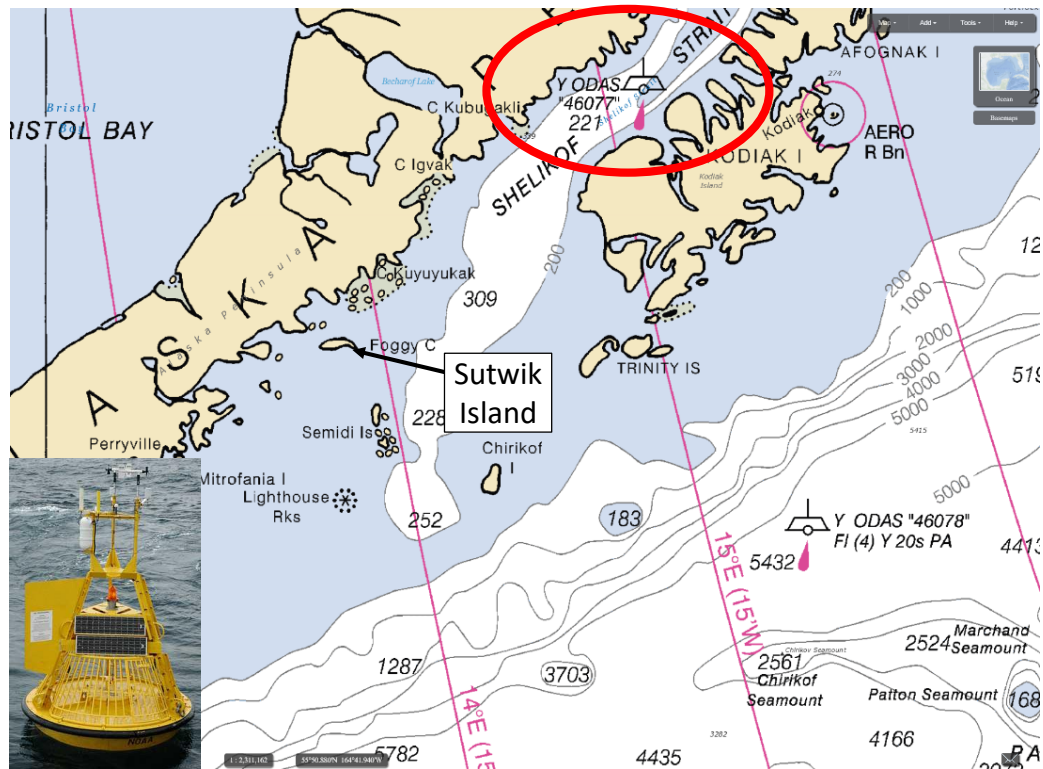
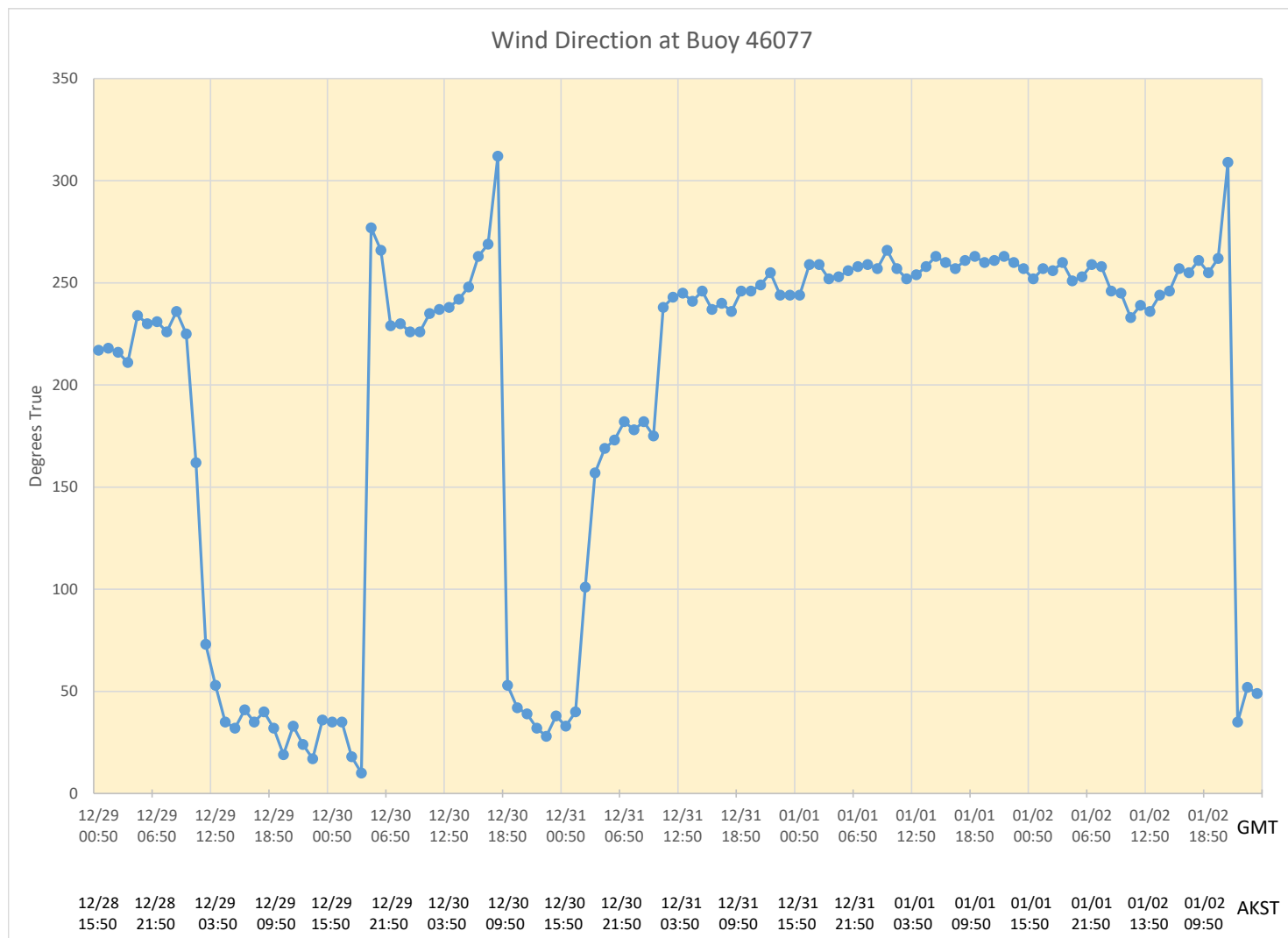


No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United States. 46 U.S.C. §6308.

