

HURRICANE TRACKING ASSIGNMENT

MAP SCALE (1 cm = X miles)	1 cm = 133 miles	GRID SCALE (1 side of grid square = X miles)	1 sq = 66.5 miles
CITY PREDICTED FOR LANDFALL		Brownsville, TX	CITY COORDINATES (X1,Y1)
APPROX INITIAL LINEAR DISTANCE IN MILES (measured)		1500	CITY COORDINATES (long,lat)
HURRICANE TRAVELLING SPEED (mph)		10	TIME INTERVAL (HOURS)
			10

TIME INTERVAL IN HOURS (MATLAB)	LINEAR DISTANCE IN MILES (MATLAB)	TIME TO LANDFALL IN HOURS (MATLAB)	LINEAR DISTANCE IN KILOMETERS (conversion)	LINEAR LENGTH (cm)	HURRICANE LOCATION (Degrees)		APPROXIMATE HURRICANE COORDINATES (Grid Units)		APROXIMATE HURRICANE COORDINATES (miles)		APROXIMATE HURRICANE COORDINATES (calculated in kilometers)		NEAREST COUNTRY, STATE, OR WATER BODY
					Longitude	Latitude	X2	Y2	X2	Y2	X2	Y2	
Initial (0 hours)	1507	150.78	2425	11.3	77° W	18° N	20	-8	1330	-532	2140	-856	Jamaica
10	1407	140.78	2264	10.6	79 W	19 N	18	-7	1197.0	-465.5	1926	-749	Jamaica
20	1308	130.78	2105	9.8	80.3 W	19.5 N	16.7	-6.5	1110.6	-432.3	1787	-696	Cayman Islands
30	1208	120.78	1944	9.1	82 W	20 N	15	-6	997.5	-399.0	1605	-642	Caribbean Sea/Cayman Islands
40	1108	110.78	1783	8.3	83.5 W	20.5 N	13.5	-5.5	897.8	-365.8	1445	-589	Cuba
50	1008	100.78	1622	7.6	84.5 W	21 N	12.7	-5	844.6	-332.5	1359	-535	Cuba
60	908	90.78	1461	6.8	85.5 W	21.5 N	11.5	-4.5	764.8	-299.3	1231	-482	Cuba/Yucatan,Mexico
70	808	80.78	1300	6.1	86.7 W	22 N	10.3	-4.1	685.0	-272.7	1102	-439	Yucatan, Mexico
80	708	70.78	1139	5.3	88 W	22.5 N	9	-3.5	598.5	-232.8	963	-375	Yucatan, Mexico
90	608	60.78	978	4.6	89.5 W	23 N	7.5	-3	498.8	-199.5	803	-321	Gulf of Mexico
100	508	50.78	818	3.8	90.7 W	23.5 N	6.3	-2.5	419.0	-166.3	674	-268	Gulf of Mexico
110	408	40.78	657	3.1	92 W	24 N	5	-2	332.5	-133.0	535	-214	Middle of Gulf of Mexico
120	308	30.78	496	2.3	93.3 W	24.5 N	3.8	-1.5	252.7	-99.8	407	-161	Middle of Gulf of Mexico
130	208	20.78	335	1.6	94.5 W	25 N	2.5	-1	166.3	-66.5	268	-107	Tamaulipas, MX
140	108	10.78	174	0.8	95.8 W	25.5 N	1.2	-0.5	79.8	-33.3	128	-54	Brownsville, TX
150	8	0.78	13	0.1	96.8 W	25.9 N	0.1	-0.01	6.65	-0.67	11	-1.1	Brownsville, TX