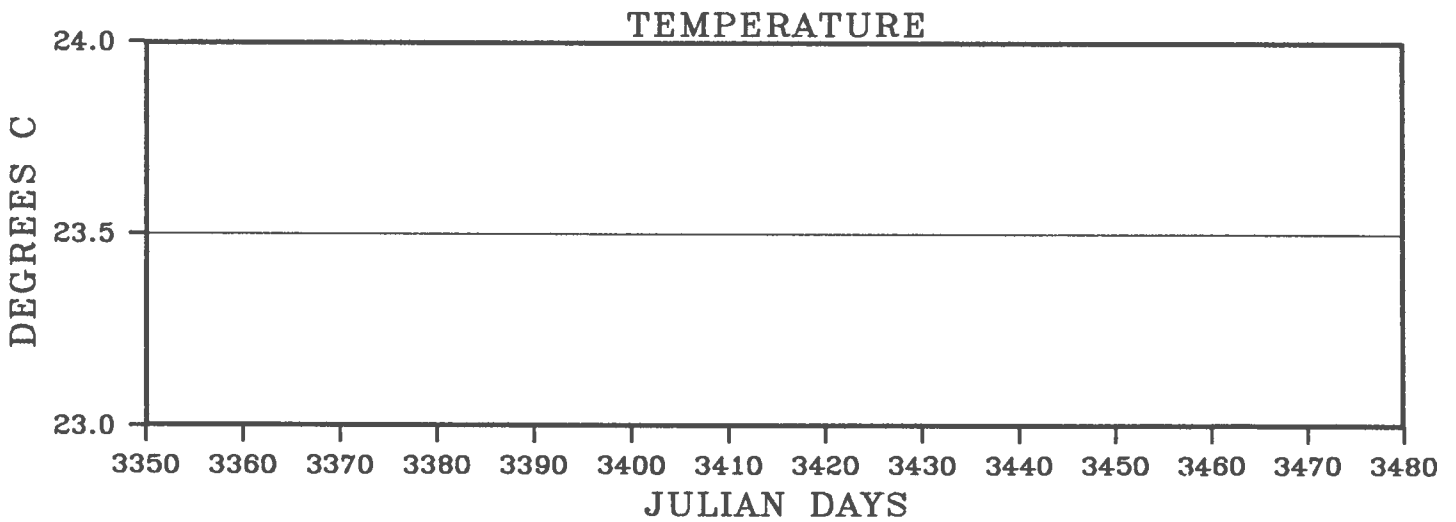
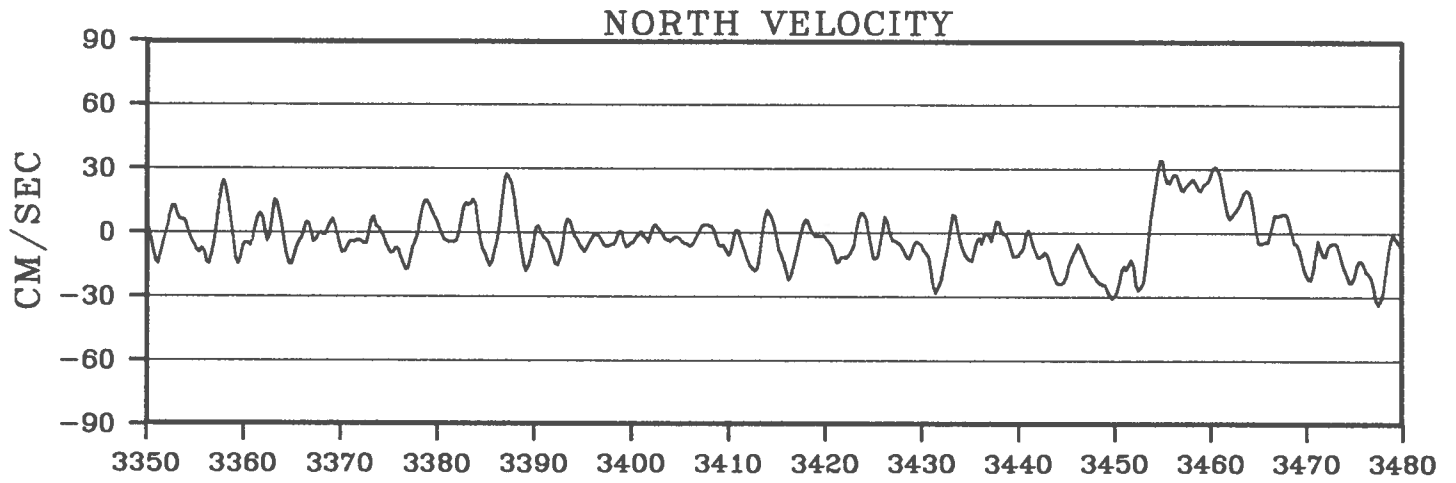
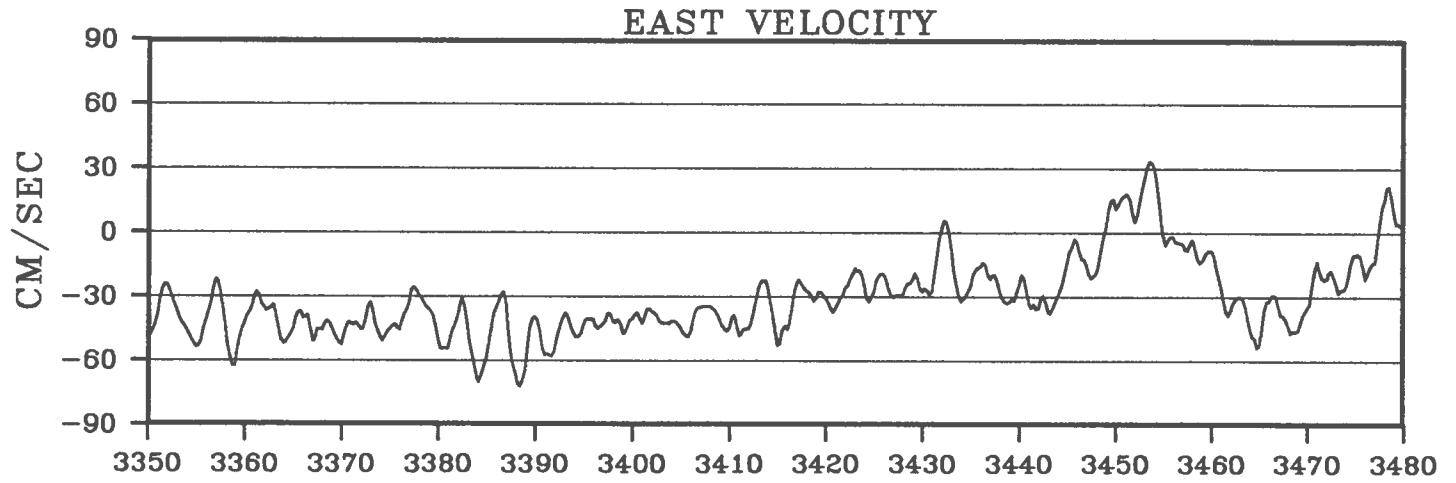
BUOY 6865



BUOY 6865

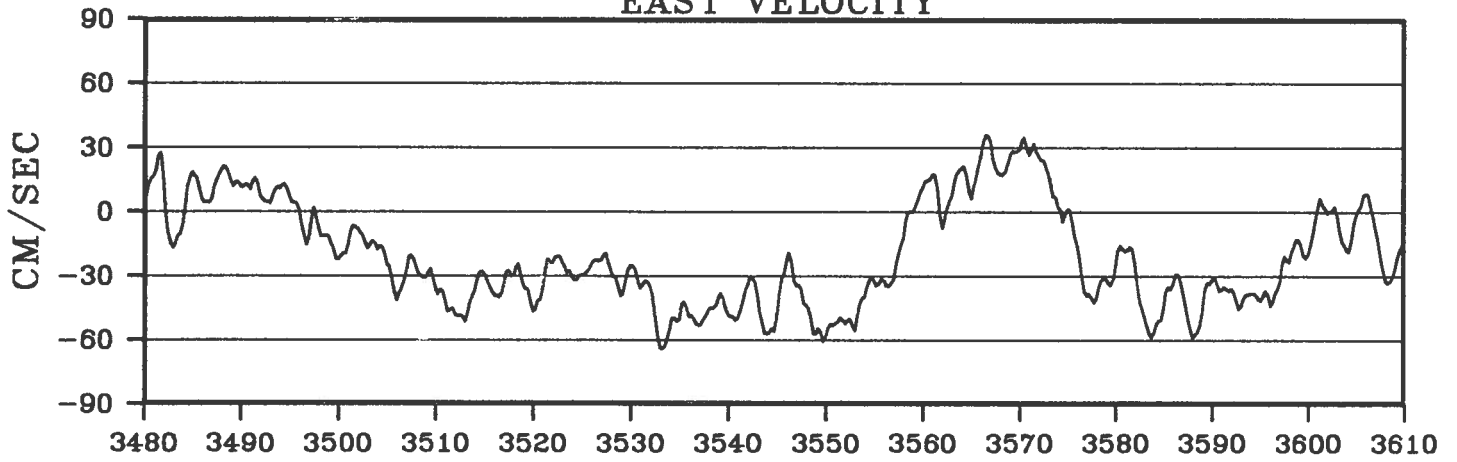


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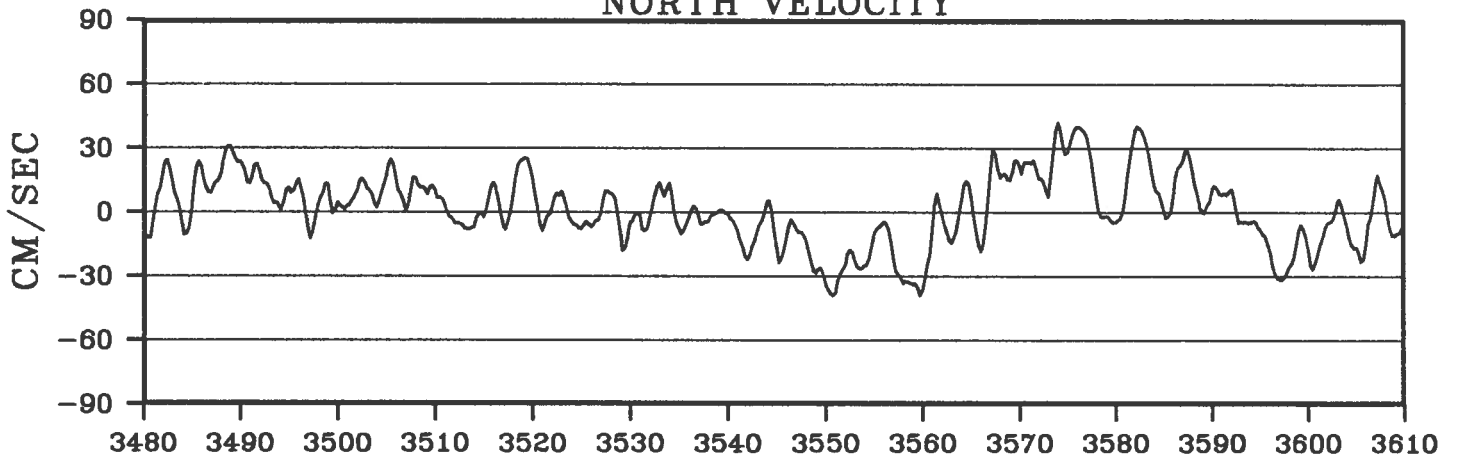


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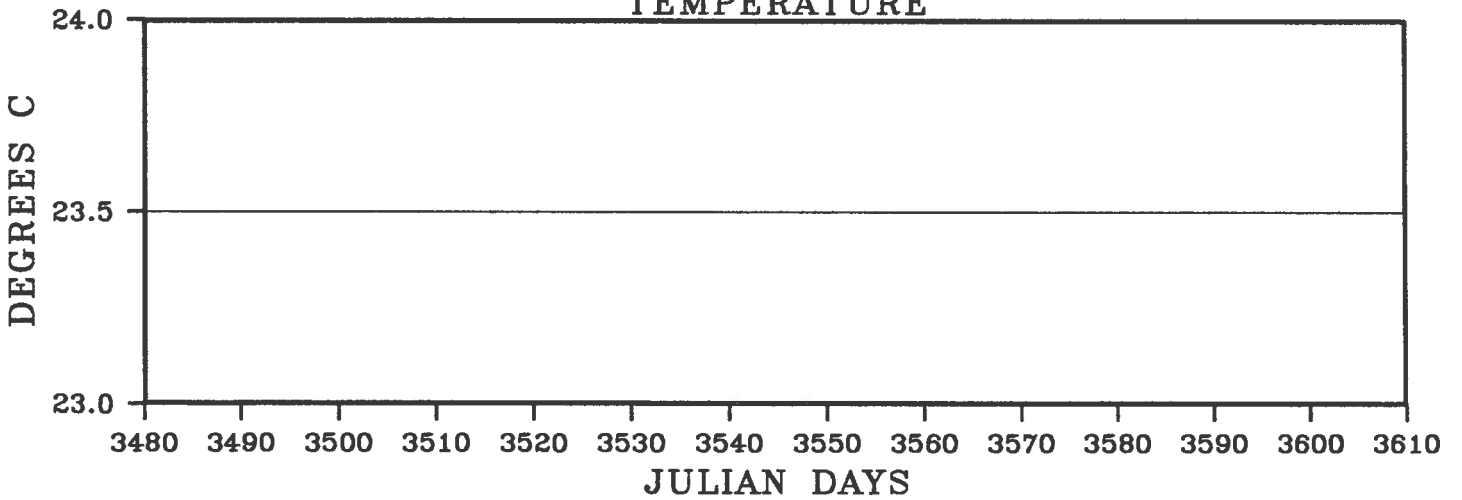
EAST VELOCITY



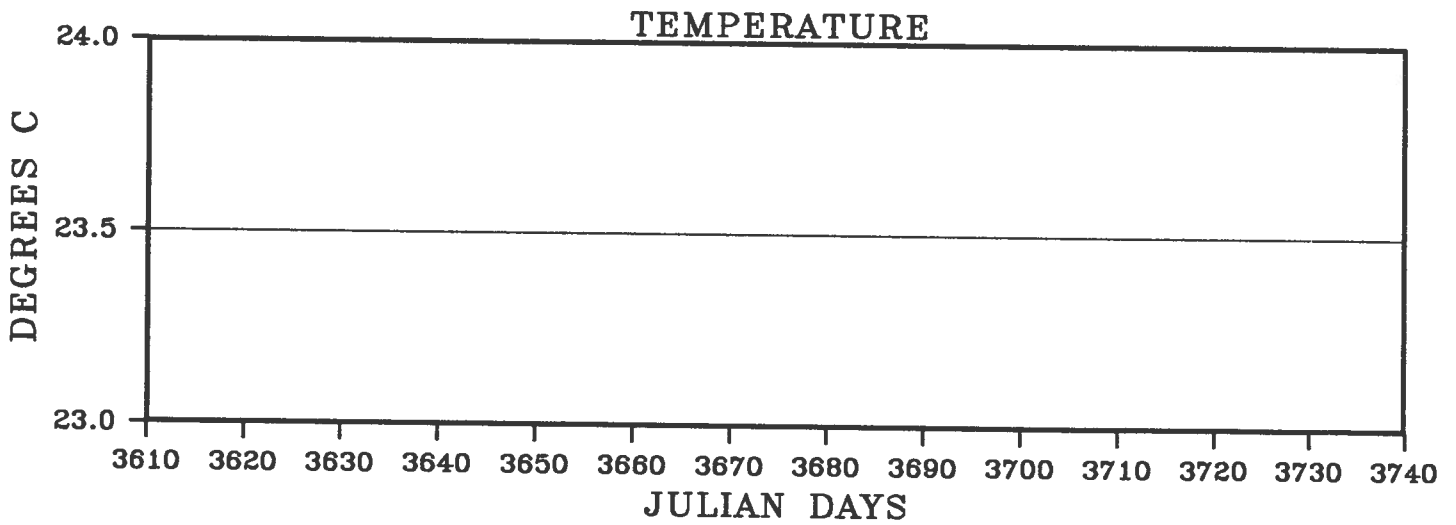
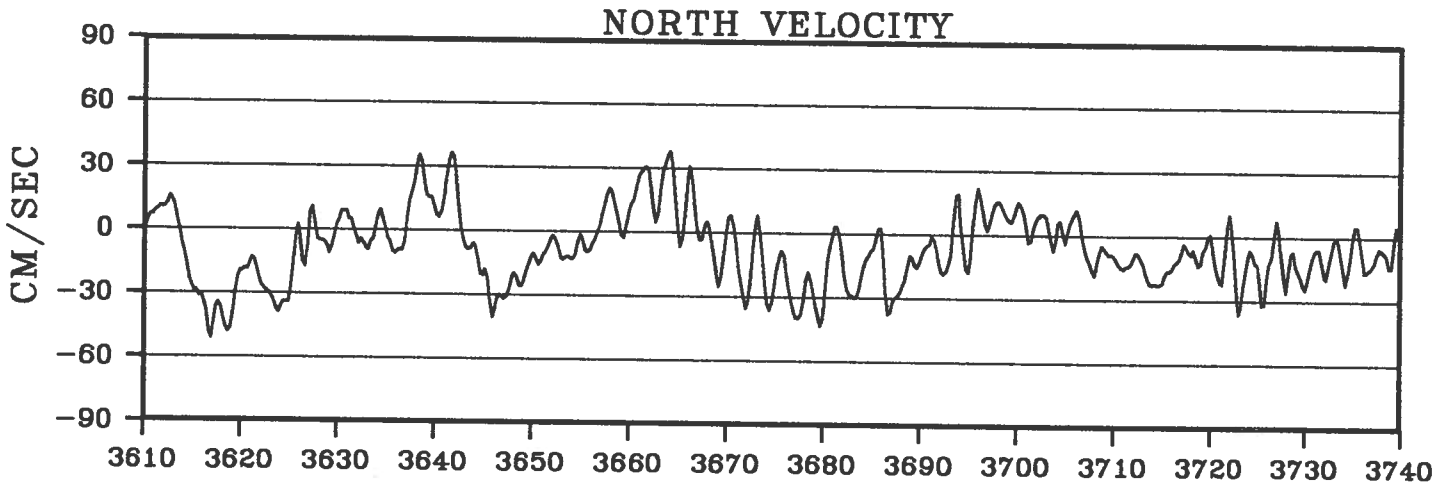
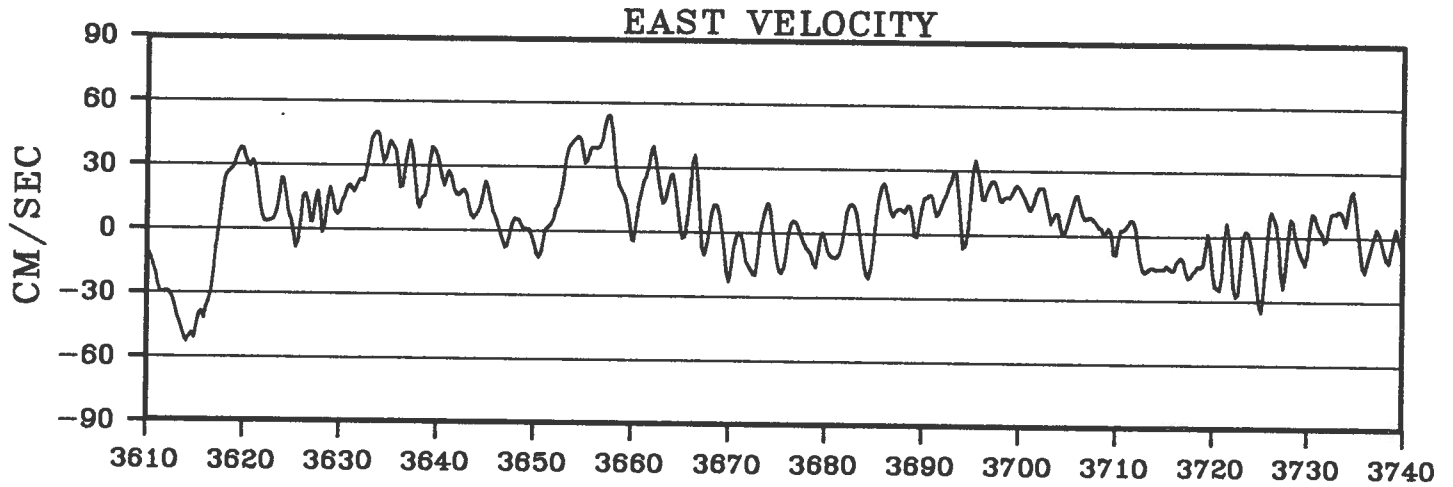
NORTH VELOCITY



TEMPERATURE

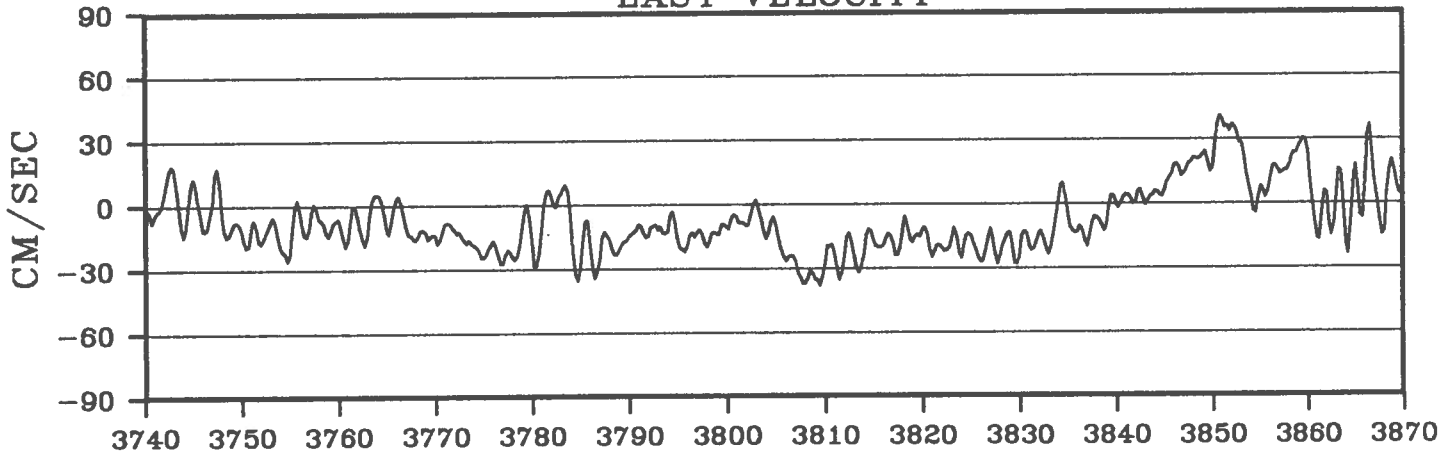


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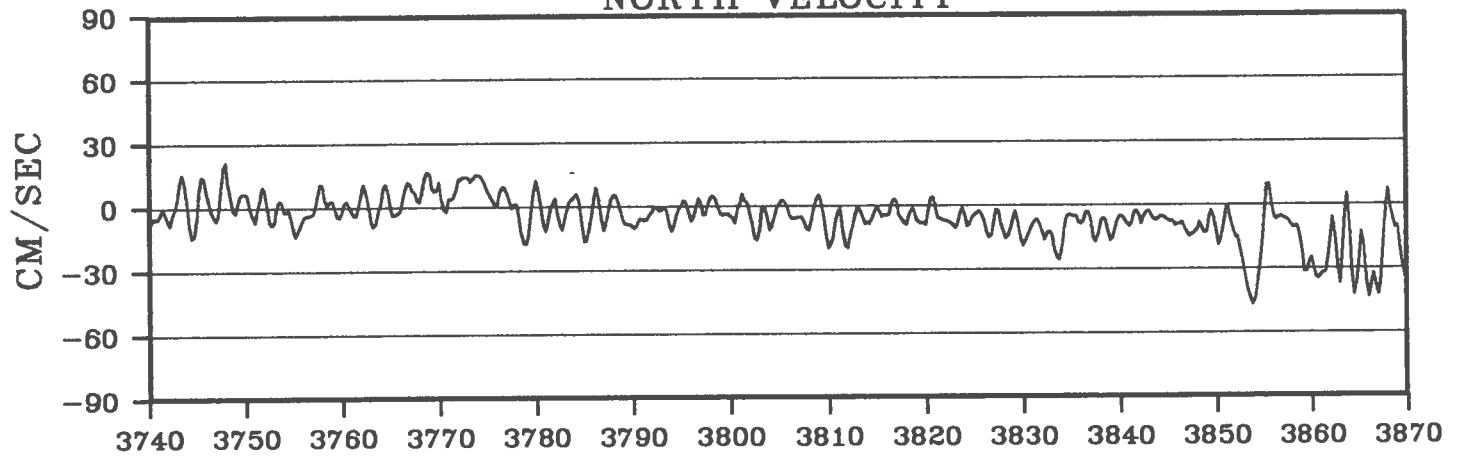


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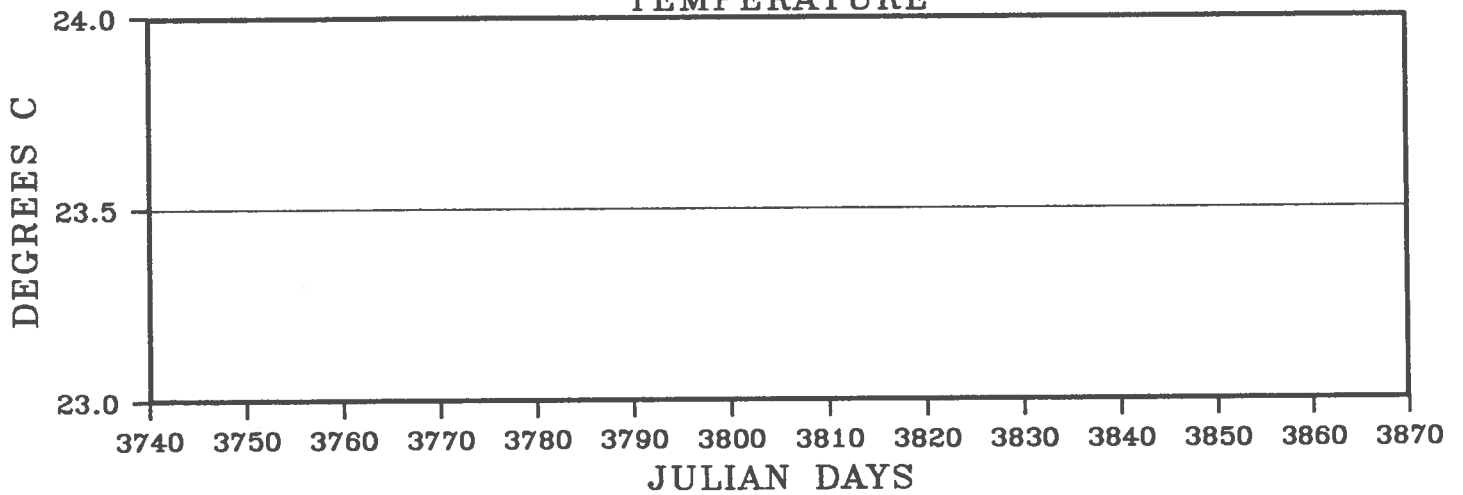
EAST VELOCITY



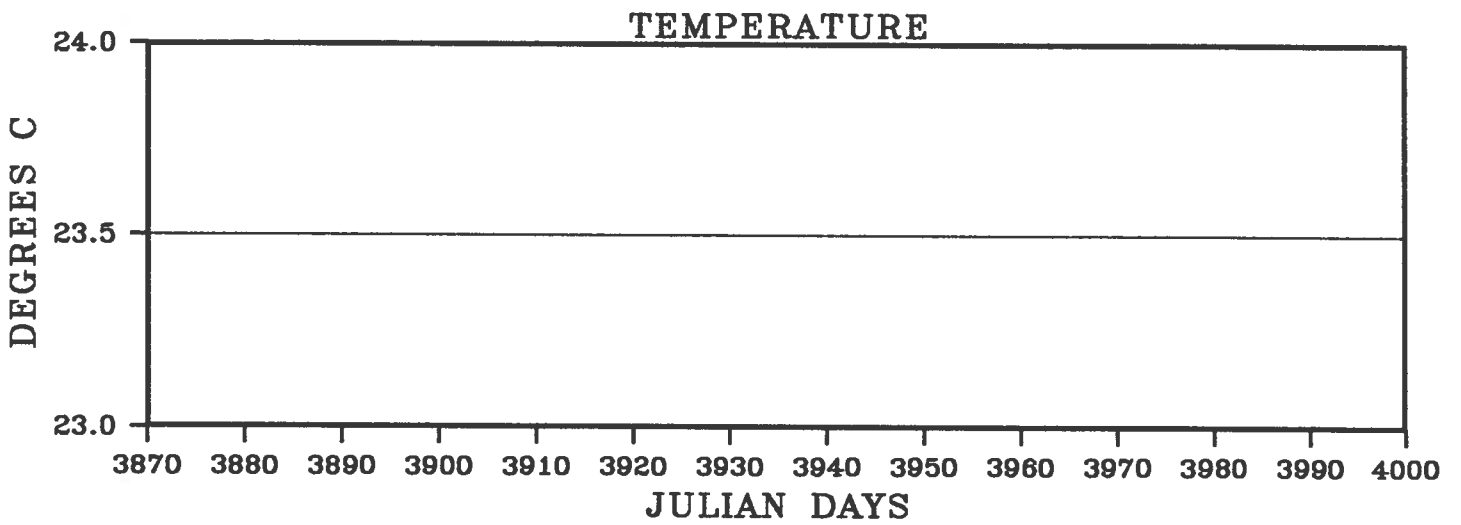
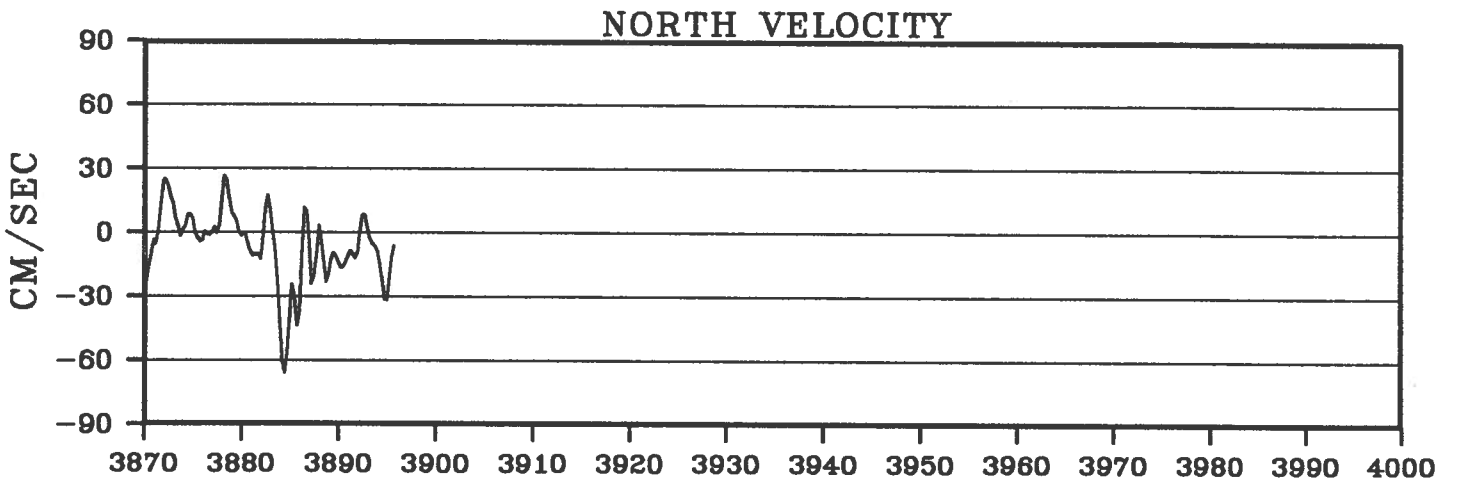
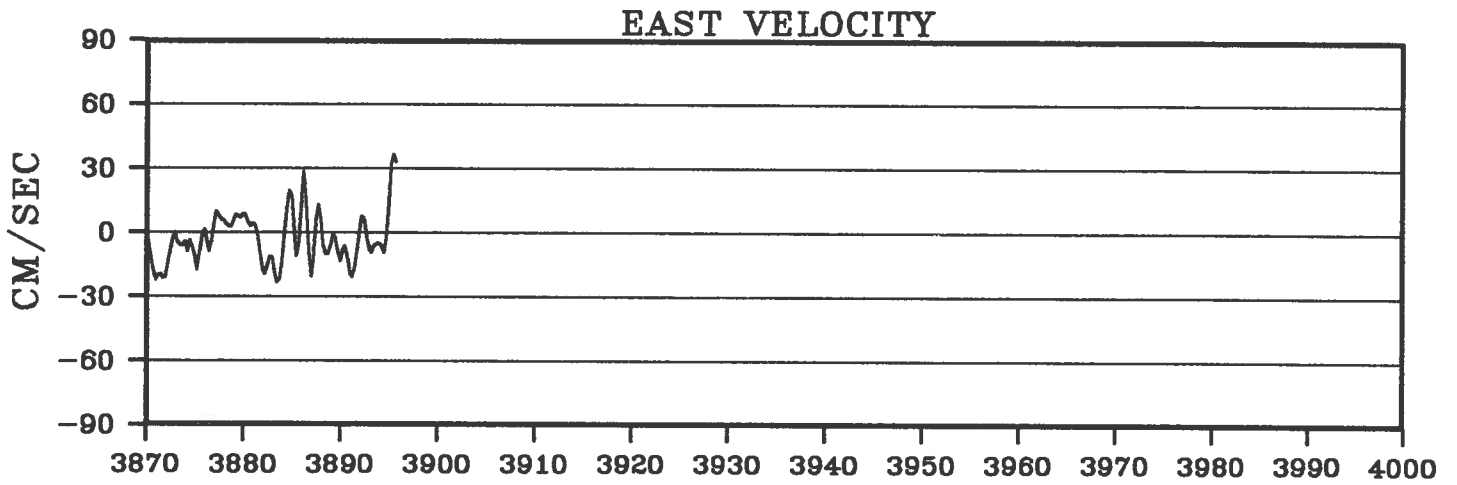
NORTH VELOCITY



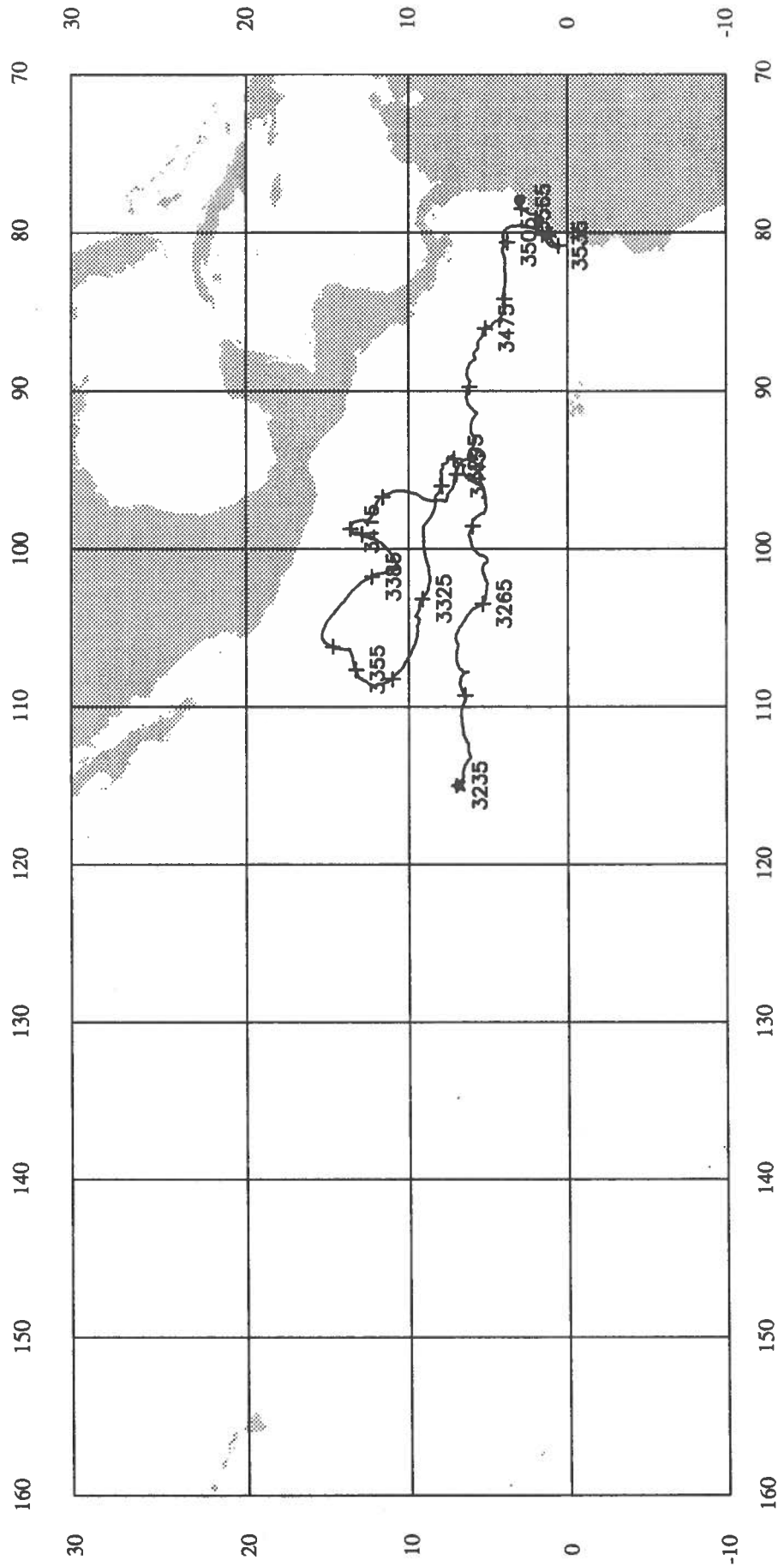
TEMPERATURE



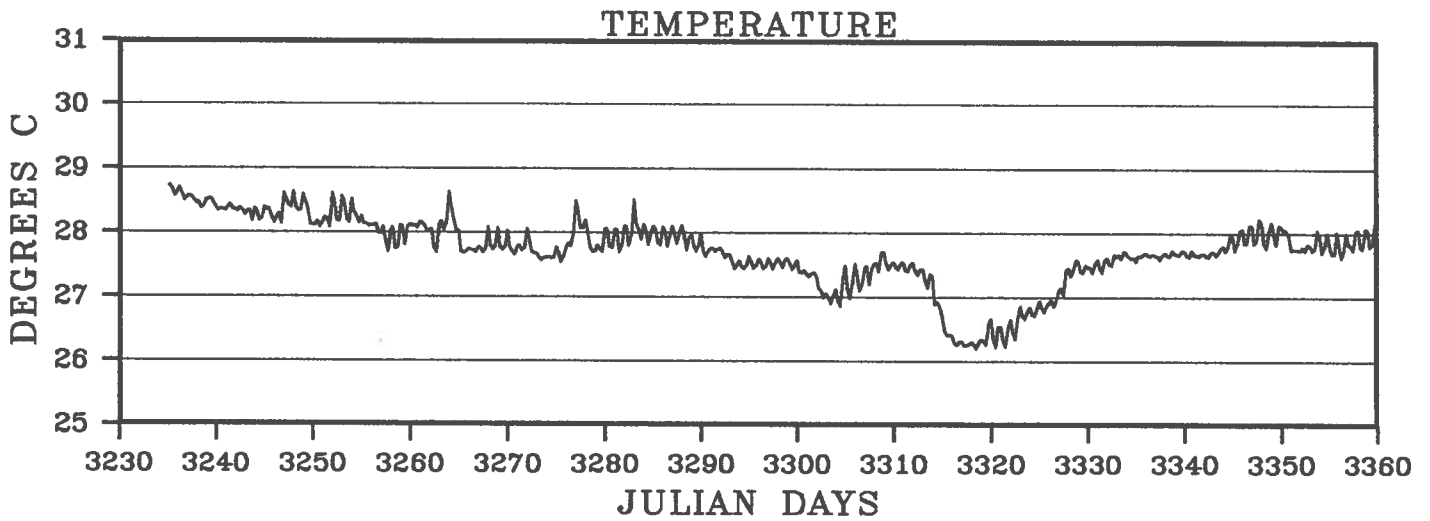
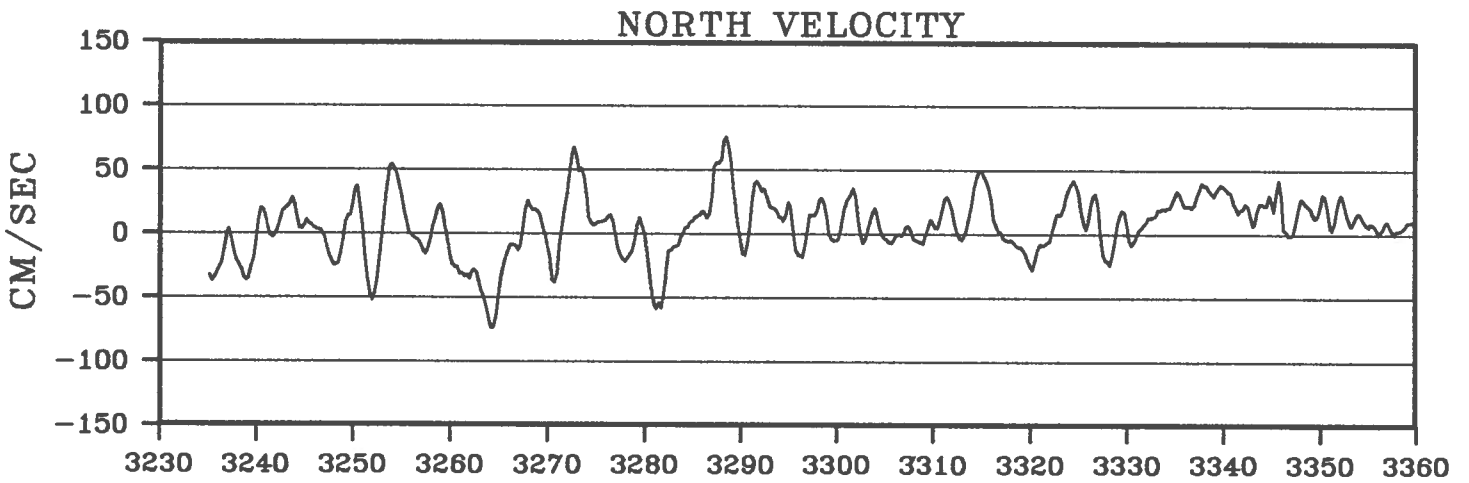
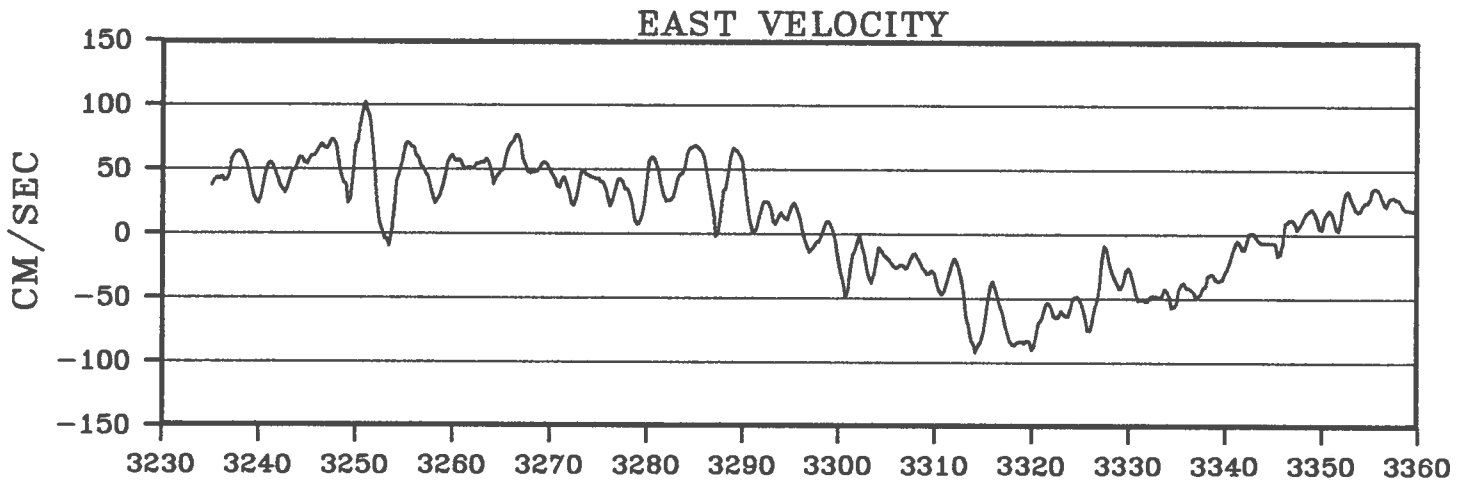
BUOY 6865