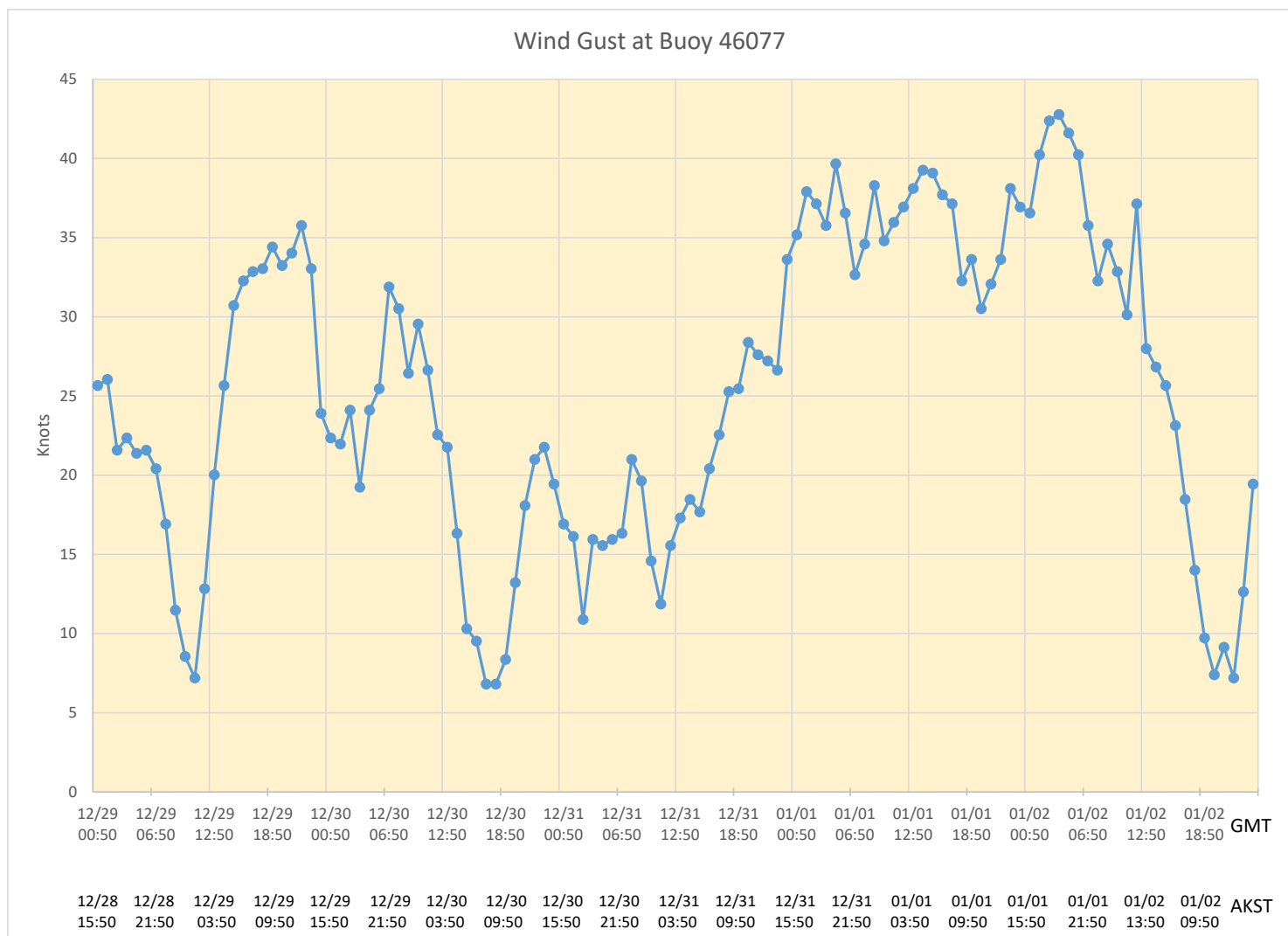
Buoy 46077
Shelikof Strait, AK



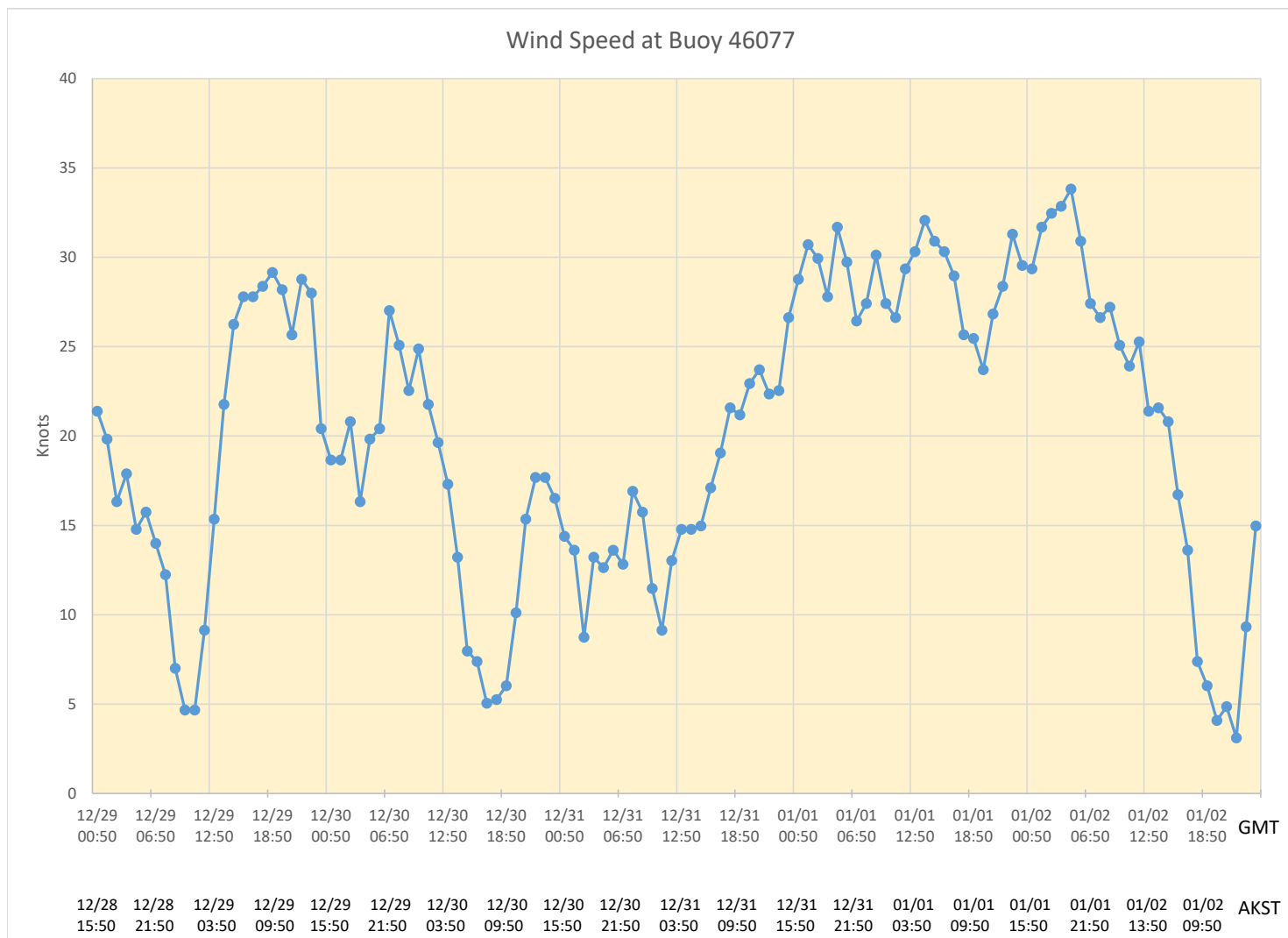
https://www.ndbc.noaa.gov/station_page.php?station=46077



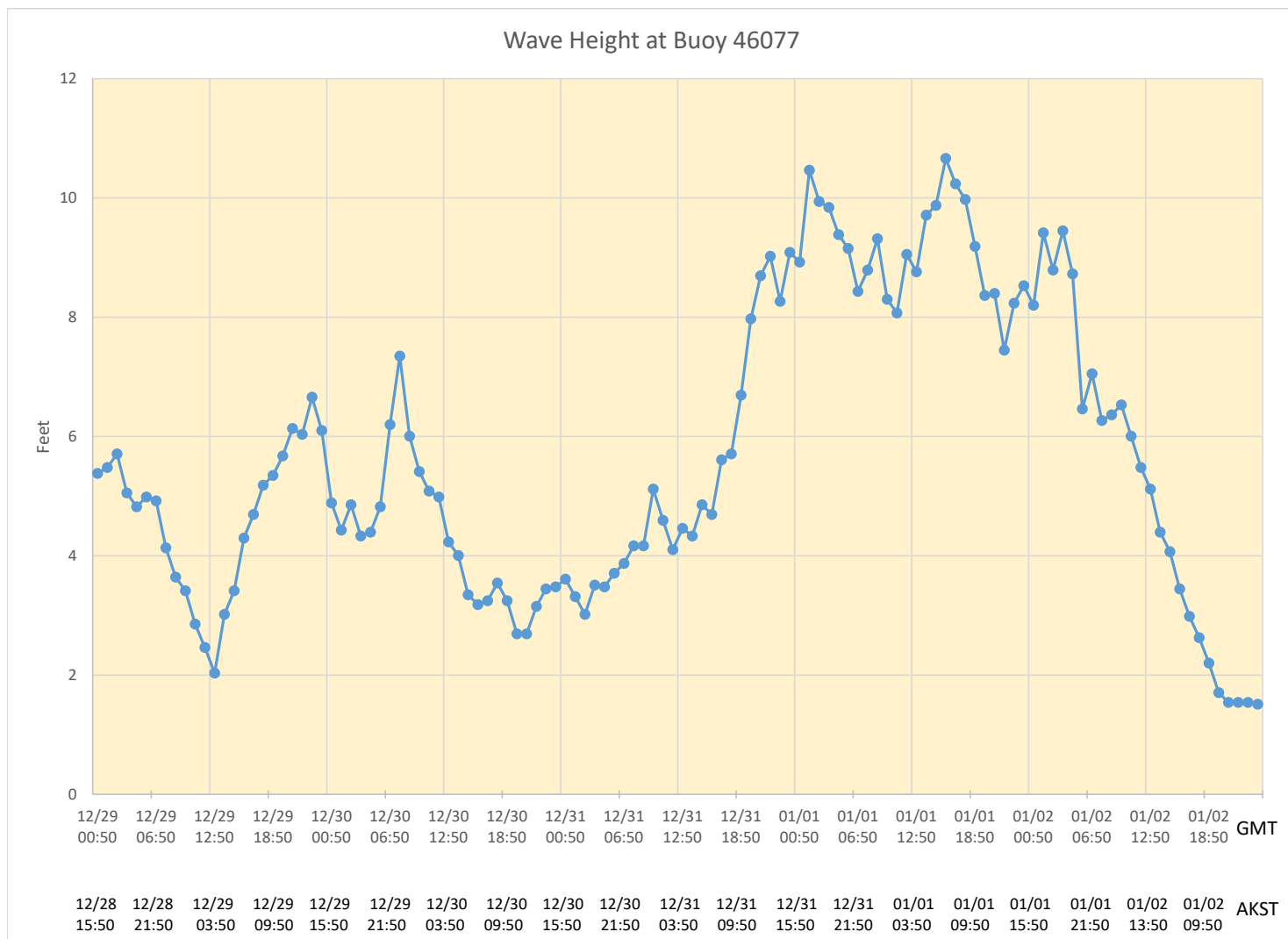
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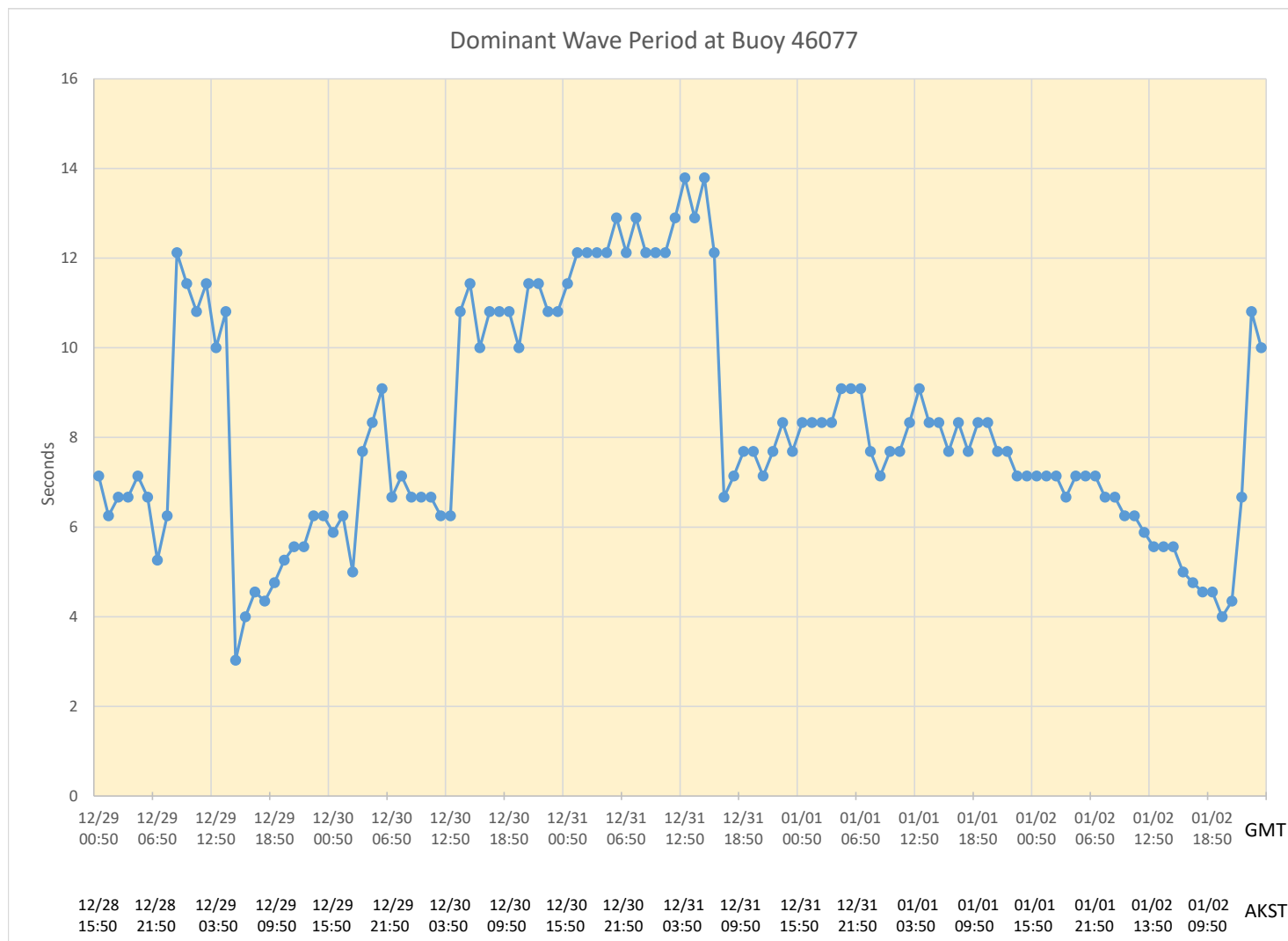
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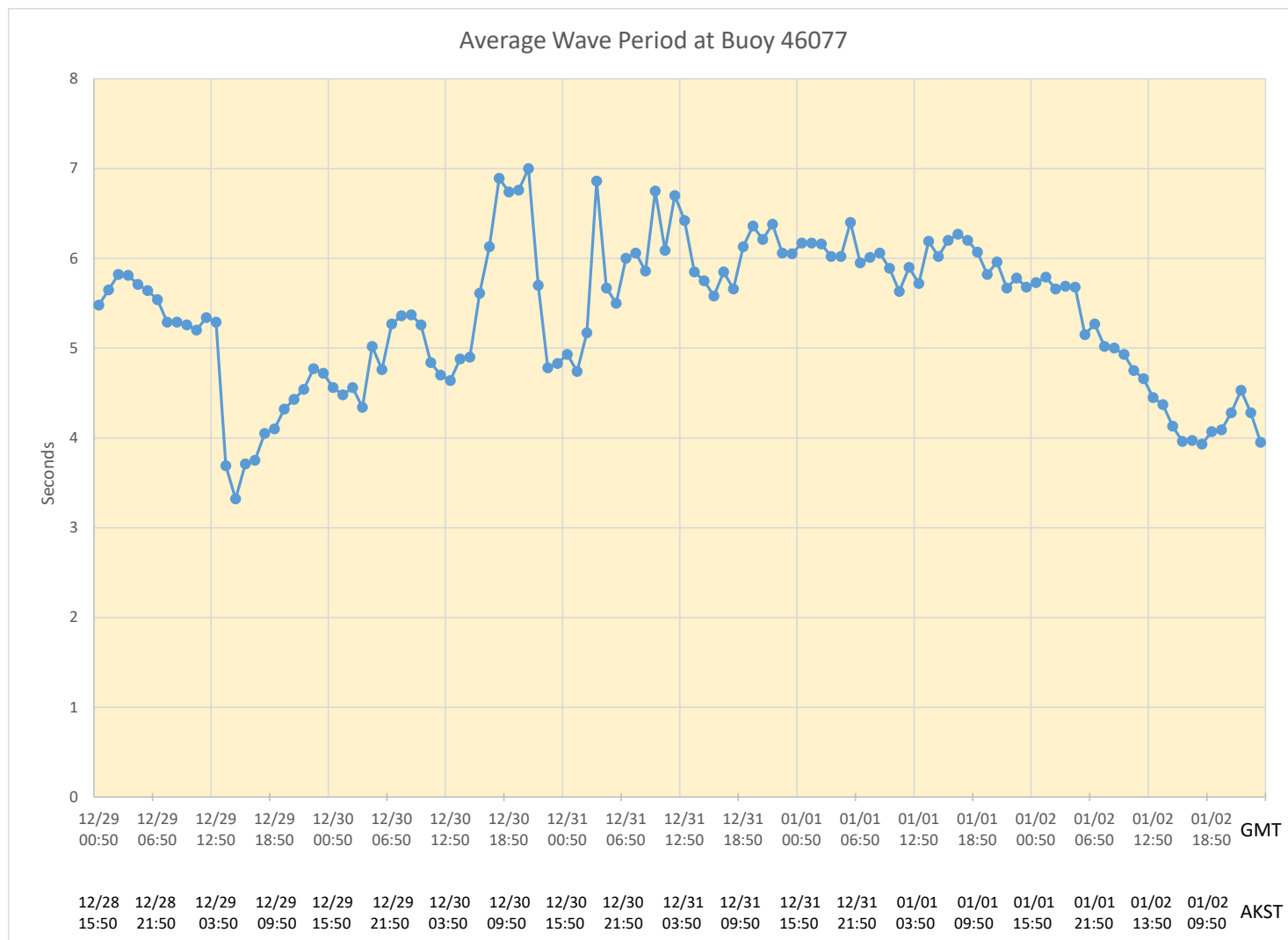


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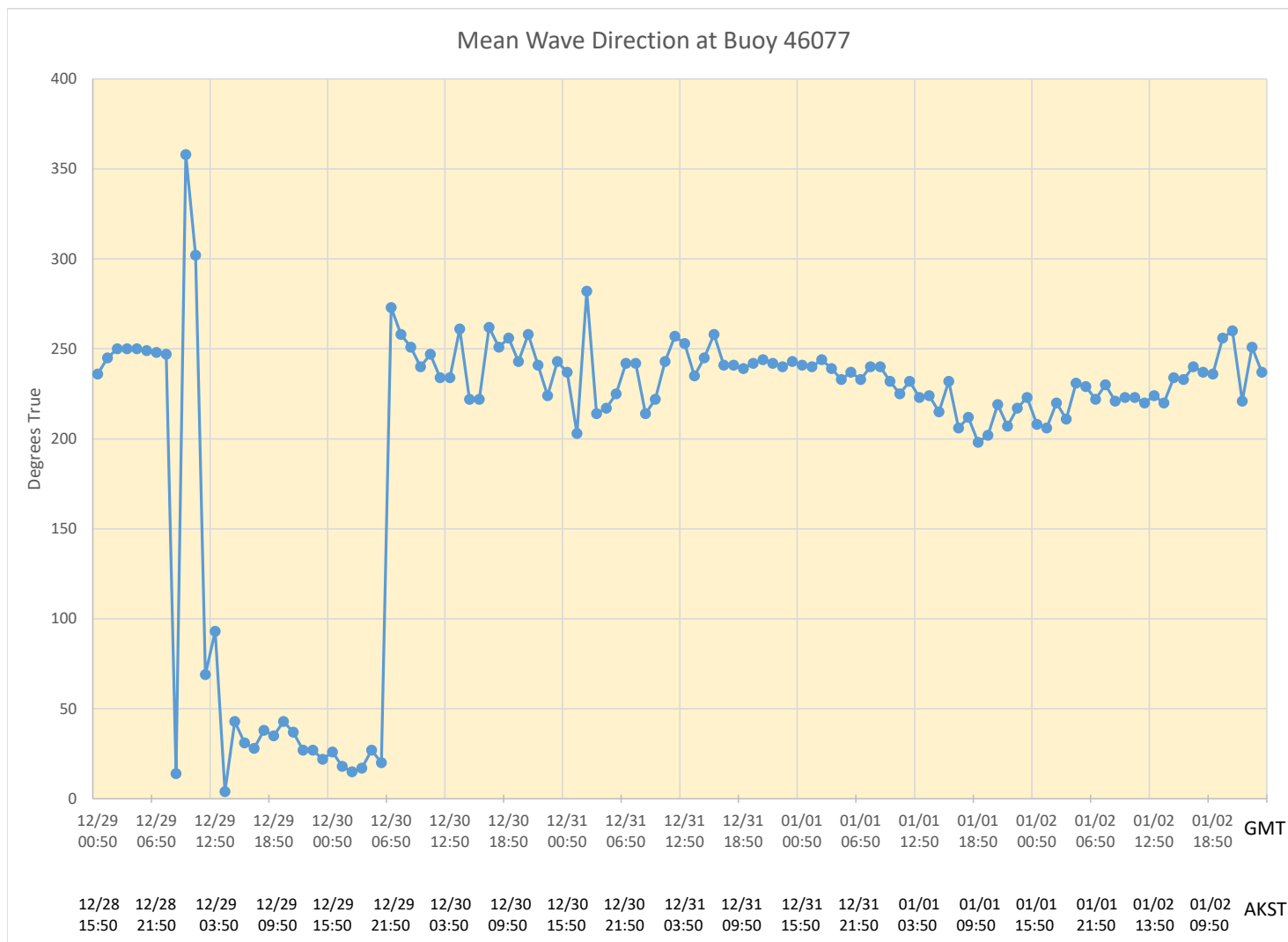


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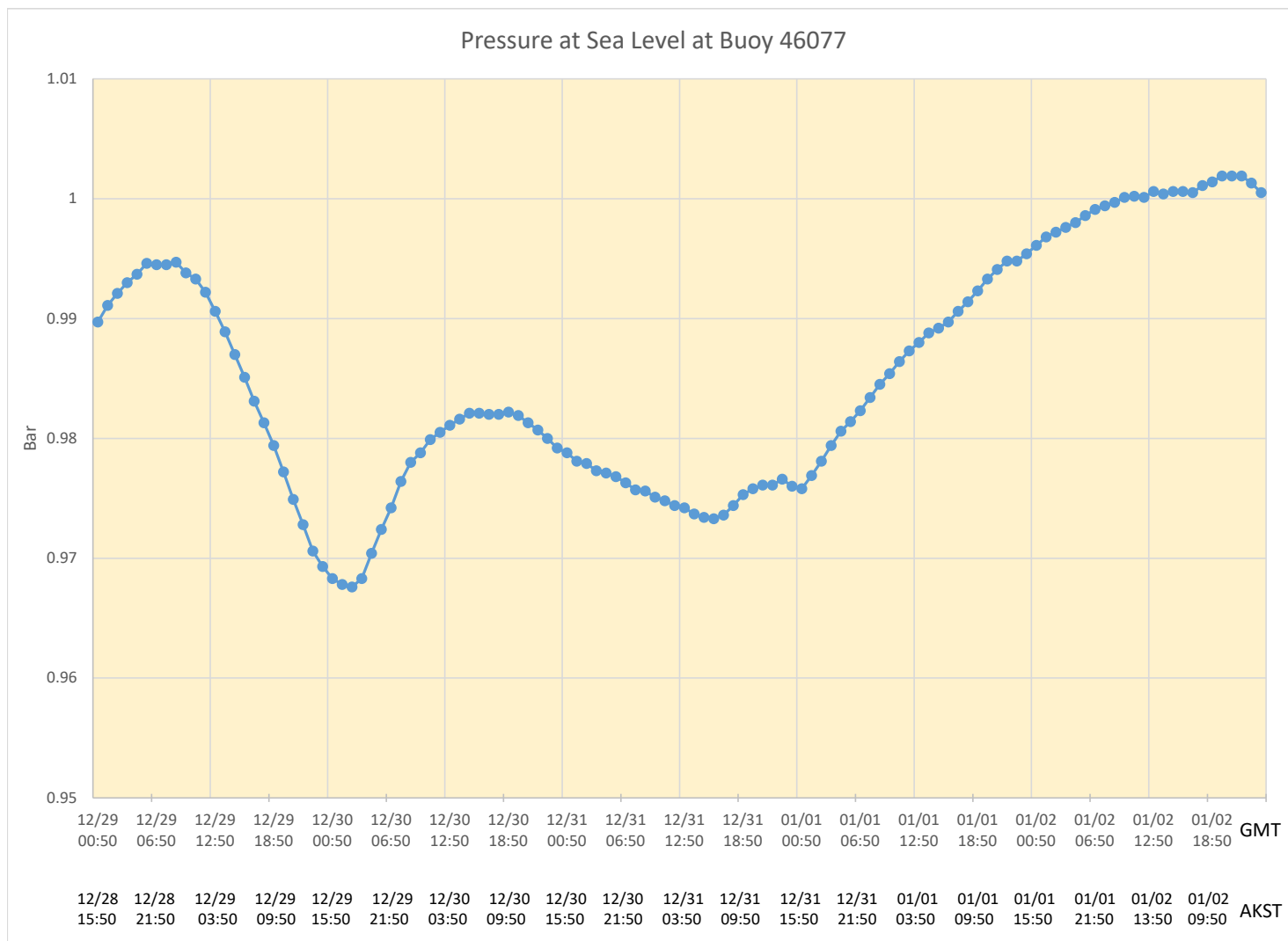




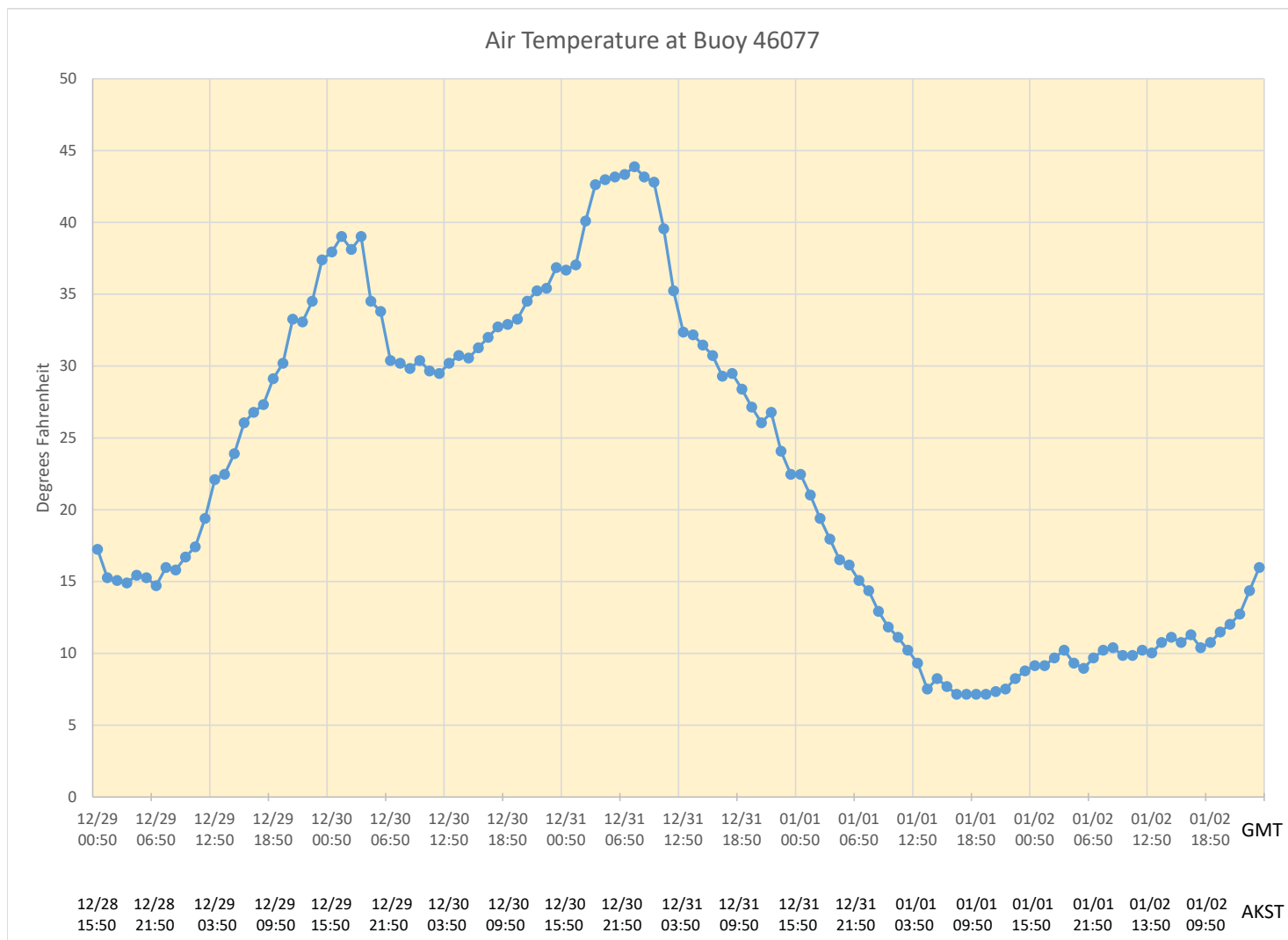
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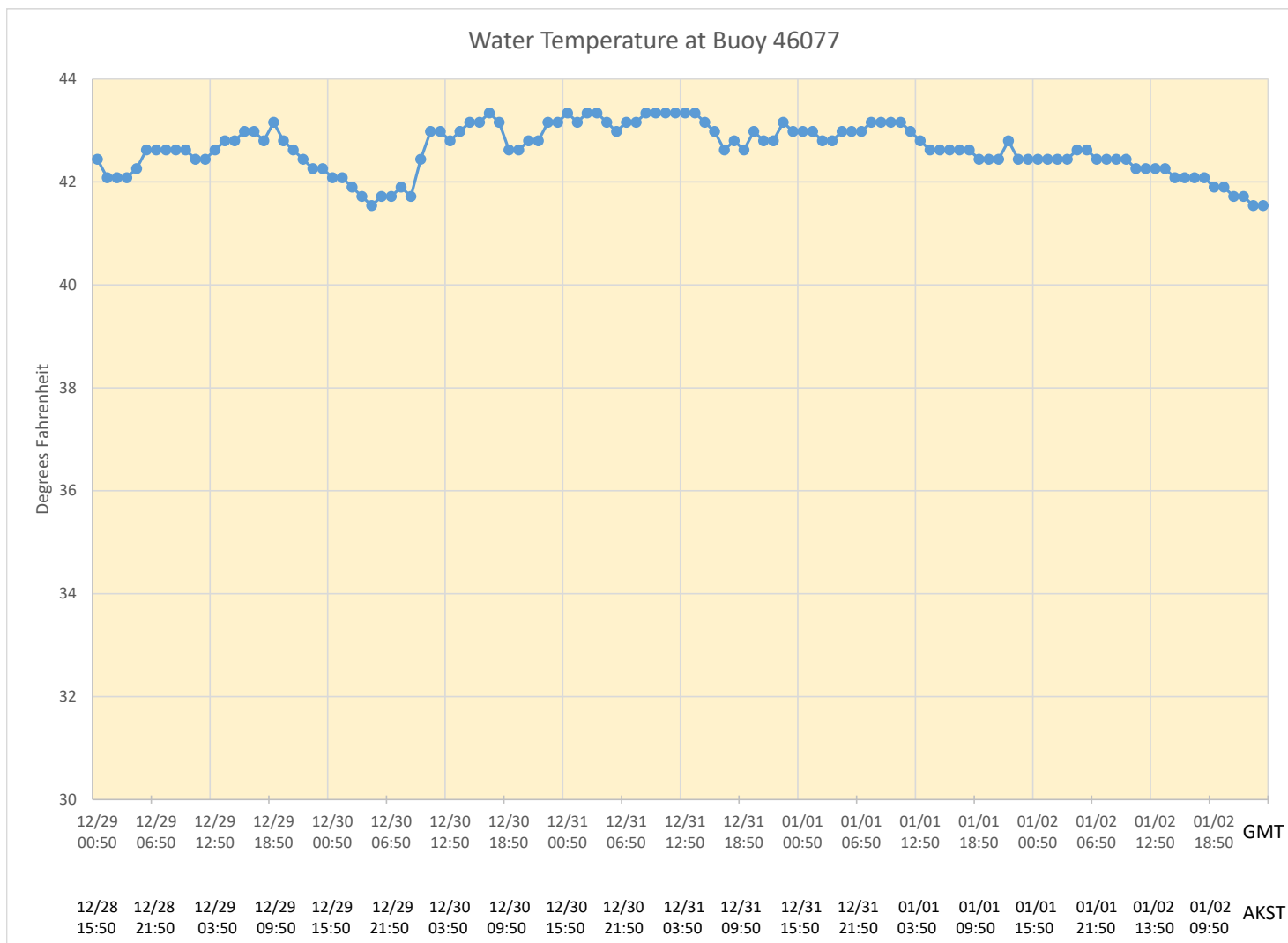
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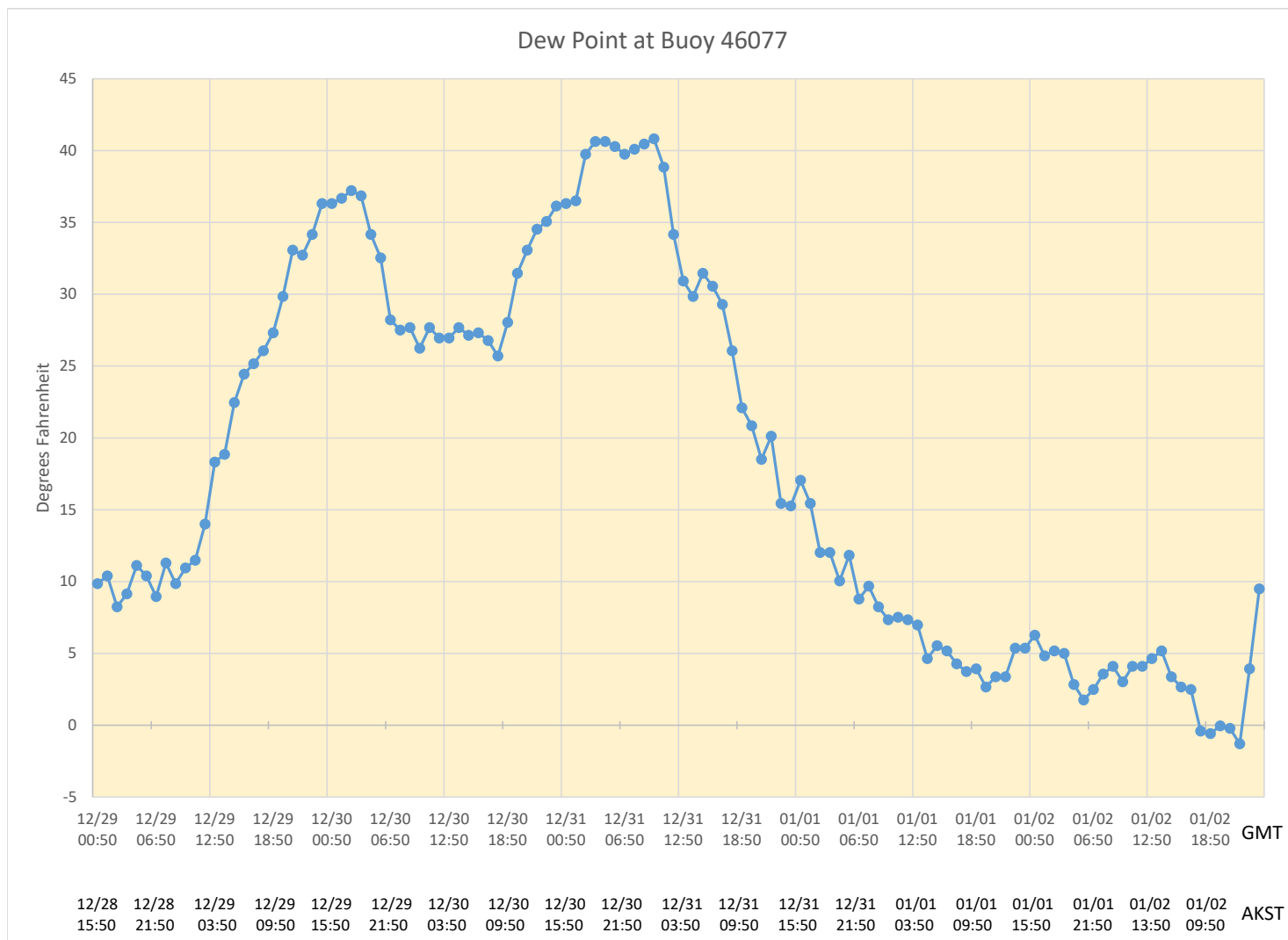
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https://www.ndbc.noaa.gov/station_history.php?station=46077



https://www.ndbc.noaa.gov/station_history.php?station=46077

Date time (GMT)	Wind Dir (degT)	Wind Speed (kts)	Gust (kts)	Wave height (ft)	Dominant wave period (s)	Avg wave period (s)	Mean Wave Dir (degT)	Sea Level Pressure (bar)	Air Temp (degF)	Water temp (degF)	Dew pt (degF)
12/29 00:50	217	21.382	25.7	5.3806	7.14	5.48	236	0.9897	17.24	42.44	9.86
12/29 01:50	218	19.827	26	5.479	6.25	5.65	245	0.9911	15.26	42.08	10.4
12/29 02:50	216	16.328	21.6	5.7087	6.67	5.82	250	0.9921	15.08	42.08	8.24
12/29 03:50	211	17.883	22.4	5.0525	6.67	5.81	250	0.993	14.9	42.08	9.14
12/29 04:50	234	14.773	21.4	4.8228	7.14	5.71	250	0.9937	15.44	42.26	11.12
12/29 05:50	230	15.745	21.6	4.9869	6.67	5.64	249	0.9946	15.26	42.62	10.4
12/29 06:50	231	13.996	20.4	4.9213	5.26	5.54	248	0.9945	14.72	42.62	8.96
