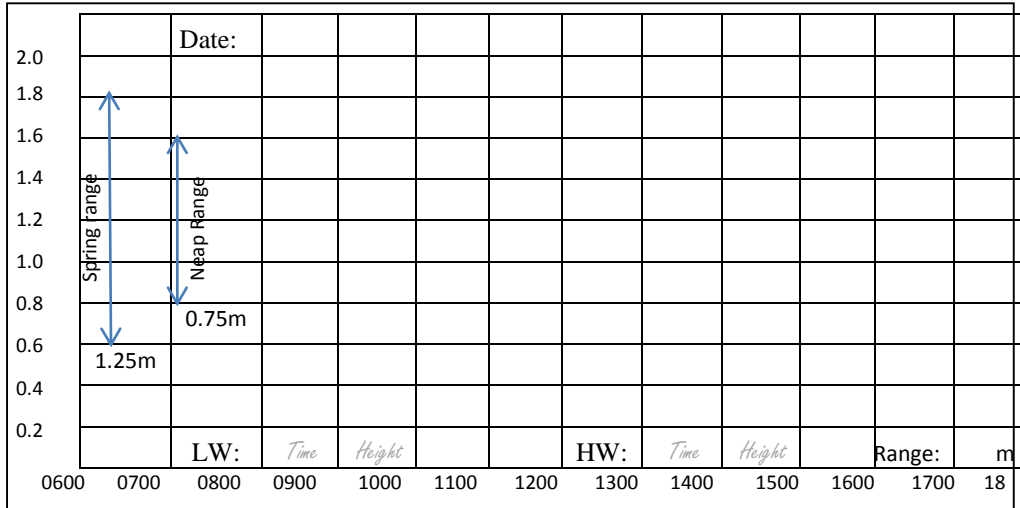


NSW SEA KAYAK CLUB: NAVIGATION DATA SHEET

Forecast:

Time: **Wind** **Sea** **Swell**

Generic Tidal Curve, Fort Denison NSW



Omnibus Tide Formulae

Hours after slack	1 st hour	2 nd	3 rd	4 th	5 th	6 th
50/90 Rule: Speed	Slack	50%	90%	100%	90%	50% Slack
Rule of Thirds: Distance displaced	1/3 of rate	2/3	3/3	3/3	2/3	1/3
Rule of Twelfths: Height	Rise 1/12 of range	2/12	3/12	3/12	2/12	1/12

Distance (nm) by vertical angle

		<i>Insert known heights here:</i>													
		<i>Hornby Lt</i> 27m							<i>Macquarie Lt</i> 105m			<i>Barrenjoey Lt</i> 114m			
		Height in metres													
		20	30	40	50	60	70	80	90	100	110	120	130	140	150
Angle (degrees)	1	0.62	0.93	1.24	1.55	1.86	2.16	2.47	2.78	3.09	3.40	3.71	4.02	4.33	4.64
	2	0.31	0.46	0.62	0.77	0.93	1.08	1.24	1.39	1.55	1.70	1.85	2.01	2.16	2.32
	3	0.21	0.31	0.41	0.51	0.62	0.72	0.82	0.93	1.03	1.13	1.24	1.34	1.44	1.54
	4	0.15	0.23	0.31	0.39	0.46	0.54	0.62	0.69	0.77	0.85	0.93	1.00	1.08	1.16
	5	0.12	0.19	0.25	0.31	0.37	0.43	0.49	0.56	0.62	0.68	0.74	0.80	0.86	0.93
	6	0.10	0.15	0.21	0.26	0.31	0.36	0.41	0.46	0.51	0.56	0.62	0.67	0.72	0.77
	7	0.09	0.13	0.18	0.22	0.26	0.31	0.35	0.40	0.44	0.48	0.53	0.57	0.62	0.66
	8	0.08	0.12	0.15	0.19	0.23	0.27	0.31	0.35	0.38	0.42	0.46	0.50	0.54	0.58
	9	0.07	0.10	0.14	0.17	0.20	0.24	0.27	0.31	0.34	0.37	0.41	0.44	0.48	0.51
	10	0.06	0.09	0.12	0.15	0.18	0.21	0.24	0.28	0.31	0.34	0.37	0.40	0.43	0.46
		<i>Insert known heights here:</i>													
		160	170	180	190	200	250	300	400	500	600	700	800	900	1000
Angle (degrees)	1	4.95	5.26	5.57	5.87	6.18	7.73	9.28	12.37	15.46	18.55	21.64	24.73	27.83	30.92
	2	2.47	2.63	2.78	2.94	3.09	3.86	4.64	6.18	7.73	9.27	10.82	12.36	13.91	15.45
	3	1.65	1.75	1.85	1.96	2.06	2.57	3.09	4.12	5.15	6.18	7.21	8.24	9.27	10.30
	4	1.23	1.31	1.39	1.47	1.54	1.93	2.32	3.09	3.86	4.63	5.40	6.17	6.95	7.72
	5	0.99	1.05	1.11	1.17	1.23	1.54	1.85	2.47	3.08	3.70	4.32	4.93	5.55	6.17
	6	0.82	0.87	0.92	0.98	1.03	1.28	1.54	2.05	2.57	3.08	3.59	4.11	4.62	5.13
	7	0.70	0.75	0.79	0.84	0.88	1.10	1.32	1.76	2.20	2.64	3.08	3.52	3.96	4.40
	8	0.61	0.65	0.69	0.73	0.77	0.96	1.15	1.54	1.92	2.30	2.69	3.07	3.46	3.84
	9	0.55	0.58	0.61	0.65	0.68	0.85	1.02	1.36	1.70	2.04	2.39	2.73	3.07	3.41
	10	0.49	0.52	0.55	0.58	0.61	0.77	0.92	1.22	1.53	1.84	2.14	2.45	2.75	3.06

Distance by vertical angle -- nautical miles
Distances in italics to be used with caution -- base beyond horizon