BUOY 6867

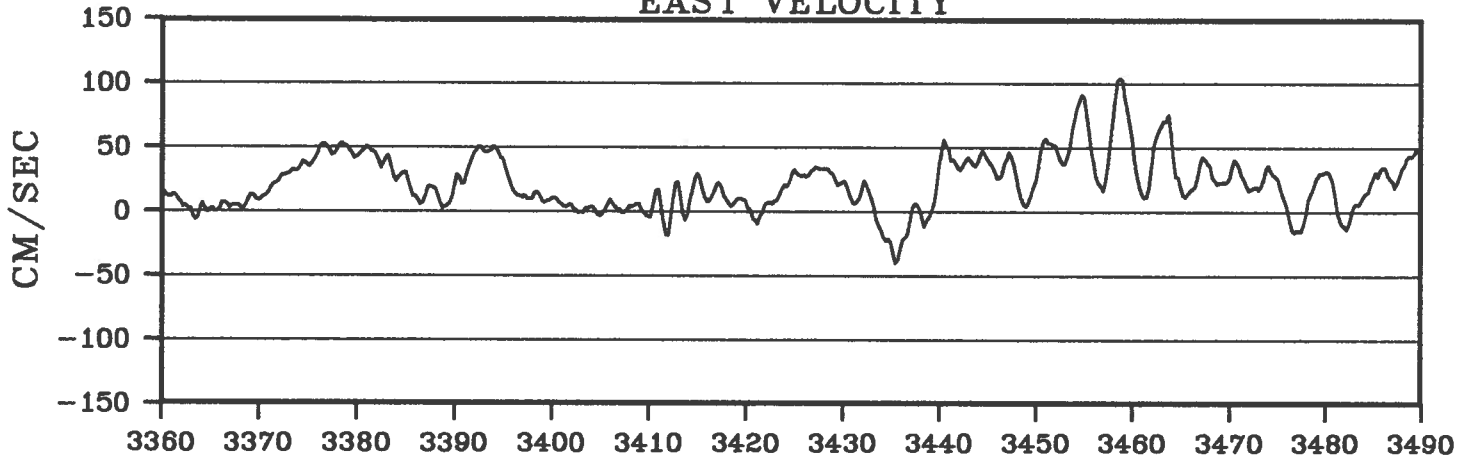


BUOY 6867

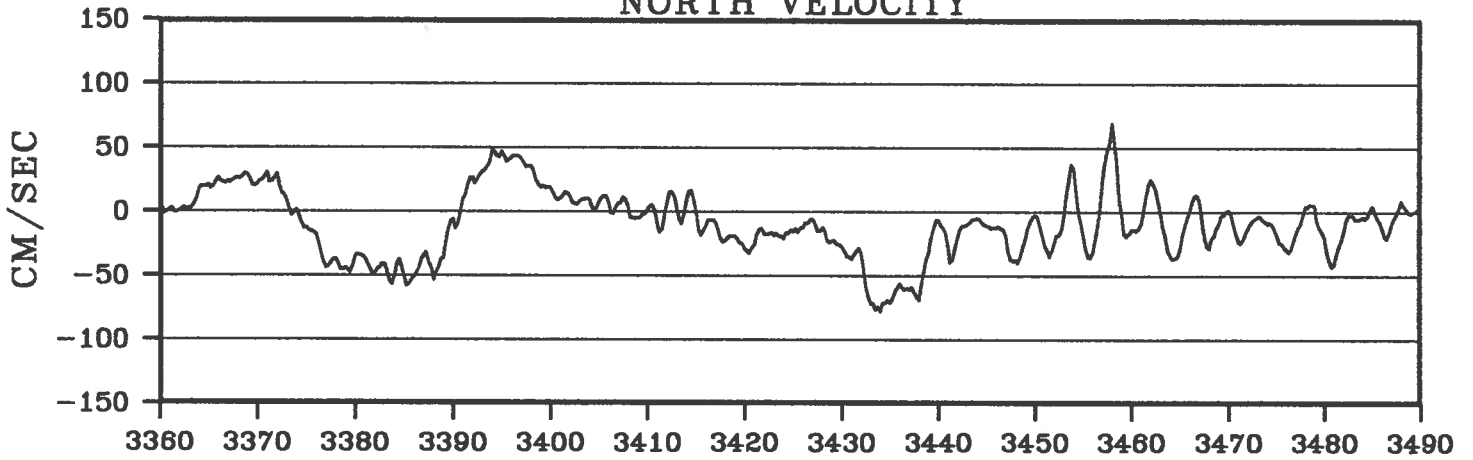


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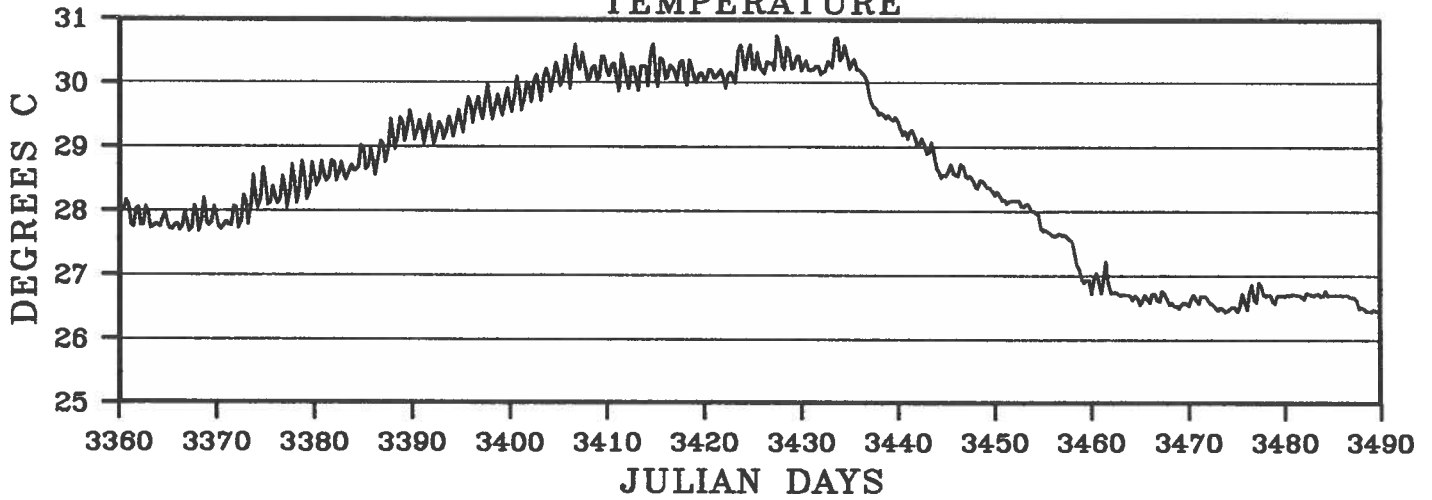
EAST VELOCITY



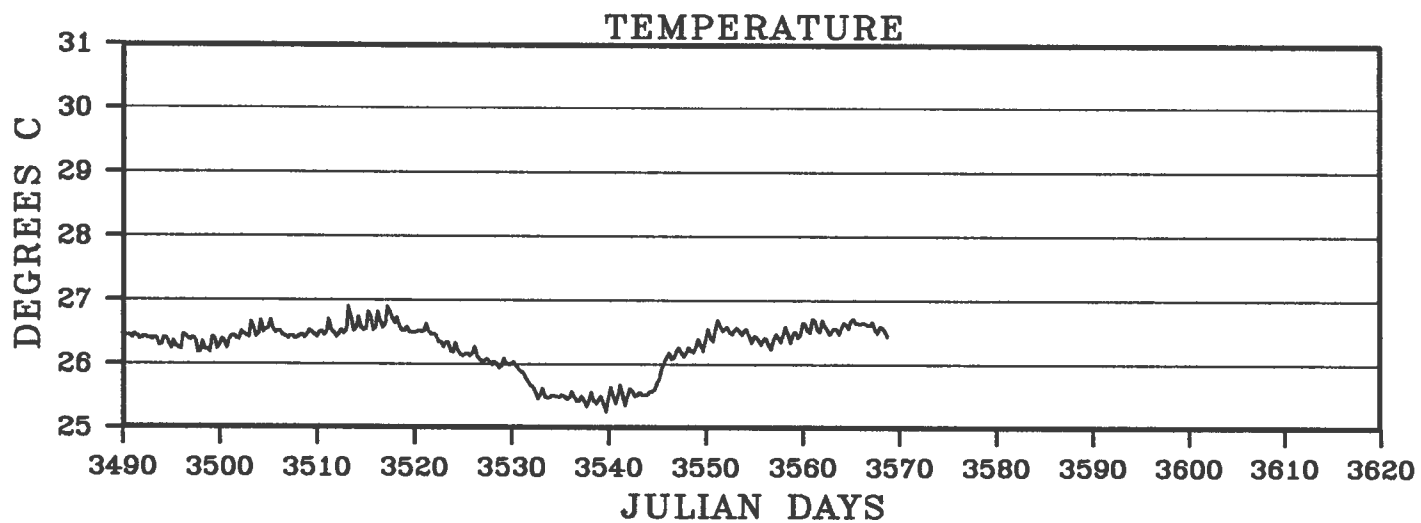
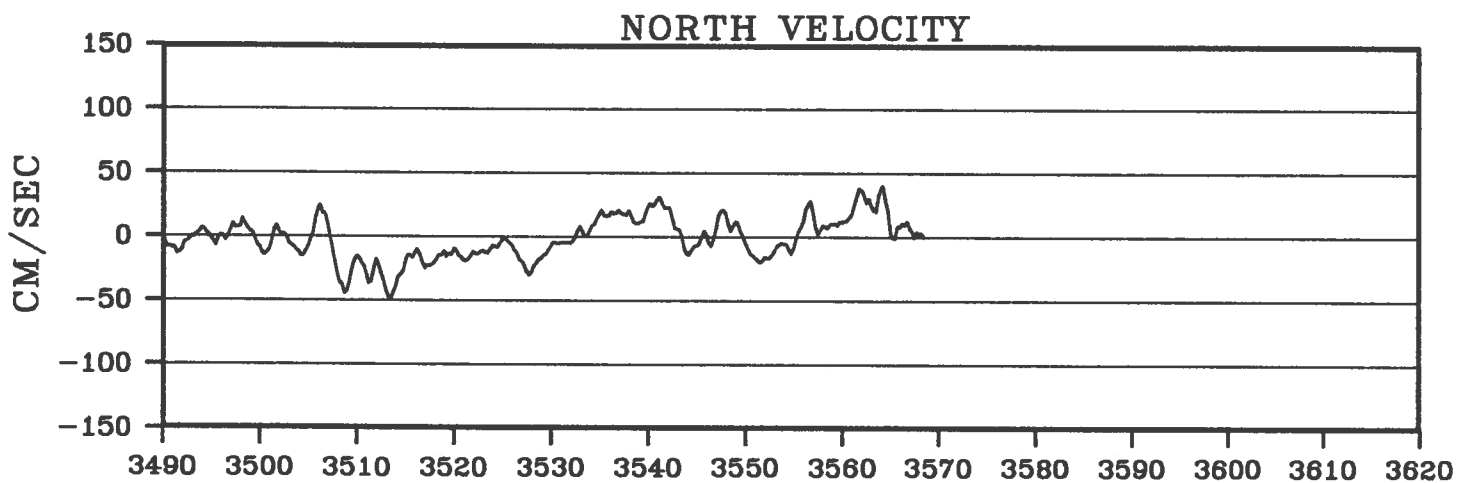
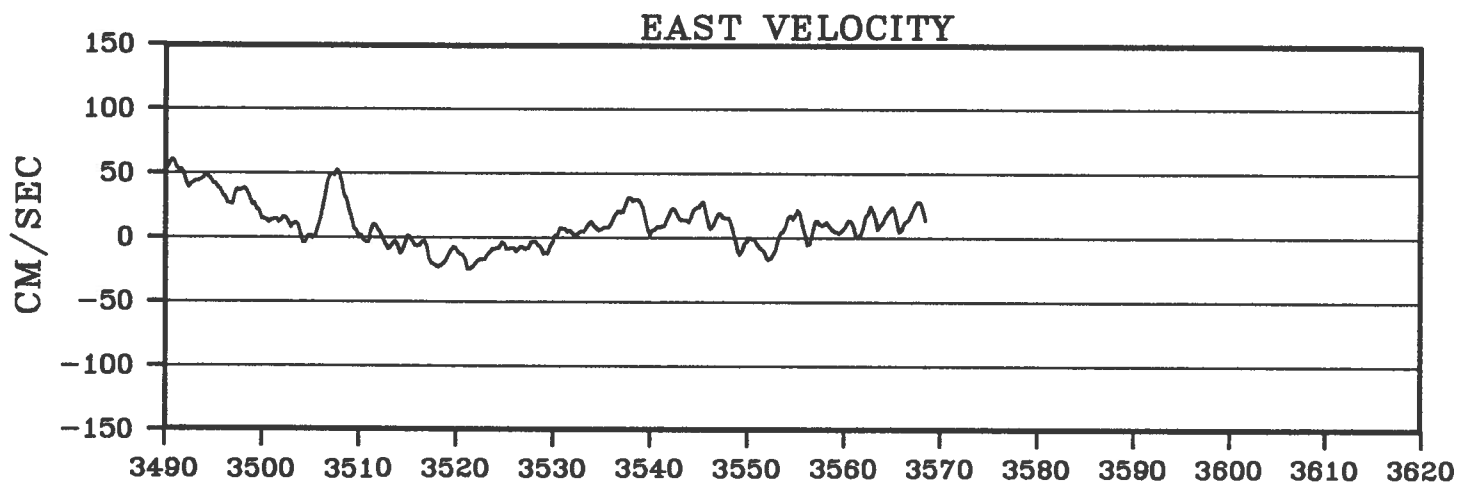
NORTH VELOCITY