12/29 07:50	226	12.246	16.9	4.1339	6.25	5.29	247	0.9945	15.98	42.62	11.3
12/29 08:50	236	6.9978	11.5	3.6417	12.12	5.29	14	0.9947	15.8	42.62	9.86
12/29 09:50	225	4.6652	8.55	3.4121	11.43	5.26	358	0.9938	16.7	42.62	10.94
12/29 10:50	162	4.6652	7.19	2.8543	10.81	5.2	302	0.9933	17.42	42.44	11.48
12/29 11:50	73	9.1361	12.8	2.4606	11.43	5.34	69	0.9922	19.4	42.44	14
12/29 12:50	53	15.356	20	2.0341	10	5.29	93	0.9906	22.1	42.62	18.32
12/29 13:50	35	21.771	25.7	3.0184	10.81	3.69	4	0.9889	22.46	42.8	18.86
12/29 14:50	32	26.242	30.7	3.4121	3.03	3.32	43	0.987	23.9	42.8	22.46
12/29 15:50	41	27.797	32.3	4.2979	4	3.71	31	0.9851	26.06	42.98	24.44
12/29 16:50	35	27.797	32.9	4.6916	4.55	3.75	28	0.9831	26.78	42.98	25.16
12/29 17:50	40	28.38	33	5.1837	4.35	4.05	38	0.9813	27.32	42.8	26.06
12/29 18:50	32	29.158	34.4	5.3478	4.76	4.1	35	0.9794	29.12	43.16	27.32
12/29 19:50	19	28.186	33.2	5.6759	5.26	4.32	43	0.9772	30.2	42.8	29.84
12/29 20:50	33	25.659	34	6.1352	5.56	4.43	37	0.9749	33.26	42.62	33.08
12/29 21:50	24	28.769	35.8	6.0367	5.56	4.54	27	0.9728	33.08	42.44	32.72
12/29 22:50	17	27.991	33	6.6601	6.25	4.77	27	0.9706	34.52	42.26	34.16
12/29 23:50	36	20.41	23.9	6.1024	6.25	4.72	22	0.9693	37.4	42.26	36.32
12/30 00:50	35	18.661	22.4	4.8885	5.88	4.56	26	0.9683	37.94	42.08	36.32
12/30 01:50	35	18.661	22	4.4291	6.25	4.48	18	0.9678	39.02	42.08	36.68
12/30 02:50	18	20.799	24.1	4.8556	5	4.56	15	0.9676	38.12	41.9	37.22
12/30 03:50	10	16.328	19.2	4.3307	7.69	4.34	17	0.9683	39.02	41.72	36.86
12/30 04:50	277	19.827	24.1	4.3963	8.33	5.02	27	0.9704	34.52	41.54	34.16
12/30 05:50	266	20.41	25.5	4.8228	9.09	4.76	20	0.9724	33.8	41.72	32.54
12/30 06:50	229	27.019	31.9	6.2008	6.67	5.27	273	0.9742	30.38	41.72	28.22
