

# APPENDIX 6. SEA SURFACE AND BEAUFORT WIND SCALE

Descriptions of the ocean sea surface. Approximate relation between scales of wind speed, wave height, and sea state

<i>Sea criteria</i>	<i>Wind speed</i>			<i>12-h wind</i>	<i>Fully risen sea</i>			
	<i>Beaufort scale</i>	<i>Range (m s<sup>-1</sup>)</i>	<i>Mean (m s<sup>-1</sup>)</i>	<i>Wave height<sup>a,b</sup> (m)</i>	<i>Wave height<sup>a,b</sup> (m)</i>	<i>Duration<sup>b,c</sup> (h)</i>	<i>Fetch<sup>b,c</sup> (km)</i>	<i>Seastate scale</i>
Mirrorlike	0	< 0.5						0
Ripples	1	0.5–1.7	1.1					1/2
Small wavelets	2	1.8–3.3	2.5	< 0.30	< 0.30			1
Large wavelets, scattered whitecaps	3	3.4–5.4	4.4	0.30–0.61	0.30–0.61	< 2.5	< 19	2
Small waves, frequent whitecaps	4	5.5–8.4	6.9	0.61–1.5	0.61–1.8	2.5–6.5	19–74	3
Moderate waves, many whitecaps	5	8.5–11.1	9.8	1.5–2.4	1.8–3.0	6.5–11	74–185	4
Large waves, whitecaps everywhere, spray	6	11.2–14.1	12.6	2.4–3.7	3.0–5.2	11–18	185–370	5
Heaped-up sea, blown spray, streaks	7	14.2–17.2	15.7	3.7–5.2	5.2–7.9	18–29	370–740	6
Moderately high, longwaves, spindrift	8	17.3–20.8	19.0	5.2–7.3	7.9–11.9	29–42	740–1300	7

This table is taken from the Article “Acoustics, Deep Ocean.” For further details and explanation of the notes, see p. 70.