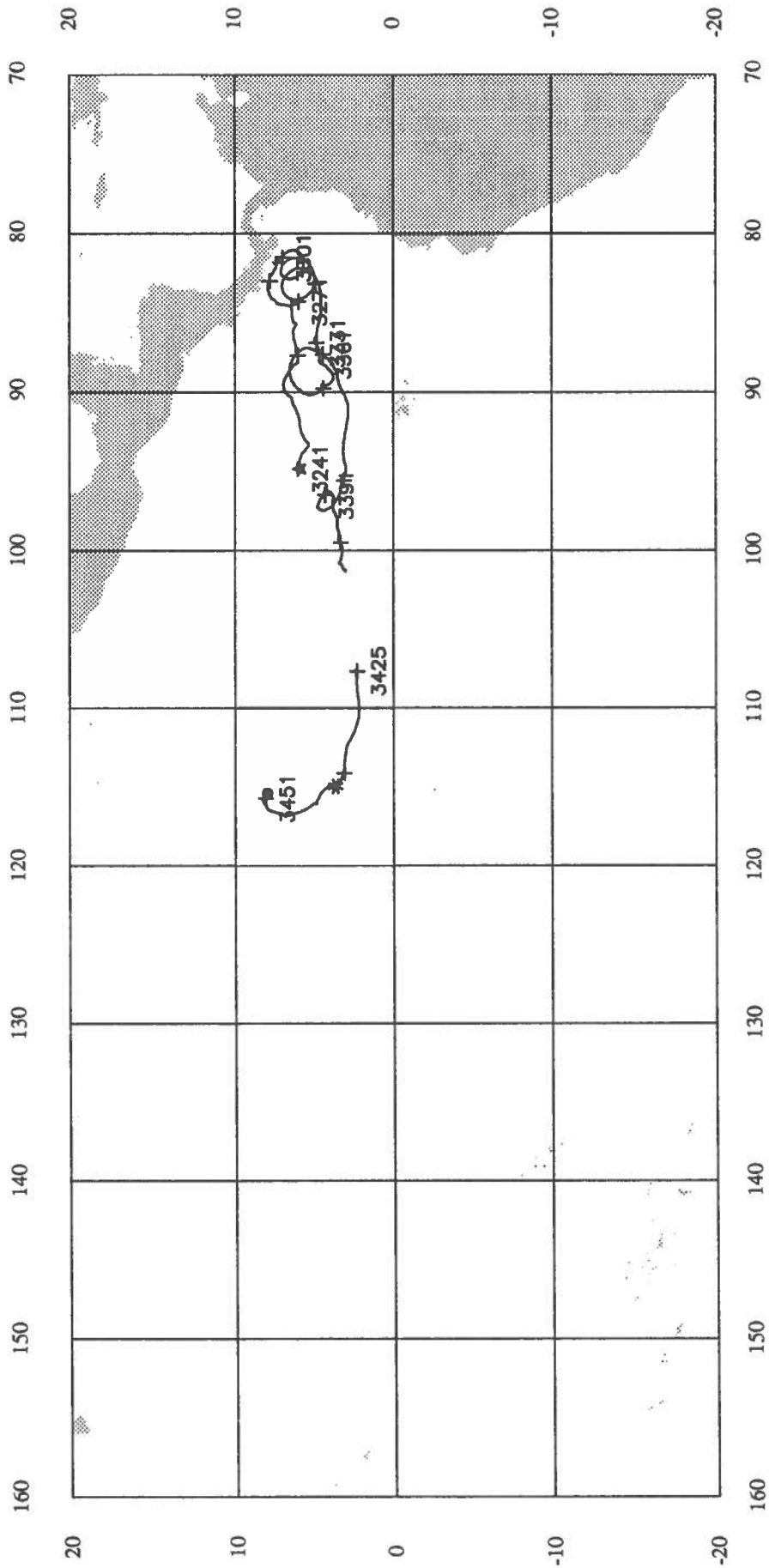
TEMPERATURE



BUOY 6867

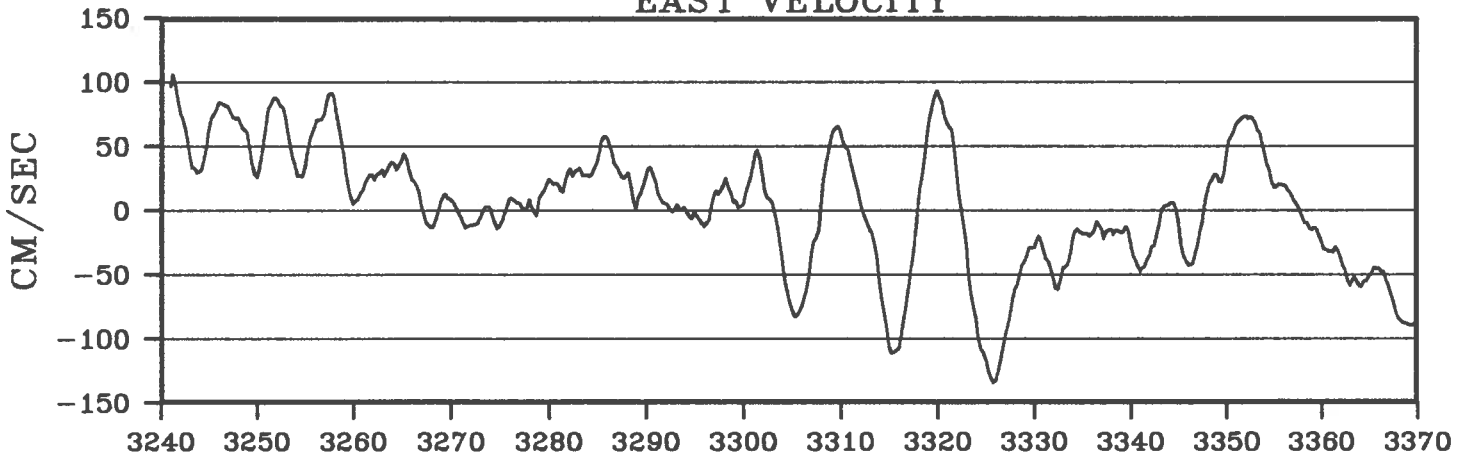


BUOY 6868

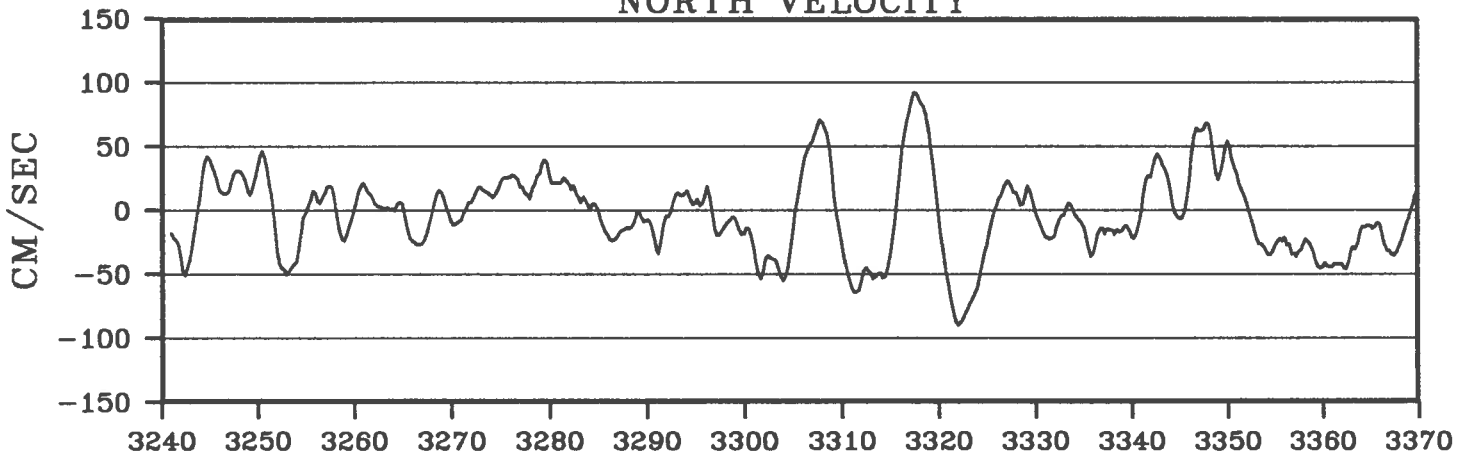


BUOY 6868

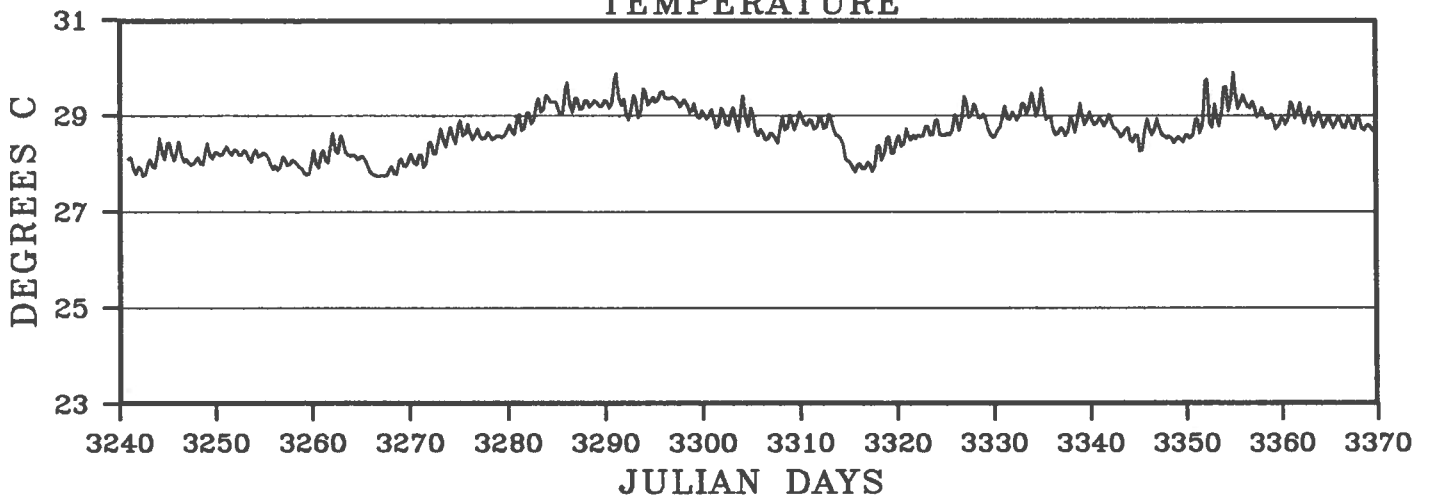
EAST VELOCITY



NORTH VELOCITY

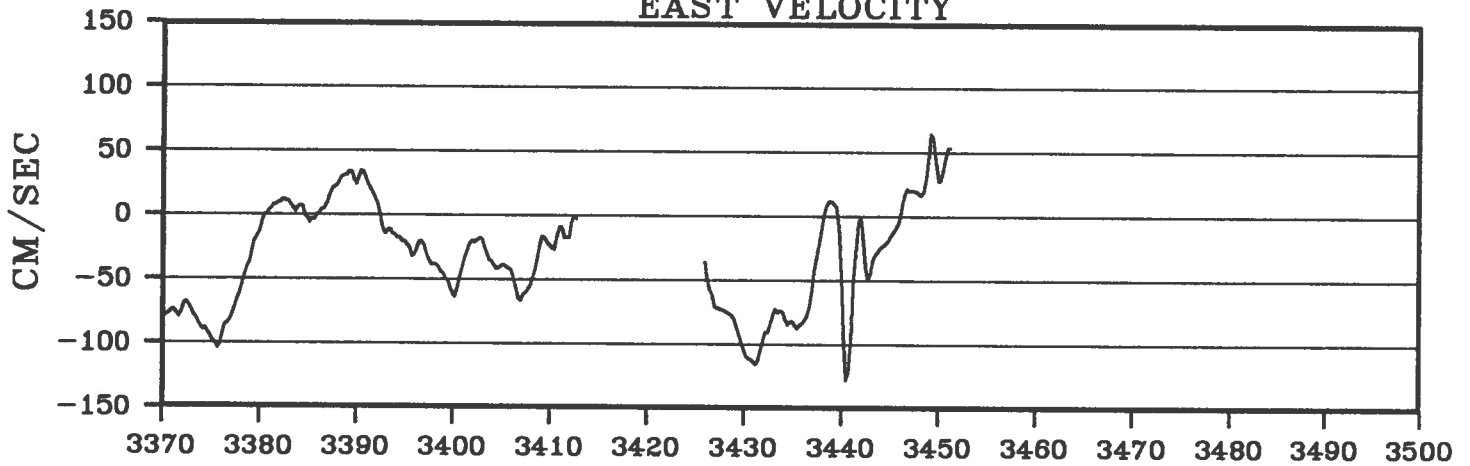


TEMPERATURE

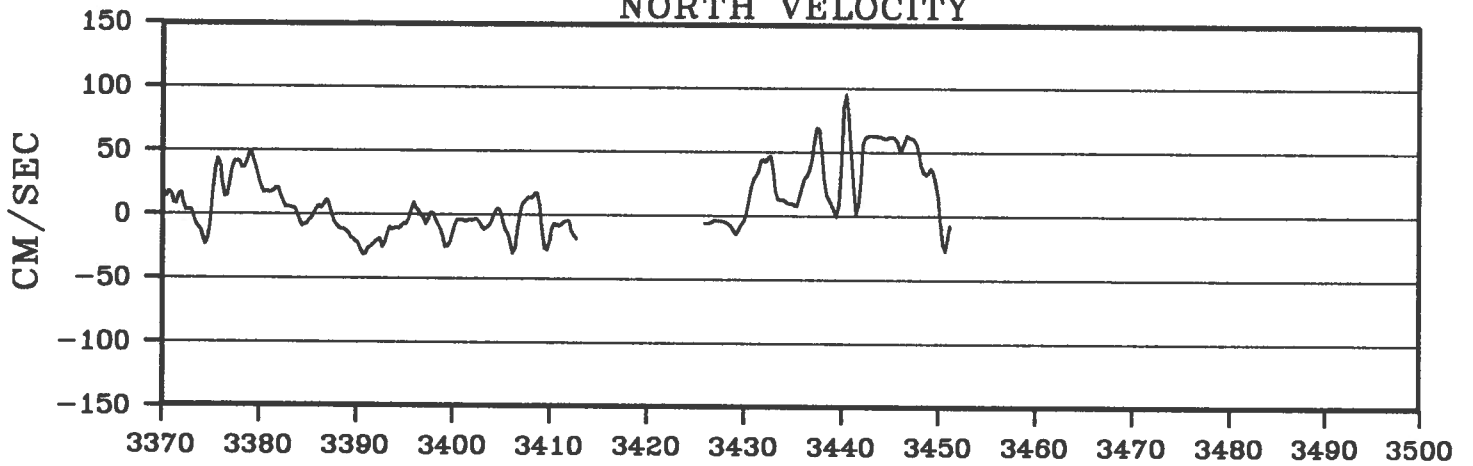


BUOY 6868

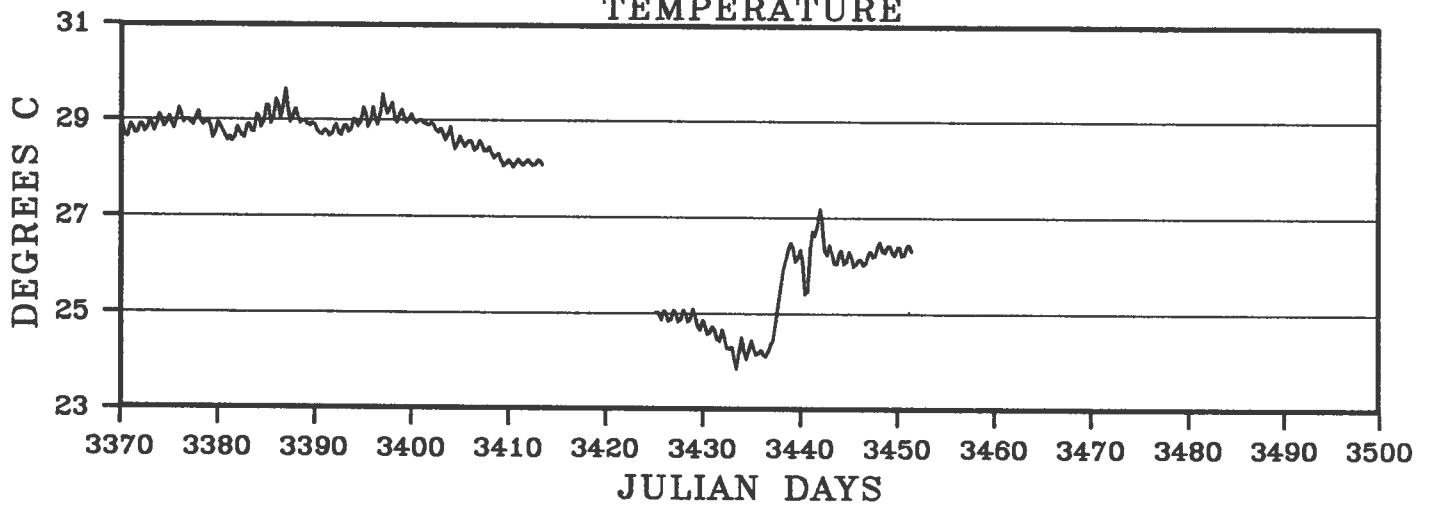
EAST VELOCITY



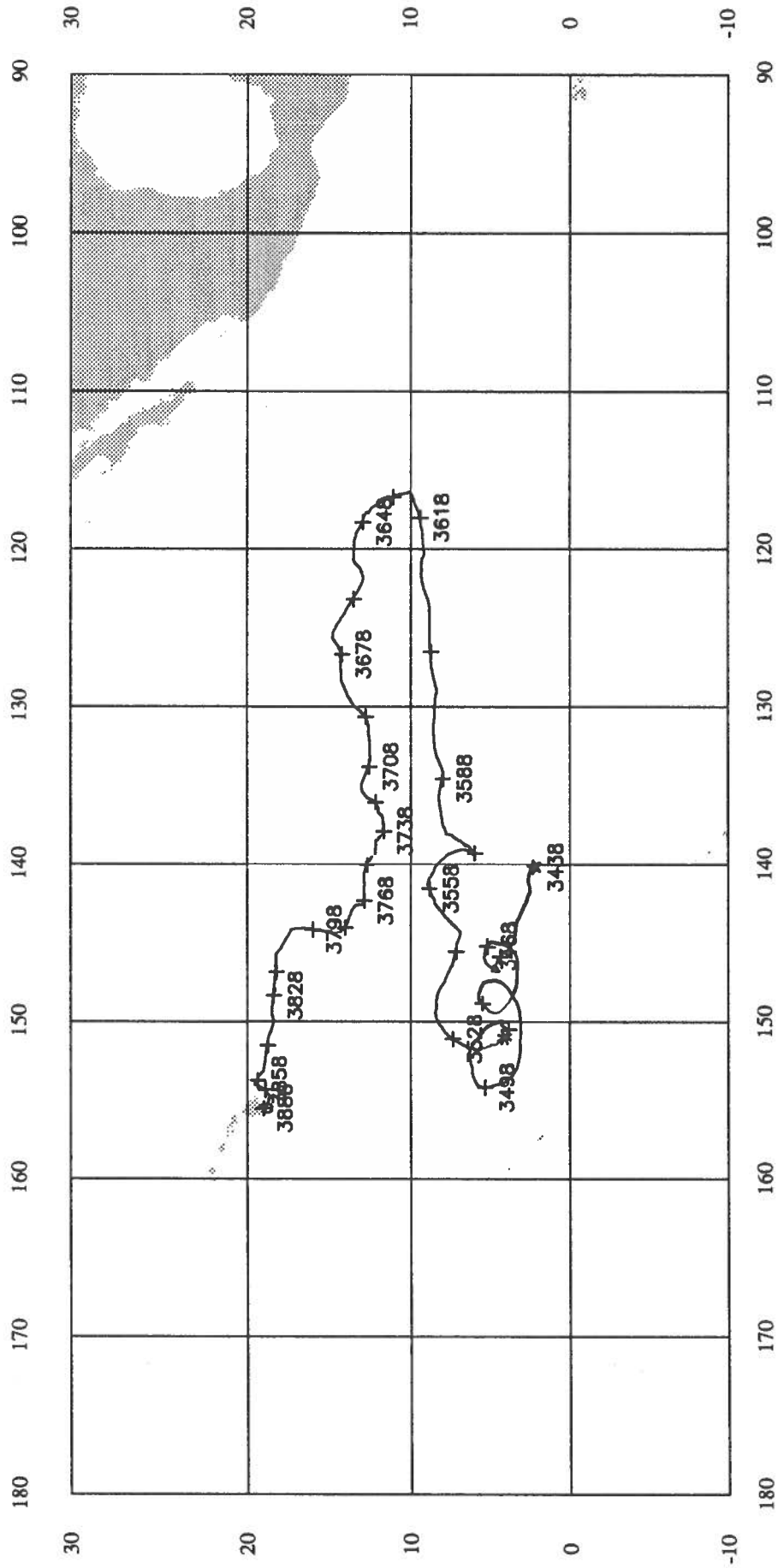
NORTH VELOCITY



TEMPERATURE

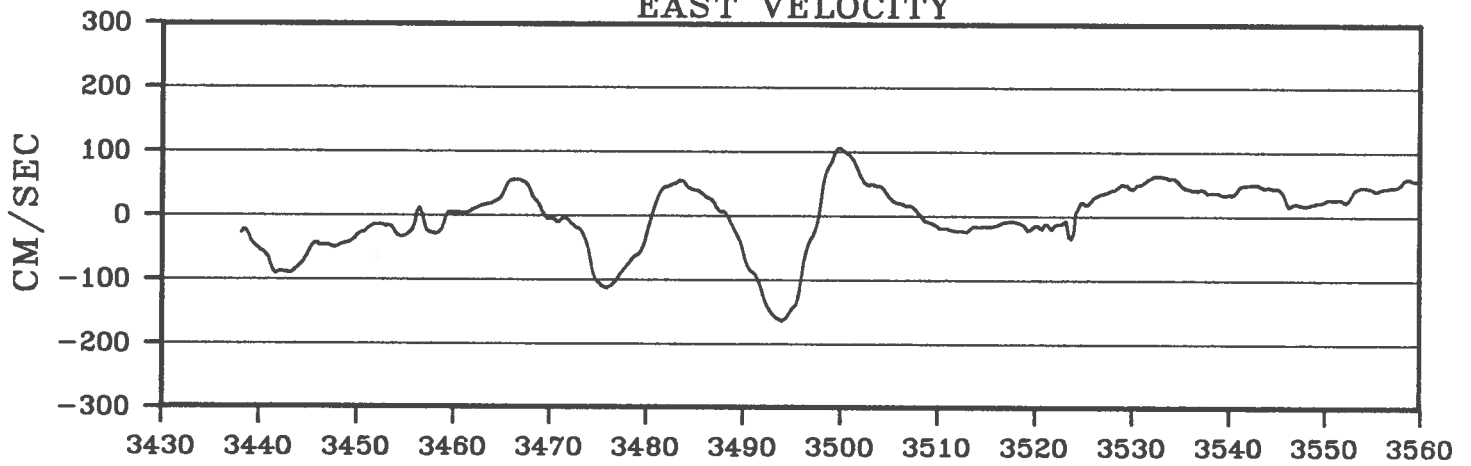


BUOY 6873

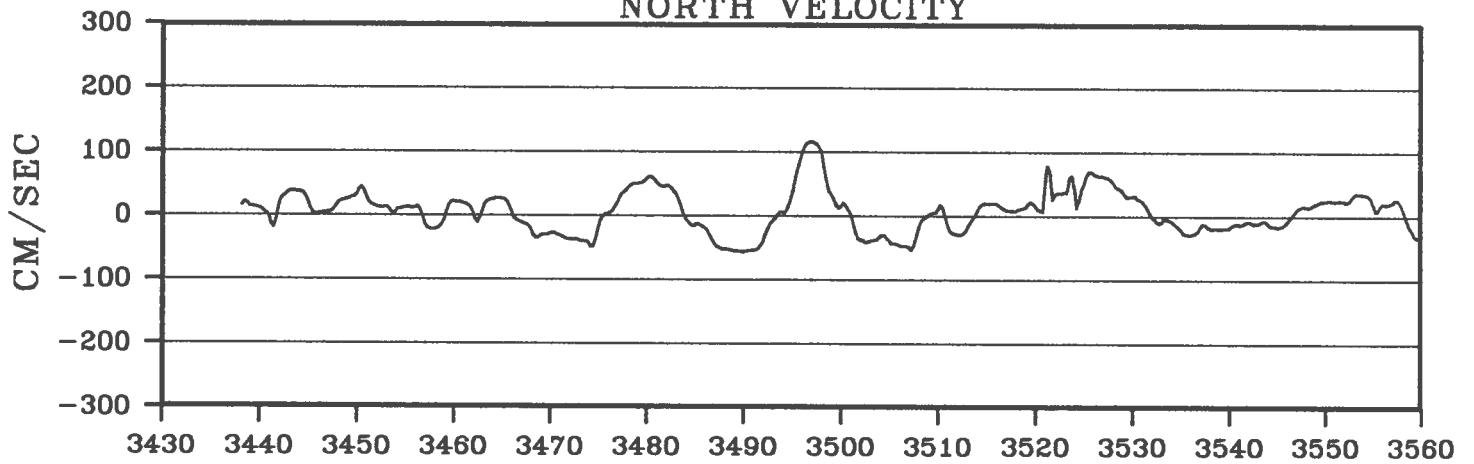


BUOY 6873

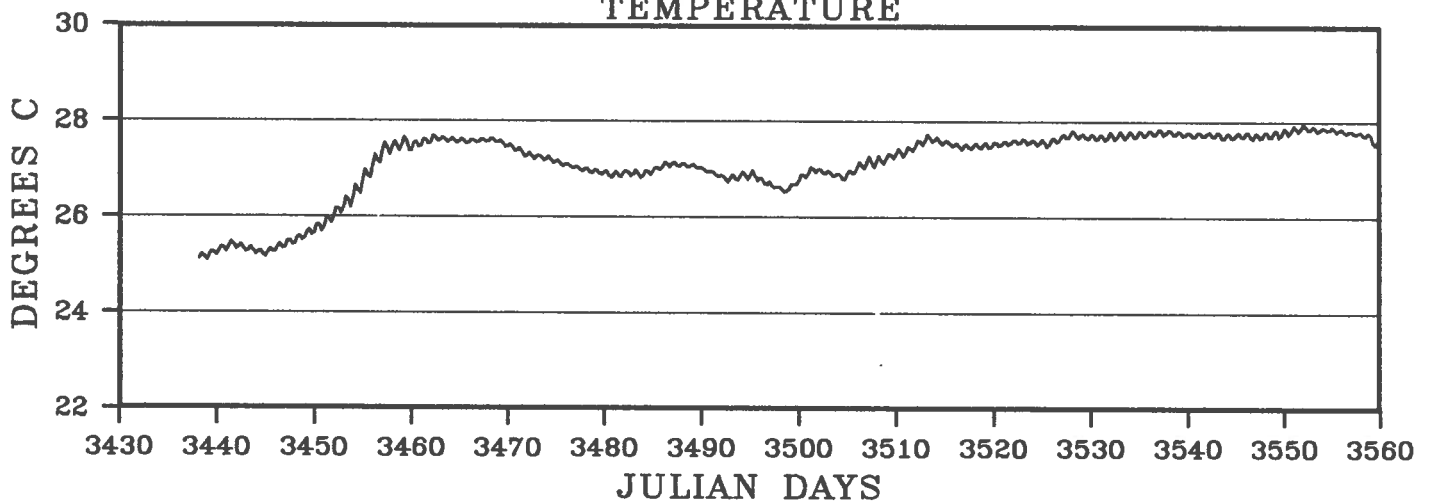
EAST VELOCITY



NORTH VELOCITY

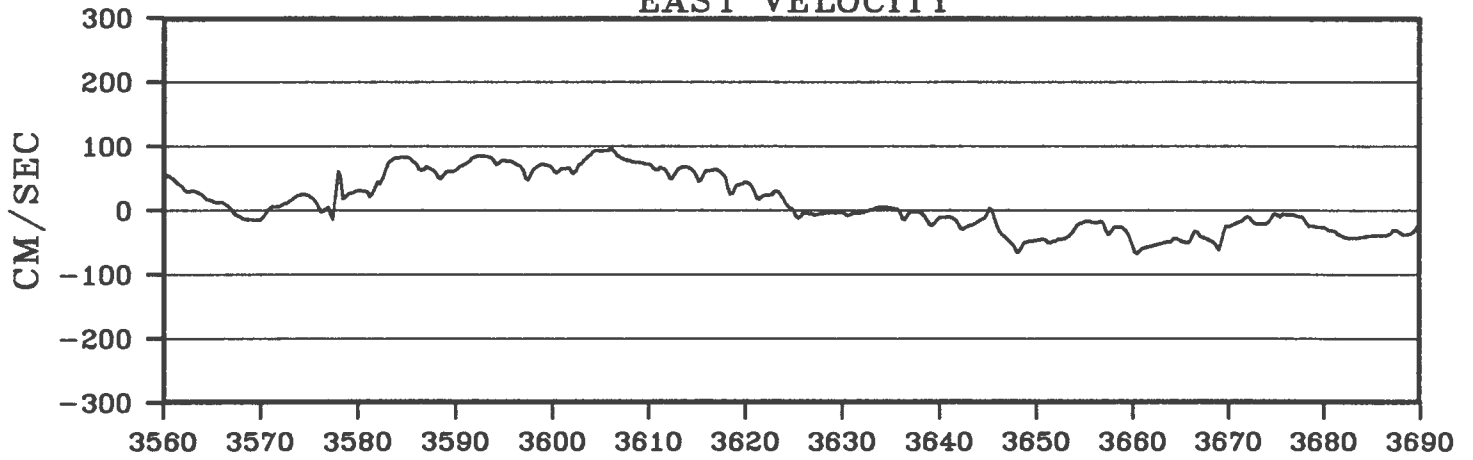


TEMPERATURE

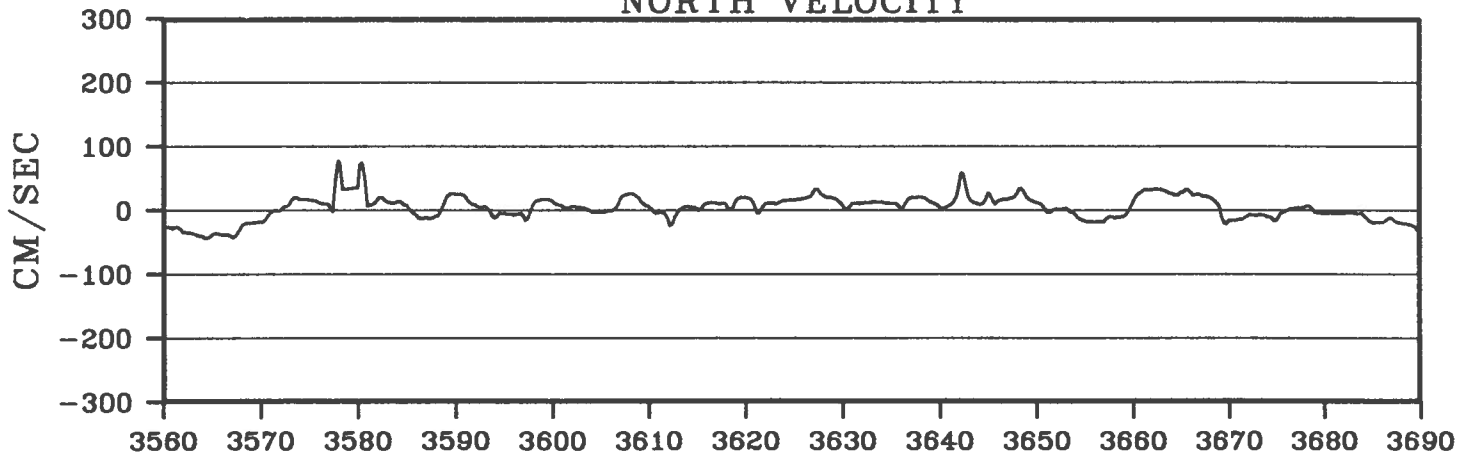


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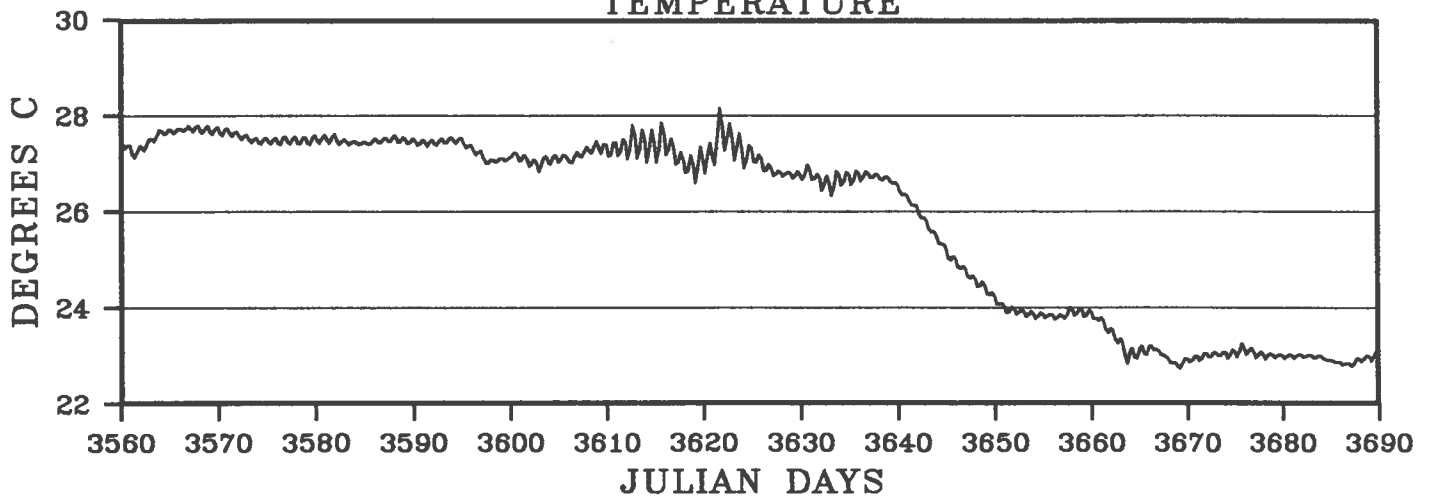
EAST VELOCITY



NORTH VELOCITY

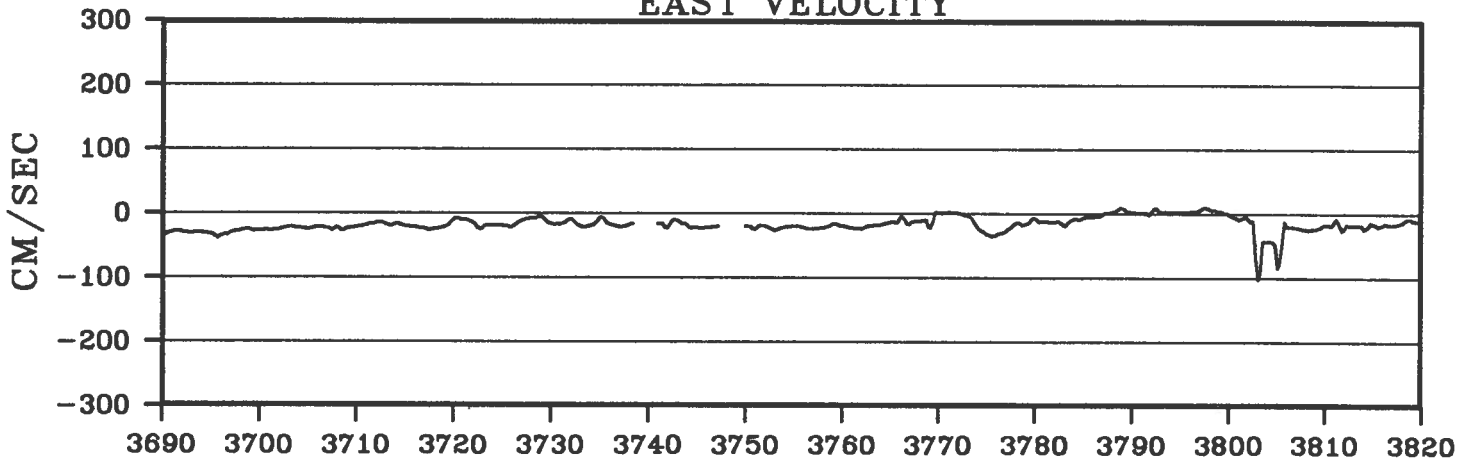


TEMPERATURE

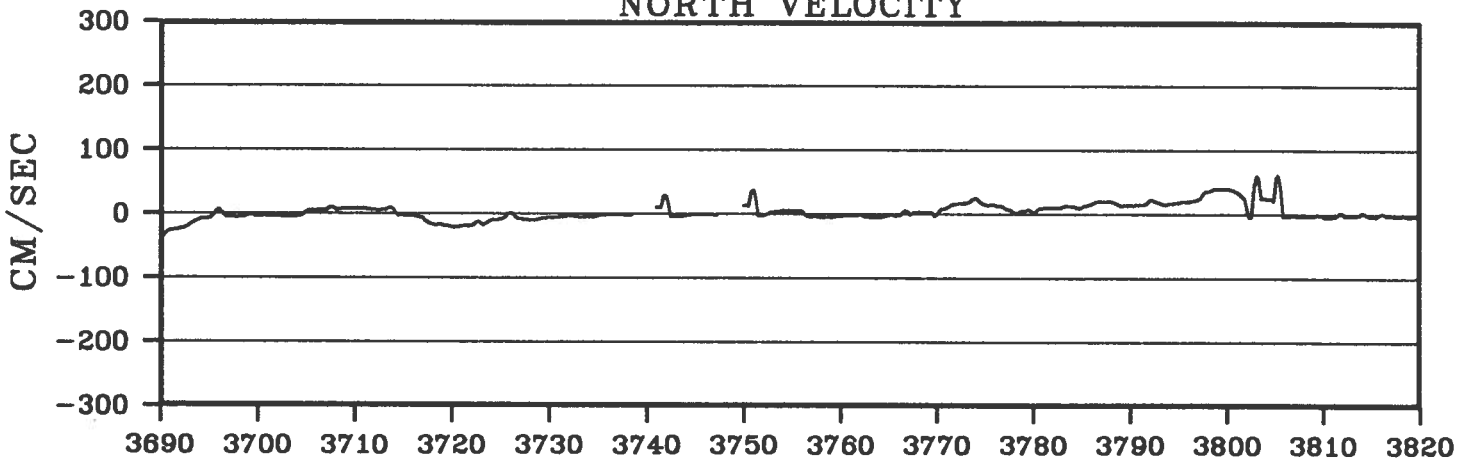


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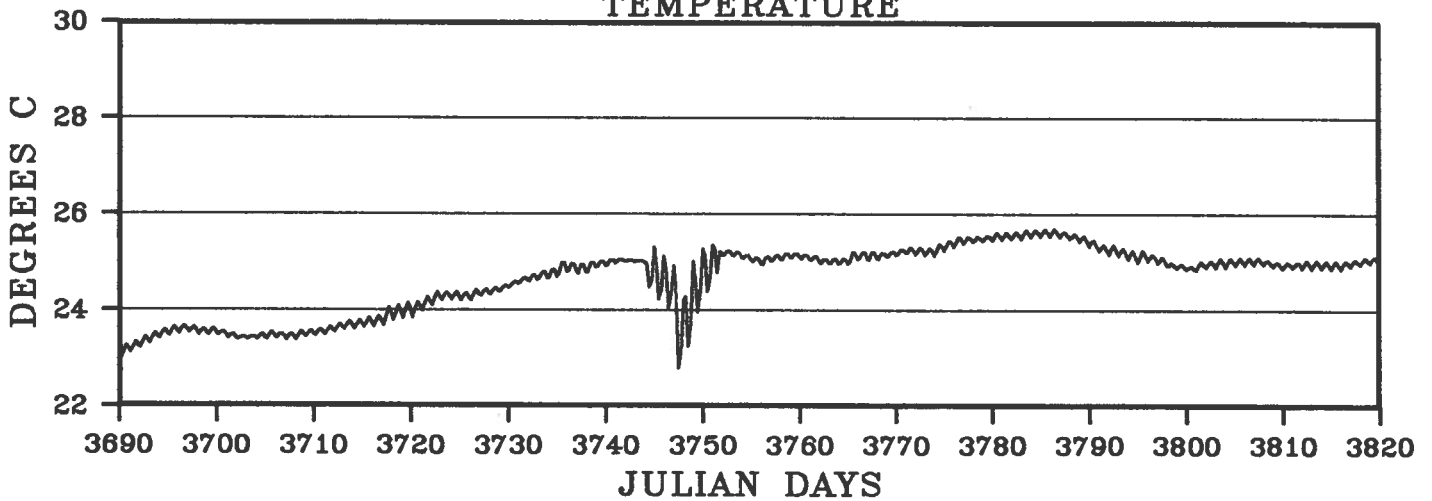
EAST VELOCITY



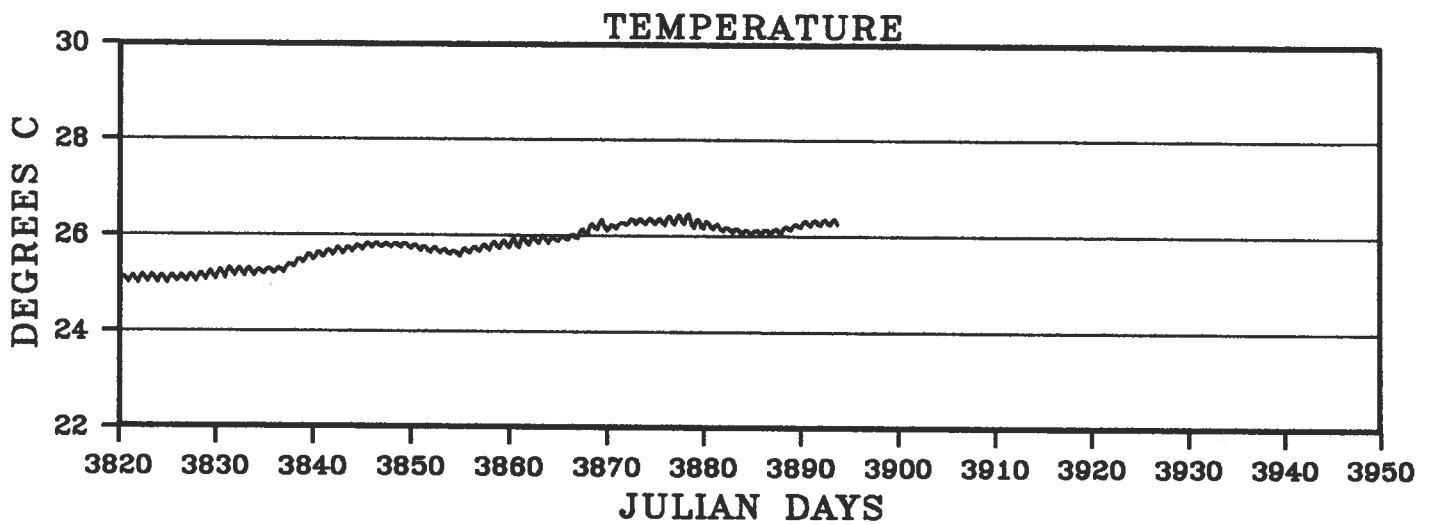
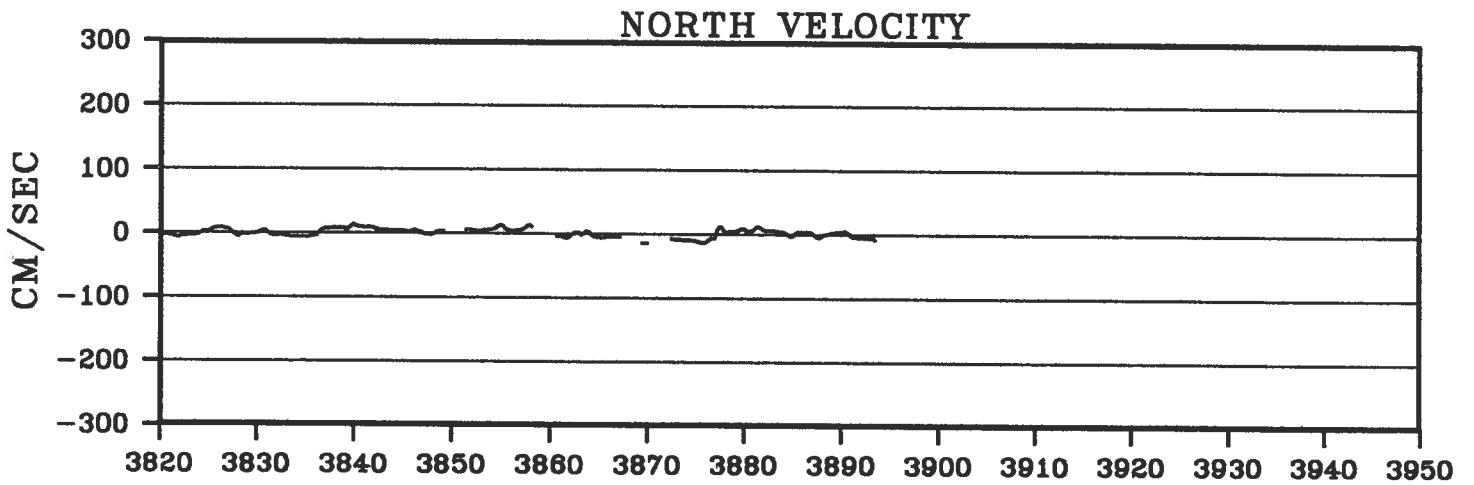
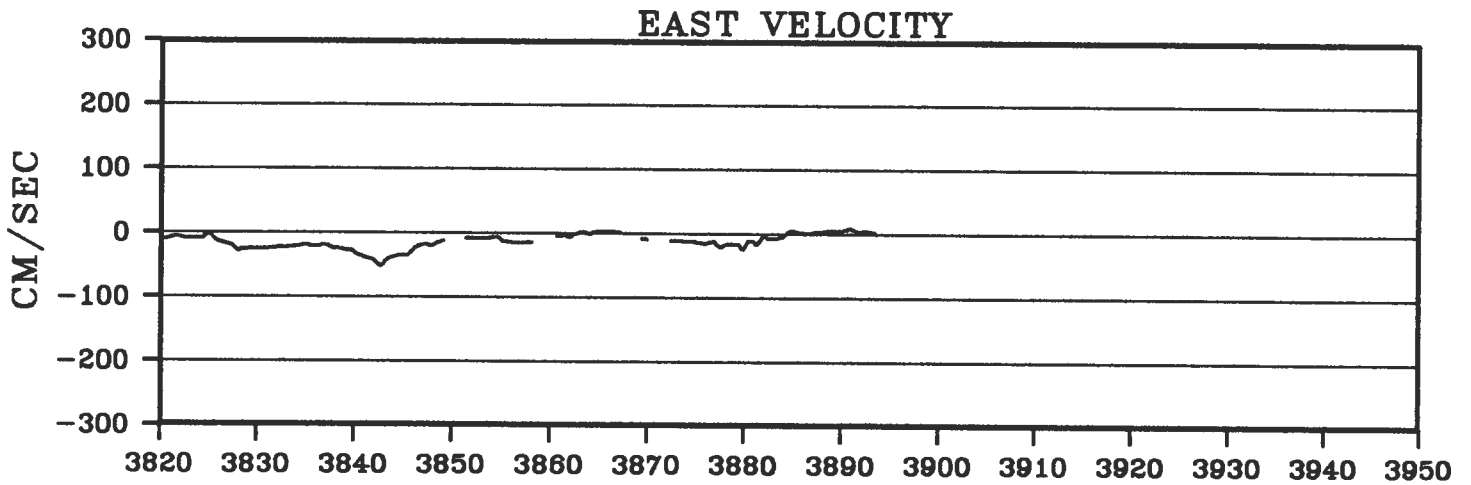
NORTH VELOCITY



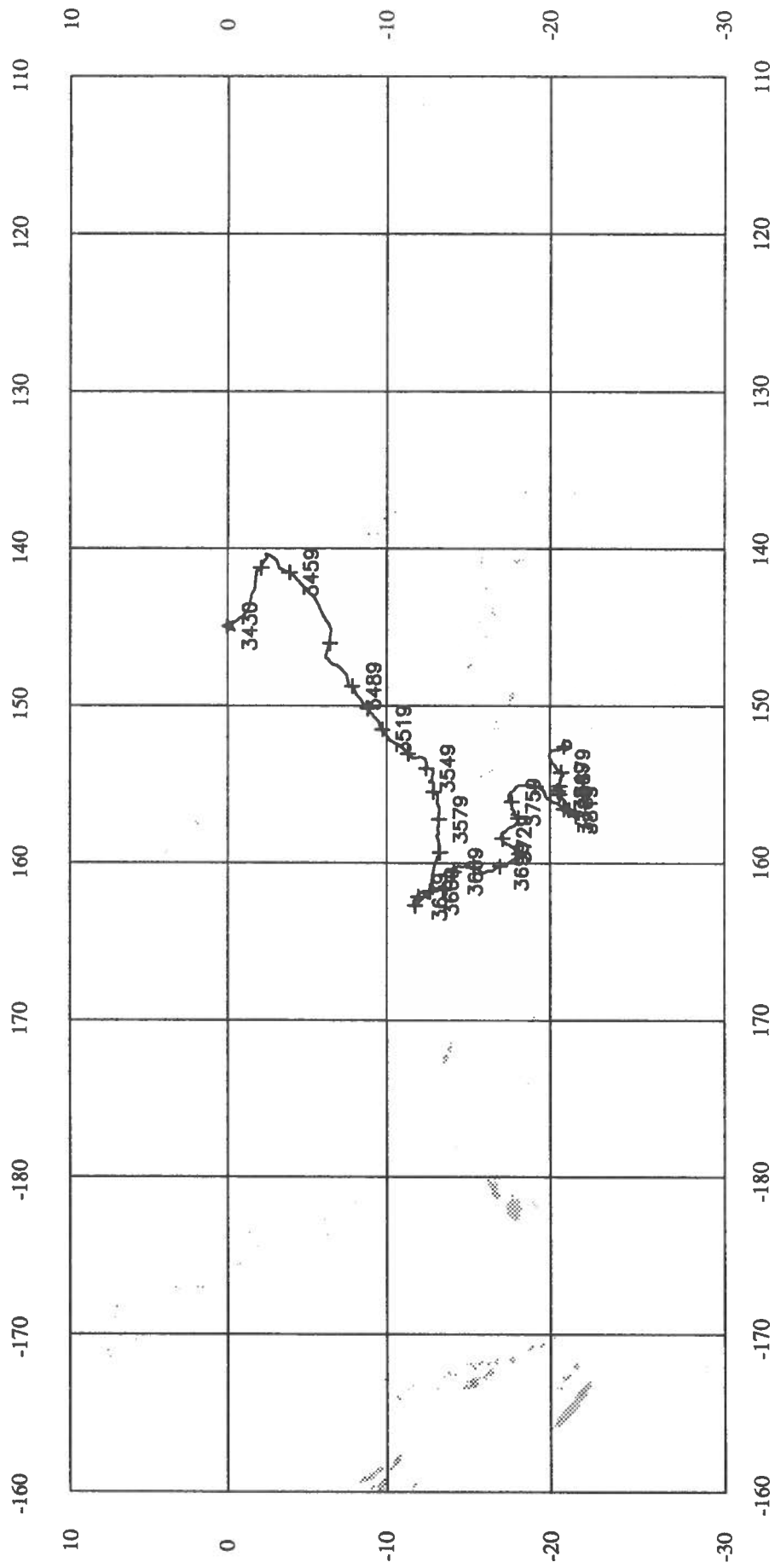
TEMPERATURE



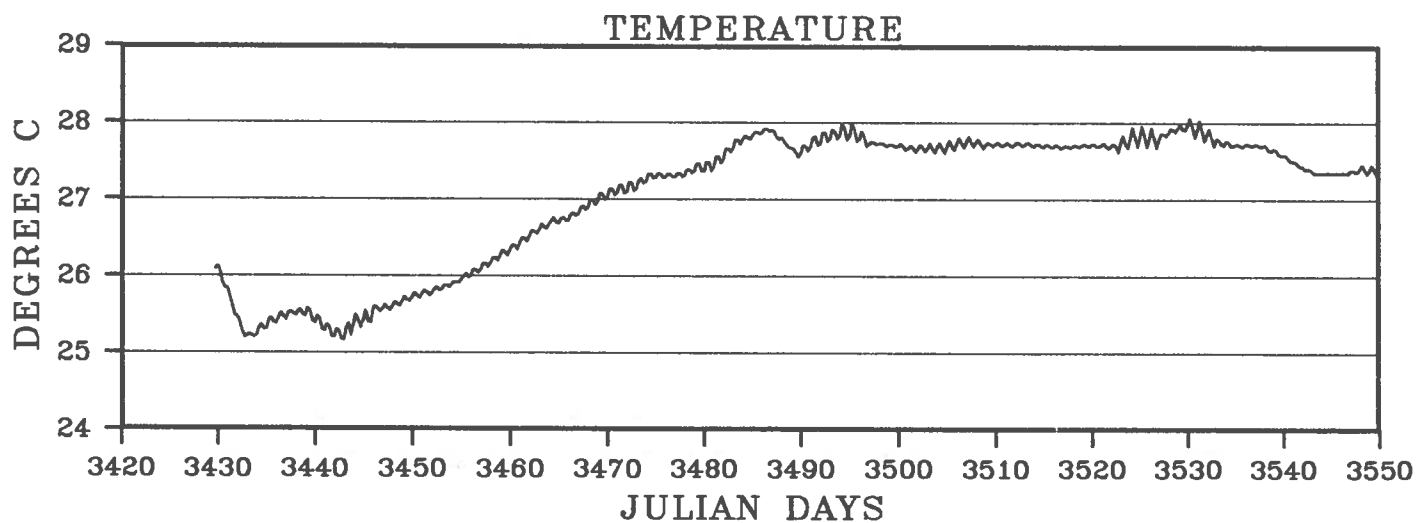
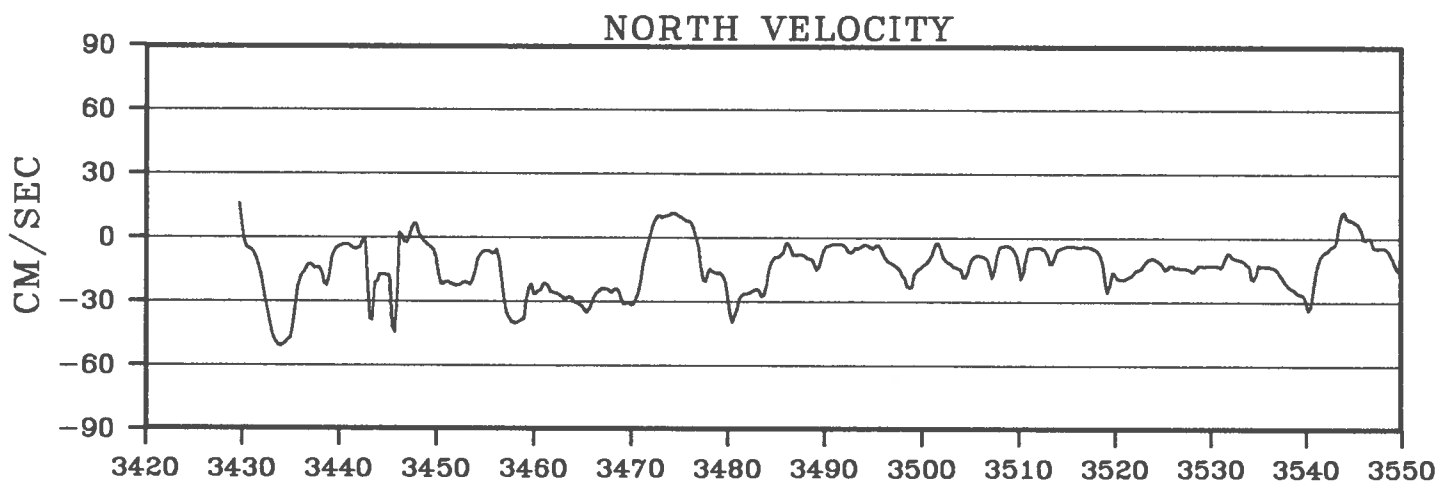
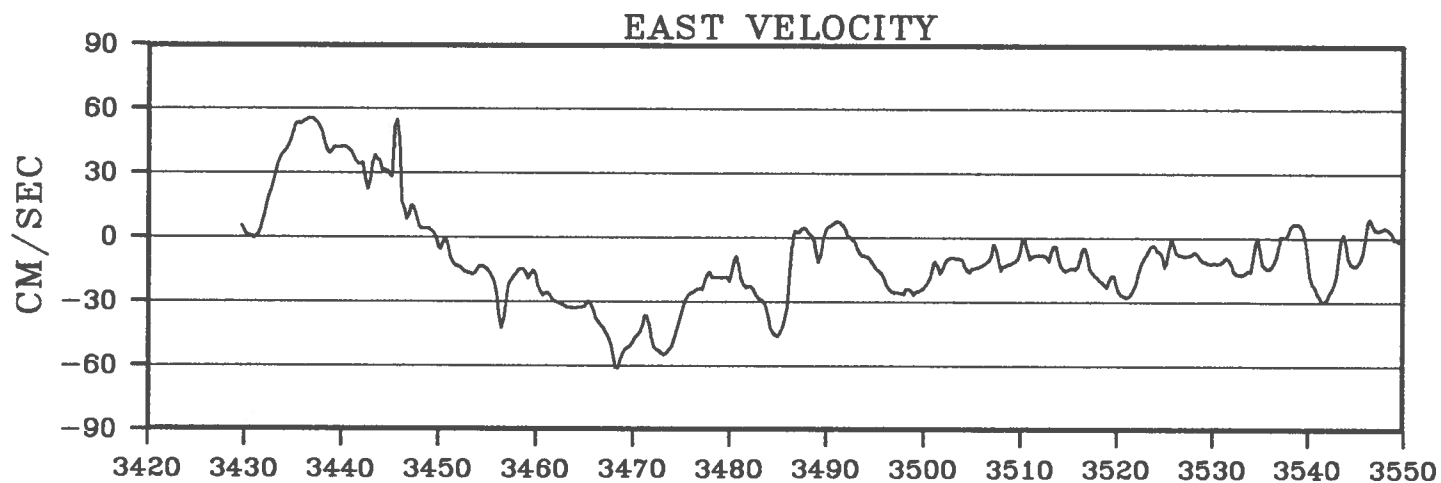
BUOY 6873



