

PS: ES
Hurricane Dorian (2019)

Name _____

Per _____

Date _____

Original concept by S. Kluge. Modified by Z. Miller 2019.

Some NOAA advisories for Hurricane Dorian from 27 August to 3 September are listed below:

ADV	LAT	LON	TIME	WIND	PRES	STAT
12	13.5	60.7	8/27/05Z	50	1005	Tropical Storm
13	14.2	61.8	8/27/11Z	50	1005	Tropical Storm
14	15.3	62.5	8/27/17Z	50	1005	Tropical Storm
15	16	63	8/27/23Z	50	1006	Tropical Storm
16	16.8	63.9	8/28/05Z	60	1003	Tropical Storm
17	17.5	64.5	8/28/11Z	70	999	Tropical Storm
18	18.8	65.5	8/28/17Z	80	997	Hurricane-1
19	19.7	66	8/28/23Z	85	986	Hurricane-1
20	20.5	66.6	8/29/05Z	85	991	Hurricane-1
21	21.4	67.2	8/29/11Z	85	986	Hurricane-1
22	22.5	67.7	8/29/17Z	85	986	Hurricane-1
23	23.3	68.4	8/29/23Z	105	977	Hurricane-2
24	23.8	69.1	8/30/05Z	105	979	Hurricane-2
25	24.5	69.8	8/30/11Z	110	972	Hurricane-2
26	25	70.7	8/30/17Z	115	970	Hurricane-3
27	25.5	71.4	8/30/23Z	140	948	Hurricane-4
28	25.8	72.6	8/31/05Z	140	948	Hurricane-4
29	26	73.4	8/31/11Z	150	945	Hurricane-4
30	26.2	74.4	8/31/17Z	150	945	Hurricane-4
31	26.3	75.1	8/31/23Z	150	940	Hurricane-4
32	26.4	76	9/1/05Z	150	934	Hurricane-4
33	26.5	76.8	9/1/11Z	180	913	Hurricane-5
34	26.6	77.3	9/1/17Z	185	910	Hurricane-5
35	26.6	77.9	9/1/23Z	180	914	Hurricane-5
36	26.6	78.2	9/2/05Z	165	916	Hurricane-5
37	26.8	78.3	9/2/11Z	155	922	Hurricane-4
38	26.8	78.4	9/2/17Z	145	940	Hurricane-4
39	26.9	78.5	9/2/23Z	130	946	Hurricane-3
40	26.9	78.4	9/3/05Z	120	950	Hurricane-3

1. Write down 3 questions about the data or the data table that you need to have answered in order to understand the data.

1. _____
2. _____
3. _____

2. On the accompanying map, plot the position of Hurricane Dorian at **each** of the **bold** faced advisories **only**. Label each point with the advisory number, and connect the points with a smooth line.

3. Based upon the data table and/or the map, make and write down 3 observations about Hurricane Dorian.

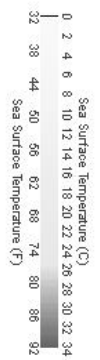
1. _____
2. _____
3. _____

4. Calculate the forward speed of the storm in knots between Advisory **33** and Advisory **40**. Use the back of page 1 to show your work.

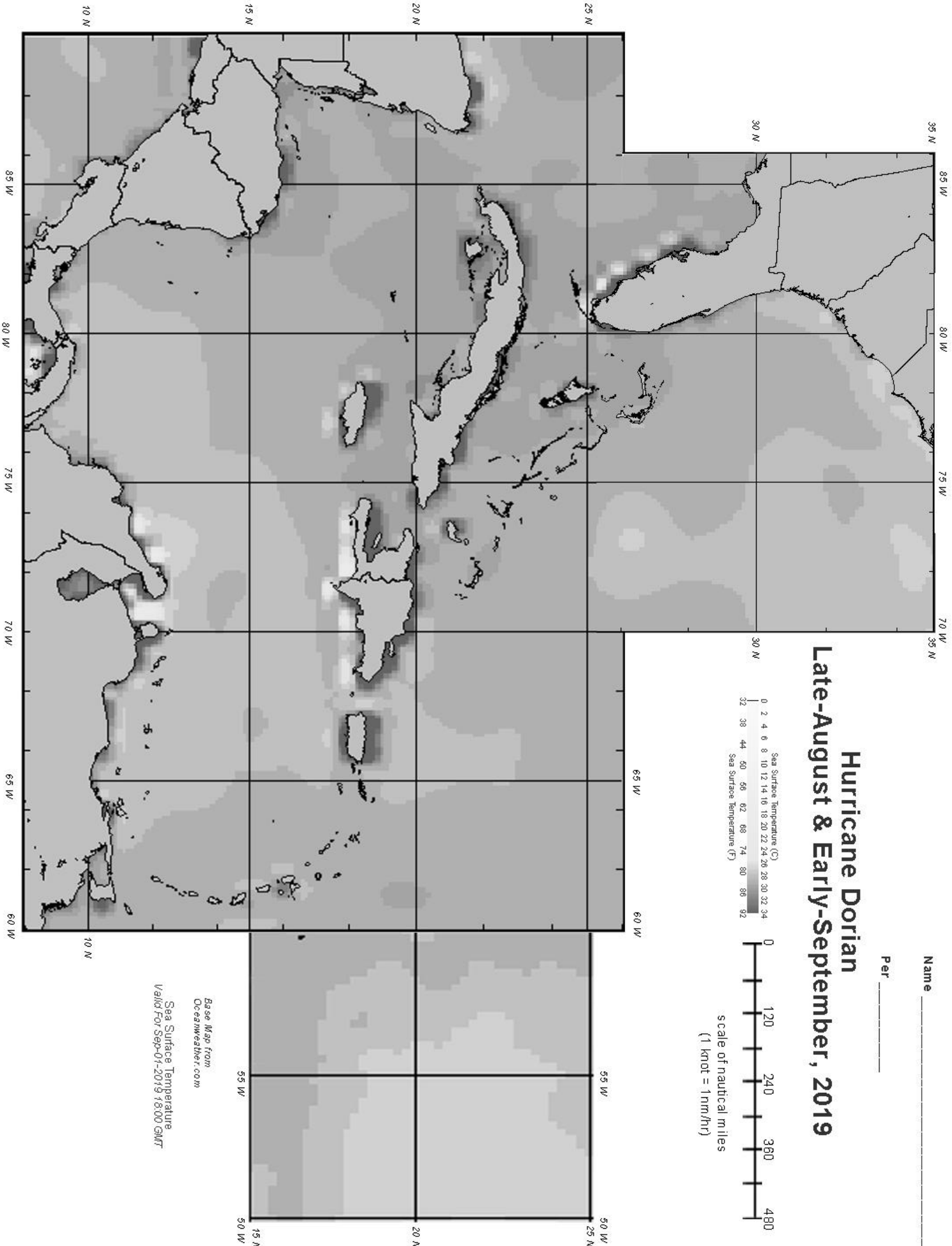
Name _____

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Hurricane Dorian Late-August & Early-September, 2019



scale of nautical miles
(1 knot = 1nm/hr)



Base Map from
Oceanweather.com

Sea Surface Temperature
Valid for Sep-01-2019 16:00 GMT