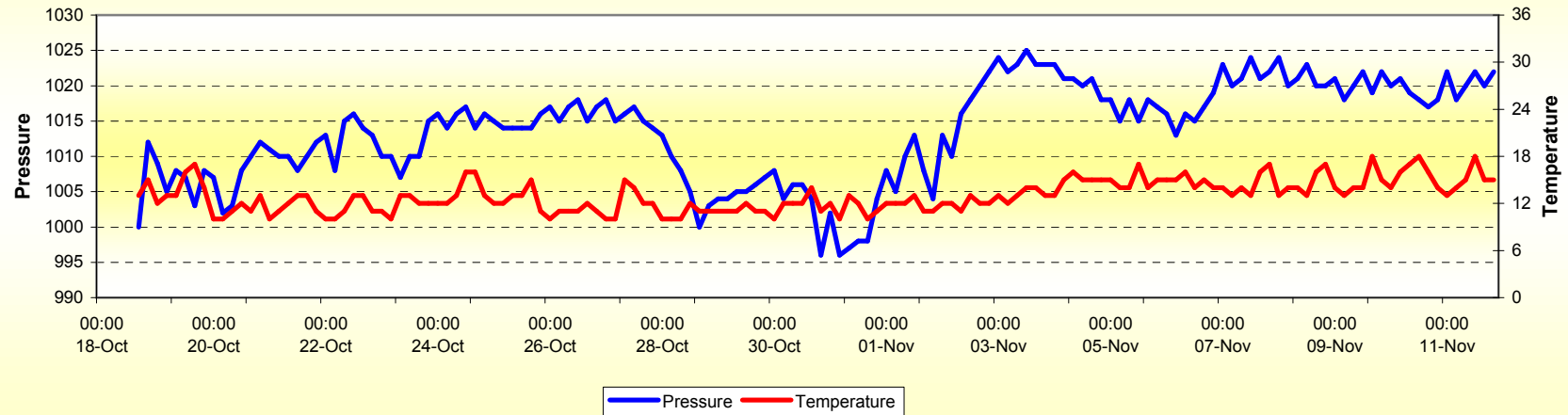
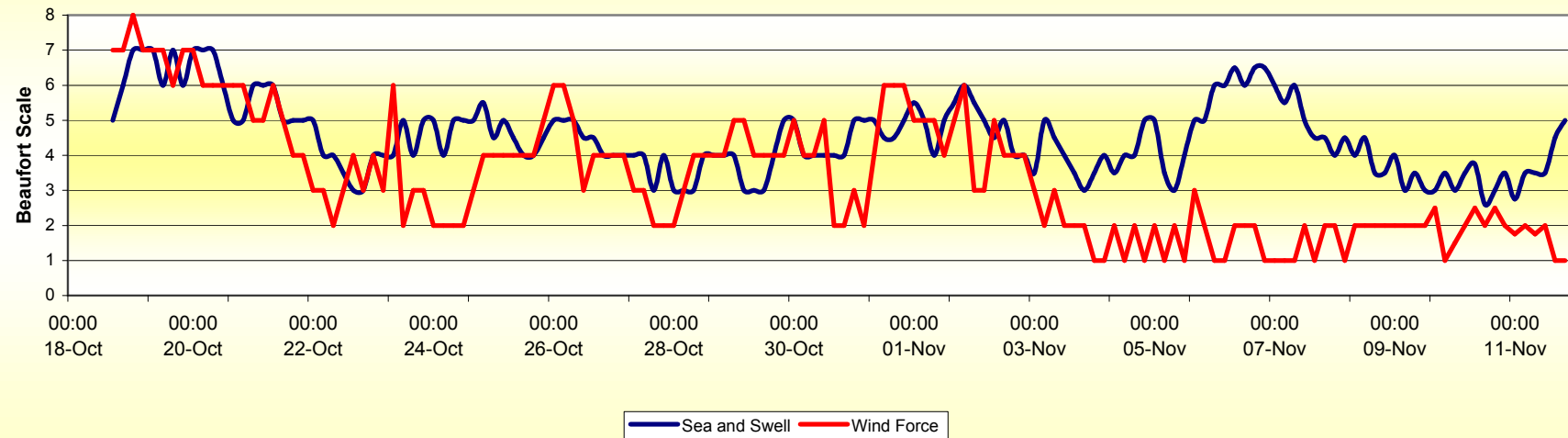