BUOY 6883

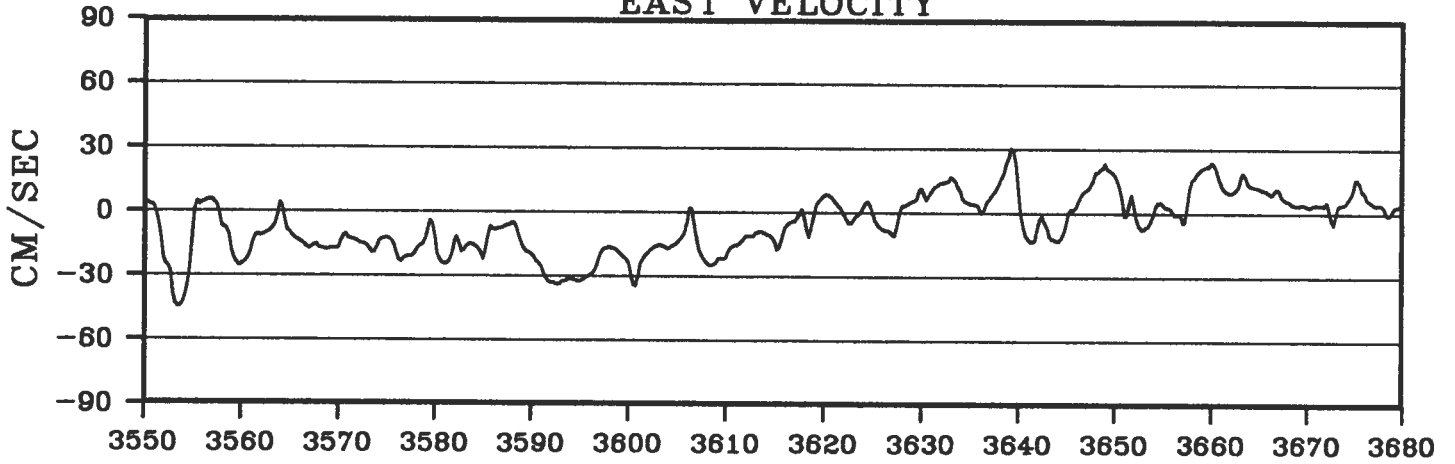


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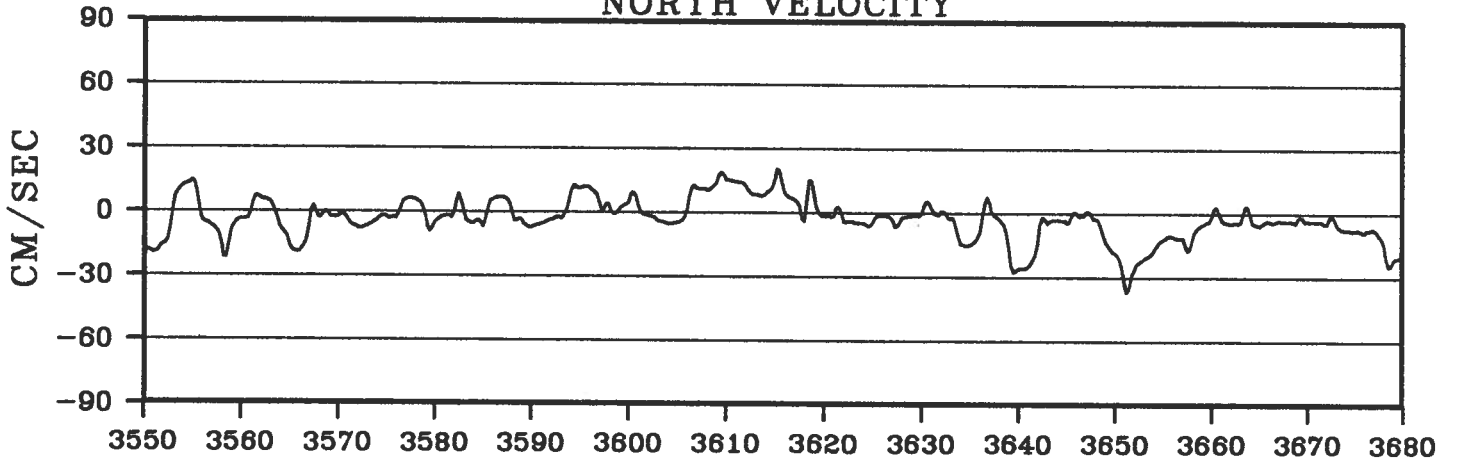


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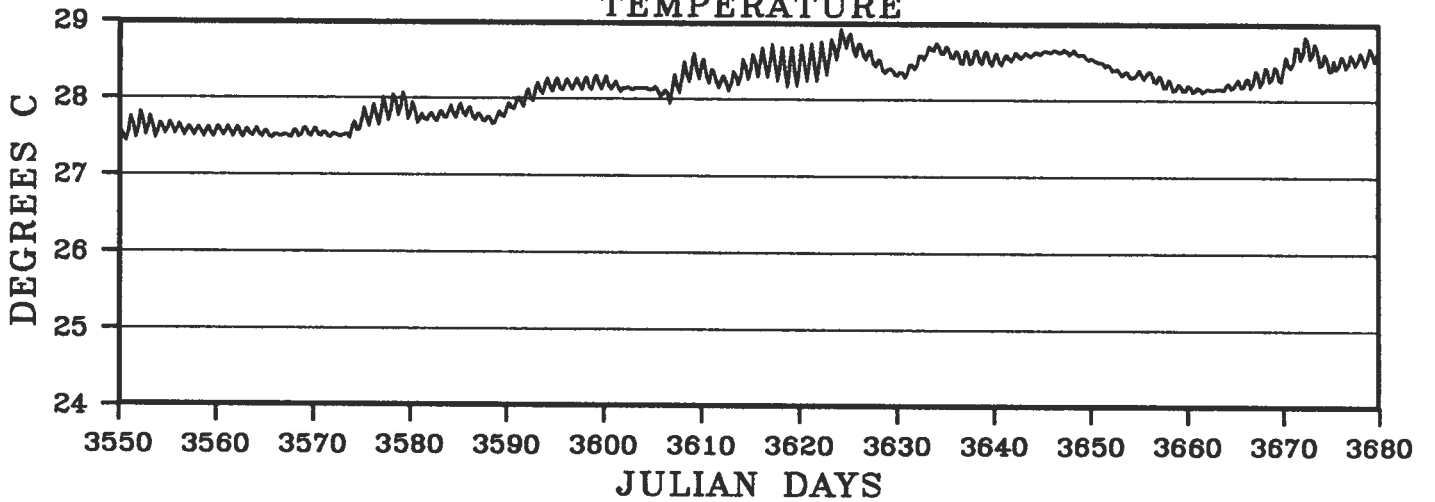
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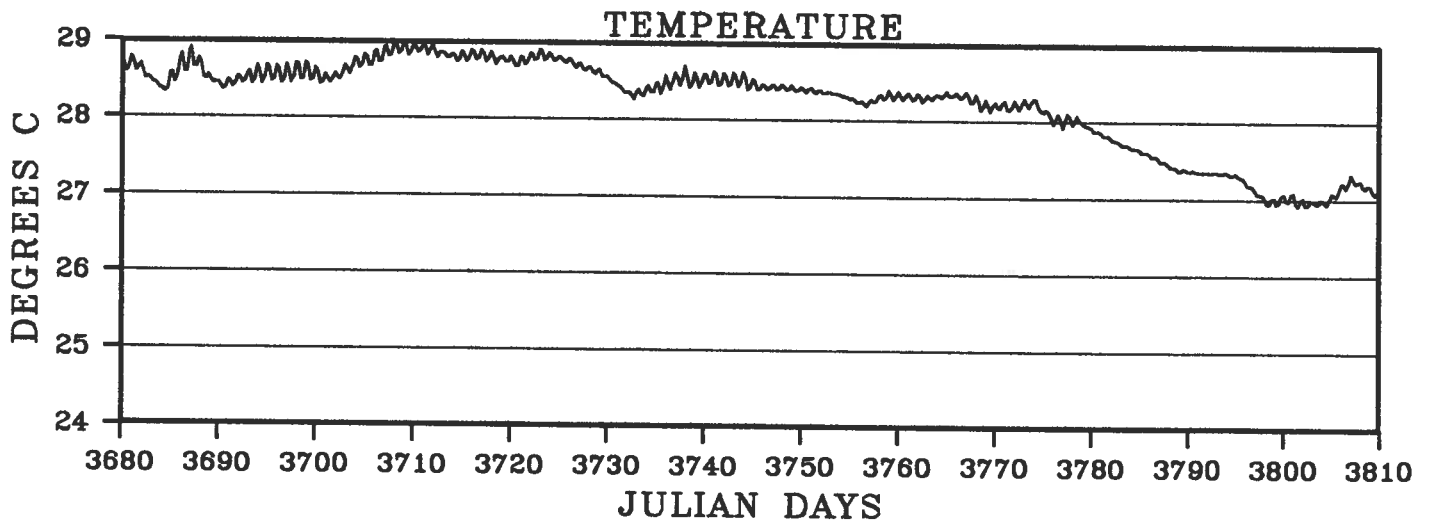
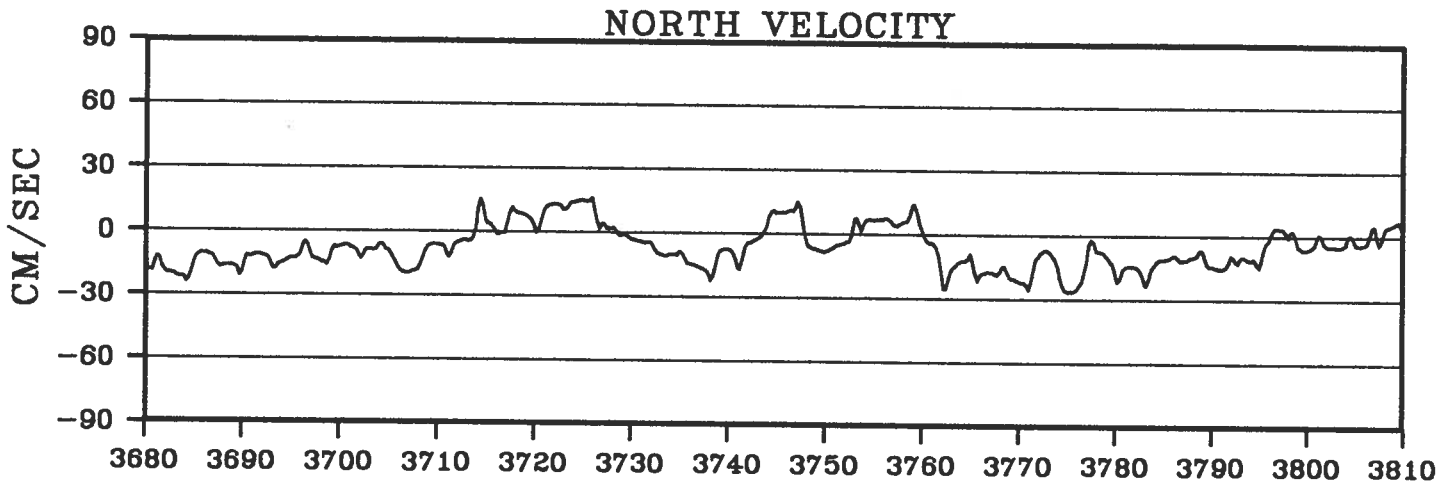
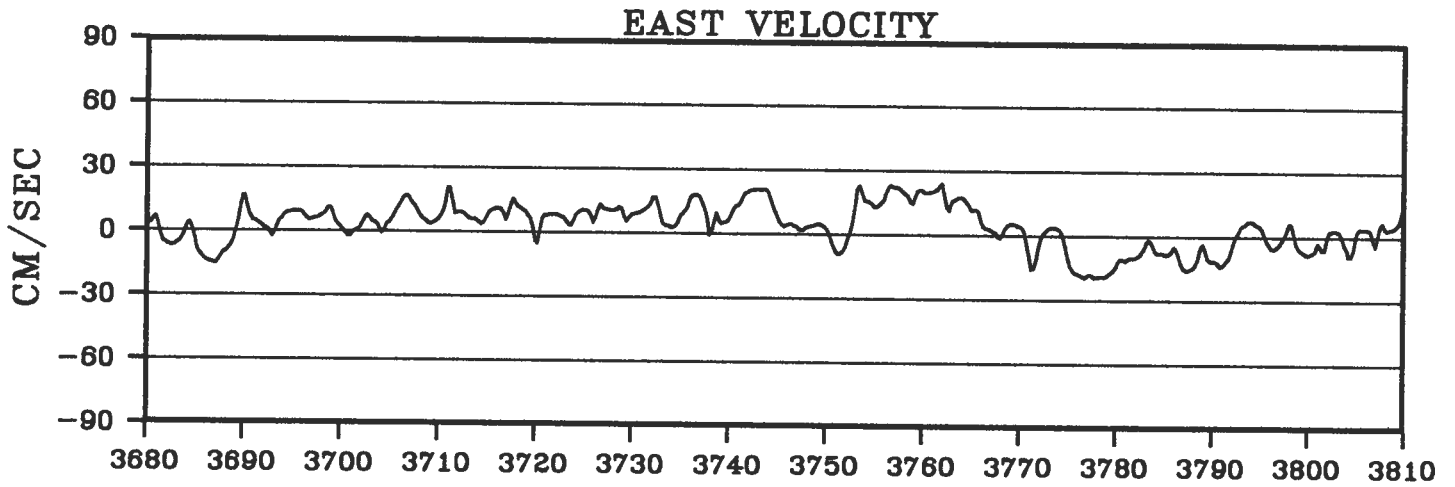
NORTH VELOCITY



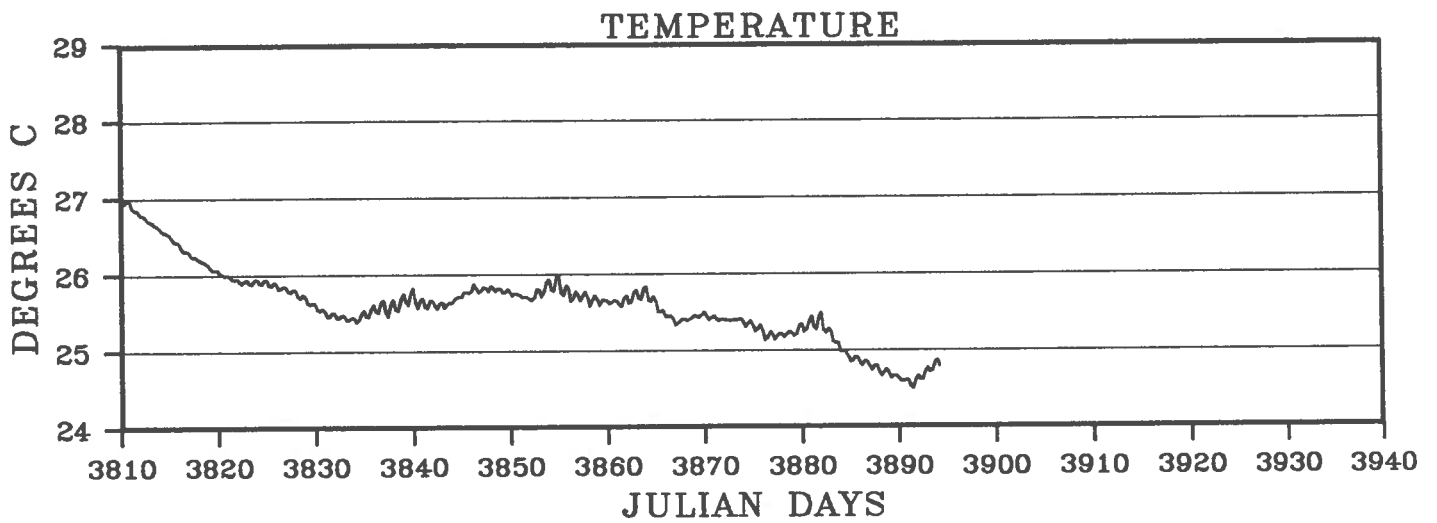
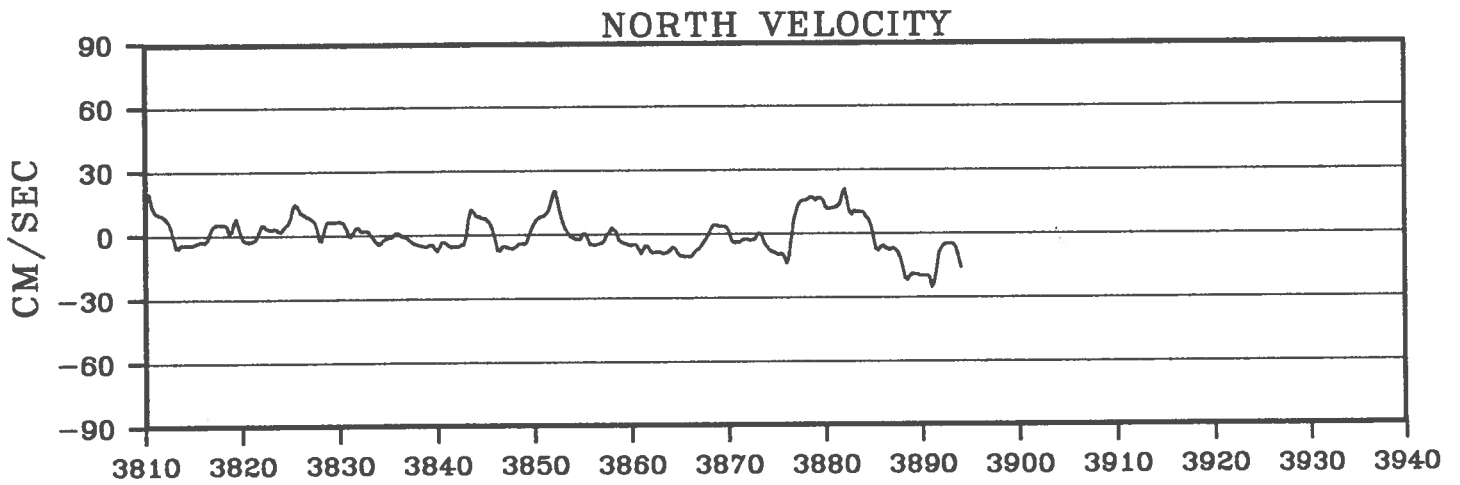
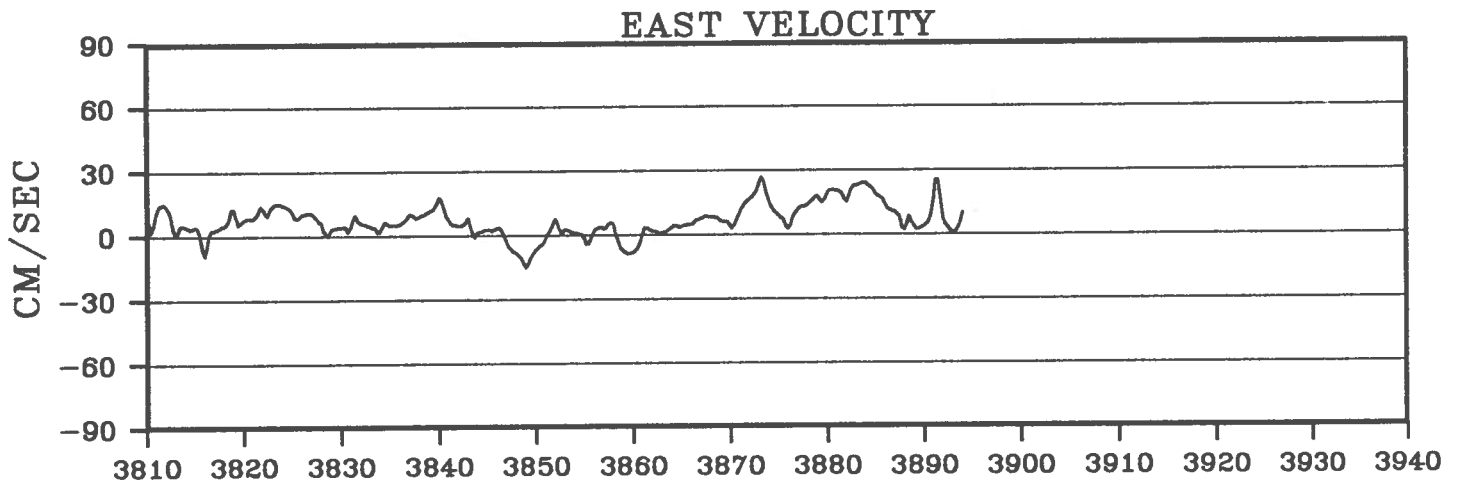
TEMPERATURE



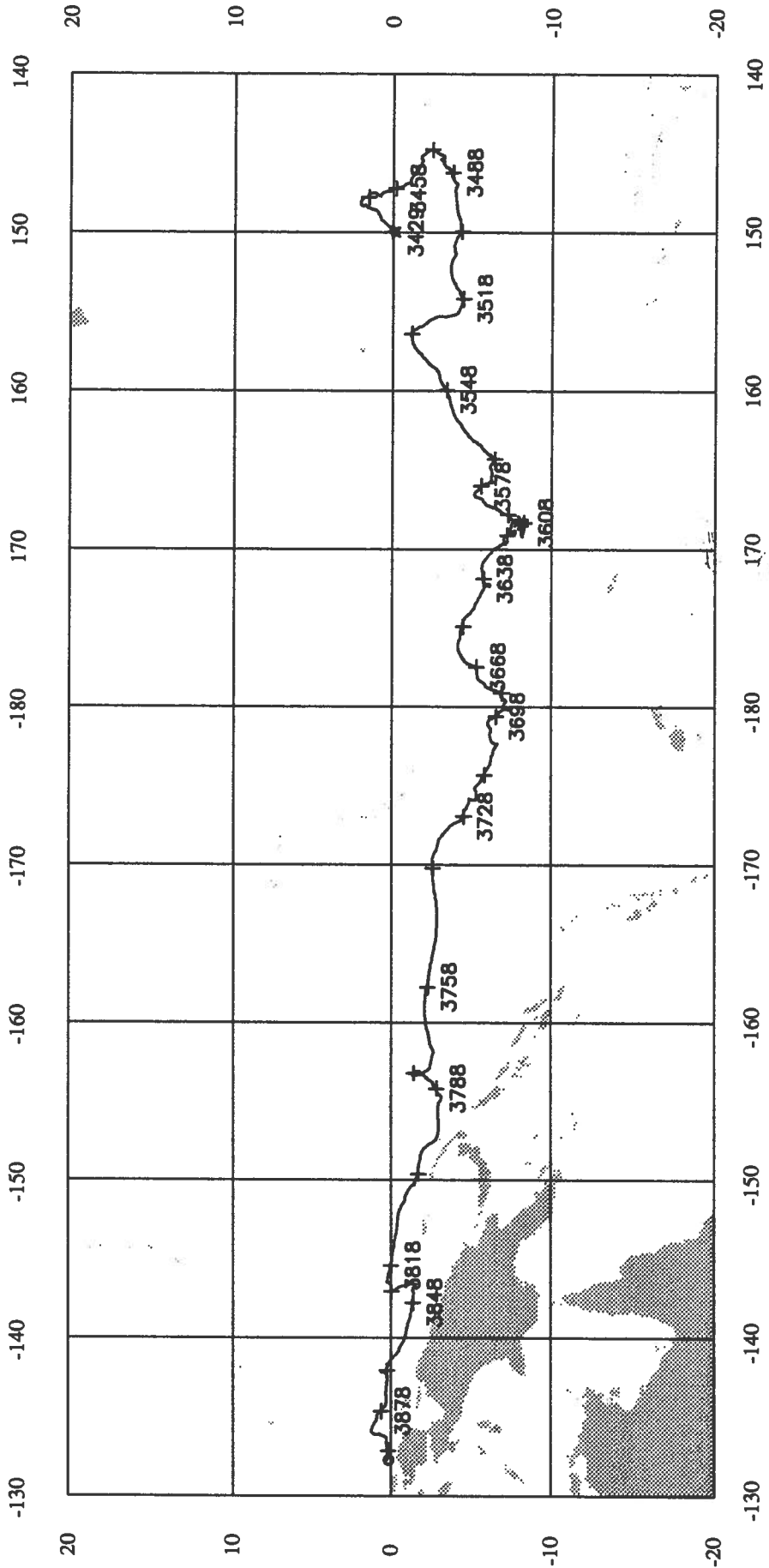
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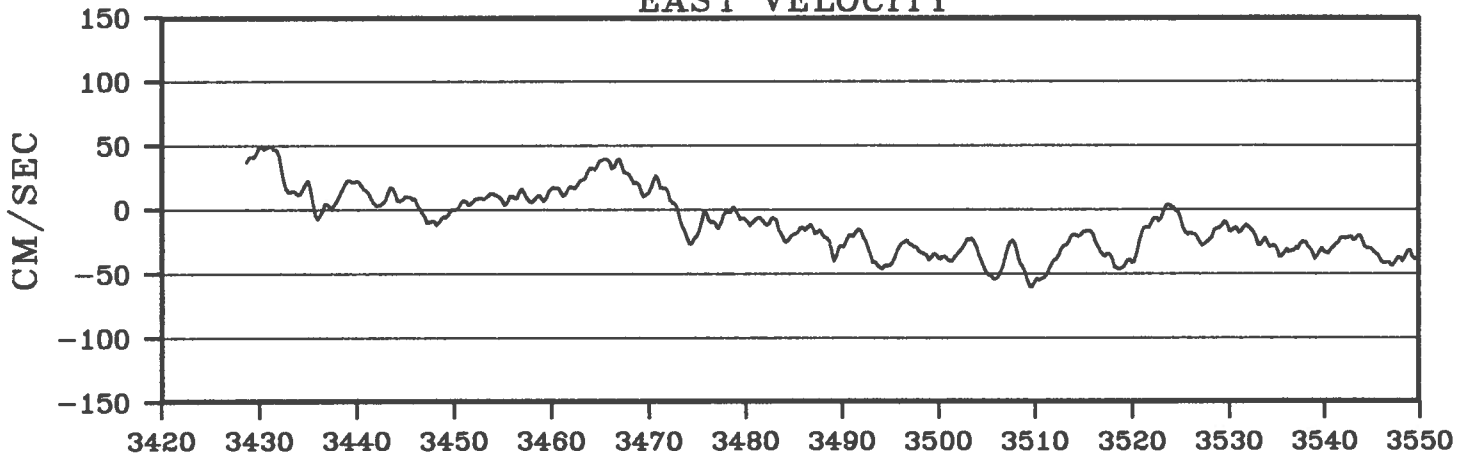


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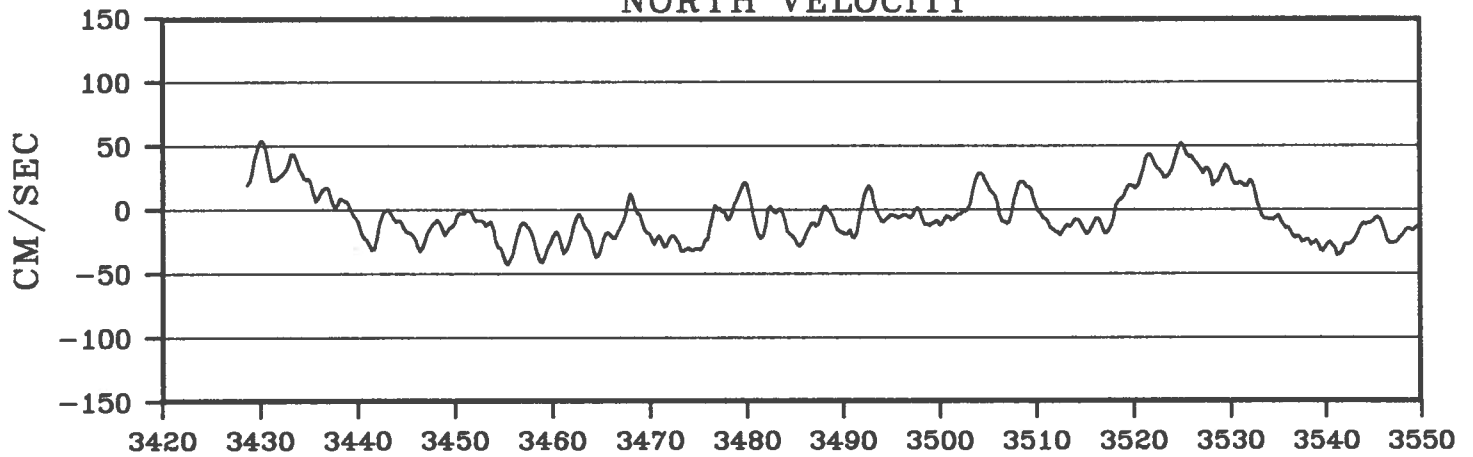


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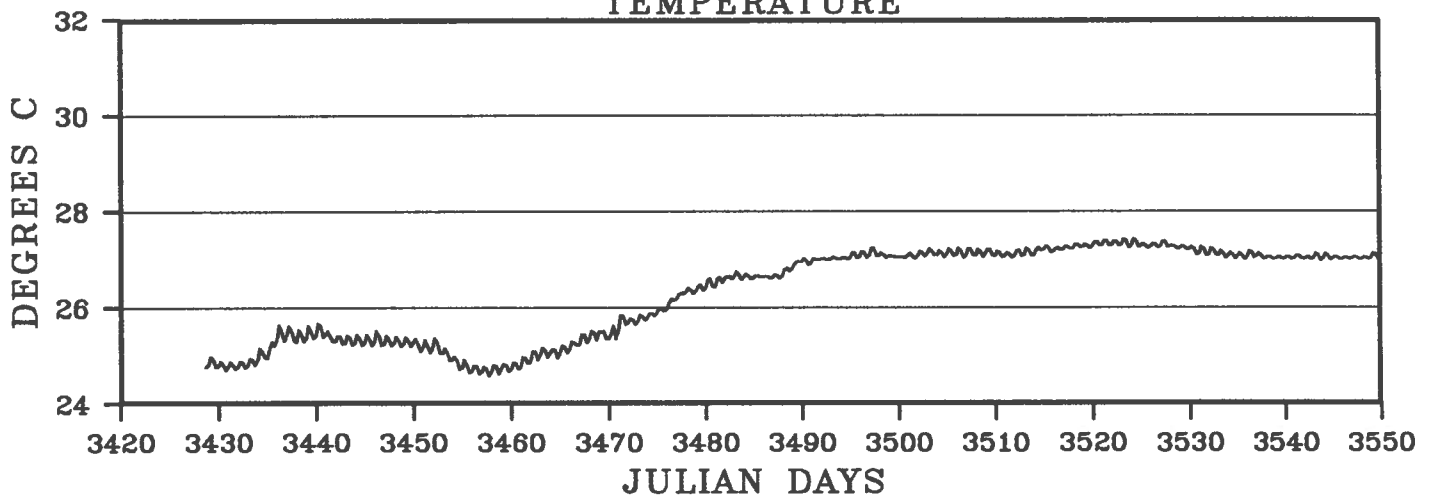
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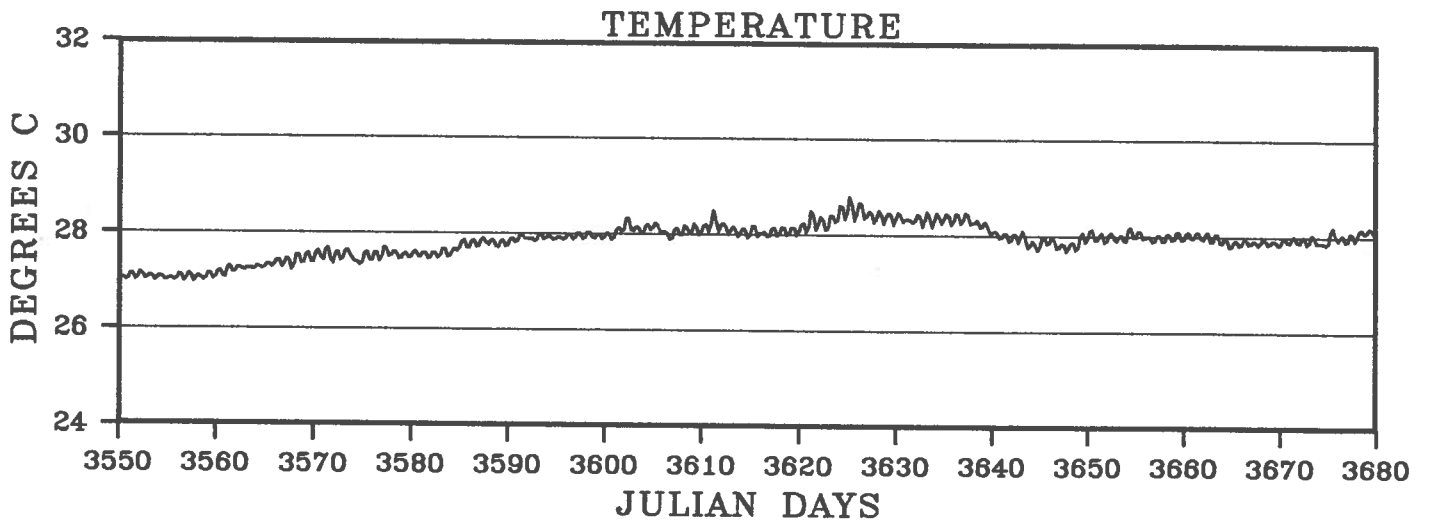
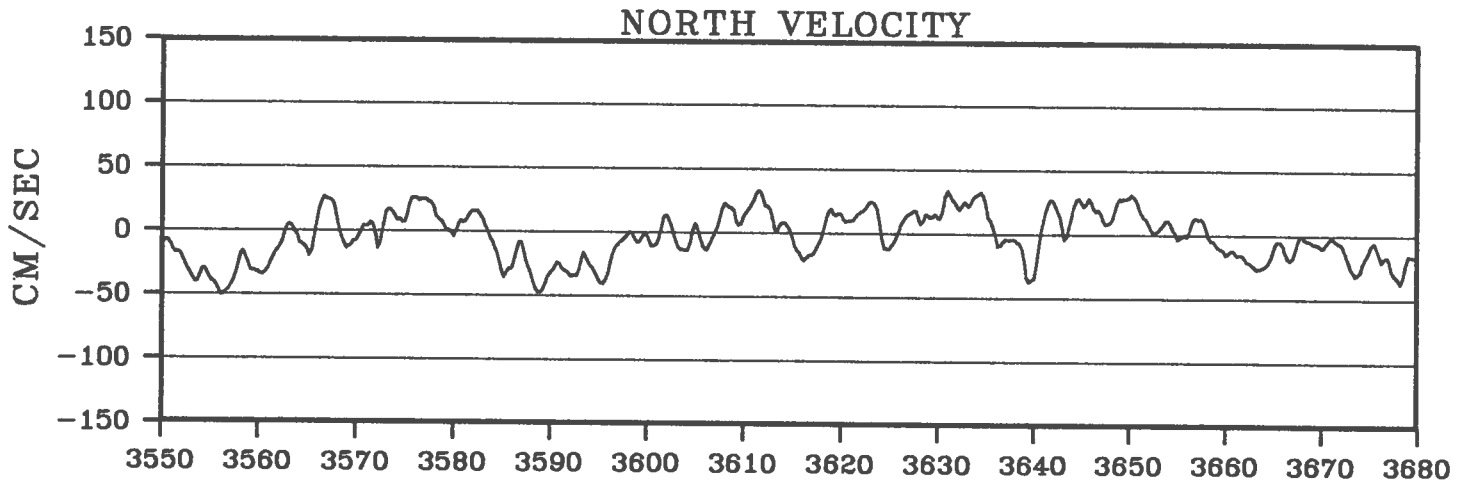
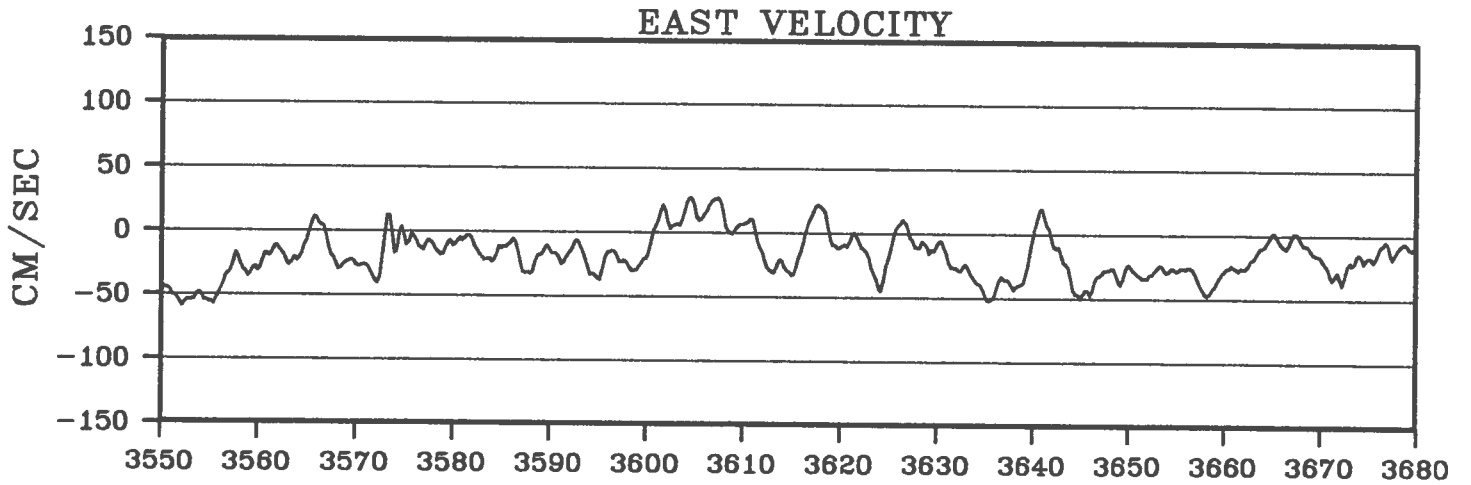
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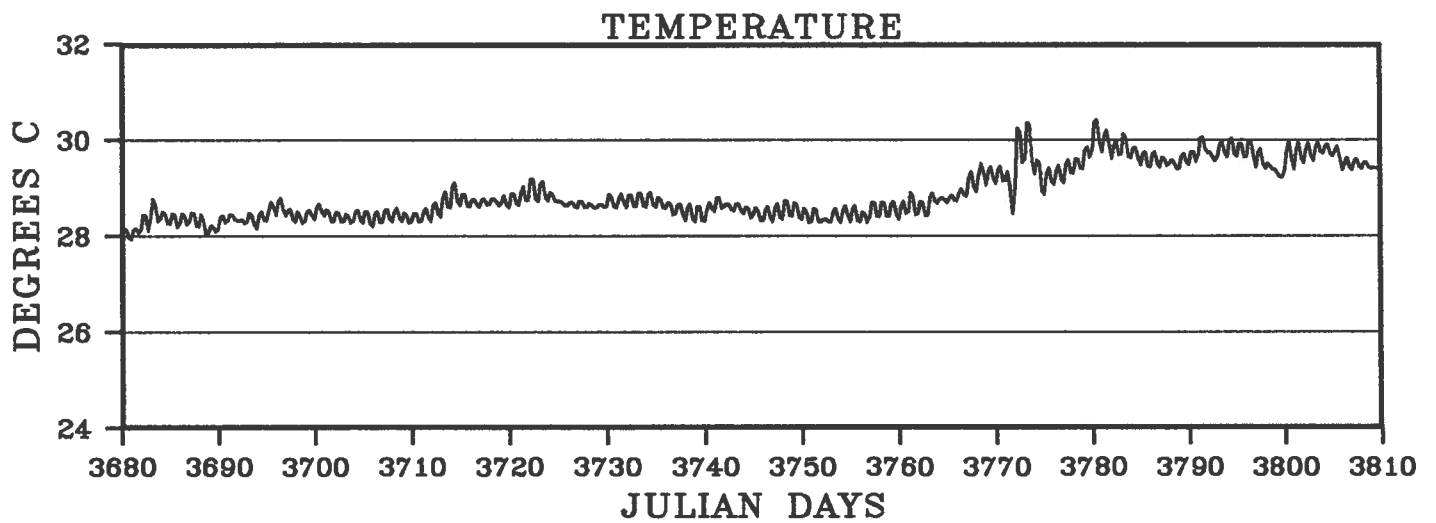
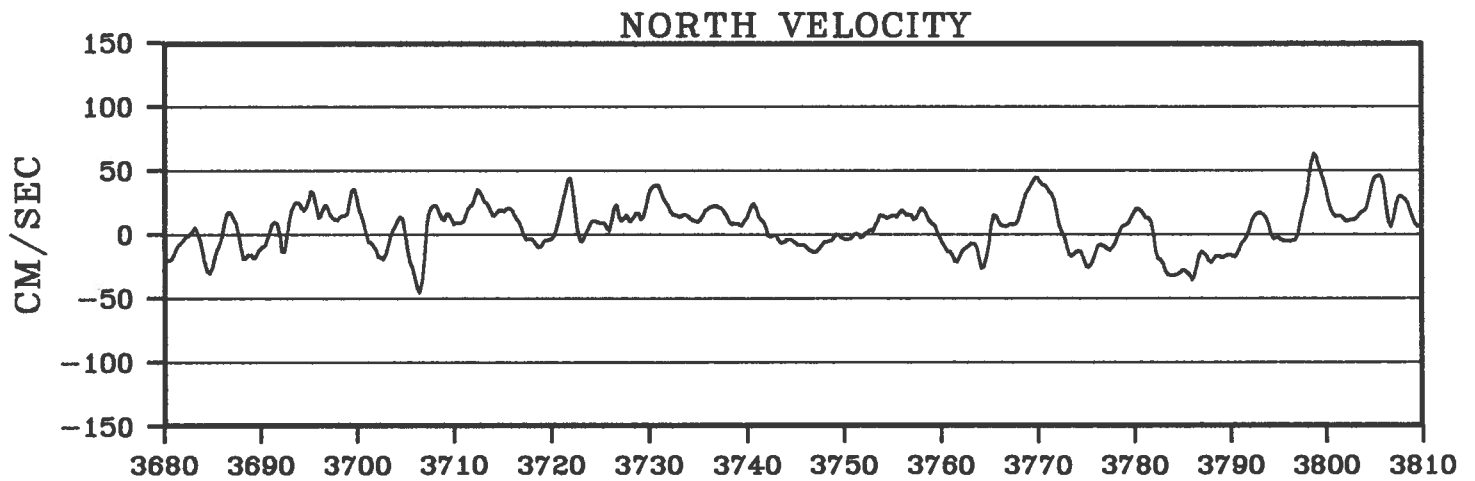
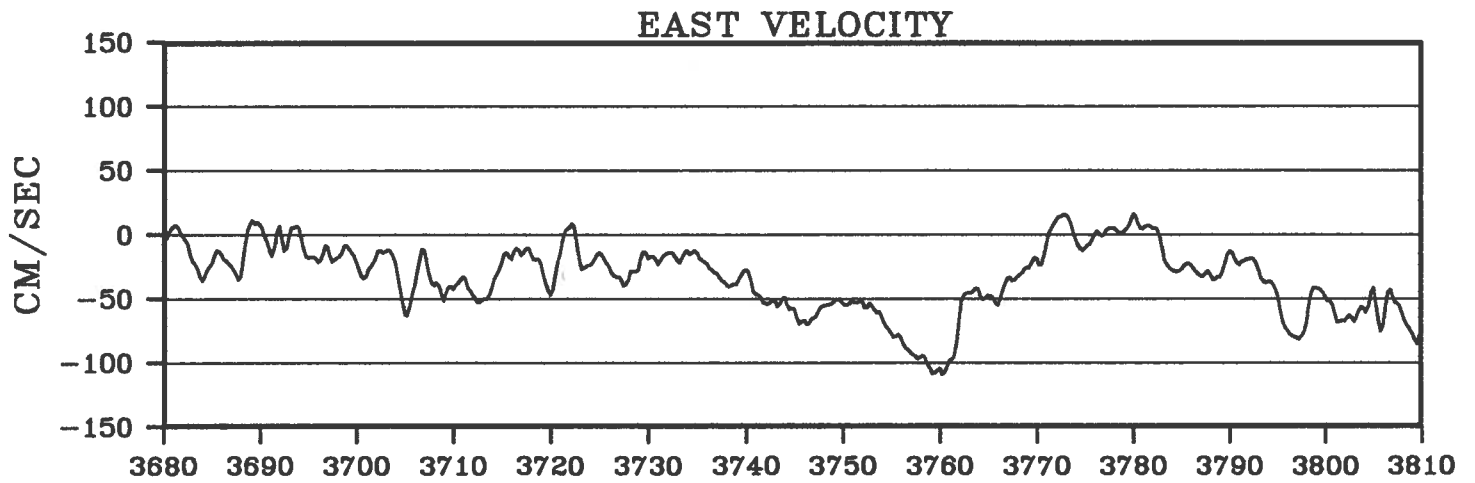
TEMPERATURE



