

## **2020 Scotch Bonnet Light Race Review**

### **The Scotch Bonnet Game**

9/1/2020 Tony Gambacurta

Having cancelled the 2020 Scotch Bonnet Light Race, we can't help but wonder what might have happened. The offshore forecast at the time of the Skipper's meeting was as follows:

#### *TONIGHT (Friday)*

*East winds 10 to 15 knots becoming south and increasing to 15 to 25 knots. Occasional showers with a chance of thunderstorms from late evening on. Waves 1 to 3 feet building to 2 to 4 feet.*

#### *SATURDAY*

*Southwest winds 15 to 25 knots becoming west to 30 knots. Occasional showers with a chance of thunderstorms in the morning, then a chance of showers and thunderstorms early in the afternoon. Waves 3 to 6 feet building to 6 to 9 feet. Waves occasionally around 11 feet.*

So the game is: How would the race have gone for you? Given the forecast, would you have raced? Would the race committee start the race with a forecast like this? The winds were under 10 kts at the time of the start, so, they probably would have started the race.

Question's of course are: when would the winds change from South on Friday night to South West on Saturday? When would South West become West at 30 kts?

In anycase, after a fast crossing to the island, looks like a bunch of upwind sailing coming back. Rain is nothing new for Scotch Bonnet Racers and we know we can out run thundersorms, right? No doubt an exciting race.

The Scotch Bonnet Game is to imagine what it would have been like for you and your boat in the conditions of the race.

If you want more detail, in the long version of this review, on the web site, at [www.ScotchBonnetRace.com](http://www.ScotchBonnetRace.com), there is the weather data from NDBC RPRN6 at east pier in Rochester, and 45012 weather buoy 20 nm North of Rochester in the middle of the lake which includes wave height.

So, what Stories do you think might have been born? Enjoy the game!

## Complete Forecast at the time of the Skipper's meeting...

### National Weather Service Marine Forecast FZUS61 KBUF

FZUS61 KBUF 282032  
GLFLO

Open Lake Forecast for Lake Ontario  
National Weather Service Buffalo NY  
432 PM EDT Fri Aug 28 2020

#### For waters beyond five nautical miles of shore on Lake Ontario

Waves are the significant wave height - the average of the highest 1/3 of the wave spectrum. Occasional wave height is the average of the highest 1/10 of the wave spectrum.

#### SYNOPSIS

A frontal boundary will move northward across the lake tonight. A 29.5 inch low will consolidate across the lower Great Lakes Saturday and then track across New England Saturday night, dragging a trailing cold front south across the lake. A 30.0 inch high will ridge southward across the central Great Lakes Sunday before moving across the eastern Great Lakes Monday. A 28.9 inch low will then meander near Hudson Bay Tuesday with it trailing cold front forecast to cross the lake on Wednesday.

LOZ062-290330-  
Lake Ontario open waters from the Niagara River to Hamlin Beach-  
432 PM EDT Fri Aug 28 2020

#### TONIGHT

East winds 10 to 15 knots becoming south and increasing to 15 to 25 knots. Occasional showers with a chance of thunderstorms from late evening on. Waves 1 to 3 feet building to 2 to 4 feet.

#### SATURDAY

Southwest winds 15 to 25 knots becoming west to 30 knots. Occasional showers with a chance of thunderstorms in the morning, then a chance of showers and thunderstorms early in the afternoon. Waves 3 to 6 feet building to 6 to 9 feet. Waves occasionally around 11 feet.

#### SATURDAY NIGHT

Northwest winds 20 to 25 knots becoming west. A chance of showers overnight. Waves 5 to 8 feet. Waves occasionally around 10 feet.

LOZ063>065-290330-

#### Lake Ontario open waters from Hamlin Beach to the Saint Lawrence River-

432 PM EDT Fri Aug 28 2020

#### TONIGHT

Northeast winds 5 to 15 knots becoming southeast 15 to 20 knots. Occasional showers with a chance of thunderstorms from late evening on. Waves 1 to 3 feet.

#### SATURDAY

South winds 15 to 25 knots becoming west to 30 knots. Showers with a chance of thunderstorms through early afternoon,

then a chance of showers and thunderstorms late. Waves 2 to 4 feet building to 9 to 12 feet. Waves occasionally around 15 feet.