Antares 2003 3D MSS

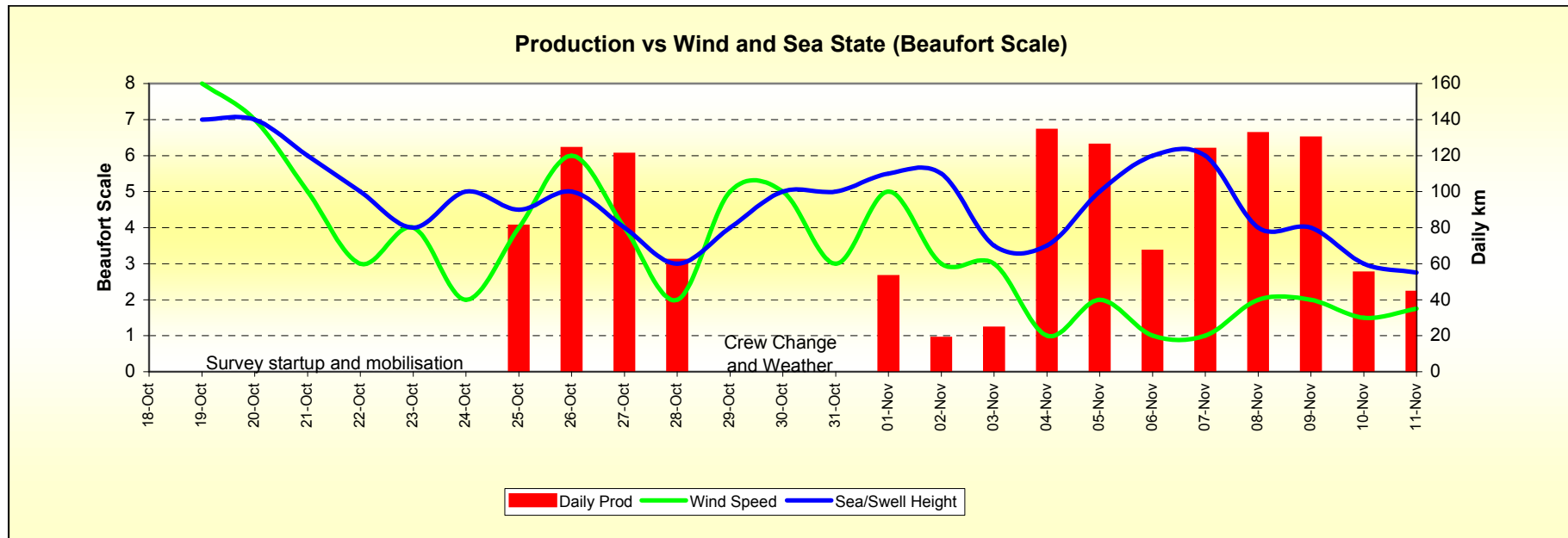
October- November Temperature and Barometric Pressure Data



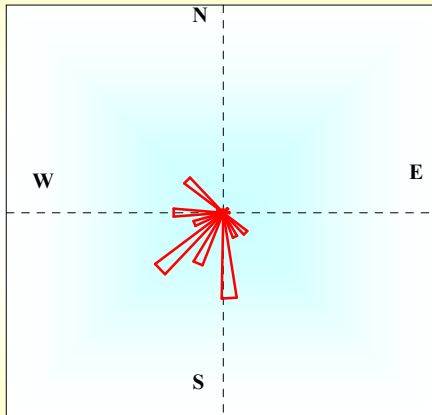
Sea and Swell -vs Wind Force (Beaufort Scale)