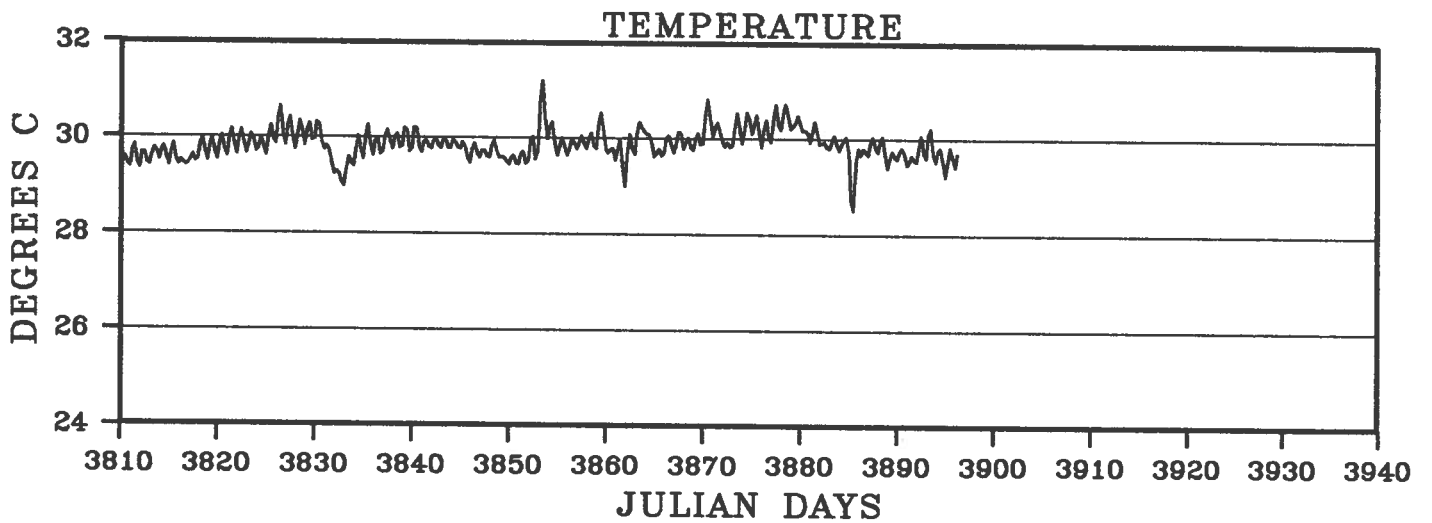
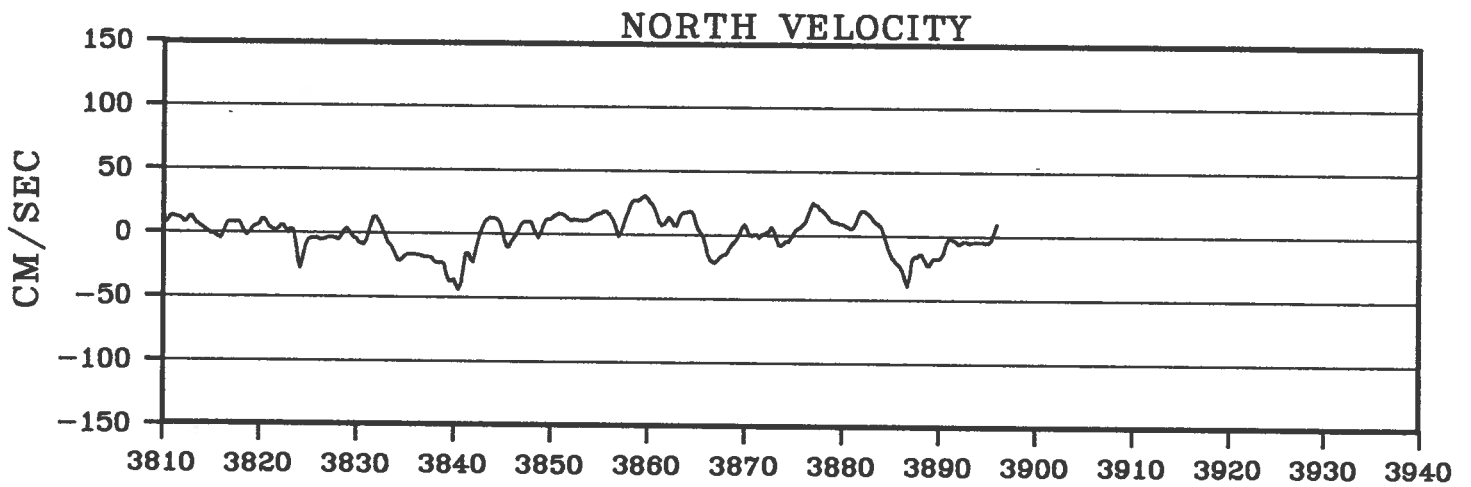
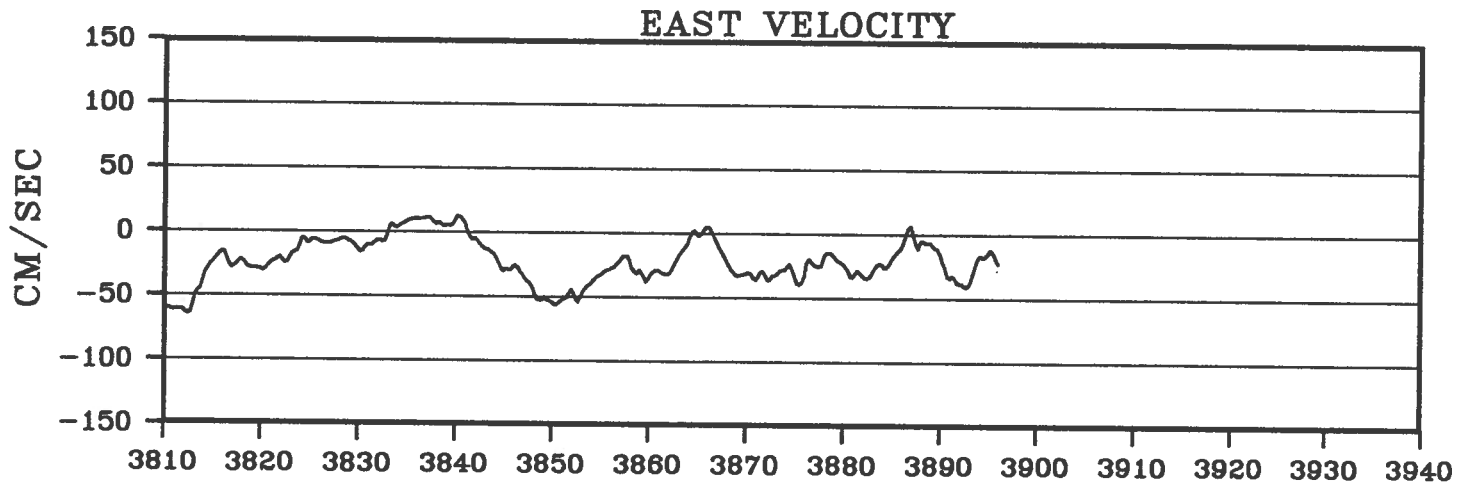
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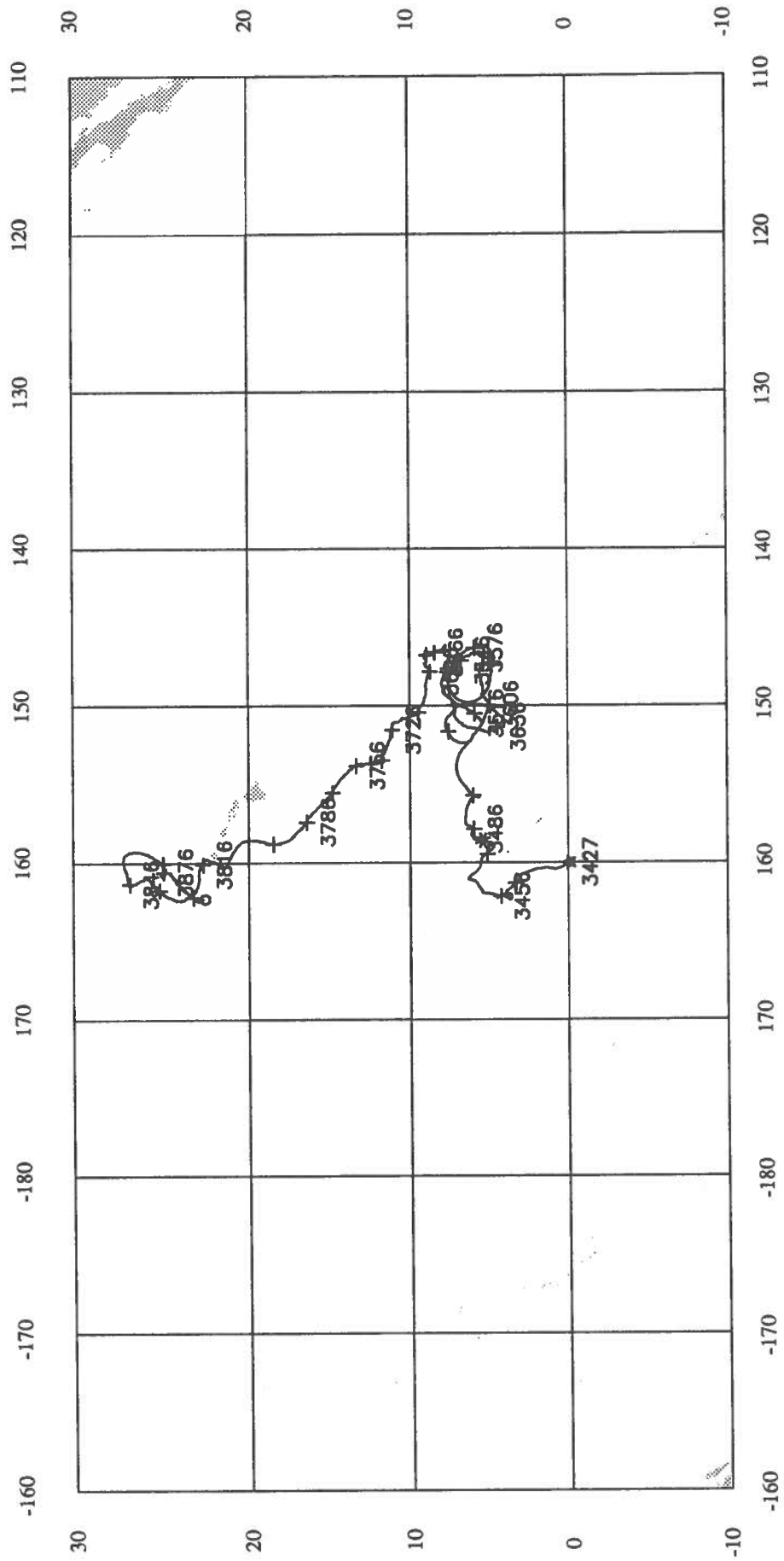
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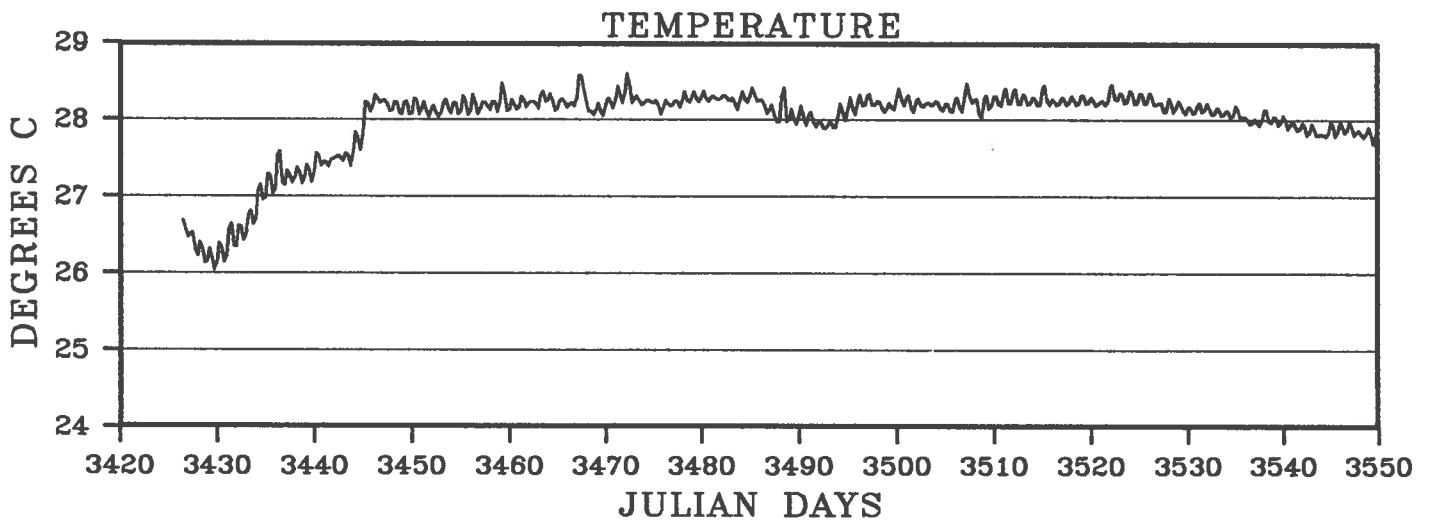
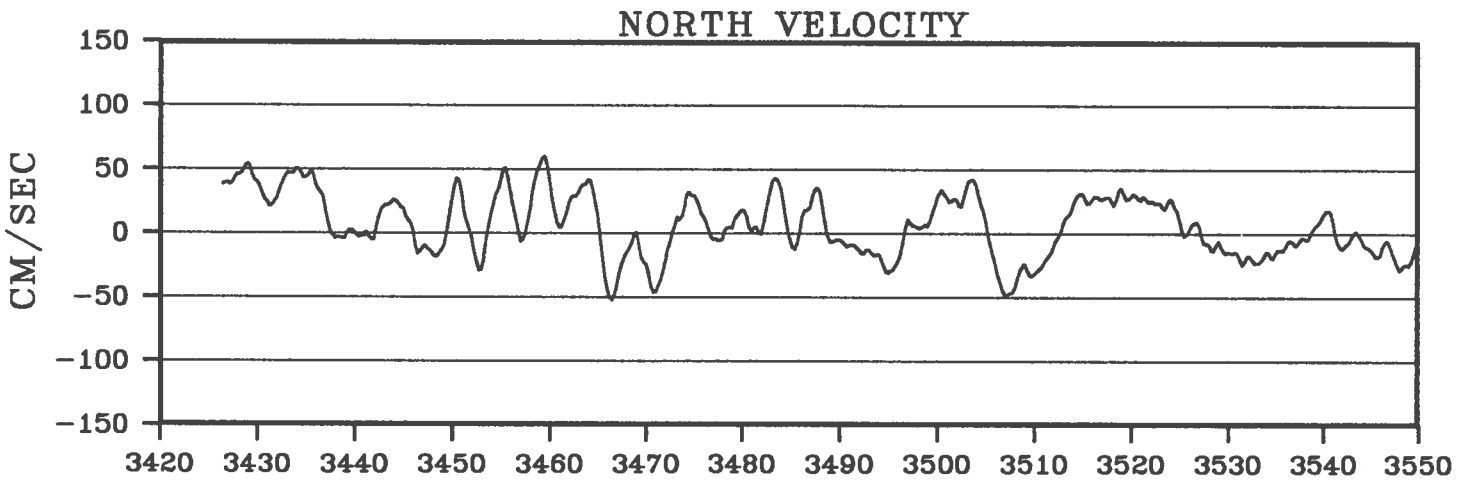
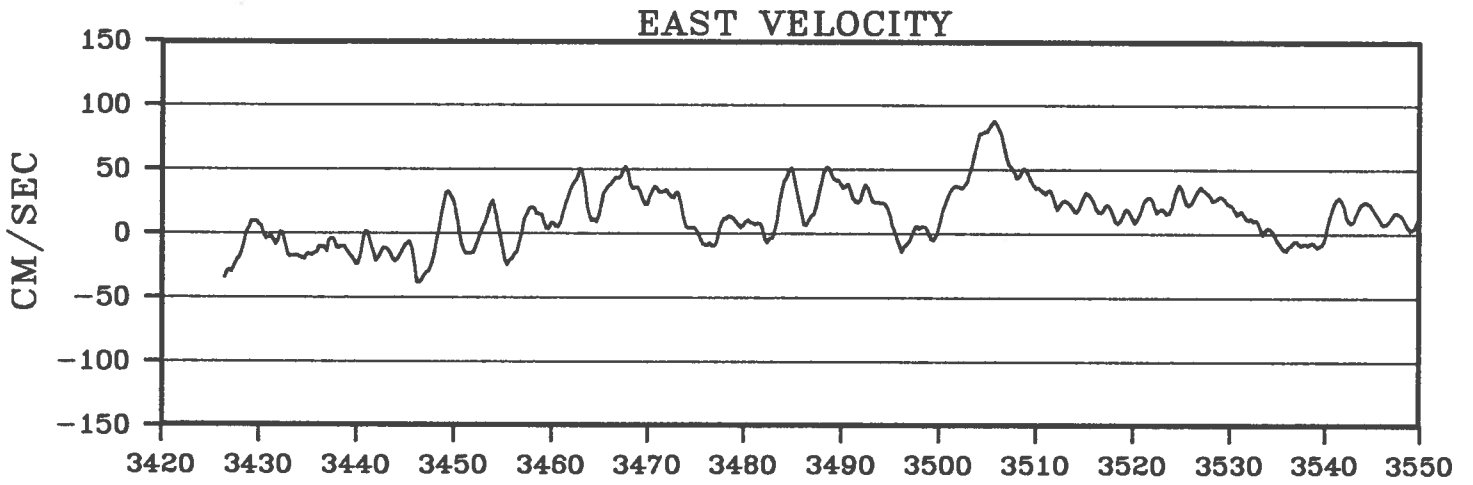
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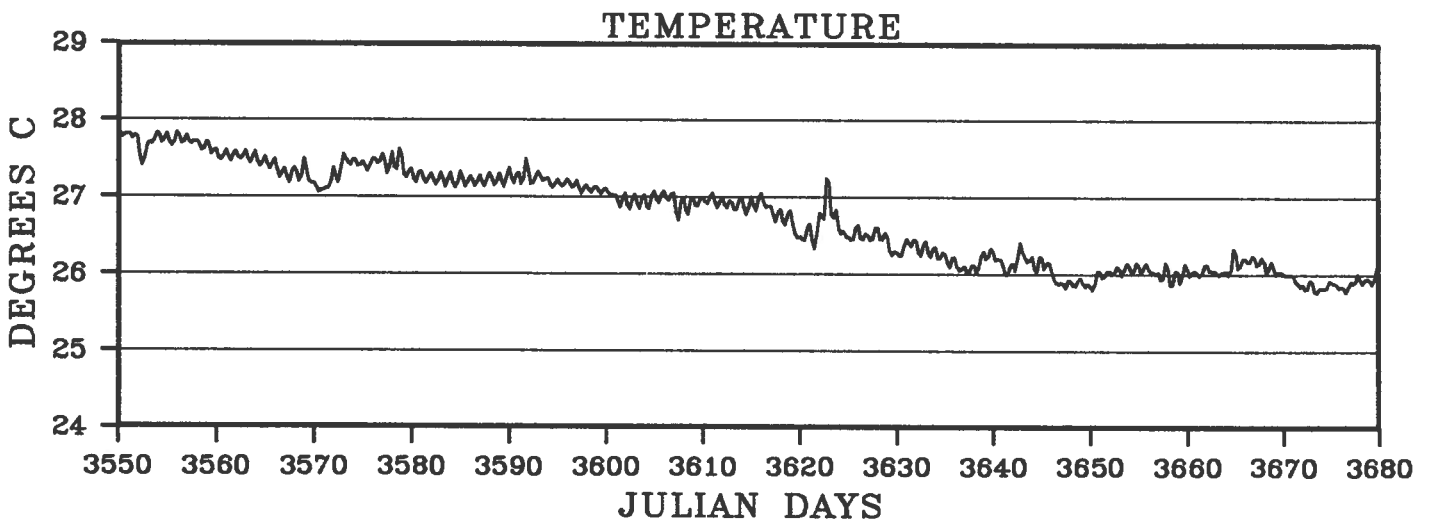
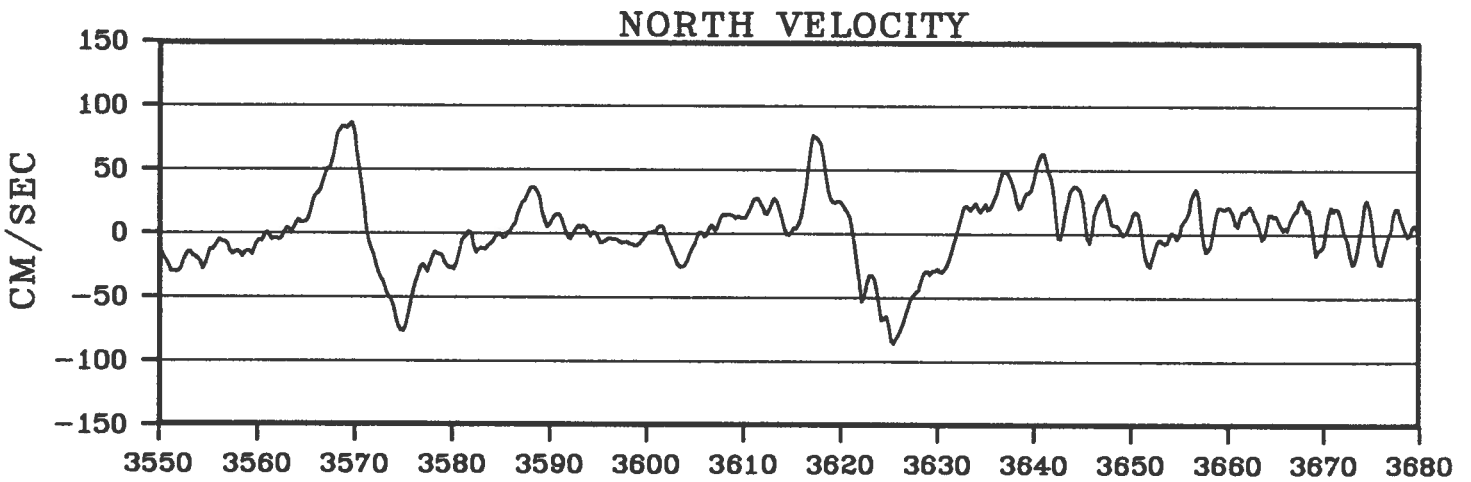
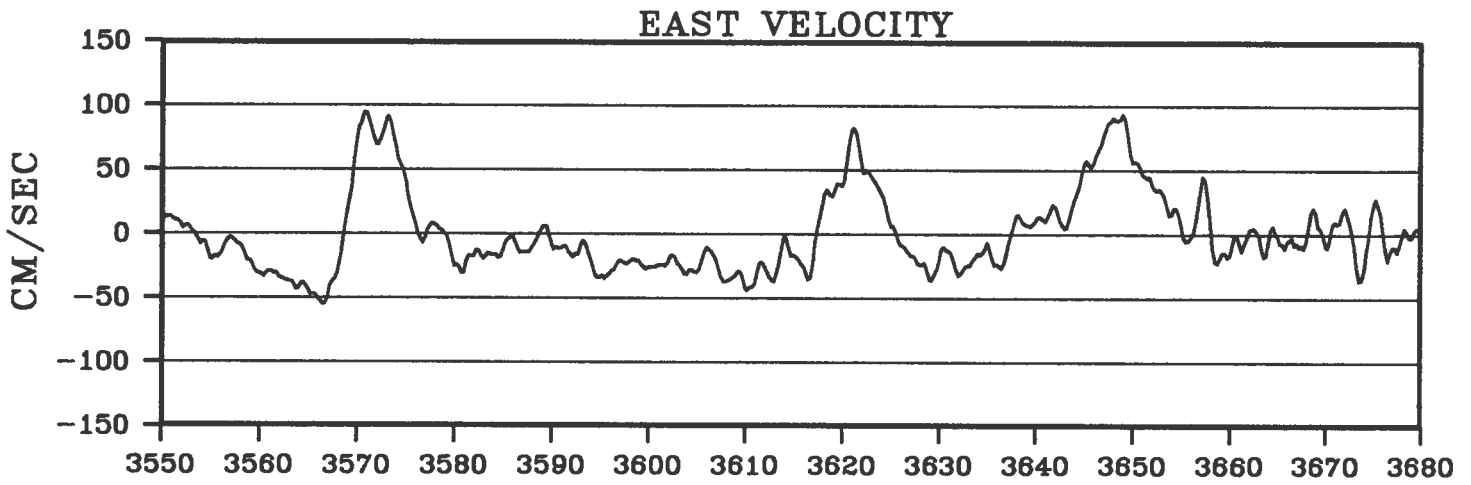
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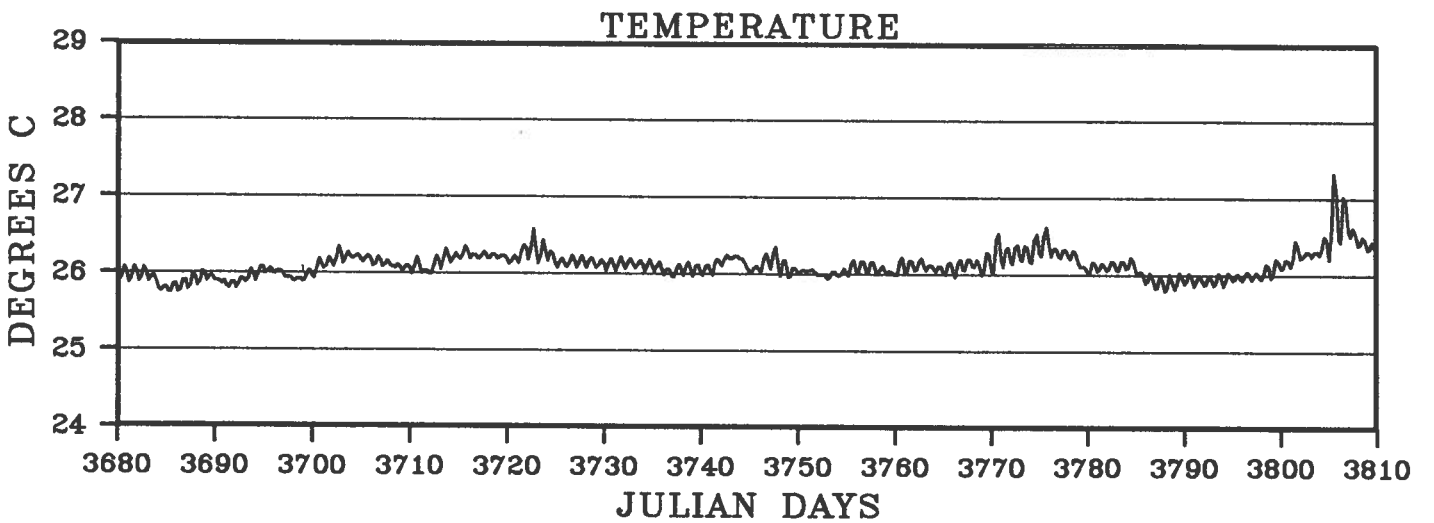
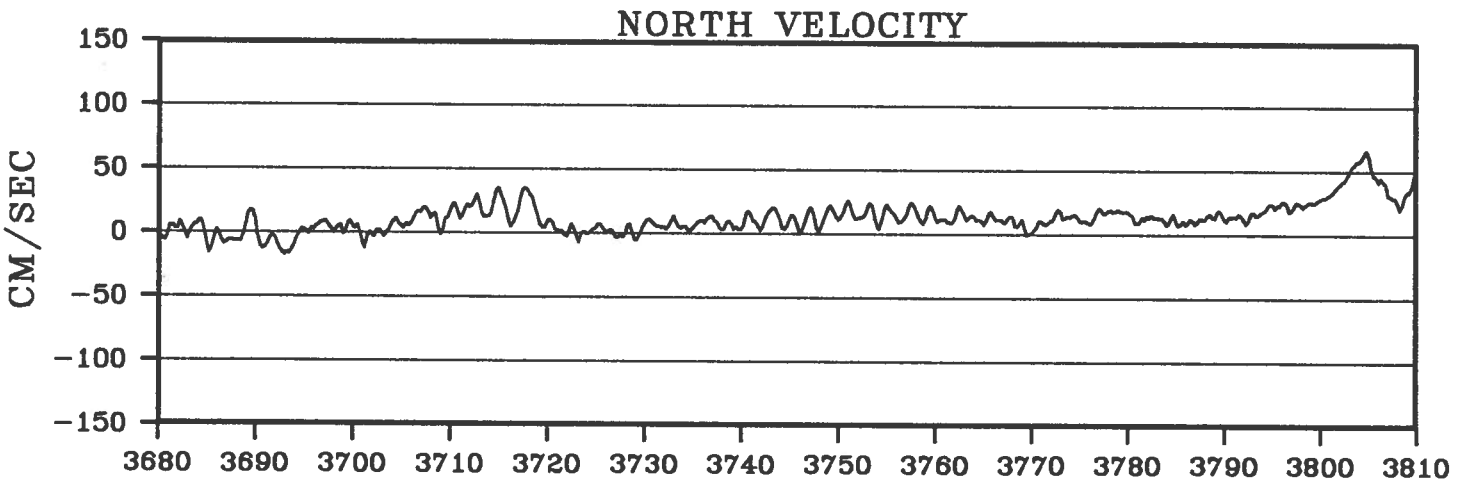
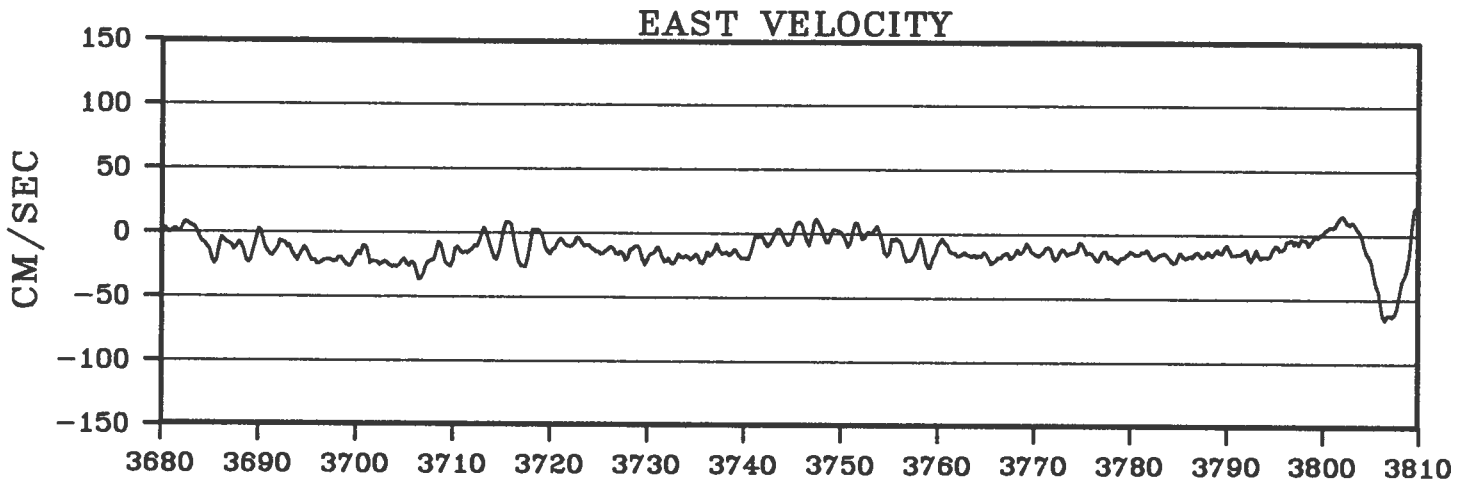
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BUOY 6885

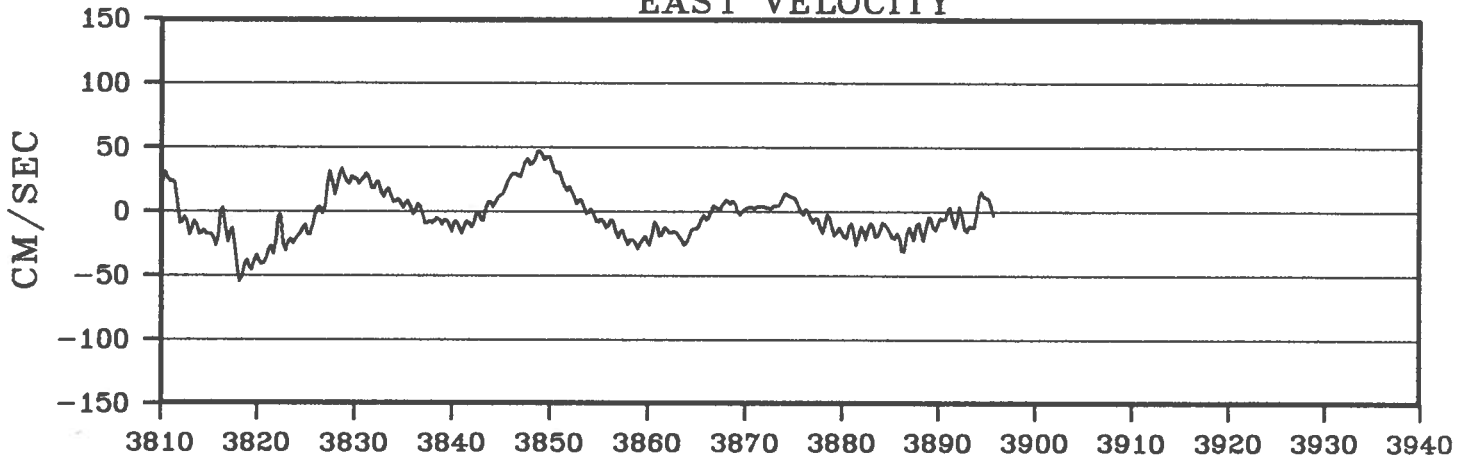


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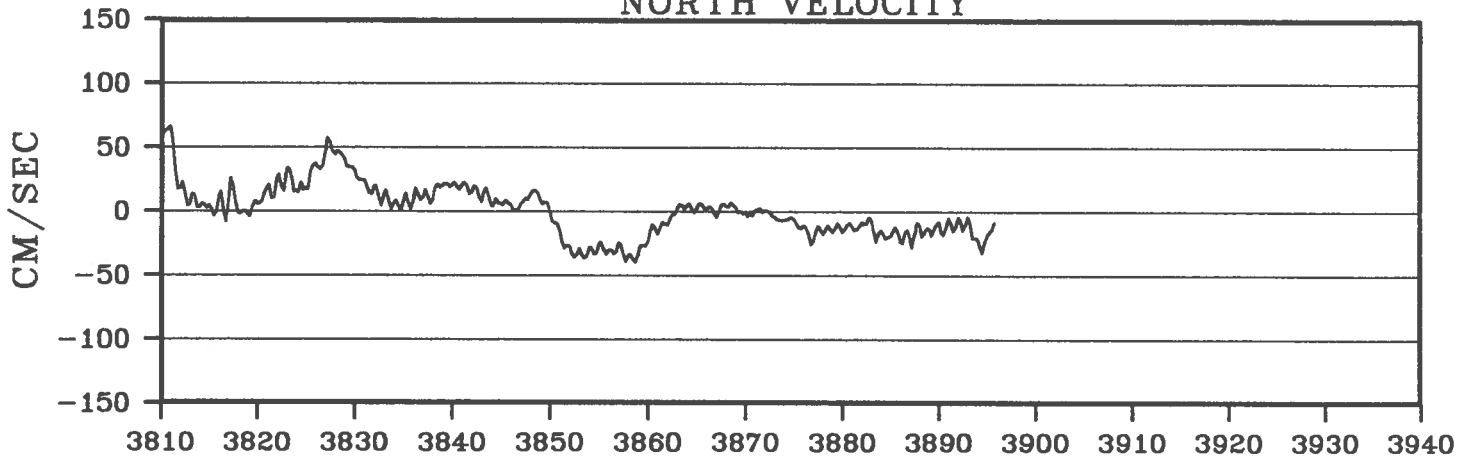