**SATURDAY NIGHT**

West winds to 30 knots diminishing to 15 to 25 knots. A chance of showers and thunderstorms. Waves 8 to 11 feet subsiding to 5 to 9 feet. Waves occasionally around 14 feet.

NDBC-RPRN6-8-28-2020

MM	DD	TIME (EDT)	WDIR	WSPD kts	GST kts	ATMP °F
8	29	04:50:00 PM	WNW	26	41	72.1
8	29	04:40:00 PM	NW	29.9	36.9	75.4
8	29	04:30:00 PM	W	19	27	76.8
8	29	04:20:00 PM	W	20	26	77
8	29	04:10:00 PM	W	22	28	76.8
8	29	04:00:00 PM	W	20	27	77.2
8	29	03:50:00 PM	W	18.1	29.9	77.7
8	29	03:40:00 PM	WSW	18.1	24.1	78.3
8	29	03:30:00 PM	W	18.1	25.1	78.3
8	29	03:20:00 PM	WSW	20	28	78.6
8	29	03:10:00 PM	WSW	20	27	79.5
8	29	03:00:00 PM	W	20	24.1	79.5
8	29	02:50:00 PM	WSW	21	24.1	79.5
8	29	02:40:00 PM	W	15	28	79.3
8	29	02:30:00 PM	W	19	26	79.2
8	29	02:20:00 PM	W	14	28	79.3
8	29	02:10:00 PM	W	19	26	80.2
8	29	02:00:00 PM	W	21	27	79.7
8	29	01:50:00 PM	WSW	12	22	79.5
8	29	01:40:00 PM	W	12	24.1	79.2
8	29	01:30:00 PM	WSW	18.1	24.1	79.3
8	29	01:20:00 PM	WSW	15	22.9	79.2
8	29	01:10:00 PM	WSW	14	17.1	79
8	29	01:00:00 PM	WSW	14	22.9	79
8	29	12:50:00 PM	WSW	15.9	22.9	78.1
8	29	12:40:00 PM	WSW	17.1	25.1	78.1
8	29	12:30:00 PM	WSW	12	22.9	77.9
8	29	12:20:00 PM	SW	15	22.9	77.2
8	29	12:10:00 PM	WSW	13	18.1	77
8	29	12:00:00 PM	WSW	12	17.1	77.2
8	29	11:50:00 AM	WSW	9.9	17.1	77.4
8	29	11:40:00 AM	WSW	8.9	18.1	77.7
8	29	11:30:00 AM	WSW	12	22	77.5
8	29	11:20:00 AM	SW	15	20	77
8	29	11:10:00 AM	SW	15	21	77.2
8	29	11:00:00 AM	SW	13	18.1	76.8
8	29	10:50:00 AM	SW	13	18.1	76.6
8	29	10:40:00 AM	SW	11.1	13	76.3
8	29	10:30:00 AM	SSW	8	12	75.9
8	29	10:20:00 AM	SW	8	12	75.7
8	29	10:10:00 AM	SW	8.9	12	75.6
8	29	10:00:00 AM	SW	8.9	13	75.4
8	29	09:50:00 AM	SW	8.9	13	75.4
8	29	09:40:00 AM	SW	8.9	14	75
8	29	09:30:00 AM	SW	12	15	75
8	29	09:20:00 AM	SW	12	18.1	74.8
8	29	09:10:00 AM	WSW	12	18.1	74.8
8	29	09:00:00 AM	SW	13	15.9	74.8
8	29	08:50:00 AM	SW	9.9	15	74.8