Antares 2003 3D MSS Weather and Sea Observations



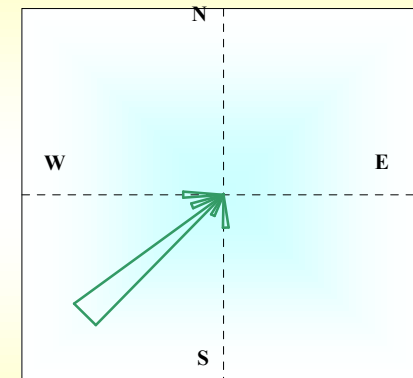
October - November Wind Direction



Beaufort Scale

Force	Wind Force	Height of Waves
0	0-1 knot	Calm
1	1-3 knots	0.1m
2	4-6 knots	0.2 to 0.3m
3	7-10 knots	0.6 to 1.0m
4	11-16 knots	1.0m to 1.5m
5	17-21 knots	2.0 to 2.5m
6	22-27 knots	3.0 to 4.0m
7	28-33 knots	4.0 to 5.5m
8	34-40 knots	5.5 to 7.5m

October - November Swell Direction



Date	Time	Pressure	Temperature	Wind Force	Wind Dir	Sea and Swell	Sea Dir
18-Oct	00:00						
	04:00						
	08:00						
	12:00						
	16:00	1000	13	7	sw	5	WSW
	20:00	1012	15	7	WSW	6	WSW
19-Oct	00:00	1009	12	8	nw	7	w
	04:00	1005	13	7	nw	7	w
	08:00	1008	13	7	nw	7	w
	12:00	1007	16	7	nw	6	w
	16:00	1003	17	6	nw	7	w
	20:00	1008	14	7	nw	6	w
20-Oct	00:00	1007	10	7	nw	7	w
	04:00	1002	10	6	nw	7	w
	08:00	1003	11	6	nw	7	w
	12:00	1008	12	6	w	6	w
	16:00	1010	11	6	w	5	WSW
	20:00	1012	13	6	w	5	WSW
21-Oct	00:00	1011	10	5	s	6	WSW
	04:00	1010	11	5	w	6	w
	08:00	1010	12	6	WSW	6	WSW
	12:00	1008	13	5	w	5	WSW
	16:00	1010	13	4	w	5	w
	20:00	1012	11	4	WSW	5	w
22-Oct	00:00	1013	10	3	w	5	w
	04:00	1008	10	3	w	4	w
	08:00	1015	11	2	w	4	w
	12:00	1016	13	3	sw	3.5	w
	16:00	1014	13	4	ne	3	WSW
	20:00	1013	11	3	nw	3	WSW
23-Oct	00:00	1010	11	4	nw	4	WSW
	04:00	1010	10	3	s	4	WSW
	08:00	1007	13	6	wnw	4	WSW
	12:00	1010	13	2	s	5	WSW
	16:00	1010	12	3	s	4	WSW
	20:00	1015	12	3	se	5	SW
24-Oct	00:00	1016	12	2	se	5	SW
	04:00	1014	12	2	se	4	SW
	08:00	1016	13	2	s	5	SW
	12:00	1017	16	2	se	5	SW
	16:00	1014	16	3	se	5	SW
	20:00	1016	13	4	s	5.5	SW
25-Oct	00:00	1015	12	4	se	4.5	s
	04:00	1014	12	4	se	5	s
	08:00	1014	13	4	se	4.5	s
	12:00	1014	13	4	se	4	s
	16:00	1014	15	4	SSW	4	s
	20:00	1016	11	5	s	4.5	s
26-Oct	00:00	1017	10	6	s	5	w
	04:00	1015	11	6	SSW	5	SSW
	08:00	1017	11	5	sw	5	WW
	12:00	1018	11	3	sw	4.5	SSW
	16:00	1015	12	4	sw	4.5	SSW
	20:00	1017	11	4	sw	4	SSW
27-Oct	00:00	1018	10	4	sw	4	SSW
	04:00	1015	10	4	sw	4	SSW
	08:00	1016	15	3	WSW	4	SSW
	12:00	1017	14	3	WSW	4	SSW
	16:00	1015	12	2	sw	3	sw
	20:00	1014	12	2	sw	4	SSW