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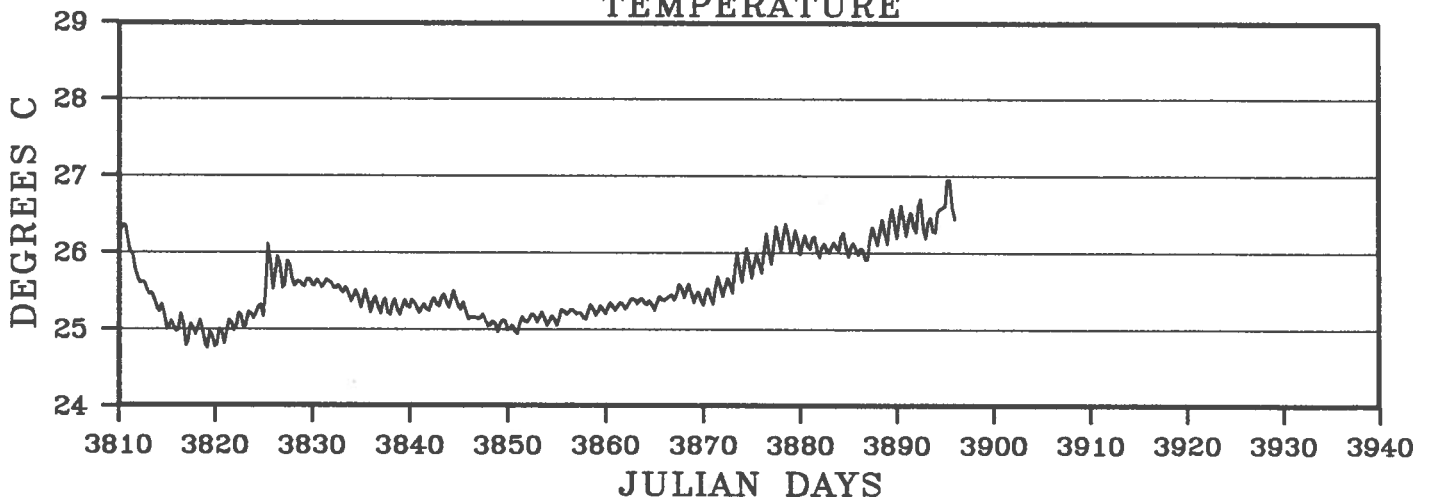
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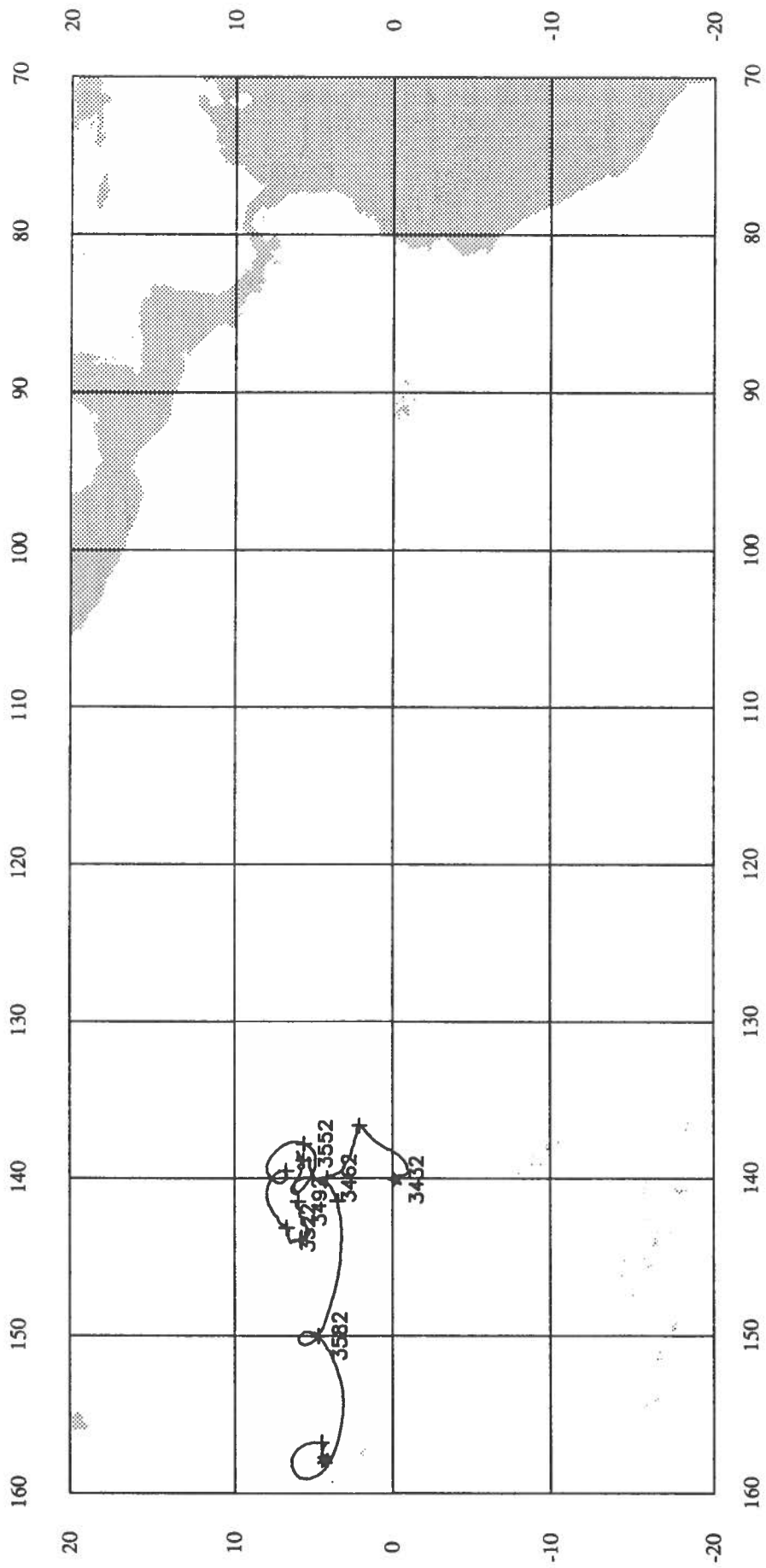
NORTH VELOCITY



TEMPERATURE

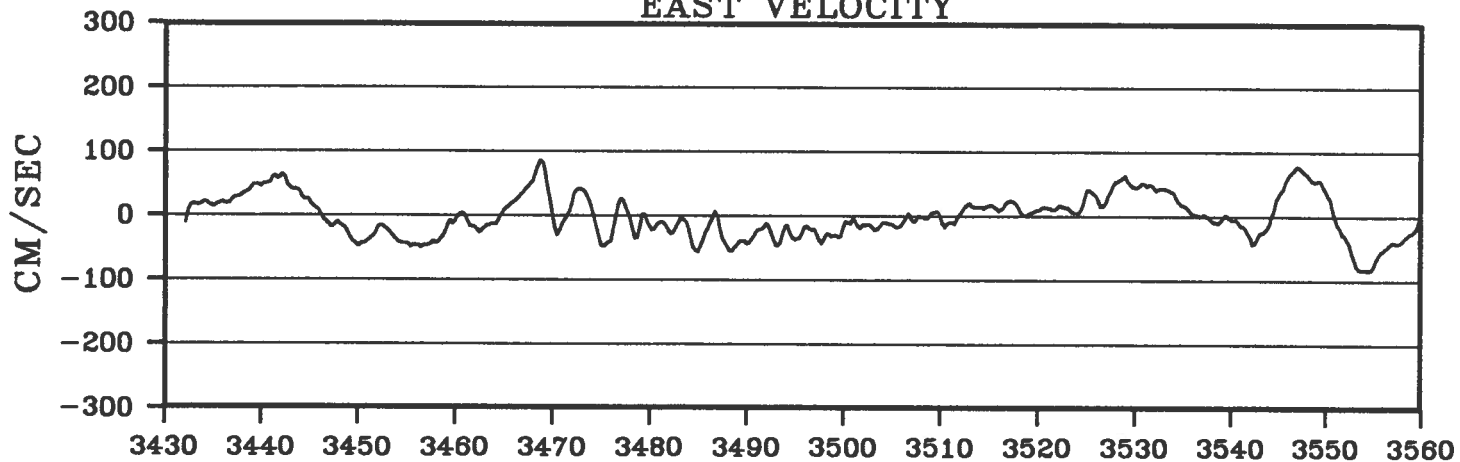


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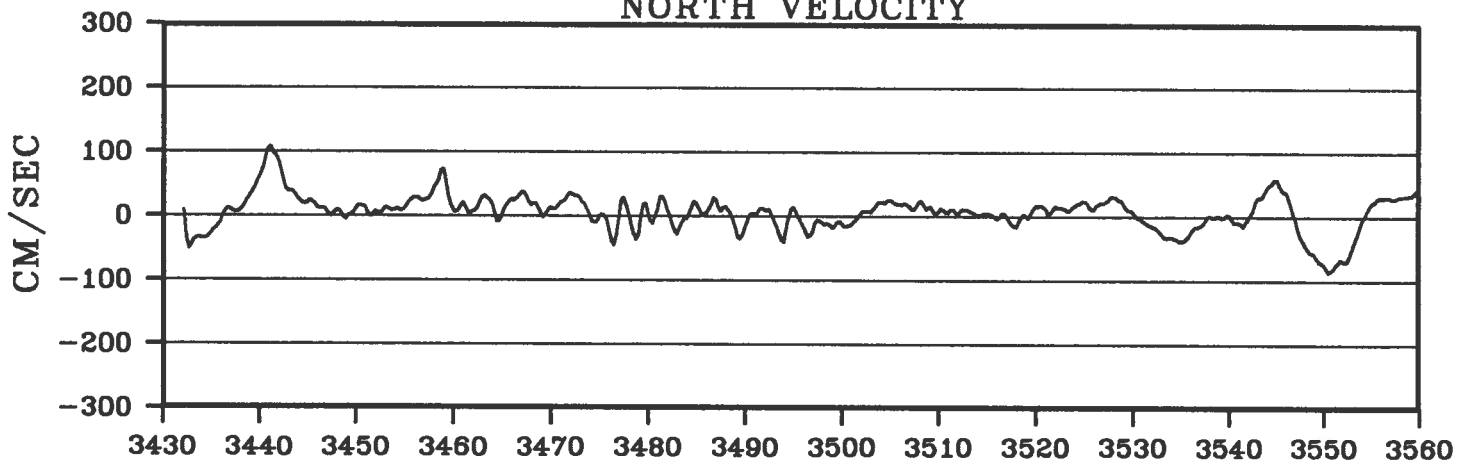


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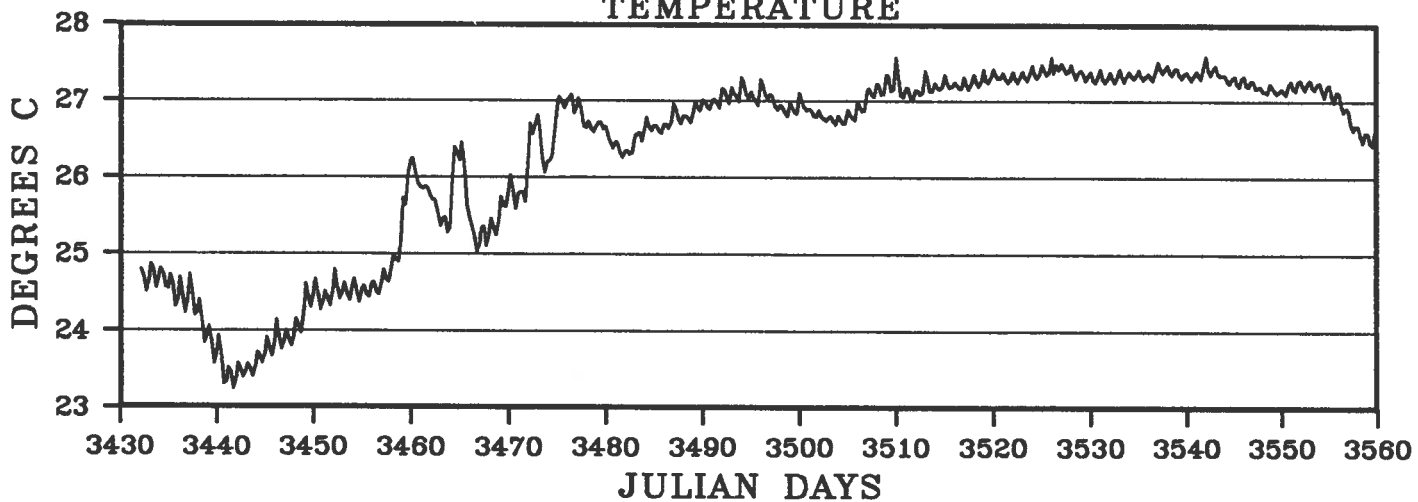
EAST VELOCITY



NORTH VELOCITY

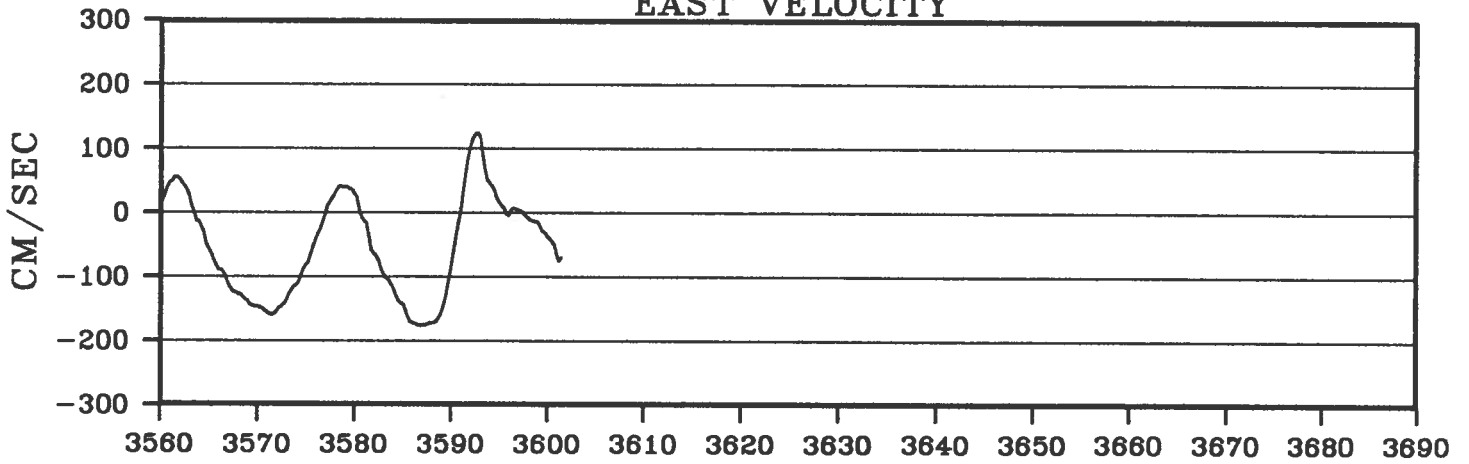


TEMPERATURE

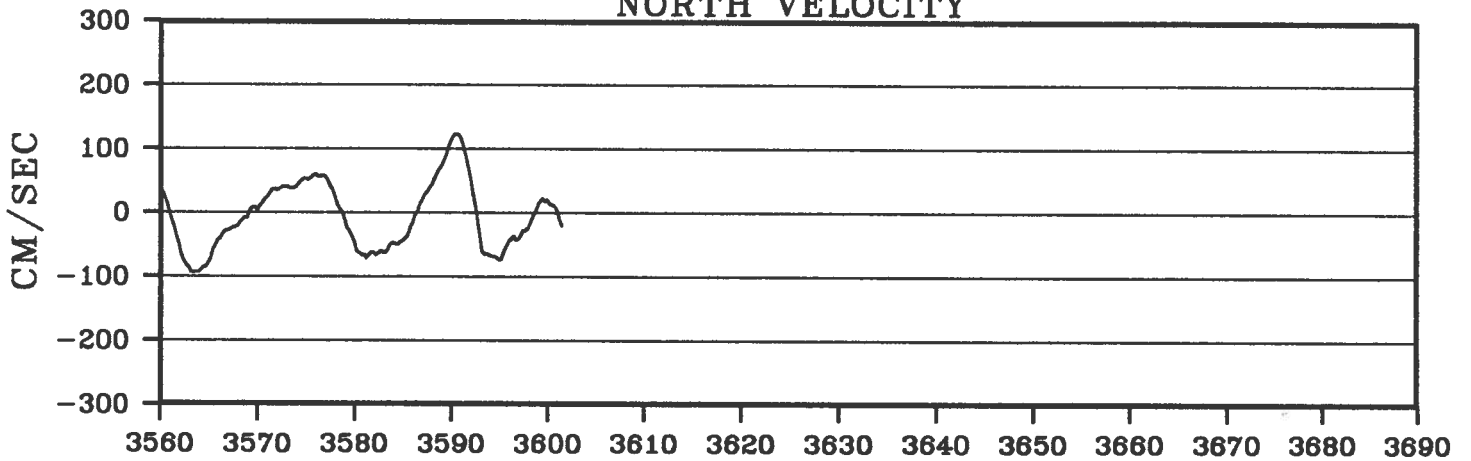


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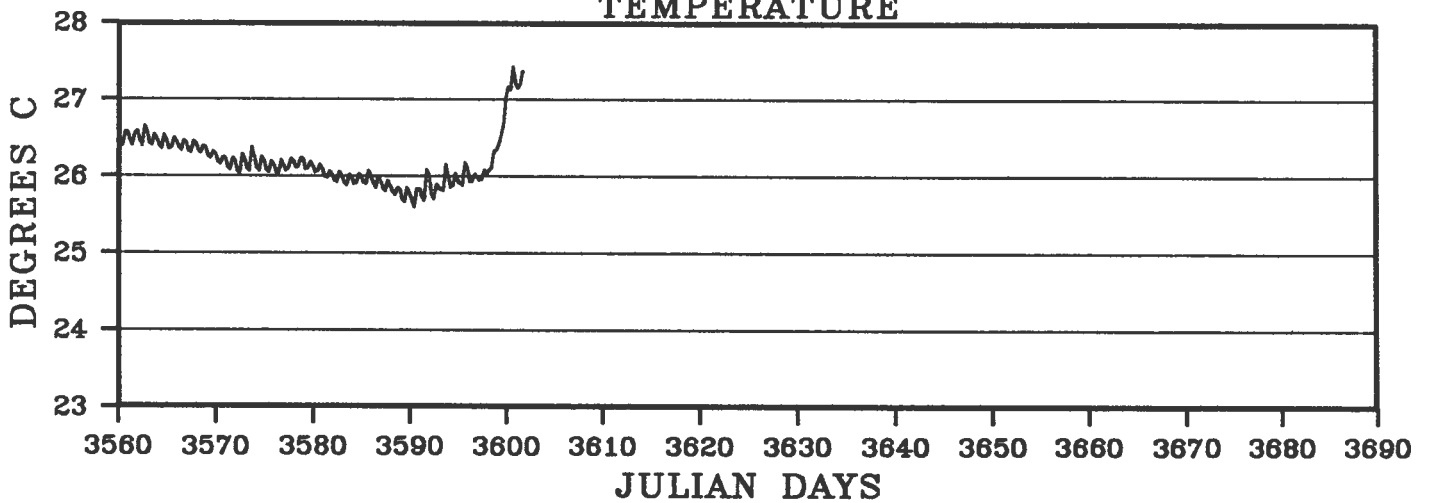
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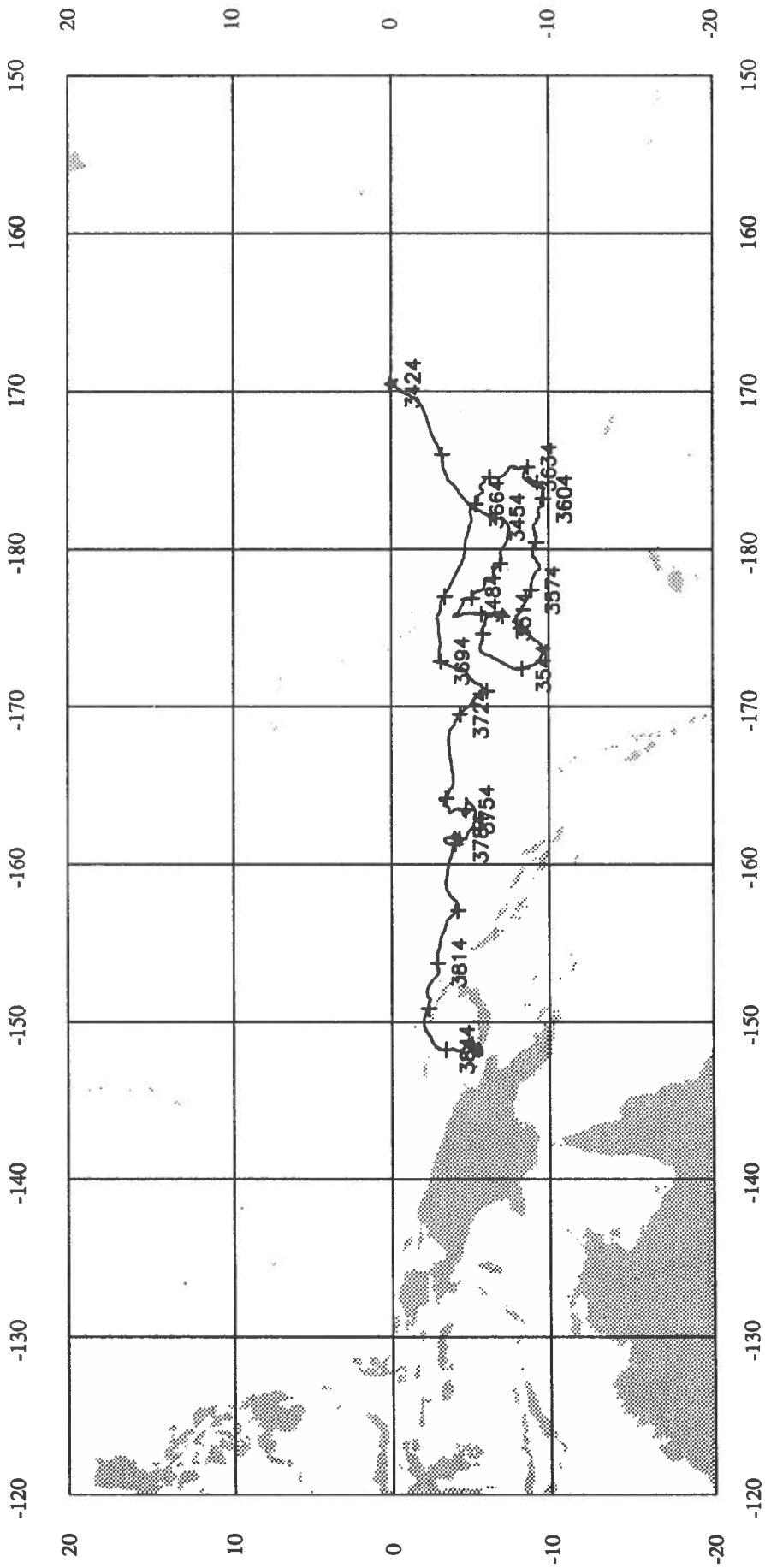
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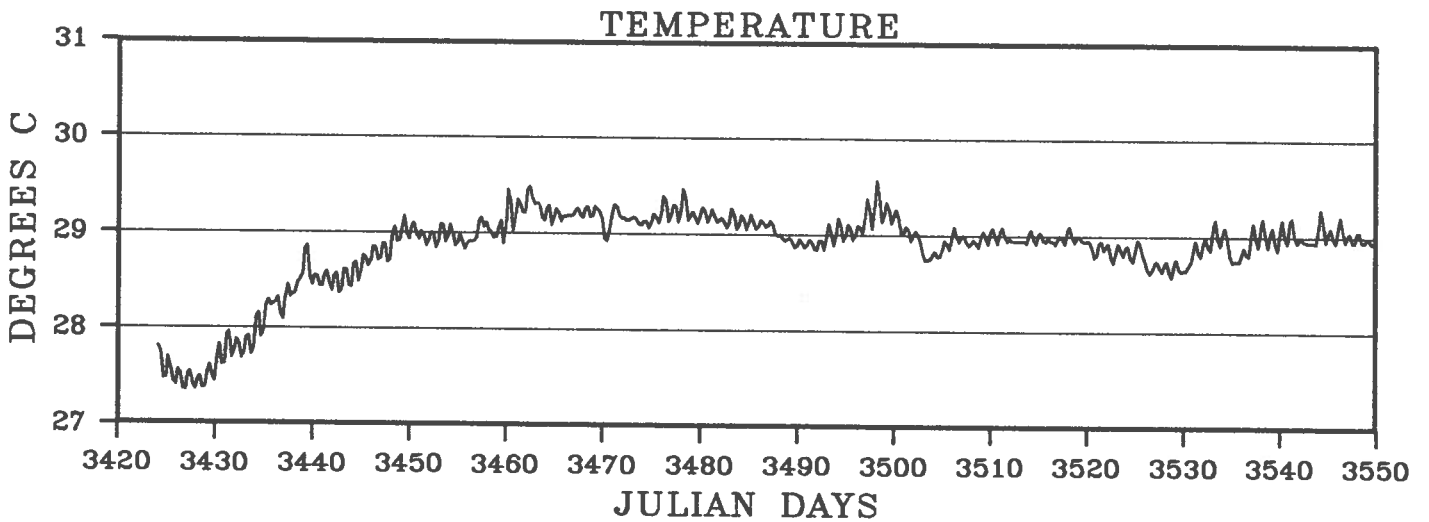
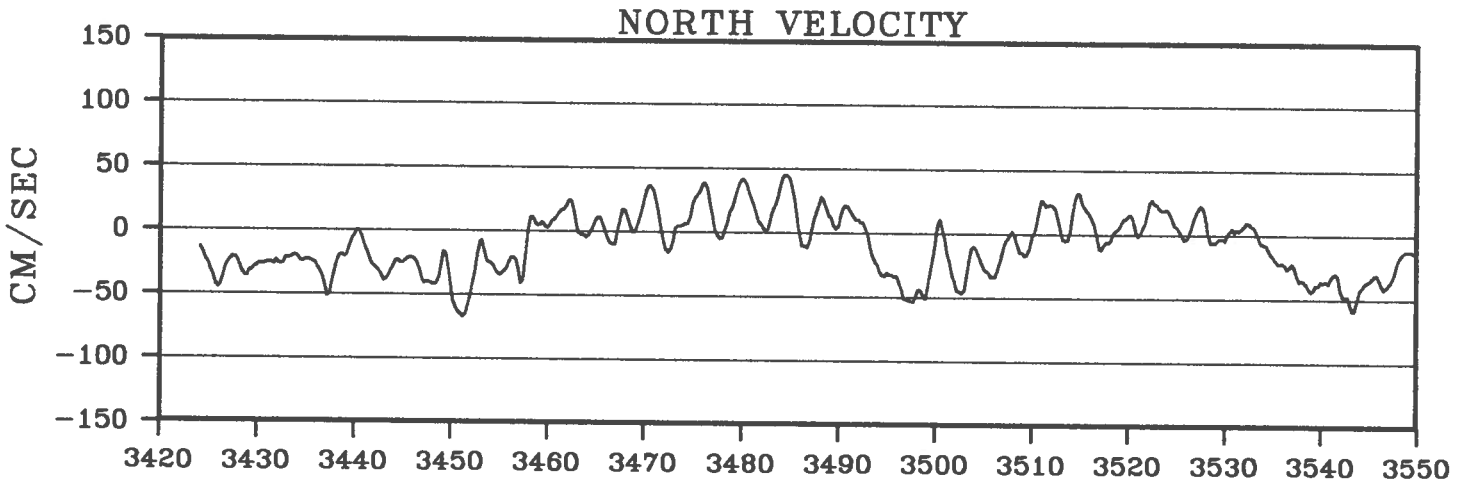
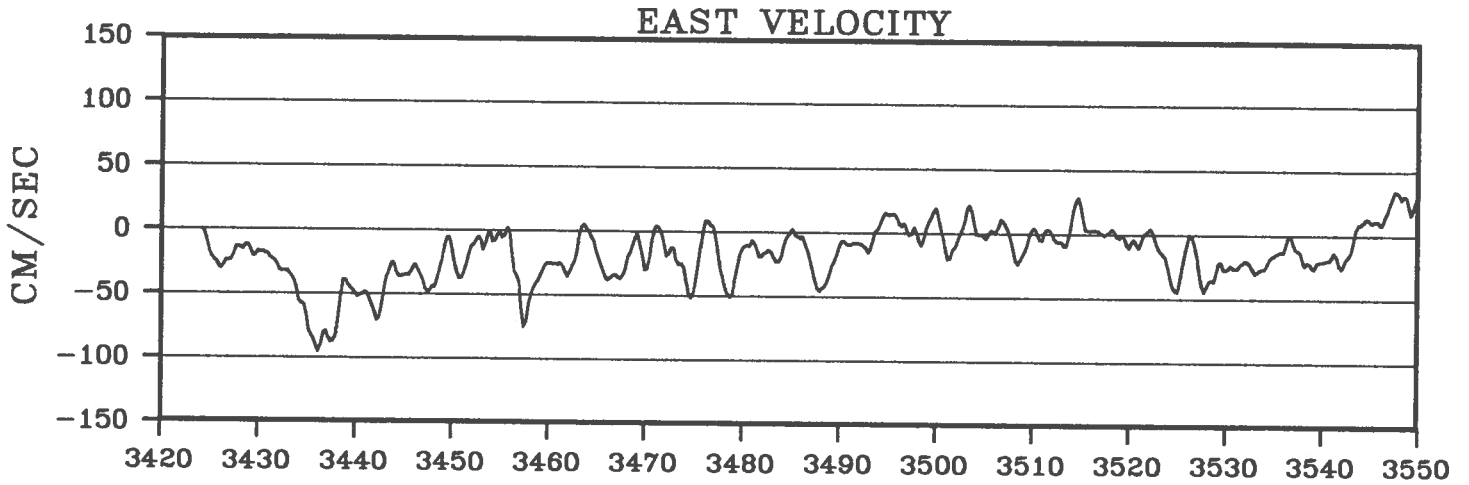
TEMPERATURE



BUOY 6887

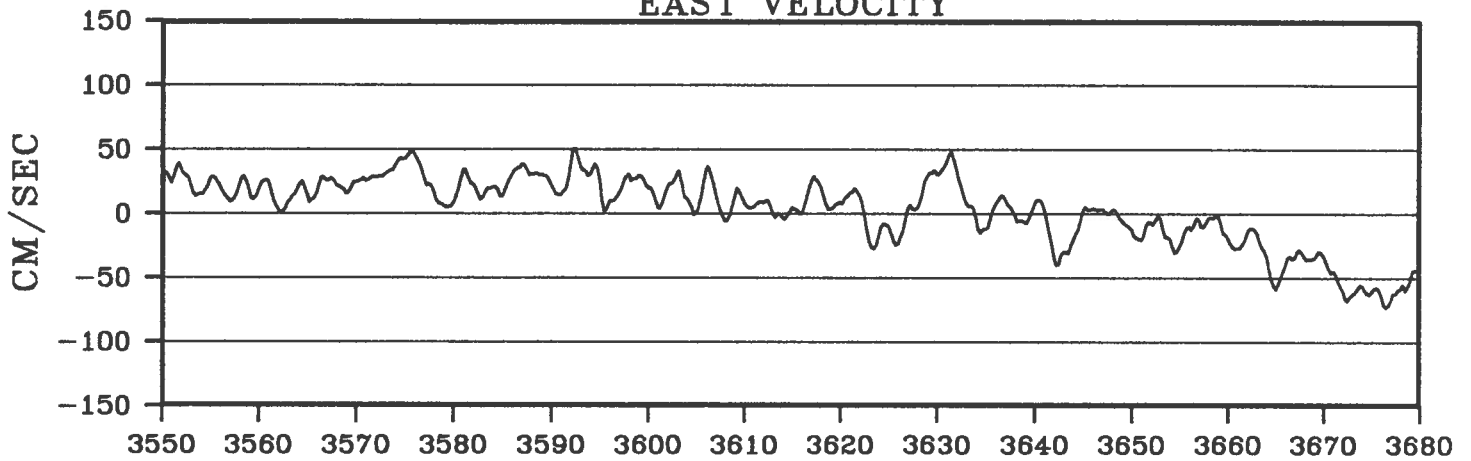


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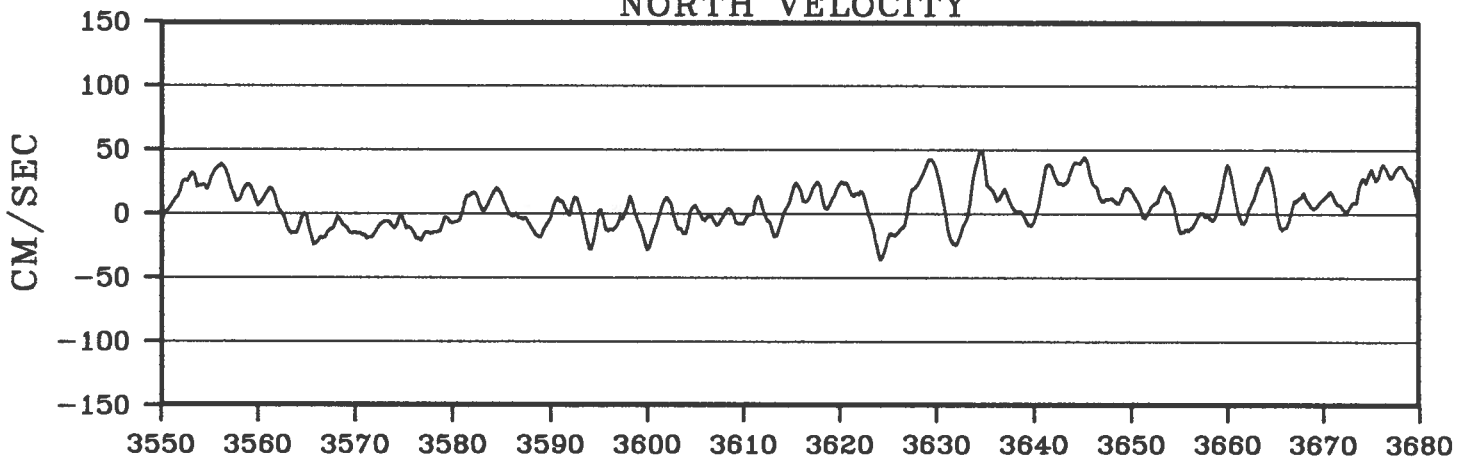


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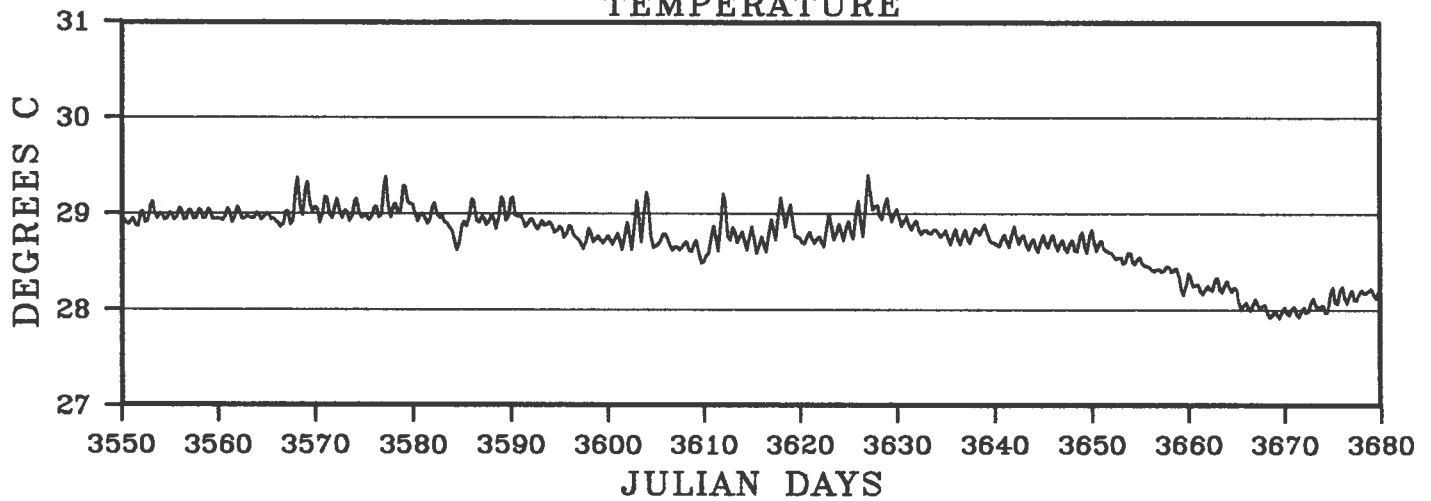
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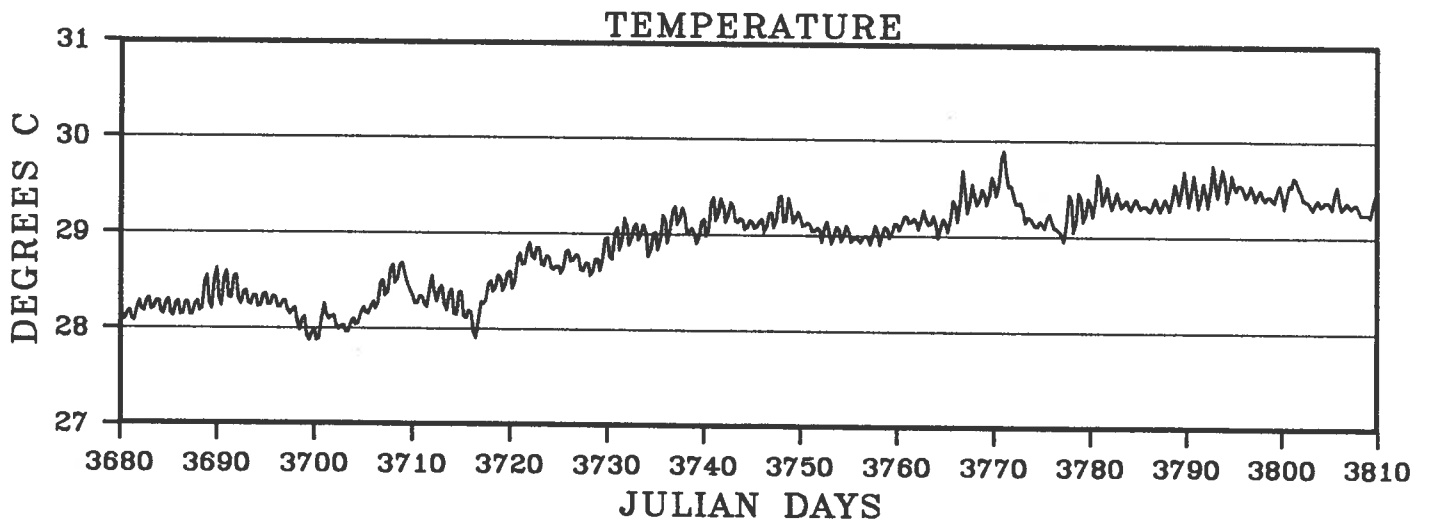
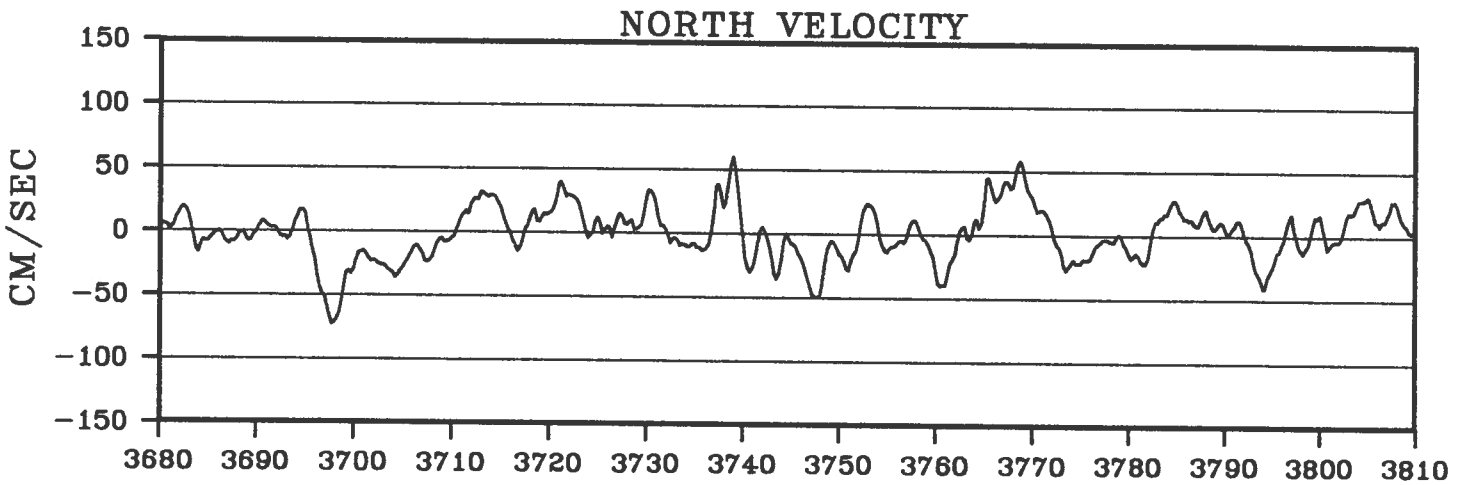
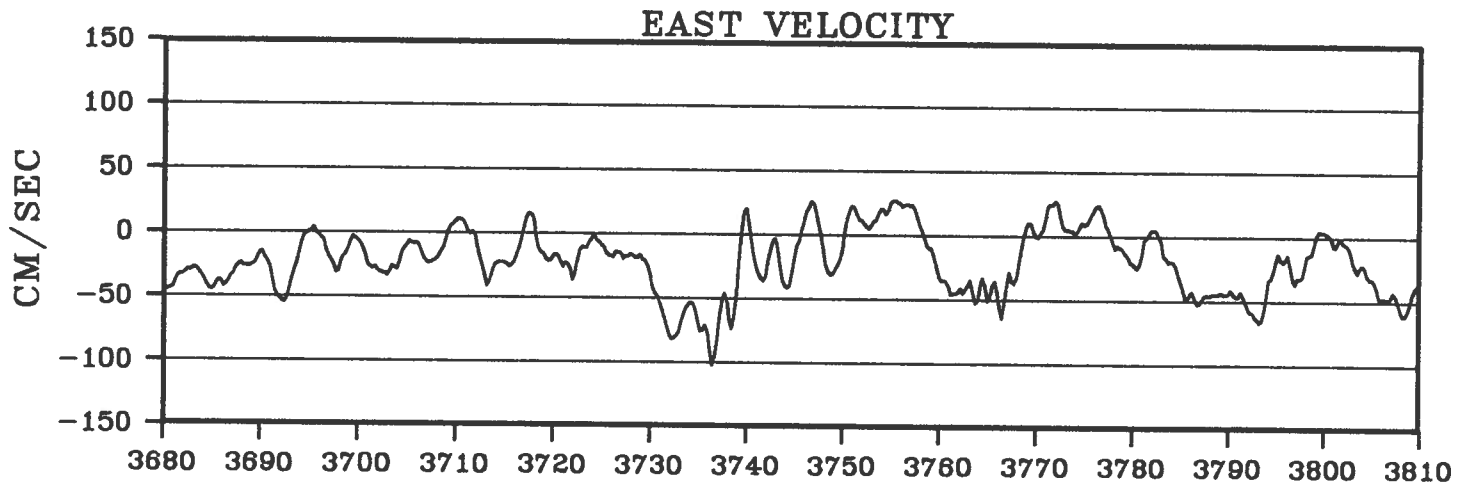
NORTH VELOCITY