8	29	08:40:00	AM	SW	11.1	15.9	74.8
8	29	08:30:00	AM	SW	11.1	14	74.5
8	29	08:20:00	AM	SW	9.9	14	74.3
8	29	08:10:00	AM	SSW	12	17.1	74.3
8	29	08:00:00	AM	SSW	11.1	14	74.1
8	29	07:50:00	AM	SW	11.1	18.1	74.3
8	29	07:40:00	AM	SSW	15	18.1	74.1
8	29	07:30:00	AM	SSW	11.1	17.1	73.9
8	29	07:20:00	AM	SSW	9.9	15	73.8
8	29	07:10:00	AM	SSW	12	17.1	73.8
8	29	07:00:00	AM	SSW	11.1	15.9	73.6
8	29	06:50:00	AM	SSW	11.1	15.9	73.6
8	29	06:40:00	AM	SSW	8.9	14	73.4
8	29	06:30:00	AM	SSW	9.9	15.9	73.4
8	29	06:20:00	AM	SSW	13	18.1	73.2
8	29	06:10:00	AM	SSW	11.1	15.9	73
8	29	06:00:00	AM	S	11.1	15	72.9
8	29	05:50:00	AM	S	11.1	14	72.7
8	29	05:40:00	AM	SSW	11.1	15.9	72.5
8	29	05:30:00	AM	SSW	11.1	13	72.3
8	29	05:20:00	AM	SSW	9.9	13	72.3
8	29	05:10:00	AM	S	9.9	13	72.1
8	29	05:00:00	AM	S	9.9	13	72
8	29	04:50:00	AM	SSW	9.9	13	72
8	29	04:40:00	AM	SSW	8	9.9	71.8
8	29	04:30:00	AM	SSW	5.1	8.9	71.4
8	29	04:20:00	AM	SSW	6	8	71.2
8	29	04:10:00	AM	SSW	6	9.9	71.1
8	29	04:00:00	AM	SSW	6	8.9	70.9
8	29	03:50:00	AM	S	6	8	70.5
8	29	03:40:00	AM	S	5.1	8	70.5
8	29	03:30:00	AM	SSW	7	8.9	70.5
8	29	03:20:00	AM	SSW	6	9.9	70.3
8	29	03:10:00	AM	SSW	7	9.9	70.3
8	29	03:00:00	AM	SSW	7	8.9	70.3
8	29	02:50:00	AM	SSW	7	9.9	70.3
8	29	02:40:00	AM	SSW	7	11.1	70.2
8	29	02:30:00	AM	SSW	7	12	70.2
8	29	02:20:00	AM	SSW	8	12	70
8	29	02:10:00	AM	SW	7	9.9	69.6
8	29	02:00:00	AM	S	8	12	69.1
8	29	01:50:00	AM	S	6	8	68.5
8	29	01:40:00	AM	S	7	8.9	68.2
8	29	01:30:00	AM	S	5.1	7	67.8
8	29	01:20:00	AM	S	4.1	8	67.8
8	29	01:10:00	AM	SSE	6	8.9	67.8
8	29	01:00:00	AM	S	7	9.9	67.6
8	29	12:50:00	AM	S	8	9.9	67.8
8	29	12:40:00	AM	SSE	7	8.9	67.8
8	29	12:30:00	AM	SSE	8	9.9	67.8
8	29	12:20:00	AM	SE	8	11.1	68
8	29	12:10:00	AM	SE	9.9	11.1	67.8
8	29	12:00:00	AM	SE	11.1	13	67.8