12/30 07:50	230	25.076	30.5	7.3491	7.14	5.36	258	0.9764	30.2	41.9	27.5
12/30 08:50	226	22.549	26.4	6.0039	6.67	5.37	251	0.978	29.84	41.72	27.68
12/30 09:50	226	24.881	29.5	5.4134	6.67	5.26	240	0.9788	30.38	42.44	26.24
12/30 10:50	235	21.771	26.6	5.0853	6.67	4.84	247	0.9799	29.66	42.98	27.68
12/30 11:50	237	19.633	22.5	4.9869	6.25	4.7	234	0.9805	29.48	42.98	26.96
12/30 12:50	238	17.3	21.8	4.2323	6.25	4.64	234	0.9811	30.2	42.8	26.96
12/30 13:50	242	13.218	16.3	4.0026	10.81	4.88	261	0.9816	30.74	42.98	27.68
12/30 14:50	248	7.9698	10.3	3.3465	11.43	4.9	222	0.9821	30.56	43.16	27.14
12/30 15:50	263	7.3866	9.52	3.1824	10	5.61	222	0.9821	31.28	43.16	27.32
12/30 16:50	269	5.054	6.8	3.248	10.81	6.13	262	0.982	32	43.34	26.78
12/30 17:50	312	5.2484	6.8	3.5433	10.81	6.89	251	0.982	32.72	43.16	25.7
12/30 18:50	53	6.0259	8.36	3.248	10.81	6.74	256	0.9822	32.9	42.62	28.04
12/30 19:50	42	10.108	13.2	2.6903	10	6.76	243	0.9819	33.26	42.62	31.46
12/30 20:50	39	15.356	18.1	2.6903	11.43	7	258	0.9813	34.52	42.8	33.08
12/30 21:50	32	17.689	21	3.1496	11.43	5.7	241	0.9807	35.24	42.8	34.52
12/30 22:50	28	17.689	21.8	3.4449	10.81	4.78	224	0.98	35.42	43.16	35.06
12/30 23:50	38	16.523	19.4	3.4777	10.81	4.83	243	0.9792	36.86	43.16	36.14

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https://www.ndbc.noaa.gov/view_text_file.php?filename=4607712020.txt.gz&dir=data/stdmet/Jan/

12/31 00:50	33	14.384	16.9	3.6089	11.43	4.93	237	0.9788	36.68	43.34	36.32
12/31 01:50	40	13.607	16.1	3.3136	12.12	4.74	203	0.9781	37.04	43.16	36.5
12/31 02:50	101	8.7473	10.9	3.0184	12.12	5.17	282	0.9779	40.1	43.34	39.74
12/31 03:50	157	13.218	15.9	3.5105	12.12	6.86	214	0.9773	42.62	43.34	40.64