TEMPERATURE

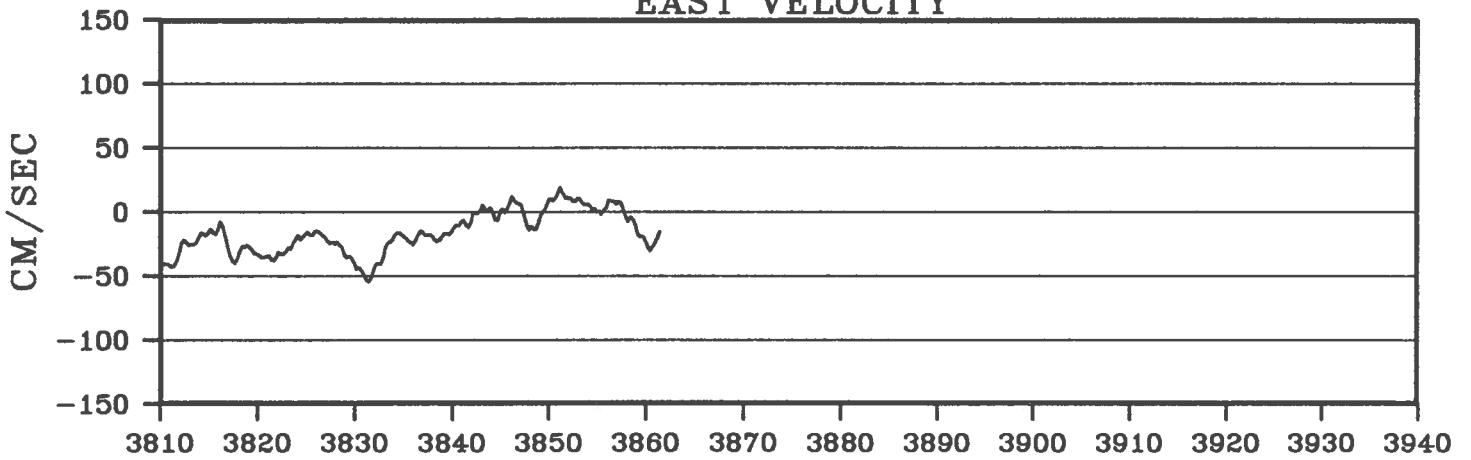


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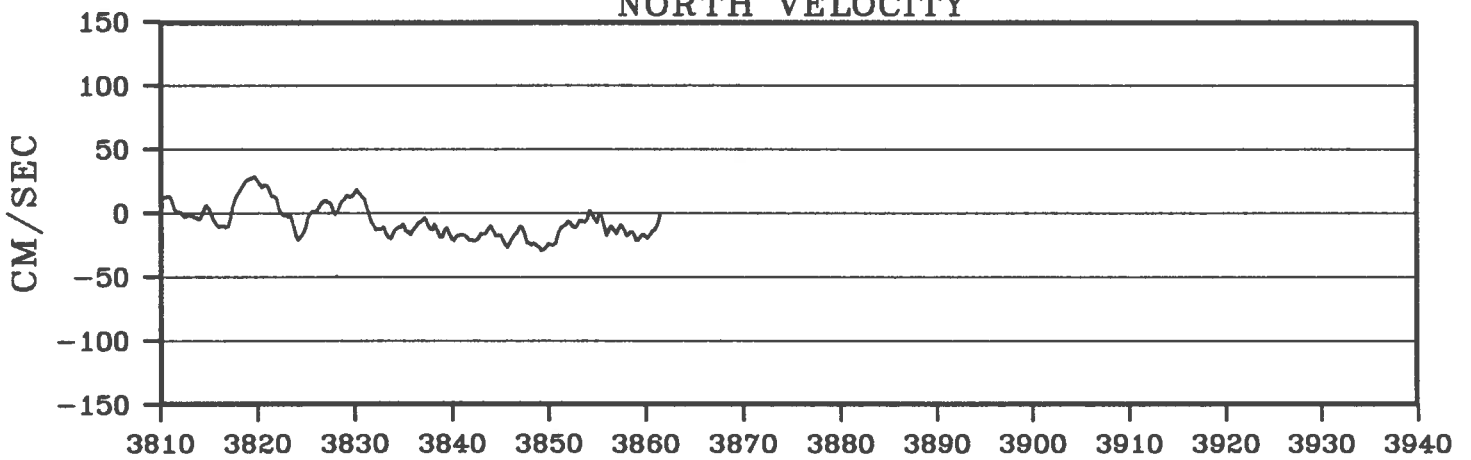


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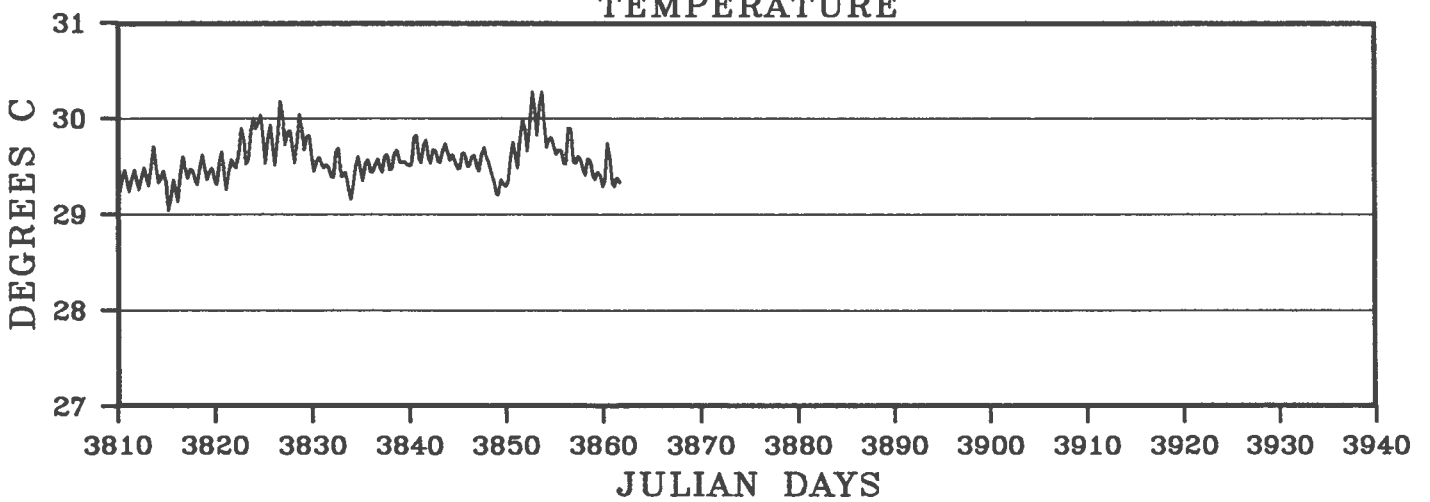
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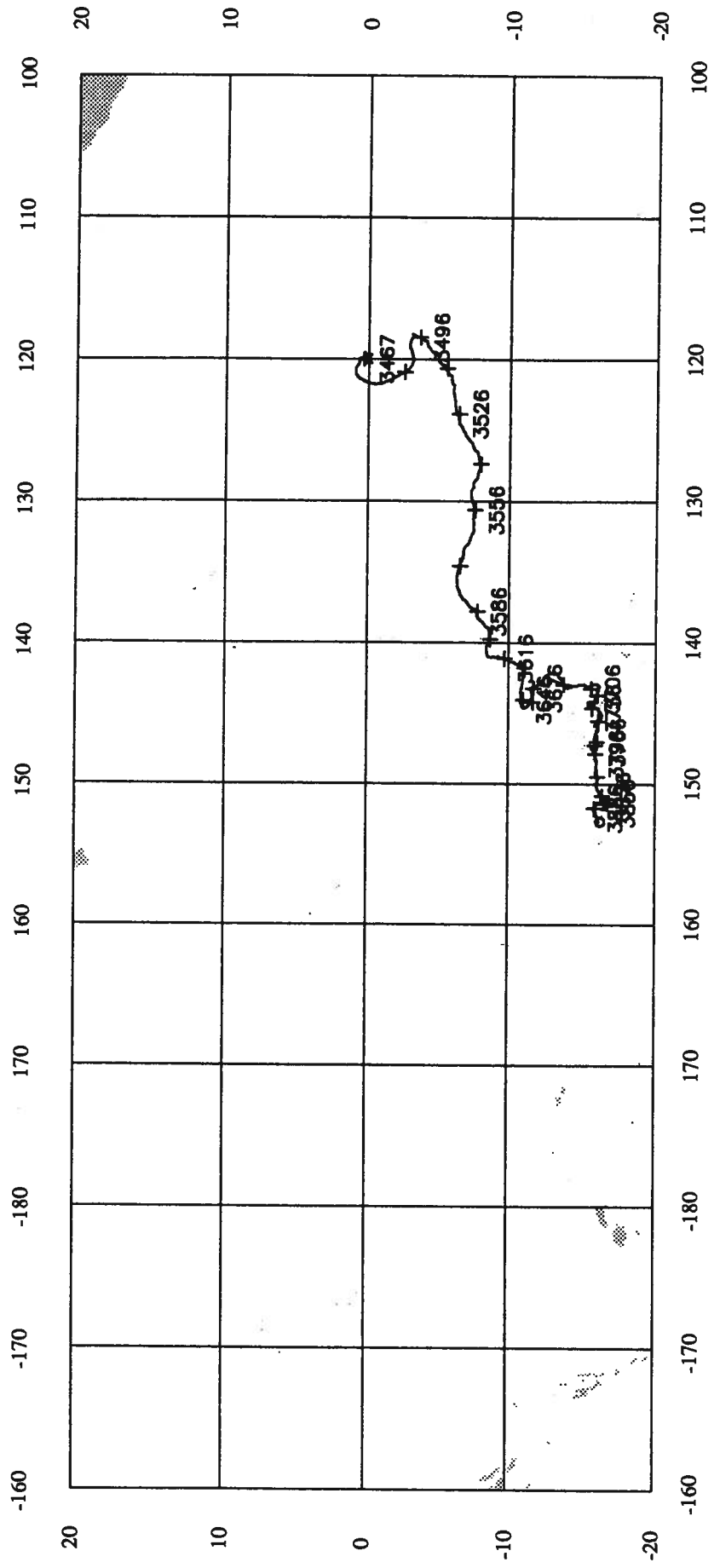
NORTH VELOCITY



TEMPERATURE

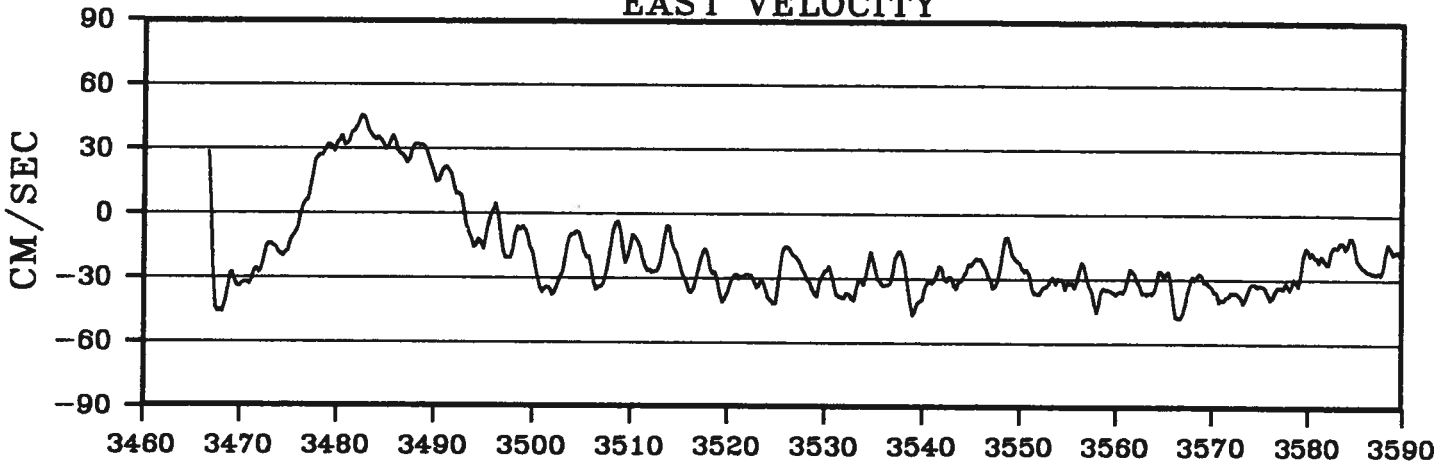


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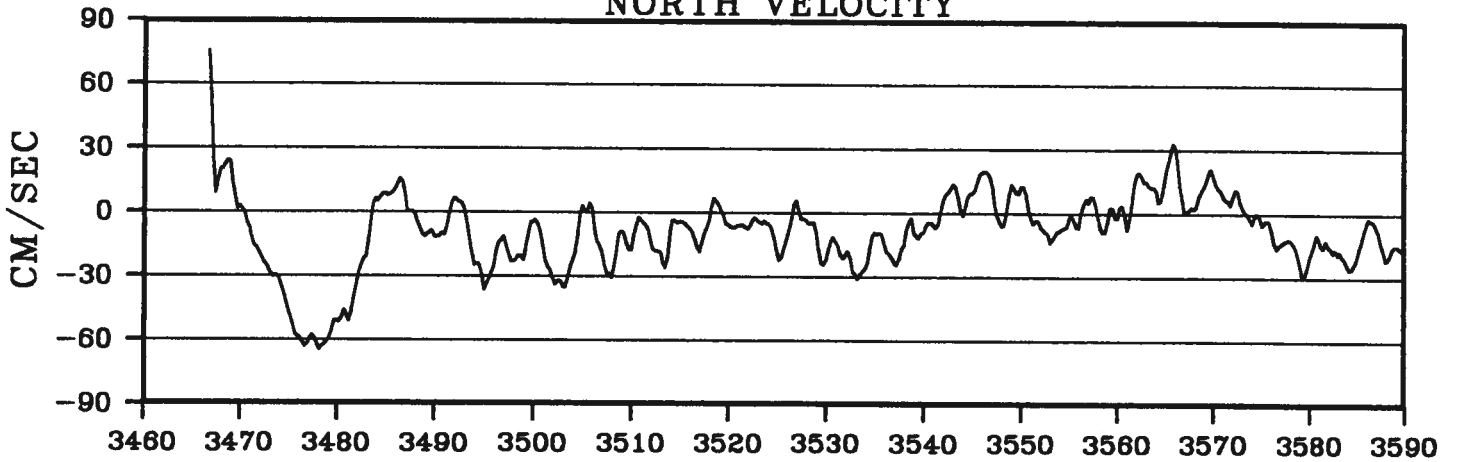


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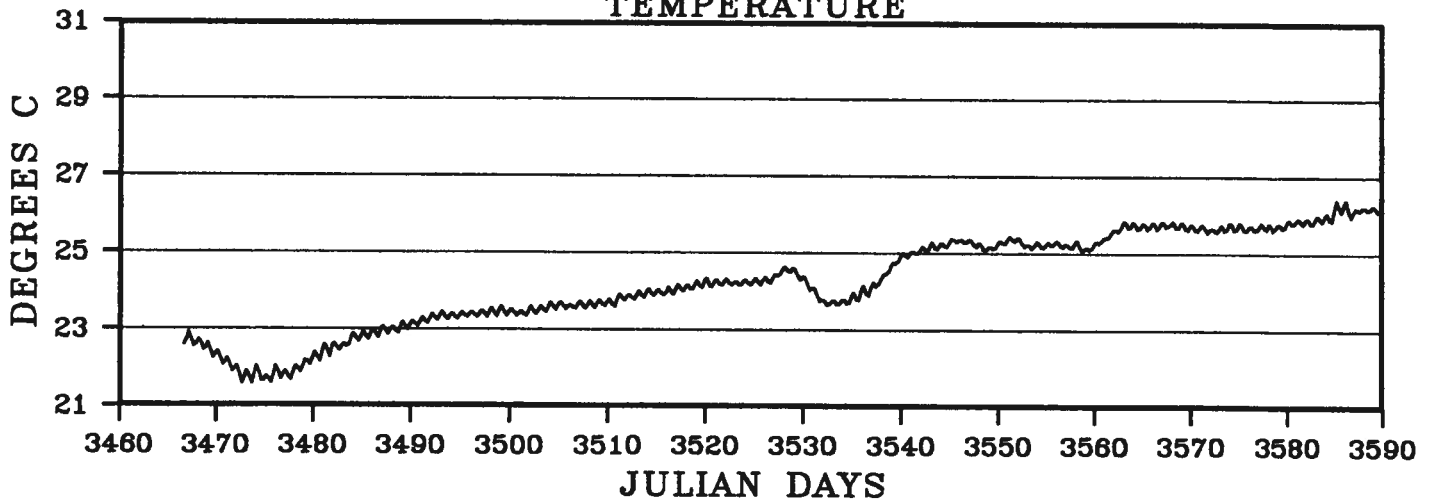
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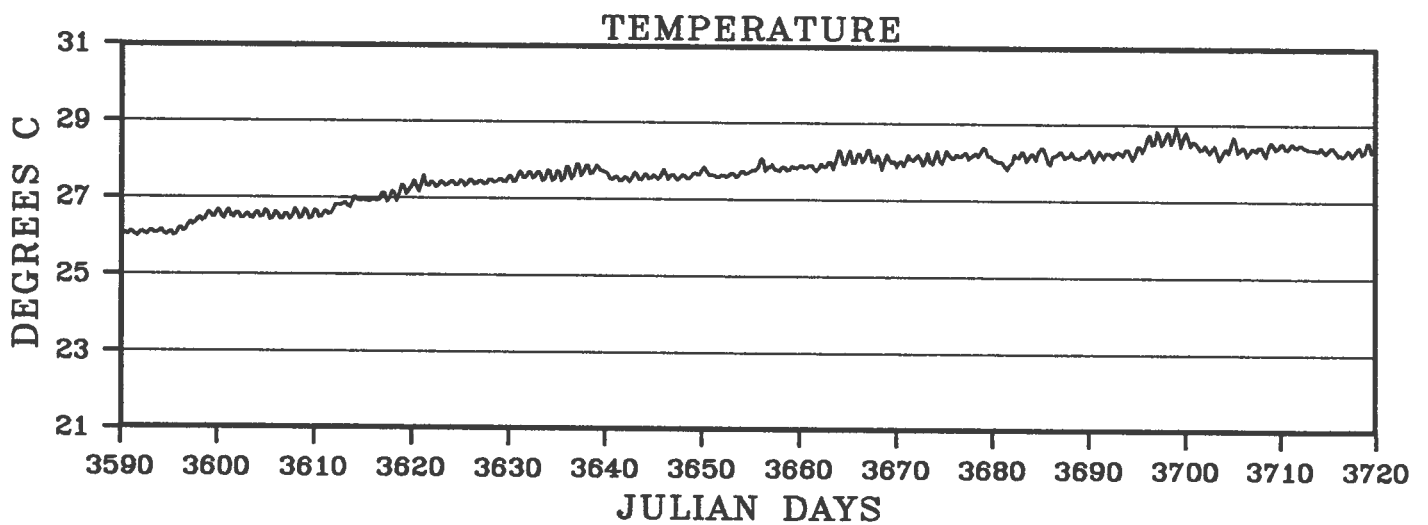
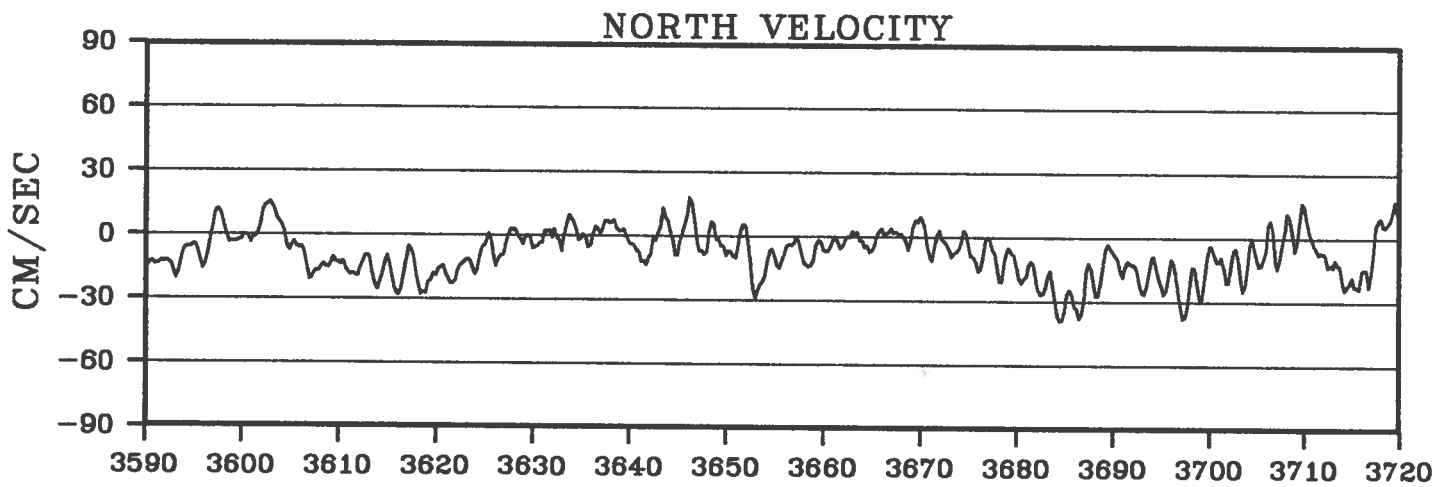
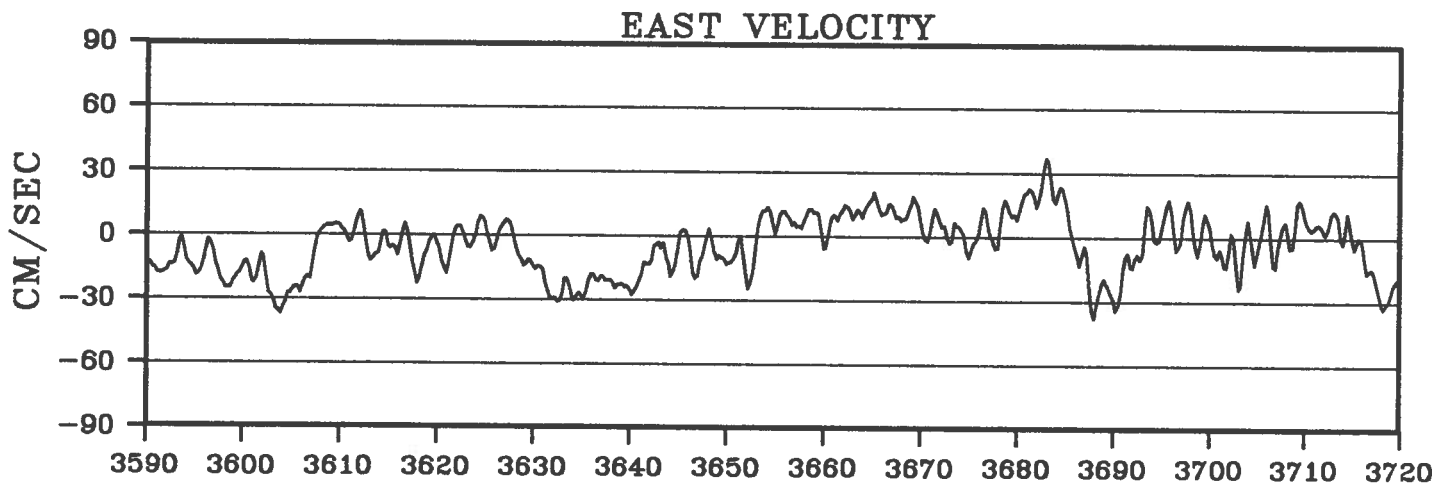
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TEMPERATURE

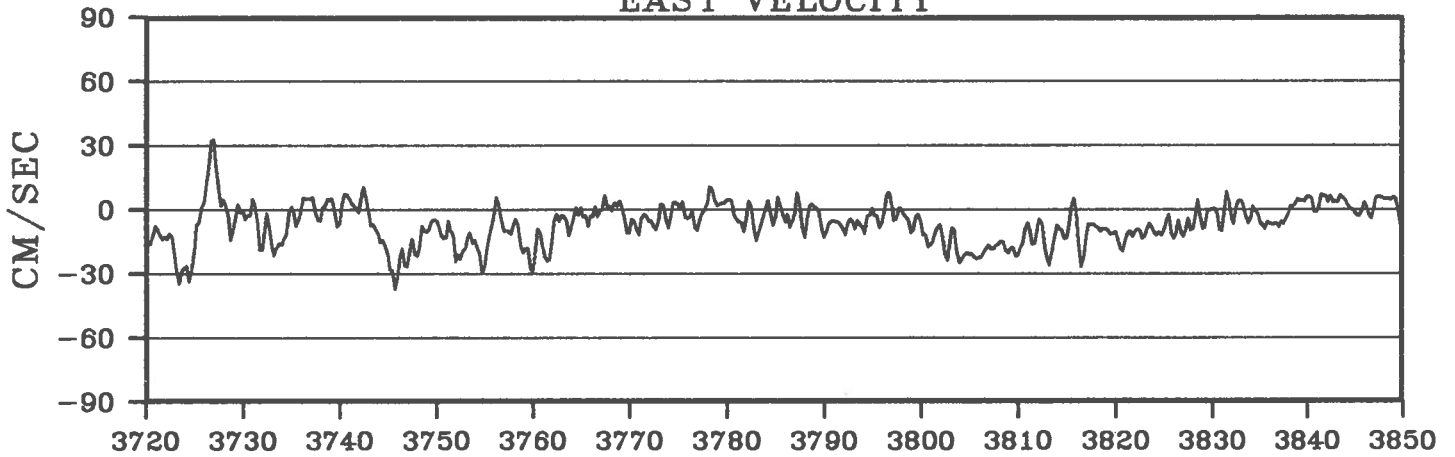


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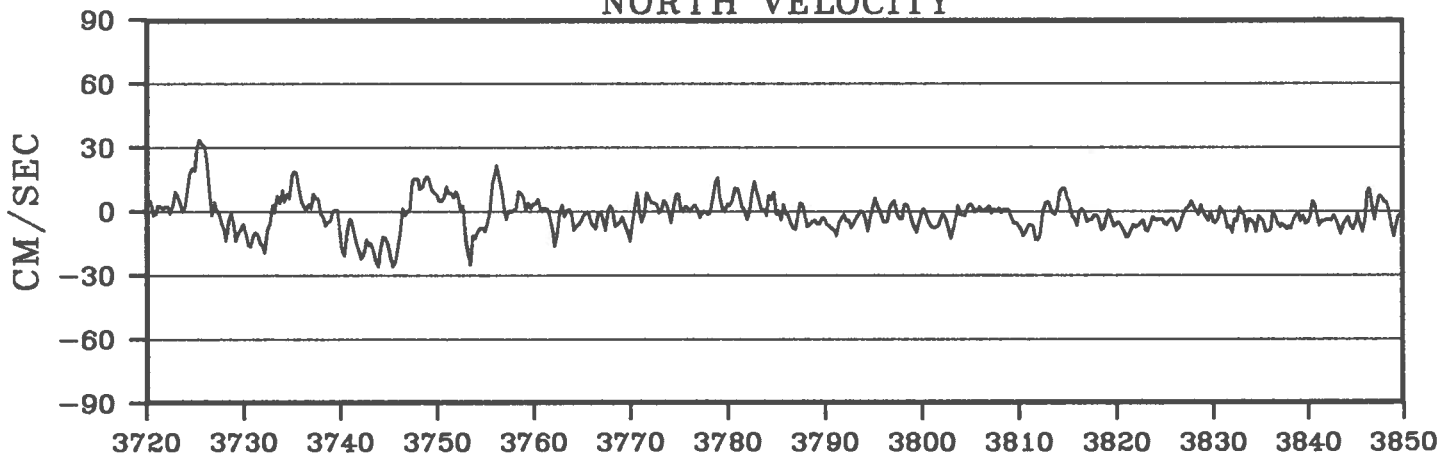


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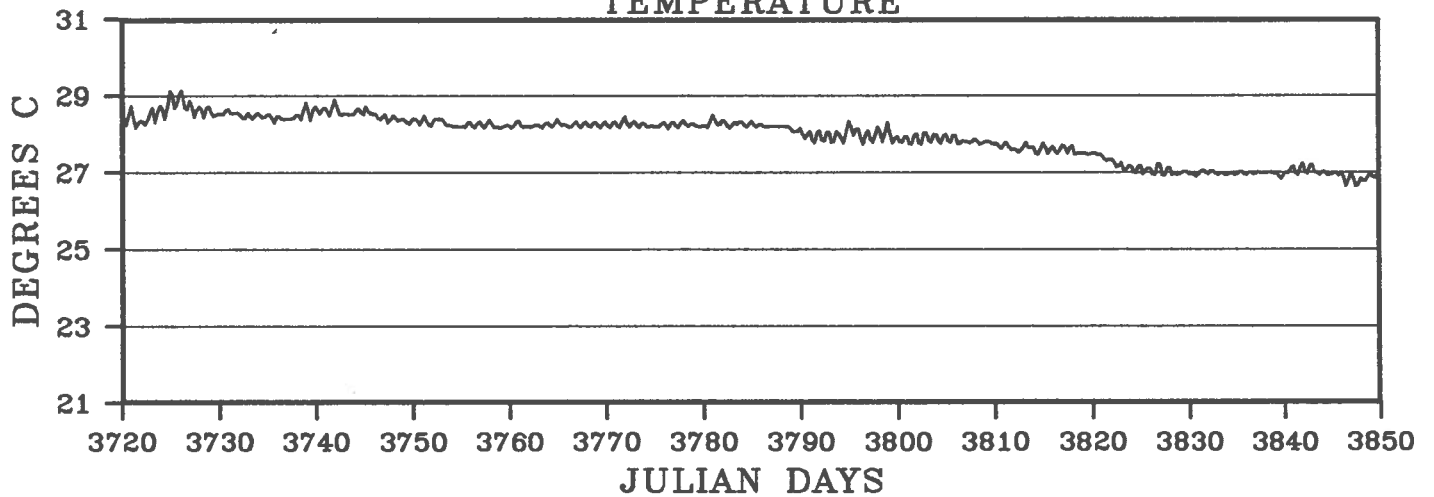
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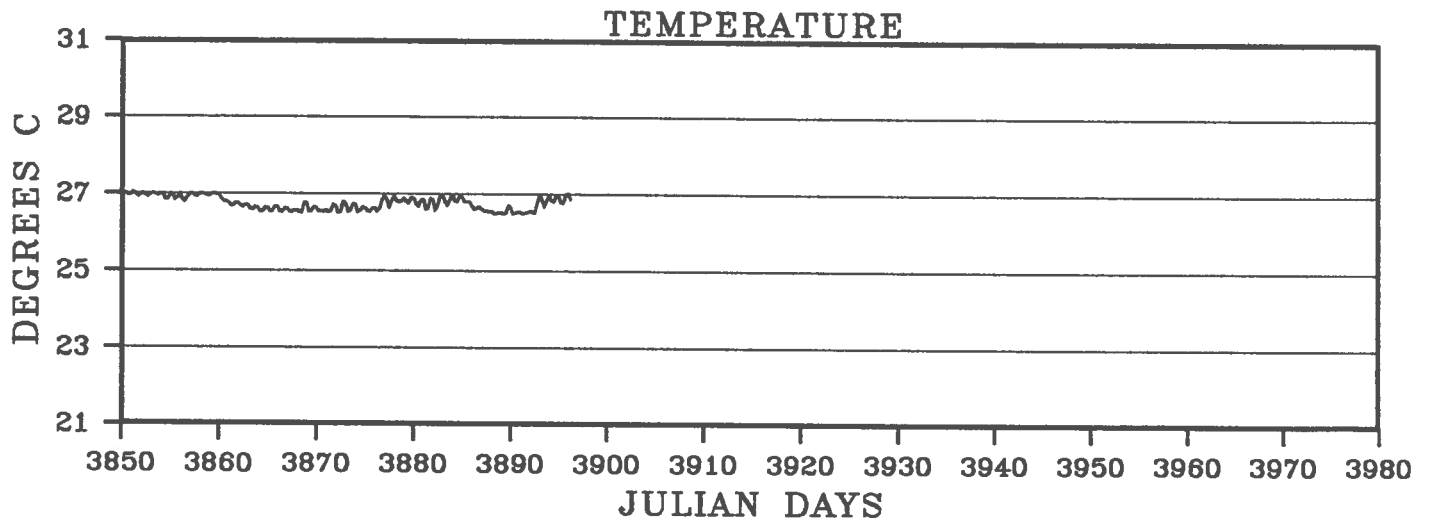
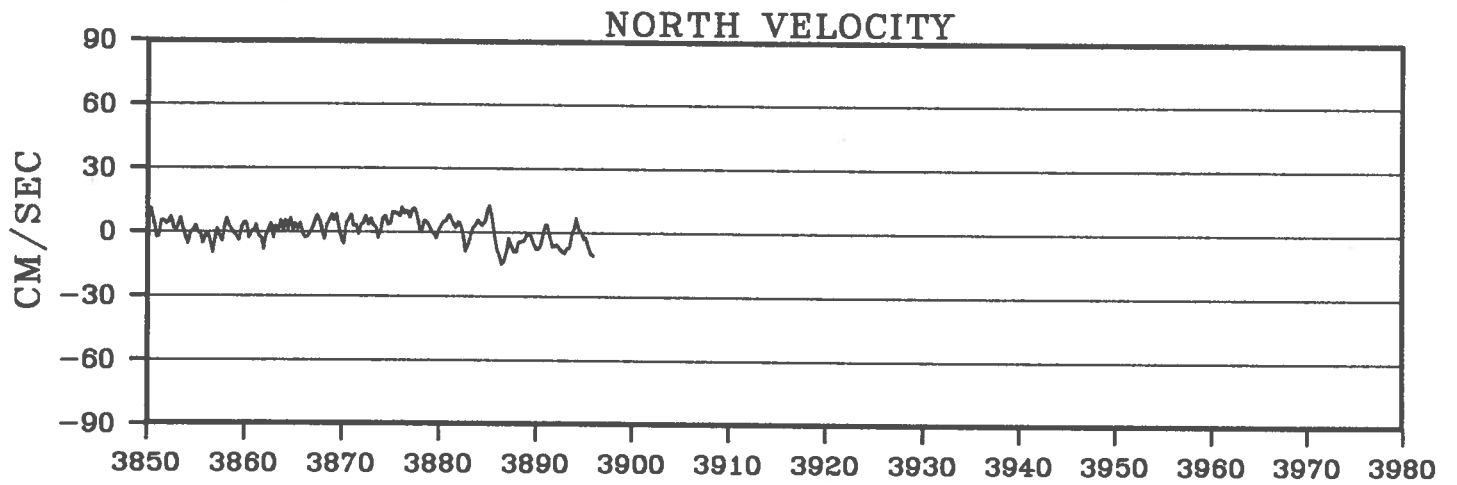
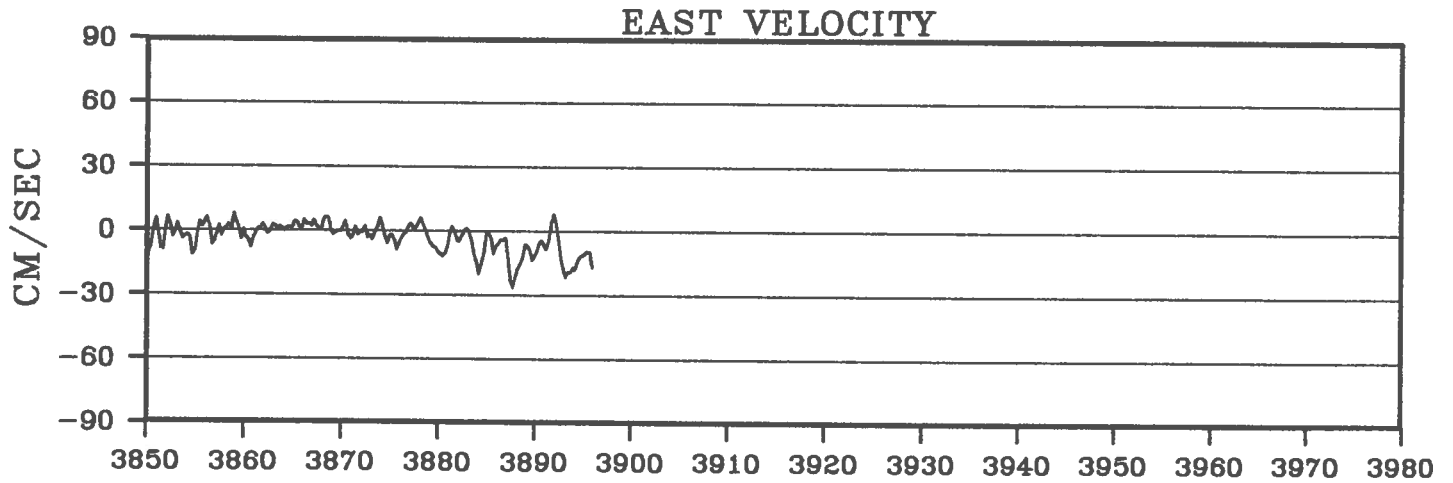
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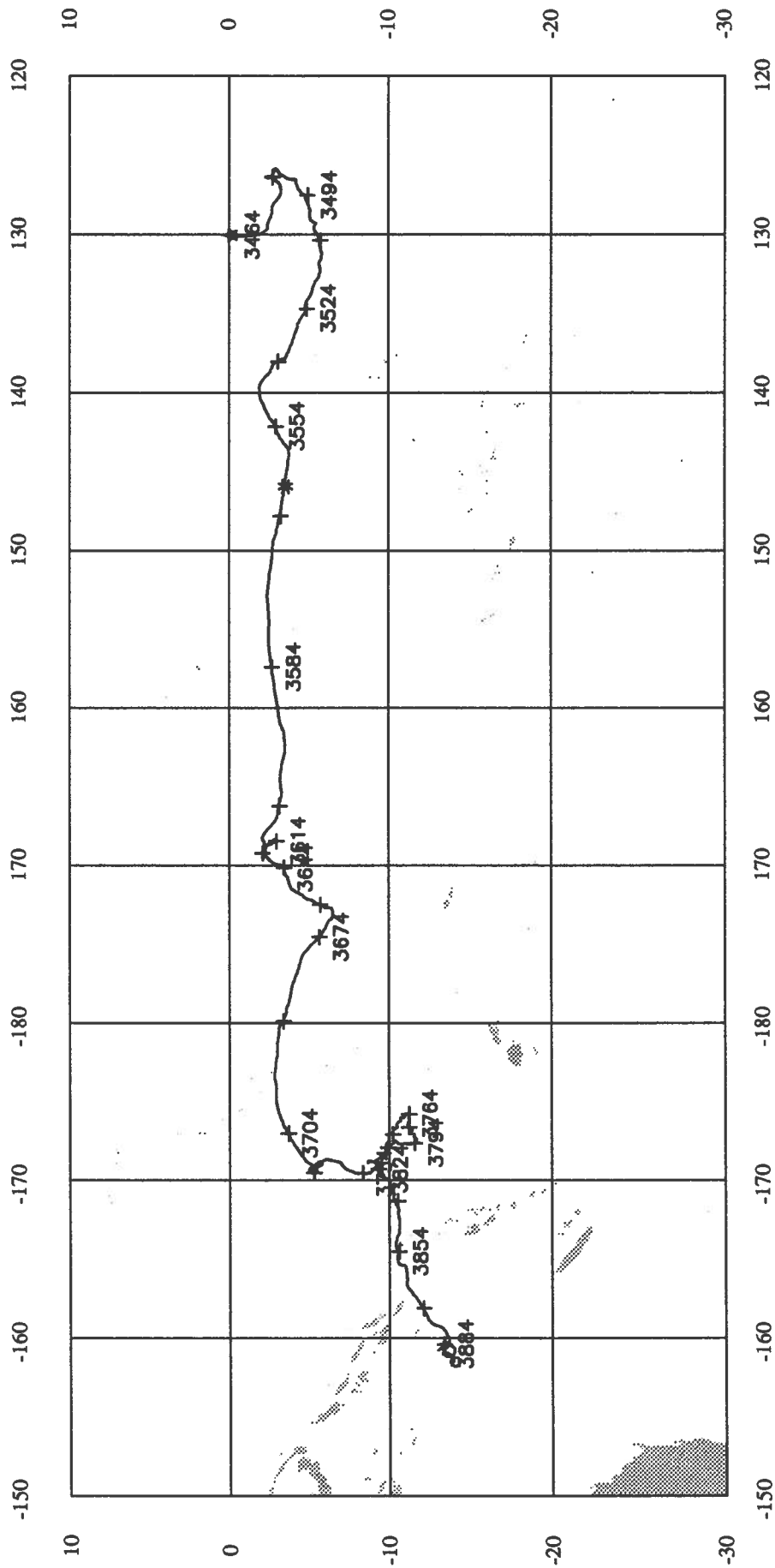
TEMPERATURE