8	28	11:50:00	PM	ESE	12	15	67.6
8	28	11:40:00	PM	ESE	12	15	67.6
8	28	11:30:00	PM	SE	9.9	12	67.6
8	28	11:20:00	PM	SE	11.1	13	67.8
8	28	11:10:00	PM	ESE	9.9	12	68
8	28	11:00:00	PM	SE	11.1	12	68
8	28	10:50:00	PM	SE	11.1	12	68
8	28	10:40:00	PM	SE	9.9	13	68
8	28	10:30:00	PM	ESE	9.9	12	67.8
8	28	10:20:00	PM	SE	7	9.9	68.2
8	28	10:10:00	PM	ESE	8	9.9	68.2
8	28	10:00:00	PM	ESE	8	8.9	68.2
8	28	09:50:00	PM	SE	7	8	68
8	28	09:40:00	PM	SE	7	9.9	68
8	28	09:30:00	PM	SE	8	8.9	68
8	28	09:20:00	PM	ESE	8	8.9	68.4
8	28	09:10:00	PM	ESE	8	8.9	68.2
8	28	09:00:00	PM	ESE	8	8.9	68.4
8	28	08:50:00	PM	SE	8	8.9	68.5
8	28	08:40:00	PM	SE	7	8.9	68.5
8	28	08:30:00	PM	SE	7	8.9	68.4
8	28	08:20:00	PM	SE	8.9	9.9	68.5
8	28	08:10:00	PM	SE	7	8	68.7
8	28	08:00:00	PM	E	6	7	68.5
8	28	07:50:00	PM	E	6	7	68.5
8	28	07:40:00	PM	E	5.1	7	68.5
8	28	07:30:00	PM	E	5.1	7	68.4
8	28	07:20:00	PM	ENE	5.1	9.9	68.4
8	28	07:10:00	PM	E	6	7	68.4
8	28	07:00:00	PM	E	6	8	68.4
8	28	06:50:00	PM	E	6	9.9	68.4
8	28	06:40:00	PM	E	7	8	68.2
8	28	06:30:00	PM	E	7	8	68.2
8	28	06:20:00	PM	ENE	6	8	68.4
8	28	06:10:00	PM	ENE	6	8	68.2
8	28	06:00:00	PM	E	5.1	8	68.4
8	28	05:50:00	PM	ENE	7	8	68.4
8	28	05:40:00	PM	ENE	7	8	68.2
8	28	05:30:00	PM	ENE	6	8	68.4
8	28	05:20:00	PM	ENE	7	9.9	68.4
8	28	05:10:00	PM	ENE	8	8.9	68.9
8	28	05:00:00	PM	ENE	5.1	8.9	68.9
8	28	04:50:00	PM	NE	6	8	69.1