12/31 04:50	169	12.635	15.6	3.4777	12.12	5.67	217	0.9771	42.98	43.16	40.64
12/31 05:50	173	13.607	15.9	3.7073	12.9	5.5	225	0.9768	43.16	42.98	40.28
12/31 06:50	182	12.829	16.3	3.8714	12.12	6	242	0.9763	43.34	43.16	39.74
12/31 07:50	178	16.911	21	4.1667	12.9	6.06	242	0.9757	43.88	43.16	40.1
12/31 08:50	182	15.745	19.6	4.1667	12.12	5.86	214	0.9756	43.16	43.34	40.46
12/31 09:50	175	11.469	14.6	5.1181	12.12	6.75	222	0.9751	42.8	43.34	40.82
12/31 10:50	238	9.1361	11.9	4.5932	12.12	6.09	243	0.9748	39.56	43.34	38.84
12/31 11:50	243	13.024	15.6	4.101	12.9	6.7	257	0.9744	35.24	43.34	34.16
12/31 12:50	245	14.773	17.3	4.4619	13.79	6.42	253	0.9742	32.36	43.34	30.92
12/31 13:50	241	14.773	18.5	4.3307	12.9	5.85	235	0.9737	32.18	43.34	29.84
12/31 14:50	246	14.968	17.7	4.8556	13.79	5.75	245	0.9734	31.46	43.16	31.46
12/31 15:50	237	17.106	20.4	4.6916	12.12	5.58	258	0.9733	30.74	42.98	30.56
12/31 16:50	240	19.05	22.5	5.6102	6.67	5.85	241	0.9736	29.3	42.62	29.3
12/31 17:50	236	21.577	25.3	5.7087	7.14	5.66	241	0.9744	29.48	42.8	26.06
12/31 18:50	246	21.188	25.5	6.6929	7.69	6.13	239	0.9753	28.4	42.62	22.1
12/31 19:50	246	22.937	28.4	7.9724	7.69	6.36	242	0.9758	27.14	42.98	20.84
12/31 20:50	249	23.715	27.6	8.6942	7.14	6.21	244	0.9761	26.06	42.8	18.5
12/31 21:50	255	22.354	27.2	9.0223	7.69	6.38	242	0.9761	26.78	42.8	20.12
12/31 22:50	244	22.549	26.6	8.2677	8.33	6.06	240	0.9766	24.08	43.16	15.44
12/31 23:50	244	26.631	33.6	9.0879	7.69	6.05	243	0.976	22.46	42.98	15.26
01/01 00:50	244	28.769	35.2	8.9239	8.33	6.17	241	0.9758	22.46	42.98	17.06
01/01 01:50	259	30.713	37.9	10.466	8.33	6.17	240	0.9769	21.02	42.98	15.44
01/01 02:50	259	29.935	37.1	9.9409	8.33	6.16	244	0.9781	19.4	42.8	12.02
