BEAUFORT SCALE OF WIND FORCE (Determination of wind speed by sea condition)

Japan Meteorological Agency (JMA)





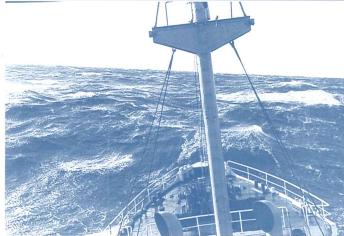
Wind Force 1



Wind Force 5



Fresh breeze



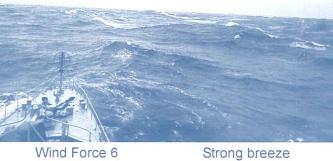
Wind Force 9

Strong gale



Wind Force 2







Wind Force 10

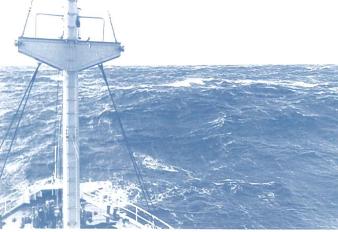
Storm



Wind Force 3



Light breeze



Wind Force 7



Wind Force 11

Violent storm



Wind Force

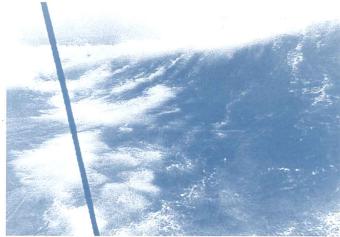
Moderate breeze



Wind Force 8



Gale



Wind Force 12

Hurricane

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Wind Force	Specification	at 10 m	lent speed above sea s in m/s	Probable wave height in meters*	Wind Force	Specification	at 10 m	lent speed above sea s in m/s	Probable wave height in meters*	Wind Force	Specification	at 10 m a	ent speed above sea in m/s	Probable wave height in meters*
0	Sea like a mirror.	< 1	0~0.2	-	5	Moderate waves, taking a more pronounced long form; many	17~21	8.0~10.7	2(2.5)	9	High waves. Dense streaks of foam along the direction of the wind.	41~47	20.8~ 24.4	7(10)
1	Ripples with the appearance of scales are formed, but without foam crests.	1~3	0.3~1.5	0.1(0.1)	ě	white horses are formed. Chance of some spray.					Crests of waves begin to topple, t affect visibility.	umble and	d roll over.	Spray may
		,			6	Large waves begin to form; the white foam crests are more extensive everywhere. Probably	22~27	10.8~ 13.8	3(4)	10	Very high waves with long overhanging crests. The resulting		24.5~ 28.4	9(12.5)
2	Small wavelets, still short but more pronounced. Crests have a glassy appearance and do not break.	4~6	1.6~3.3	0.2(0.3)		some spray.		9 "			foam, in great patches, is blown in direction of the wind. On the whole a white appearance. The "tumbling	the surface	ce of the s	ea takes on
					7	Sea heaps up and white foam from breaking waves begins to be	28~33	13.9~ 17.1	4(5.5)	11	shock-like. Visibility affected. Exceptionally high waves(small and	56~63	28.5~	11.5(16)
3	Large wavelets. Crests begin to break. Foam of glassy appearance. Perhaps scattered white horses.	7~10	3.4~5.4	0.6(1)		blown in streaks along the direction of the wind.				11	medium-sized ship might be for a time lost to view behind the waves)	. The sea	32.6 is complet	ely covered
					8	Moderately high waves of greater length; edges of crests begin to break into spindrift. The foam is blown in well-marked streaks along the direction of the wind.	34~40	17.2~ 20.7	5.5(7.5)	12	with long white patches of foam wind. Everywhere the edges of the Visibility affected.			
4	Small waves, becoming longer, fairly frequent white horses.	11~16	5.5~7.9	1(1.5)							The air is filled with foam and spray. Sea completely white with	64~	32.7~	14(-)
											driving spray; visibility very ser	iously affect	cted.	

Remark * This table is only intended as a guide to show roughly what may be expected in the open sea, remote from land. It should never be used in the reverse way; i.e., for logging or reporting the state of the sea. In enclosed waters, or when near land, with an off-shore wind, wave heights will be smaller and the waves steeper. Figures in brackets indicate the probable maximum height of waves.