

**Table S1:** List of storms and sample days included in the database for the comparisons of CYGNSS L2 winds versus radiometers. This database was built selecting sample days from intense storms for which there were good collocations for CYGNSS wind field and the microwave radiometers.

<b>Storm Name</b>	<b>Basin</b>	<b>Year</b>	<b>Case Studies</b>
Irma	Atlantic	2017	31 August 2-5 September
Jose	Atlantic	2017	6-7, 9-10, 12, 14, 16-18, 20 September
Maria	Atlantic	2017	17, 19, 21-26, 28 September
Jebi	Western Pacific	2018	28-29 August 1-3 September
Mangkhut	Western Pacific	2018	7, 9, 12, 14-15 September
Florence	Atlantic	2018	9-13 September
Dorian	Atlantic	2019	28, 30-31 August 1, 4, 7 September
Hagibis	Western Pacific	2019	9-13 October
Uesi	Southern Pacific	2020	11-13 February
Harold	Southern Pacific	2020	4-7, 9 April
Amphan	Indian	2020	18-19 May
Laura	Atlantic	2020	26 August
Maysak	Western Pacific	2020	28, 30-31 August 1 September
Hayshen	Western Pacific	2020	1-5 September
Paulette	Atlantic	2020	9-13, 15-16 September
Teddy	Atlantic	2020	16-20, 22 September
Delta	Atlantic	2020	6, 8-9 October