01/01 03:50	252	27.797	35.8	9.8425	8.33	6.02	239	0.9794	17.96	42.8	12.02
01/01 04:50	253	31.685	39.7	9.3832	9.09	6.02	233	0.9806	16.52	42.98	10.04
01/01 05:50	256	29.741	36.5	9.1535	9.09	6.4	237	0.9814	16.16	42.98	11.84
01/01 06:50	258	26.436	32.7	8.4318	9.09	5.95	233	0.9823	15.08	42.98	8.78
01/01 07:50	259	27.408	34.6	8.7927	7.69	6.01	240	0.9834	14.36	43.16	9.68
01/01 08:50	257	30.13	38.3	9.3176	7.14	6.06	240	0.9845	12.92	43.16	8.24
01/01 09:50	266	27.408	34.8	8.3005	7.69	5.89	232	0.9854	11.84	43.16	7.34
01/01 10:50	257	26.631	36	8.0709	7.69	5.63	225	0.9864	11.12	43.16	7.52
01/01 11:50	252	29.352	36.9	9.0551	8.33	5.9	232	0.9873	10.22	42.98	7.34
01/01 12:50	254	30.324	38.1	8.7598	9.09	5.72	223	0.988	9.32	42.8	6.98
01/01 13:50	258	32.073	39.3	9.7113	8.33	6.19	224	0.9888	7.52	42.62	4.64
01/01 14:50	263	30.907	39.1	9.8753	8.33	6.02	215	0.9892	8.24	42.62	5.54
01/01 15:50	260	30.324	37.7	10.663	7.69	6.2	232	0.9897	7.7	42.62	5.18
01/01 16:50	257	28.963	37.1	10.236	8.33	6.27	206	0.9906	7.16	42.62	4.28
01/01 17:50	261	25.659	32.3	9.9738	7.69	6.2	212	0.9914	7.16	42.62	3.74
01/01 18:50	263	25.464	33.6	9.1864	8.33	6.07	198	0.9923	7.16	42.44	3.92
01/01 19:50	260	23.715	30.5	8.3661	8.33	5.82	202	0.9933	7.16	42.44	2.66
01/01 20:50	261	26.825	32.1	8.399	7.69	5.96	219	0.9941	7.34	42.44	3.38
01/01 21:50	263	28.38	33.6	7.4475	7.69	5.67	207	0.9948	7.52	42.8	3.38
01/01 22:50	260	31.296	38.1	8.2349	7.14	5.78	217	0.9948	8.24	42.44	5.36
01/01 23:50	257	29.546	36.9	8.5302	7.14	5.68	223	0.9954	8.78	42.44	5.36
01/02 00:50	252	29.352	36.5	8.2021	7.14	5.73	208	0.9961	9.14	42.44	6.26
01/02 01:50	257	31.685	40.2	9.416	7.14	5.79	206	0.9968	9.14	42.44	4.82
01/02 02:50	256	32.462	42.4	8.7927	7.14	5.66	220	0.9972	9.68	42.44	5.18