Daily Prod Accum Prod

80.4188 80.4188

123.6375 204.0563

120.4313 324.4875

28-Oct	00:00	1013	10	2	sw	3	ssw	61.4250	385.9125
	04:00	1010	10	3	se	3	ssw		
	08:00	1008	10	4	ne	3	s		
	12:00	1005	12	4	e	4	s		
	16:00	1000	11	4	e	4	s		
	20:00	1003	11	4	s	4	s		
29-Oct	00:00	1004	11	5	s	4	s	52.4625	438.3750
	04:00	1004	11	5	ssw	3	s		
	08:00	1005	11	4	sw	3	s		
	12:00	1005	12	4	sw	3	s		
	16:00	1006	11	4	sse	4	sw		
	20:00	1007	11	4	sse	5	s		
30-Oct	00:00	1008	10	5	ssw	5	sw	18.1500	456.5250
	04:00	1004	12	4	wsW	4	sw		
	08:00	1006	12	4	wsW	4	sw		
	12:00	1006	12	5	wnw	4	sw		
	16:00	1004	14	2	nw	4	sw		
	20:00	996	11	2	nw	4	sw		
31-Oct	00:00	1002	12	3	nnw	5	sw	23.9250	480.4500
	04:00	996	10	2	nw	5	sw		
	08:00	997	13	4	w	5	sw		
	12:00	998	12	6	ssw	4.5	sw		
	16:00	998	10	6	sw	4.5	sw		
	20:00	1004	11	6	sw	5	sw		
01-Nov	00:00	1008	12	5	sw	5.5	sw	133.6875	614.1375
	04:00	1005	12	5	wsW	5	sw		
	08:00	1010	12	5	sw	4	wsW		
	12:00	1013	13	4	wsW	5	sw		
	16:00	1008	11	5	w	5.5	sw		
	20:00	1004	11	6	w	6	sw		
02-Nov	00:00	1013	12	3	sw	5.5	s	125.4375	739.5750
	04:00	1010	12	3	sw	5	sw		
	08:00	1016	11	5	ssw	4.5	sw		
	12:00	1018	13	4	ssw	5	sw		
	16:00	1020	12	4	w	4	sw		
	20:00	1022	12	4	sw	4	sw		
03-Nov	00:00	1024	13	3	sw	3.5	sw	66.4875	806.0625
	04:00	1022	12	2	ssw	5	sw		
	08:00	1023	13	3	wsW	4.5	sw		
	12:00	1025	14	2	w	4	sw		
	16:00	1023	14	2	w	3.5	sw		
	20:00	1023	13	2	w	3	sw		
04-Nov	00:00	1023	13	1	n	3.5	sw	123.1313	929.1938
	04:00	1021	15	1	nw	4	sw		
	08:00	1021	16	2	nw	3.5	sw		
	12:00	1020	15	1	sse	4	sw		
	16:00	1021	15	2	sse	4	sw		
	20:00	1018	15	1	sse	5	sw		
05-Nov	00:00	1018	15	2	sse	5	sw	61.4250	385.9125
	04:00	1015	14	1	s	3.5	sw		
	08:00	1018	14	2	s	3	sw		
	12:00	1015	17	1	s	4	sw		
	16:00	1018	14	3	s	5	sw		
	20:00	1017	15	2	s	5	sw		
06-Nov	00:00	1016	15	1	ssw	6	sw	61.4250	385.9125
	04:00	1013	15	1	sw	6	sw		
	08:00	1016	16	2	sw	6.5	sw		
	12:00	1015	14	2	s	6	sw		
	16:00	1017	15	2	sw	6.5	sw		
	20:00	1019	14	1	sw	6.5	sw		
	00:00	1023	14	1	ssw	6	sw		

07-Nov	04:00	1020	13	1	s	5.5	SW	131.8500	1061.0438
	08:00	1021	14	1	s	6	SW		
	12:00	1024	13	2	s	5	SW		
	16:00	1021	16	1	SSW	4.5	SW		
	20:00	1022	17	2	SSW	4.5	SW		
08-Nov	00:00	1024	13	2	s	4	SW	129.3938	1190.4375
	04:00	1020	14	1	SSW	4.5	SW		
	08:00	1021	14	2	SSS	4	SW		
	12:00	1023	13	2	s	4.5	SW		
	16:00	1020	16	2	SSW	3.5	SW		
	20:00	1020	17	2	SSW	3.5	SW		
09-Nov	00:00	1021	14	2	sse	4	SW	54.4868	1244.9243
	04:00	1018	13	2	SSW	3	SW		
	08:00	1020	14	2	s	3.5	SW		
	12:00	1022	14	2	s	3	SW		
	16:00	1019	18	2.5	s	3	SW		
	20:00	1022	15	1	s	3.5	SW		
10-Nov	00:00	1020	14	1.5	s	3	SW	43.7815	1288.7058
	04:00	1021	16	2	s	3.5	SW		
	08:00	1019	17	2.5	SSW	3.75	SW		
	12:00	1018	18	2	SSW	2.6	SW		
	16:00	1017	16	2.5	SW	3	SW		
	20:00	1018	14	2	SW	3.5	SW		
11-Nov	00:00	1022	13	1.75	SSW	2.75	SW		
	04:00	1018	14	2	SW	3.5	SW		
	08:00	1020	15	1.75	s	3.5	SW		
	12:00	1022	18	2	sse	3.5	SW		
	16:00	1020	15	1	s	4.5	SW		
	20:00	1022	15	1	sse	5	SW		
12-Nov	00:00								
	04:00								
	08:00								
	12:00								
	16:00								
	20:00								

