



# Briefing Sheet: Hurricane Team

## Practice Data Answer Sheet

### Instructions

Before the mission begins, your team should practice analyzing hurricane data. You should be able to:

- Receive real-time data for the storm and predict its movement and strength.
- Plot latitude and longitude coordinates on the tracking map.
- Calculate speed of the storm and estimated time to landfall.
- Determine whether there is any predicted danger, and the degree and type of danger.
- Prepare a report form every five minutes to be read to Mission Control by the Communications Officer.

### The information and tools you will need:

- Hurricane Tracking Data Sheet
- Hurricane Tracking Map
- Calculator, ruler, compass

### Practice with sample data

In the table below we give you some sample data. The first three rows are an example. Using the tools above you should fill in the rest of the sheet. For detailed instructions, refer to the “Hurricane Tracking Instructions”

### Hurricane Practice Data from Aug 28th

This data is fictitious. However, it represents the types of data that you will be receiving on Mission Day. Assume the radius of the storm is 225 km (140 mi).

**Hurricane Tracking Data Answer Sheet**

	A	B	C	D	E	F	G	H	I	J	K	L
	ADV	Lat. North	Lon. West	Time GMT	Wind kph* (mph)	Pressure	Saffir-Simpson Hurricane Scale	Distance traveled km (mi)	Speed kph (mph)	Direction of Hurr.	Distance to Island km (mi)	ETA Montserrat (hrs.)
Practice Data	1	16.40	47.2	08/28: 0300	72 (45)	1025	Trop Storm	n/a	n/a	n/a	1330 (826)	n/a
	2	16.50	48	08/28: 0900	96 (60)	1032	Trop Storm	85 (53)	14.2 (8.8)	W	1240 (771)	87.3
	3	16.70	49	08/28: 1500	120 (75)	1009	Hurricane-1	100 (62)	16.7 (10.4)	W	1145 (712)	68.6
	4	16.70	49.7	08/28: 2100	144 (90)	988	Hurricane-1	80 (50)	13.3 (8.3)	W	1055 (656)	79.3
	5	16.60	50.6	08/29: 0300	144 (90)	982	Hurricane-1	82 (51)	13.7 (8.5)	W	975 (606)	71.2
	6	16.60	51.4	08/29: 0900	128 (80)	983	Hurricane-1	80 (50)	13.3 (8.3)	W	895 (556)	67.3
	7	16.70	51.9	08/29: 1500	144 (90)	974	Hurricane-1	49 (30)	8.2 (5.1)	NW	845 (525)	103
	8	16.90	52.5	08/29: 2100	160 (100)	968	Hurricane-2	71 (44)	11.8 (7.4)	W	775 (482)	65.7
	9	16.90	52.9	08/30: 0300	144 (90)	963	Hurricane-1	35 (22)	5.8 (3.6)	W	740 (460)	127.6
	10	16.80	53.1	08/30: 0900	128 (80)	995	Hurricane-1	22 (14)	3.7 (2.3)	SW	715 (444)	193.2

\*Note: Most weather stations and meteorologists measure wind speed in "knots". Popular media converts this to "kilometers per hour" (kph), or "miles per hour" (mph).