



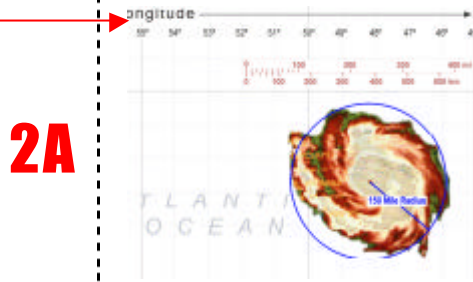
Instruction Sheet: Hurricane Team

Sept 4, 1996: How to Track a Hurricane

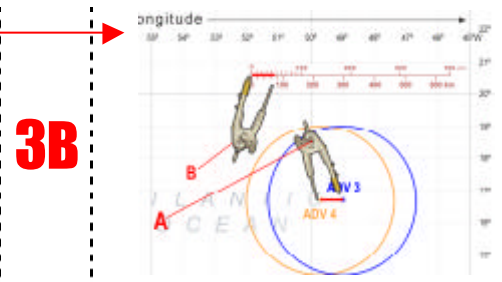
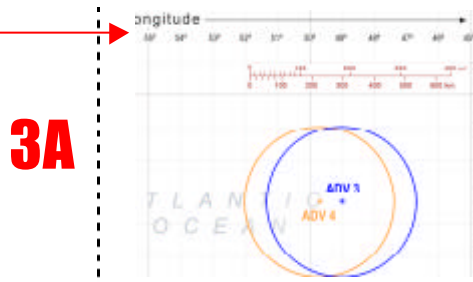
1 Record real-time data from the web page in **Columns B-G**

A	B	C	D	E	F	G	H	I	J	K	L
ADV	Lat. North	Lon. West	Time GMT	Wind (mph)	Pressure	Saffir-Simpson Hurricane Scale	Distance traveled (miles)	Speed (mph)	Direction of Hurricane	Distance to Island (miles)	ETA Montserrat (hrs.)
1	16.41	47.2	08/28: 0300	45	30.01	Trop Storm					
2	16.50	48	08/28: 0900	60	30.23	Trop Storm					
3	16.70	49	08/28: 1500	75	29.56	Hurricane-1					
4	16.70	49.7	08/28: 2100	90	29.95	Hurricane-2					

2 Plot the storm on the map. Average radius of the storm is roughly 150 miles (240km)

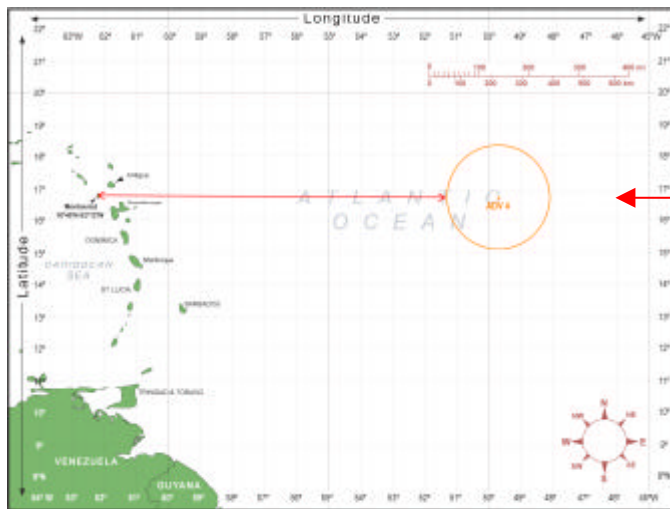


3 How far has it travelled? (Column H)



4 How fast is it traveling? (Column I)

Take Column H and divide by the time since the last observation (6 hours in the example)



6 Measure the distance from the edge of the storm to the island. Write in **Column K**

7 Estimate the time of arrival. Column K divided by Column I. Write the answer in **Column L**.

5 Write down the direction it is moving (Column J) e.g West

Useful Equations

$$\frac{\text{Distance between Observations}}{\text{Time between Observations}} = \text{Speed}$$

$$\frac{\text{Column K}}{\text{Column I}} = \text{Estimated Time of Arrival (Column L)}$$

$$\frac{\text{Distance}}{\text{Speed}} = \text{Time}$$