01/02 03:50	260	32.851	42.8	9.4488	6.67	5.69	211	0.9976	10.22	42.44	5

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https://www.ndbc.noaa.gov/view_text_file.php?filename=4607712020.txt.gz&dir=data/stdmet/Jan/

01/02 04:50	251	33.823	41.6	8.727	7.14	5.68	231	0.998	9.32	42.62	2.84
01/02 05:50	253	30.907	40.2	6.4633	7.14	5.15	229	0.9986	8.96	42.62	1.76
01/02 06:50	259	27.408	35.8	7.0538	7.14	5.27	222	0.9991	9.68	42.44	2.48
01/02 07:50	258	26.631	32.3	6.2664	6.67	5.02	230	0.9994	10.22	42.44	3.56
01/02 08:50	246	27.214	34.6	6.3648	6.67	5	221	0.9997	10.4	42.44	4.1
01/02 09:50	245	25.076	32.9	6.5289	6.25	4.93	223	1.0001	9.86	42.44	3.02
01/02 10:50	233	23.909	30.1	6.0039	6.25	4.75	223	1.0002	9.86	42.26	4.1
01/02 11:50	239	25.27	37.1	5.479	5.88	4.66	220	1.0001	10.22	42.26	4.1
01/02 12:50	236	21.382	28	5.1181	5.56	4.45	224	1.0006	10.04	42.26	4.64
01/02 13:50	244	21.577	26.8	4.3963	5.56	4.37	220	1.0004	10.76	42.26	5.18
01/02 14:50	246	20.799	25.7	4.0682	5.56	4.13	234	1.0006	11.12	42.08	3.38
01/02 15:50	257	16.717	23.1	3.4449	5	3.96	233	1.0006	10.76	42.08	2.66
01/02 16:50	255	13.607	18.5	2.9856	4.76	3.97	240	1.0005	11.3	42.08	2.48
01/02 17:50	261	7.3866	14	2.6247	4.55	3.93	237	1.0011	10.4	42.08	-0.4
01/02 18:50	255	6.0259	9.72	2.1982	4.55	4.07	236	1.0014	10.76	41.9	-0.58
01/02 19:50	262	4.0821	7.39	1.706	4	4.09	256	1.0019	11.48	41.9	-0.04
01/02 20:50	309	4.8596	9.14	1.542	4.35	4.28	260	1.0019	12.02	41.72	-0.22
01/02 21:50	35	3.1102	7.19	1.542	6.67	4.53	221	1.0019	12.74	41.72	-1.3
01/02 22:50	52	9.3305	12.6	1.542	10.81	4.28	251	1.0013	14.36	41.54	3.92
01/02 23:50	49	14.968	19.4	1.5092	10	3.95	237	1.0005	15.98	41.54	9.5