October-November 2003							
DIRECTION	COUNT	X VALUE	Y VALUE	DIRECTION	COUNT	X VALUE	Y VALUE
Wind				Swell			
N	1	0	0	N	0	0	0
	0	-0.01671	0.99986		0	0	0
	0	0.149829	0.988712		0	0	0
	0	0	0		0	0	0
	0				0		
NNE	0	0	0	NNE	0	0	0
	0	0	0		0	0	0
	0	0	0		0	0	0
	0	0	0		0	0	0
	0				0		
NE	2	0	0	NE	0	0	0
	0	1.341569	1.483304		0	0	0
	0	1.569599	1.2395		0	0	0
	0	0	0		0	0	0
	0				0		
ENE	0	0	0	ENE	0	0	0
	0	0	0		0	0	0
	3	0	0		0	0	0
	0	0	0		0	0	0
	0				0		
E	2	0	0	E	0	0	0
	0	1.993023	-0.166912		0	0	0
	0	1.993023	0.166912		0	0	0
	0	0	0		0	0	0
	0				0		
ESE	0	0	0	ESE	0	0	0
	0	0	0		0	0	0
	0	0	0		0	0	0
	0	0	0		0	0	0
	0				0		
SE	10	0	0	SE	0	0	0
	0	6.707847	-7.416521		0	0	0
	0	7.847994	-6.197499		0	0	0
	0	0	0		0	0	0
	0				0		
SSE	9	0	0	SSE	0	0	0
	0	3.164385	-8.425359		0	0	0
	0	4.52169	-7.781665		0	0	0
	0	0	0		0	0	0
	0				0		
S	29	0	0	S	16	0	0
	0	-0.484585	-28.99595		0	-0.267357	-15.99777
	0	4.345043	-28.67265		0	2.397265	-15.81939
	0	0	0		0	0	0
	0				0		
SSW	19	0	0	SSW	11	0	0
	0	-6.680368	-17.78687		0	-3.867581	-10.29766
	0	-9.54579	-16.42796		0	-5.52651	-9.510924
	0	0	0		0	0	0
	0				0		
SW	28	0	0	SW	85	0	0
	0	-18.78197	-20.76626		0	-57.0167	-63.04043
	0	-21.97438	-17.353		0	-66.70795	-52.67874
	0	0	0		0	0	0
	0				0		
WSW	10	0	0	WSW	15	0	0
	0	-8.96256	-4.435372		0	-13.44384	-6.653058
	0	-9.575446	-2.882852		0	-14.36317	-4.324277

	0	0	0		0	0	0
	0				0		
W	16	0	0	W	18	0	0
	0	-15.94418	-1.335293		0	-17.93721	-1.502205
	0	-15.94418	1.335293		0	-17.93721	1.502205
	0	0	0		0	0	0
	0				0		
WNW	2	0	0	WNW	0	0	0
	0	-1.792512	0.887074		0	0	0
	0	-1.915089	0.57657		0	0	0
	0	0	0		0	0	0
	0				0		
NW	16	0	0	NW	0	0	0
	0	-10.73256	11.86643		0	0	0
	0	-12.55679	9.915998		0	0	0
	0	0	0		0	0	0
	0				0		
NNW	1	0	0	NNW	0	0	0
	0	-0.351598	0.936151		0	0	0
	0	-0.50241	0.864629		0	0	0
	0	0	0		0	0	0