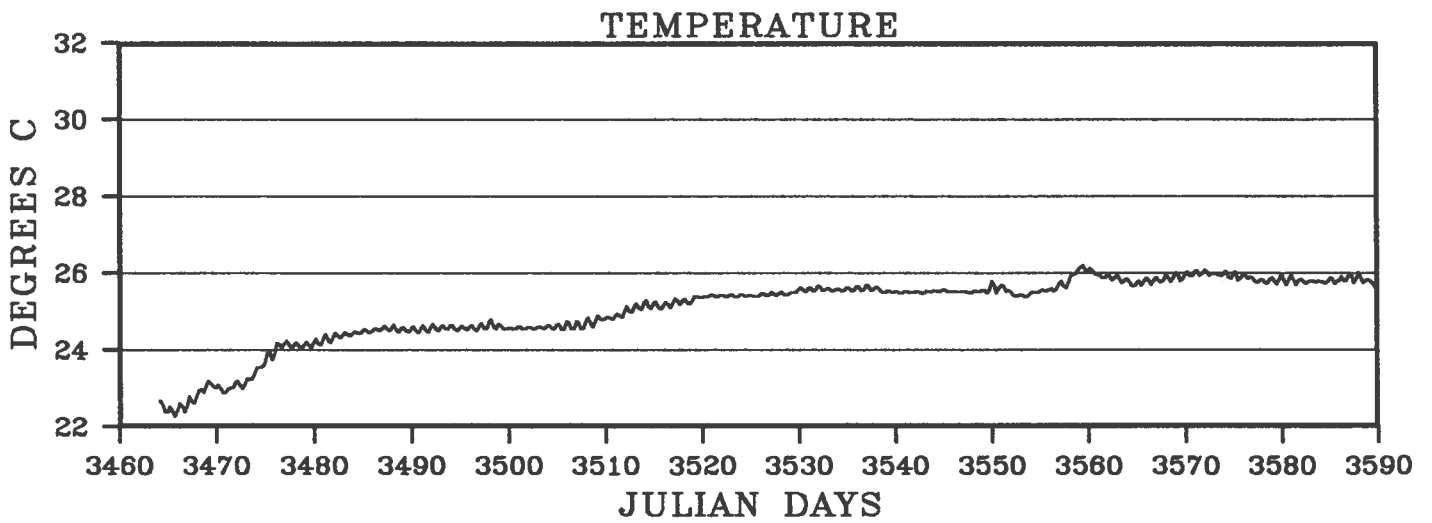
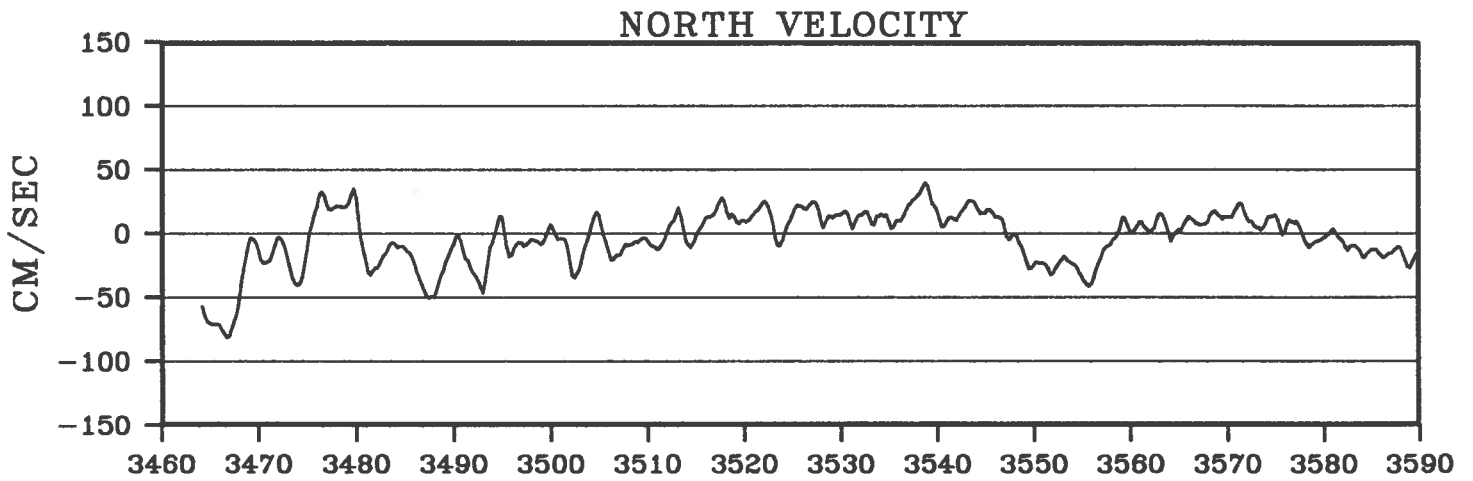
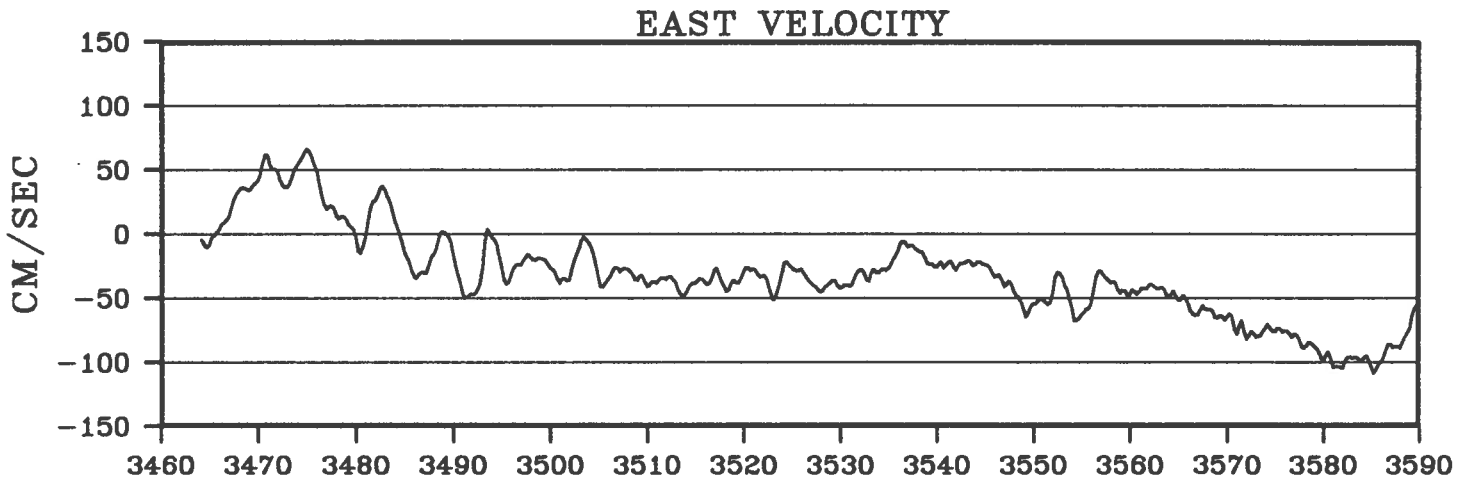
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BUOY 6894

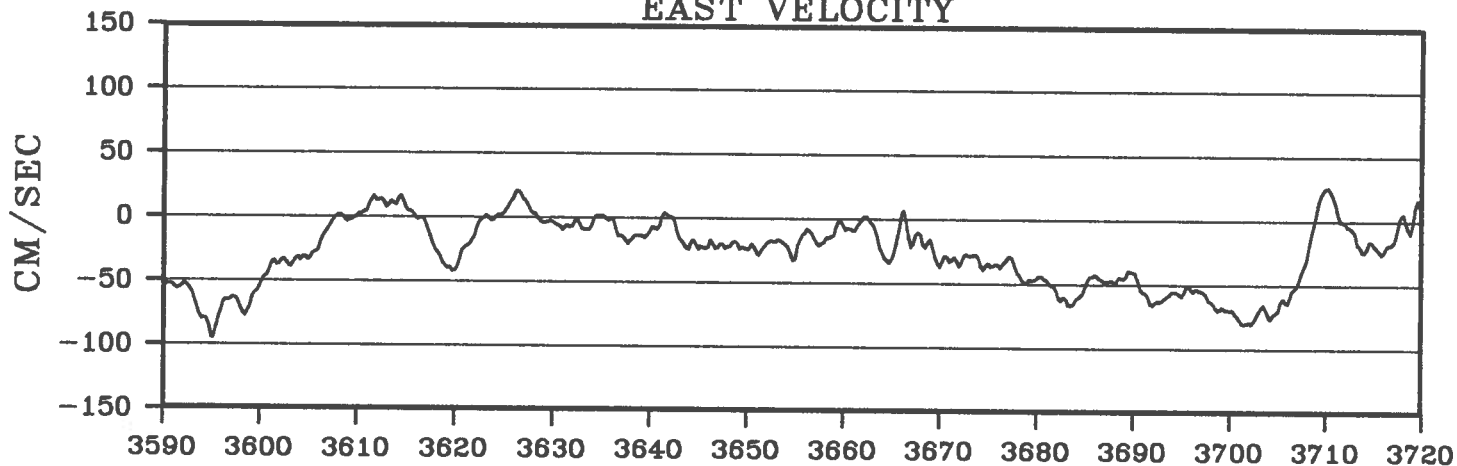


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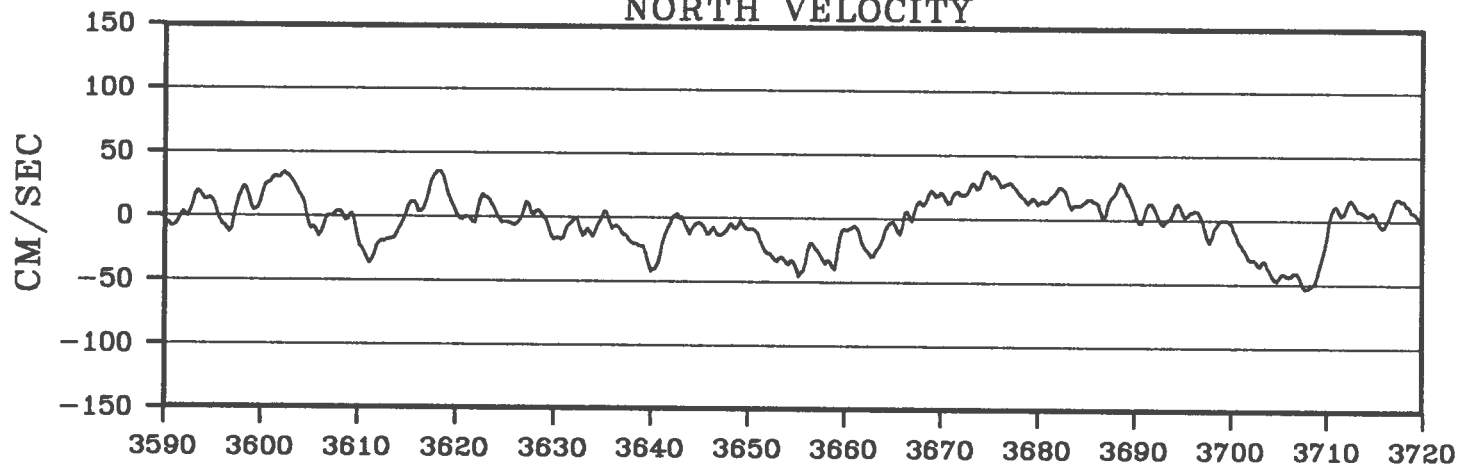


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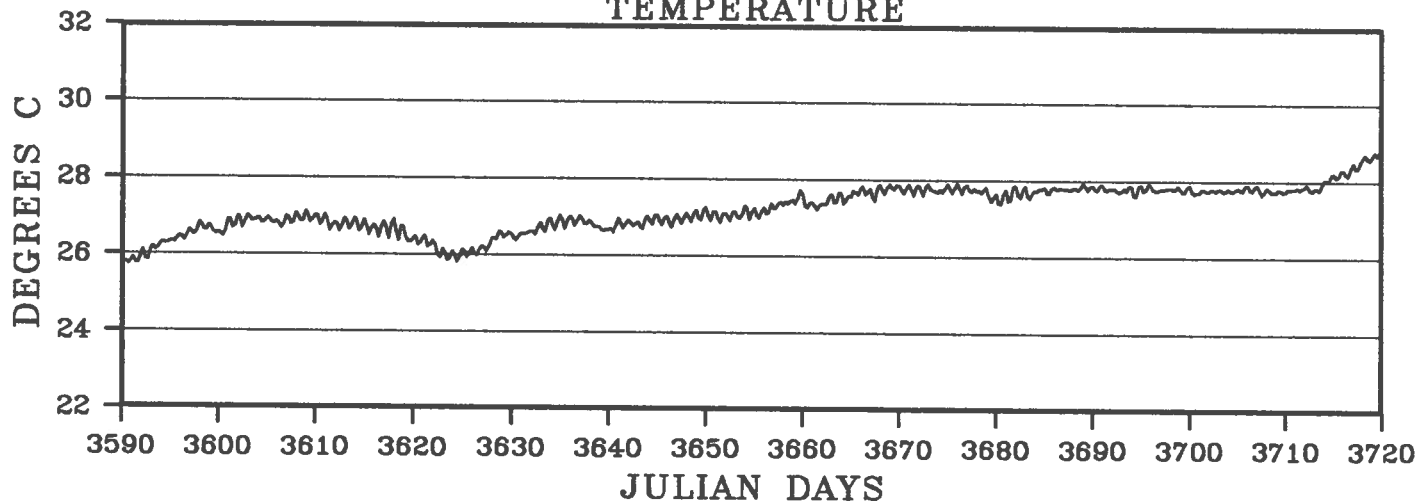
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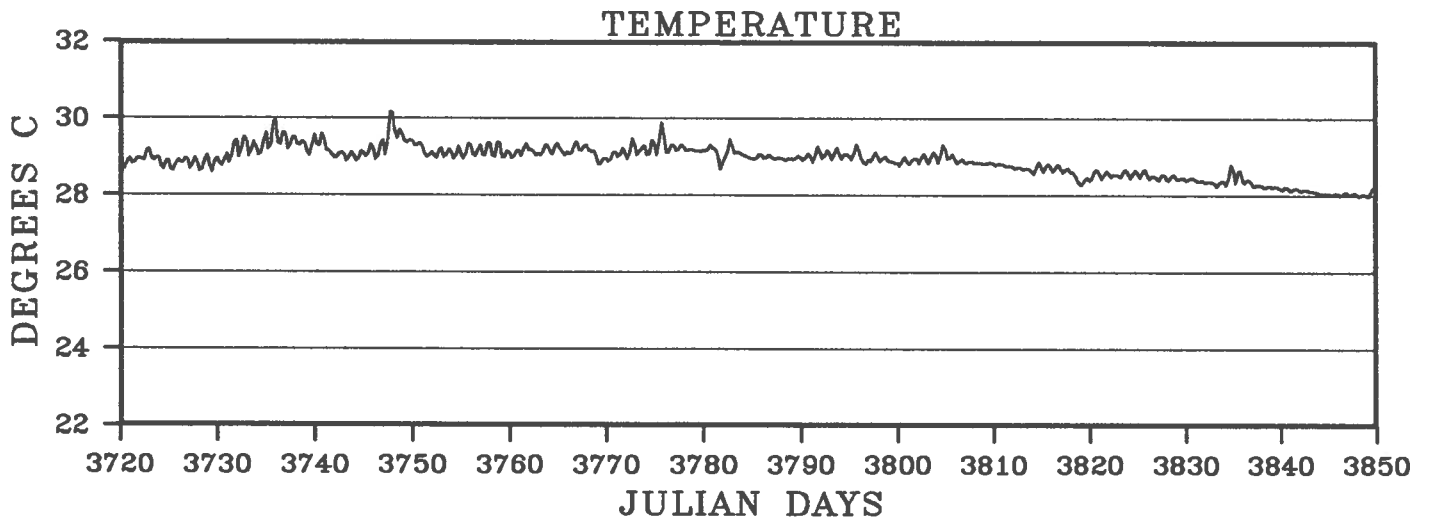
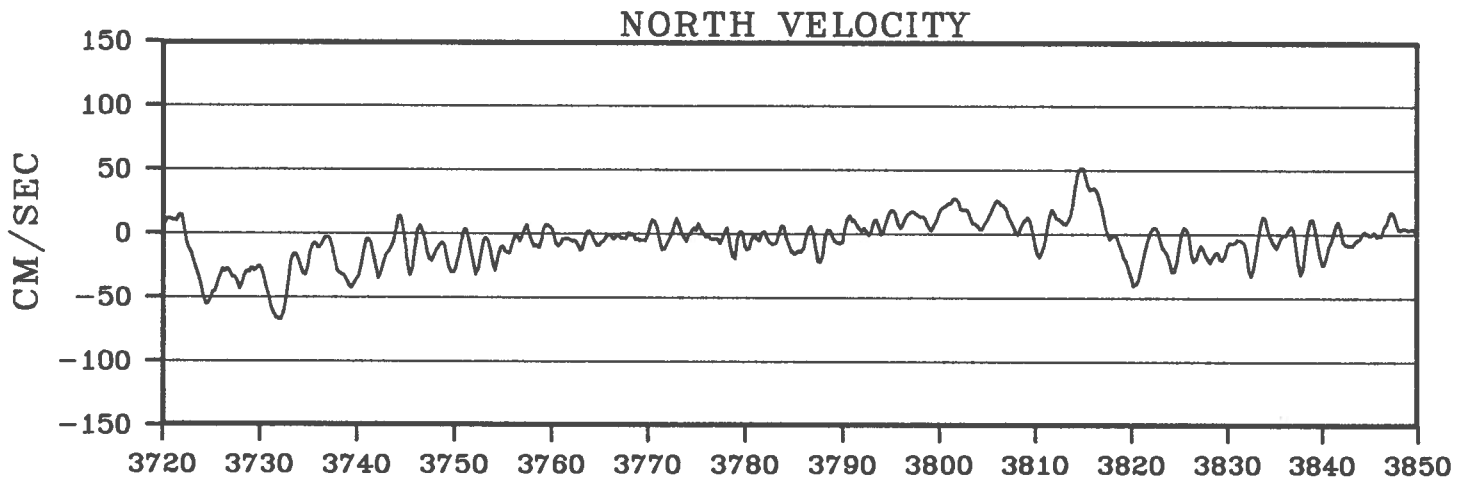
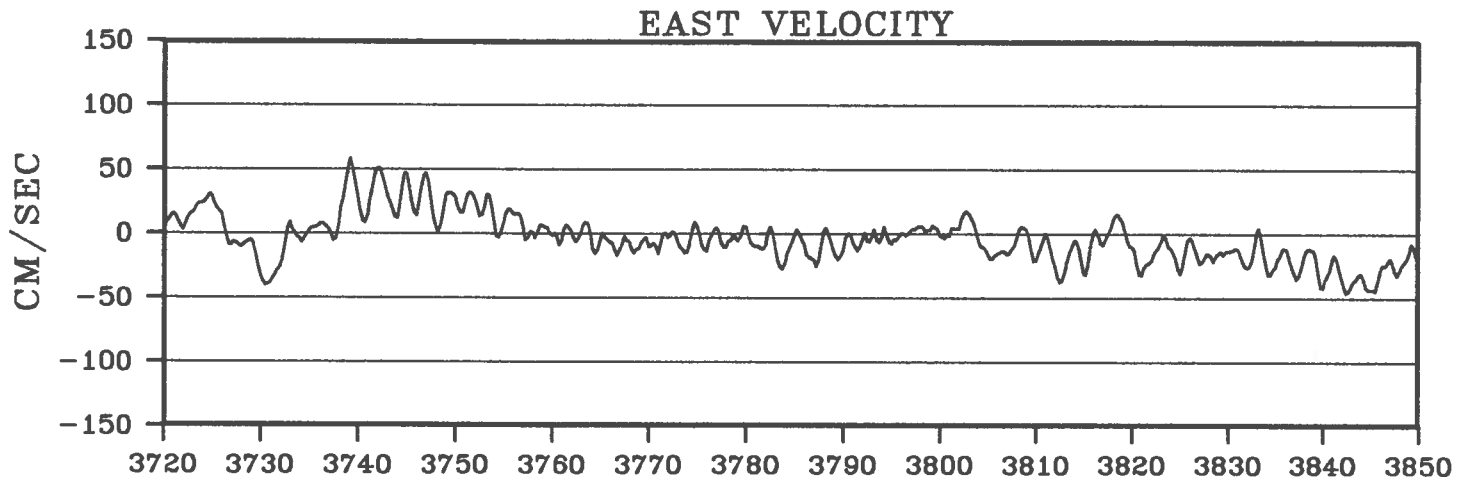
NORTH VELOCITY



TEMPERATURE

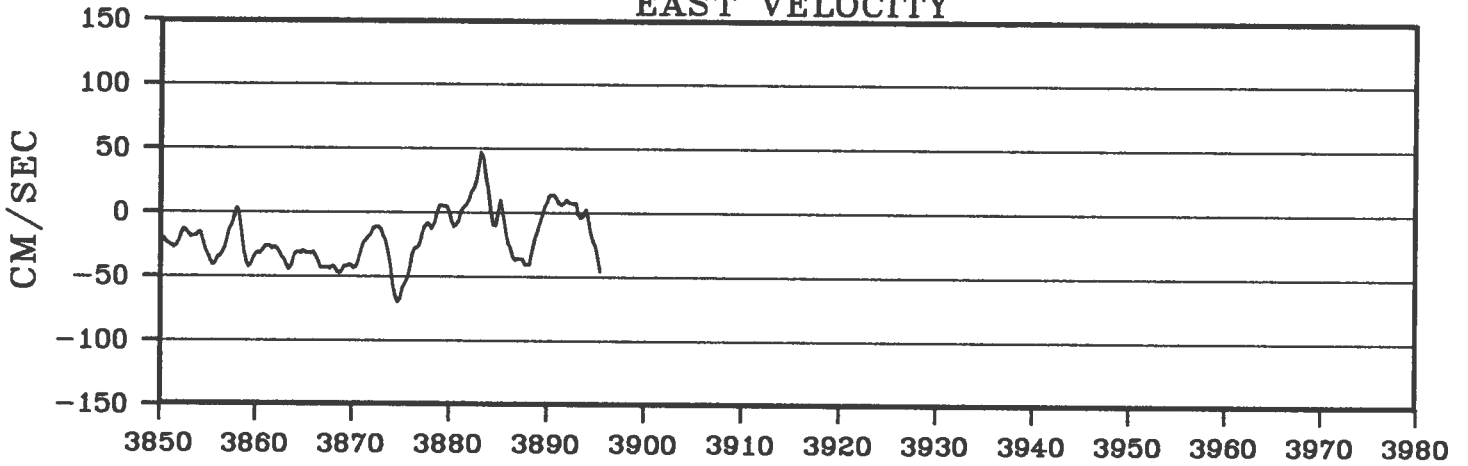


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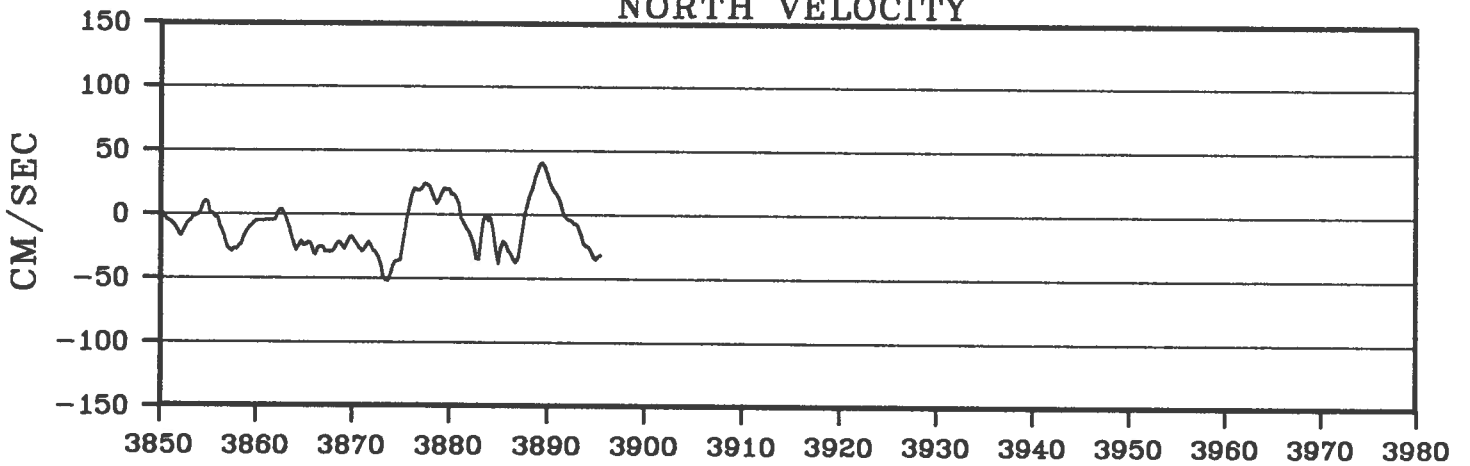


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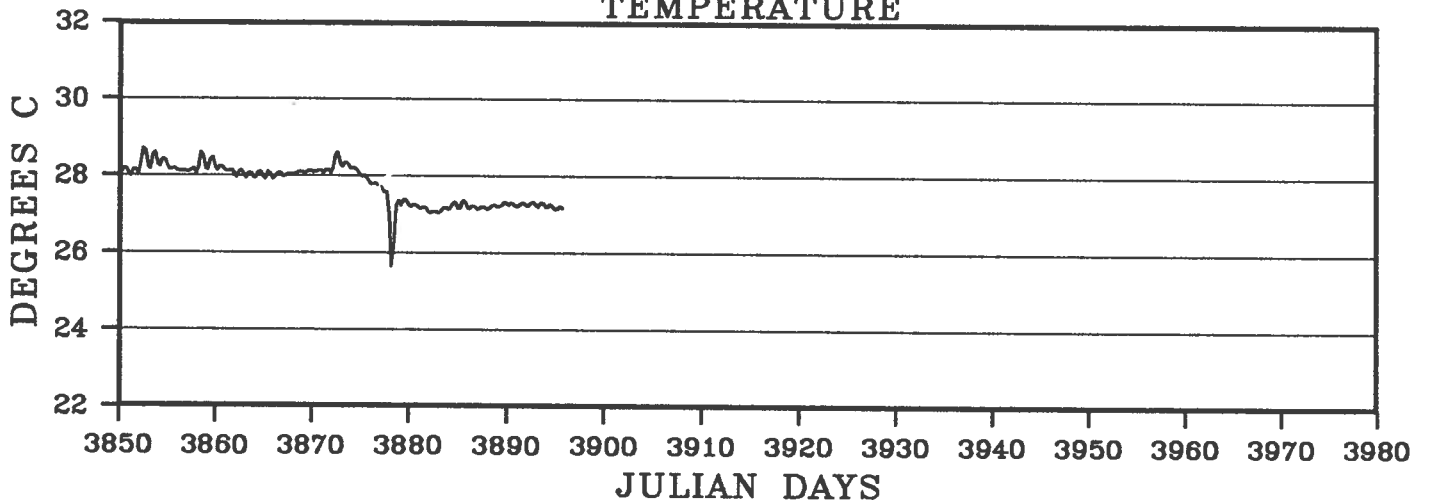
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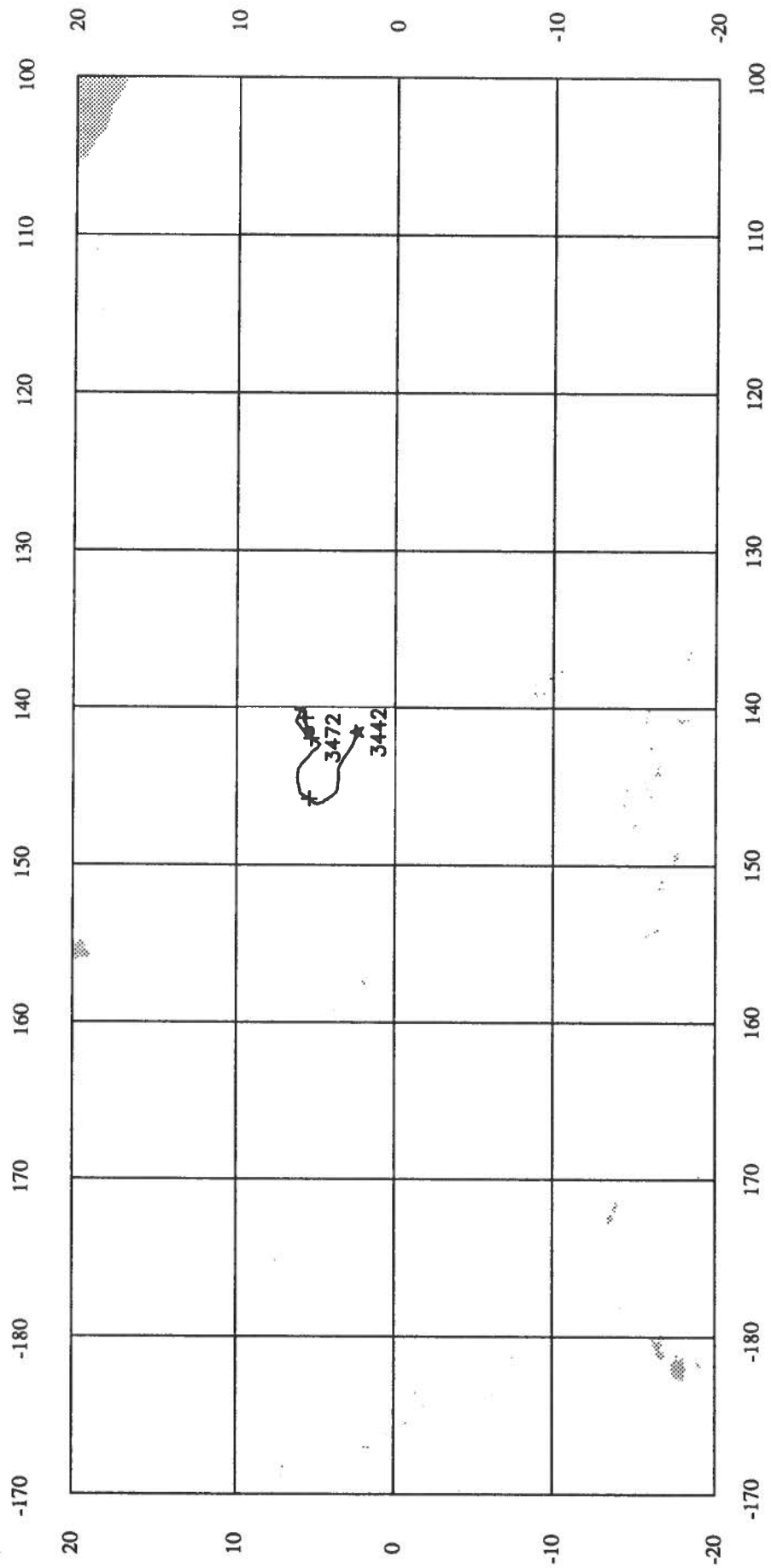
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TEMPERATURE

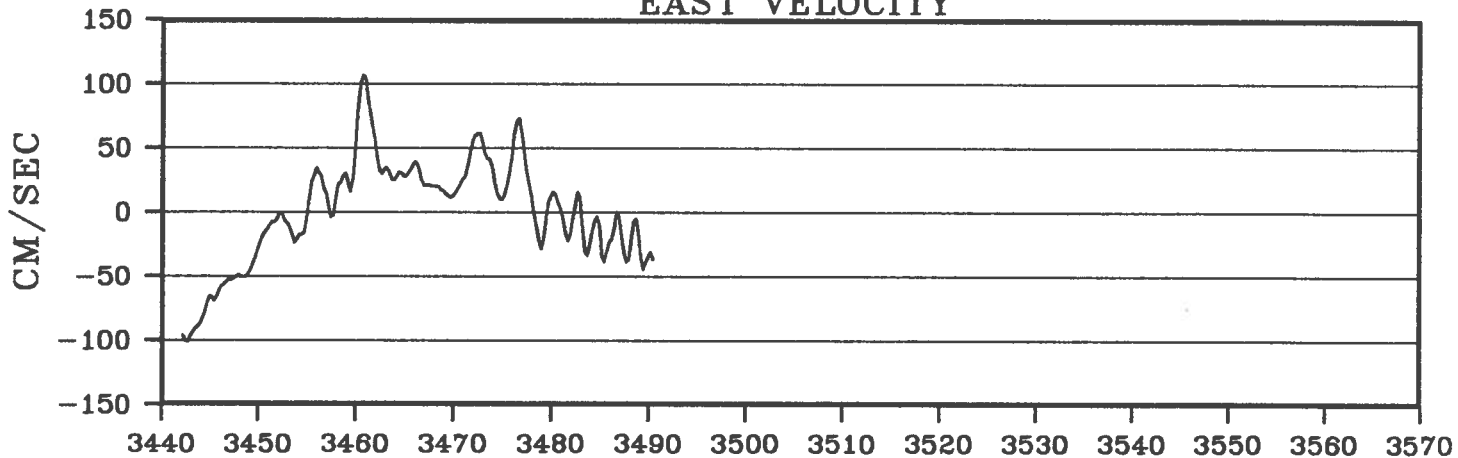


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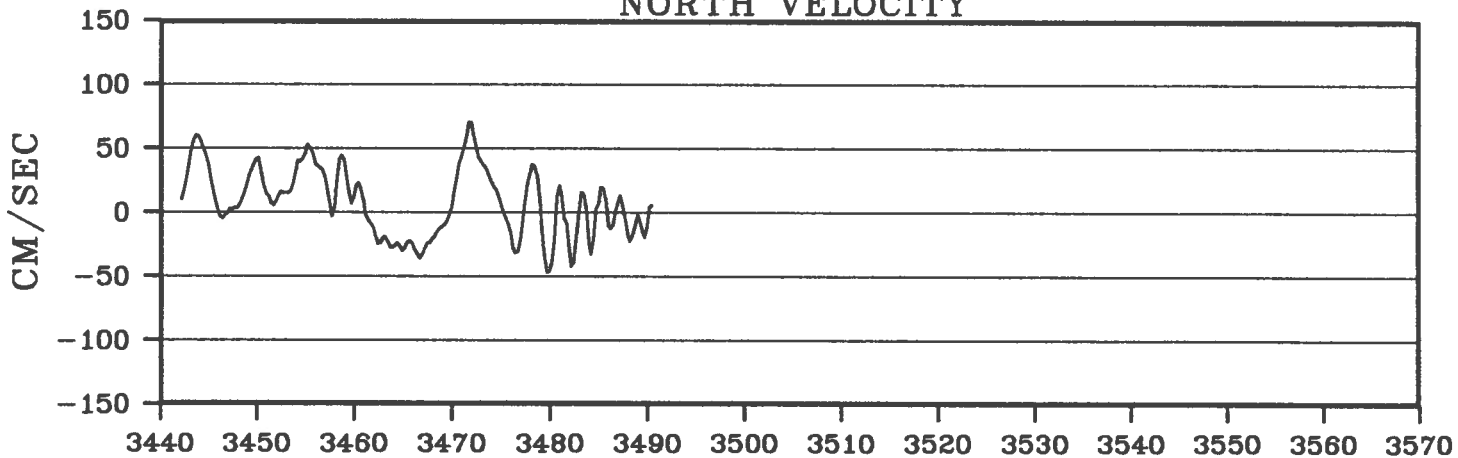


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EAST VELOCITY



NORTH VELOCITY



TEMPERATURE