01/03 00:50	66	16.911	21.2	1.9357	2.74	3.02	68	0.9997	17.06	41.72	8.78
01/03 01:50	81	18.855	23.7	2.5591	3.33	3.22	91	0.9995	17.6	41.72	12.2
01/03 02:50	79	20.022	24.3	3.0184	3.7	3.39	83	0.9993	18.5	41.72	12.02
01/03 03:50	74	21.188	27.2	2.9856	4	3.49	68	0.9991	19.4	41.72	13.46
01/03 04:50	72	22.16	27.4	3.3793	4	3.61	51	0.9989	20.48	41.54	14.54
01/03 05:50	71	20.605	29.4	3.4121	4	3.57	59	0.9987	21.38	41.72	14.72
01/03 06:50	58	23.132	28.6	3.9042	4.17	3.73	55	0.9982	22.28	41.9	15.08
01/03 07:50	60	22.937	28.8	4.101	4.17	3.72	68	0.9978	23.54	41.72	15.8
01/03 08:50	69	22.16	27	4.2323	4.35	3.78	59	0.9972	24.98	41.9	15.8
01/03 09:50	60	27.019	33.2	4.4948	4.35	3.83	65	0.9962	26.24	42.08	16.7
01/03 10:50	37	29.935	36	6.0367	5	4.1	36	0.9953	25.7	42.08	23.9
01/03 11:50	58	30.907	37.3	6.7913	5.56	4.51	11	0.995	27.86	42.62	21.74
01/03 12:50	47	30.907	38.3	6.857	5.56	4.57	357	0.994	28.76	42.8	21.74
01/03 13:50	38	34.017	42.4	8.2021	6.25	5.06	340	0.9933	27.86	42.98	23.72
01/03 14:50	39	32.268	42.8	8.9239	7.14	5.14	11	0.9925	29.3	42.98	23.72
01/03 15:50	28	35.184	43	9.416	7.14	5.39	39	0.9919	28.4	42.98	25.7
01/03 16:50	37	35.184	43.9	9.7113	6.25	5.43	31	0.9913	28.58	42.8	26.78
01/03 17:50	34	37.127	45.9	9.8097	7.14	5.35	44	0.9908	28.58	42.98	25.52
01/03 18:50	28	36.544	45.7	11.319	7.69	5.86	64	0.991	29.12	42.8	26.78
01/03 19:50	21	37.127	46.7	10.4	8.33	5.82	38	0.9909	30.02	42.8	24.98
01/03 20:50	21	36.933	44.7	10.827	7.69	5.88	37	0.9906	29.66	42.44	24.26
01/03 21:50	16	36.544	43.9	11.22	9.09	6.1	36	0.9906	28.4	41.54	26.24
01/03 22:50	20	35.767	45.3	9.5472	9.09	5.47	40	0.9906	28.94	41.54	23.54
01/03 23:50	23	35.572	42.2	10.007	7.69	5.59	32	0.9907	28.76	41.54	22.64

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