NDBC 45012, 4-28-2020

MM	DD	TIME (EDT)	WDIR	WSPD kts	GST kts	WVHT ft	DPD sec	APD sec	MWD	PRES in	ATMP °F	WTMP °F	DEWP °F
8	29	04:20:00 PM	W	29.1	36.9	-	-	-	-	29.38	74.5	74.3	70.2
8	29	04:10:00 PM	W	27.2	35	-	-	-	-	29.38	75	74.3	70.5
8	29	04:00:00 PM	W	27.2	35	-	-	-	-	29.38	75.2	74.5	70.7
8	29	03:50:00 PM	WSW	27.2	35	4.9	6	4.3	W	29.37	75.4	74.5	70.5
8	29	03:40:00 PM	WSW	25.3	31.1	-	-	-	-	29.38	75.6	74.5	70.5
8	29	03:30:00 PM	W	25.3	33	-	-	-	-	29.37	75.7	74.5	70.5
8	29	03:20:00 PM	WSW	21.4	27.2	-	-	-	-	29.38	75.9	74.5	70.7
8	29	03:10:00 PM	WSW	19.4	25.3	-	-	-	-	29.38	75.7	74.5	70.3
8	29	03:00:00 PM	WSW	17.5	25.3	-	-	-	-	29.38	75.6	74.5	71.1
8	29	02:50:00 PM	WSW	17.5	21.4	4.3	5	4.1	W	29.38	75.4	74.5	71.1
8	29	02:40:00 PM	WSW	19.4	23.3	-	-	-	-	29.39	75.4	74.5	71.1
8	29	02:30:00 PM	WSW	17.5	23.3	-	-	-	-	29.39	75.2	74.5	71.1
8	29	02:20:00 PM	WSW	19.4	23.3	-	-	-	-	29.39	75	74.5	70.9
8	29	02:10:00 PM	WSW	17.5	21.4	-	-	-	-	29.4	75	74.5	71.1
8	29	02:00:00 PM	WSW	17.5	23.3	-	-	-	-	29.4	75	74.5	71.1
8	29	01:50:00 PM	W	19.4	23.3	3.3	5	3.6	W	29.4	74.8	74.5	71.1
8	29	01:40:00 PM	W	19.4	25.3	-	-	-	-	29.39	74.8	74.5	70.9
8	29	01:30:00 PM	W	17.5	21.4	-	-	-	-	29.39	74.7	74.5	70.9
8	29	01:20:00 PM	W	19.4	25.3	-	-	-	-	29.4	74.7	74.5	70.9
8	29	01:10:00 PM	WSW	19.4	25.3	-	-	-	-	29.41	74.7	74.5	71.1
8	29	01:00:00 PM	WSW	19.4	25.3	-	-	-	-	29.41	74.5	74.5	71.2
8	29	12:50:00 PM	WSW	21.4	25.3	3	4	3.4	WSW	29.41	74.5	74.5	71.2
8	29	12:40:00 PM	WSW	19.4	23.3	-	-	-	-	29.41	74.7	74.5	71.4
8	29	12:30:00 PM	WSW	17.5	25.3	-	-	-	-	29.41	74.8	74.5	71.4
8	29	12:20:00 PM	WSW	15.5	19.4	-	-	-	-	29.42	75	-	71.4
8	29	12:10:00 PM	WSW	13.6	17.5	-	-	-	-	29.42	75.2	74.3	71.8
8	29	12:00:00 PM	WSW	13.6	15.5	-	-	-	-	29.42	75.4	74.3	72
8	29	11:50:00 AM	WSW	13.6	17.5	2.6	4	3.3	SW	29.42	75.4	74.3	71.6
8	29	11:40:00 AM	WSW	15.5	19.4	-	-	-	-	29.42	75.4	74.3	71.6
8	29	11:30:00 AM	WSW	15.5	19.4	-	-	-	-	29.43	75.4	74.3	71.6
8	29	11:20:00 AM	WSW	15.5	17.5	-	-	-	-	29.43	75.2	74.3	71.6
8	29	11:10:00 AM	WSW	15.5	19.4	-	-	-	-	29.43	75.2	74.1	71.4
8	29	11:00:00 AM	WSW	17.5	21.4	-	-	-	-	29.43	75.2	74.1	71.2
8	29	10:50:00 AM	WSW	19.4	23.3	2	4	3.1	S	29.43	75.4	74.1	71.2
8	29	10:40:00 AM	WSW	17.5	21.4	-	-	-	-	29.43	75.4	74.1	71.1
8	29	10:30:00 AM	WSW	17.5	21.4	-	-	-	-	29.43	75.4	73.9	71.2
8	29	10:20:00 AM	SW	17.5	21.4	-	-	-	-	29.44	75.2	73.9	71.4
8	29	10:10:00 AM	SW	11.7	17.5	-	-	-	-	29.44	74.5	73.9	71.4
8	29	10:00:00 AM	SW	13.6	17.5	-	-	-	-	29.44	74.5	73.8	71.4
8	29	09:50:00 AM	SW	13.6	17.5	2	4	3.1	SSW	29.44	74.3	73.8	71.2
8	29	09:40:00 AM	SW	13.6	17.5	-	-	-	-	29.44	74.3	73.8	71.2
8	29	09:30:00 AM	SW	13.6	17.5	-	-	-	-	29.44	74.3	73.6	71.2
8	29	09:20:00 AM	SW	13.6	15.5	-	-	-	-	29.45	73.9	73.6	71.1
8	29	09:10:00 AM	SW	15.5	19.4	-	-	-	-	29.45	73.8	73.4	70.9
8	29	09:00:00 AM	SW	17.5	19.4	-	-	-	-	29.46	73.6	73.2	70.9
8	29	08:50:00 AM	SW	17.5	19.4	2	3	2.9	SSW	29.46	73.6	73.2	70.7
8	29	08:40:00 AM	SW	15.5	19.4	-	-	-	-	29.46	73.8	73.2	70.7
8	29	08:30:00 AM	SW	13.6	17.5	-	-	-	-	29.47	73.9	73.2	70.7

8	29	08:20:00	AM	SSW	13.6	17.5	-	-	-	-	29.47	73.9	73.2	70.7
8	29	08:10:00	AM	SSW	13.6	17.5	-	-	-	-	29.47	73.8	73.2	70.5
8	29	08:00:00	AM	SSW	13.6	19.4	-	-	-	-	29.48	73.9	73.4	70.5
8	29	07:50:00	AM	SSW	13.6	15.5	1.6	3	2.9	SSW	29.48	74.1	73.4	70.5
8	29	07:40:00	AM	SSW	11.7	15.5	-	-	-	-	29.48	73.8	73.4	70.7
8	29	07:30:00	AM	SSW	13.6	15.5	-	-	-	-	29.48	73.9	73.4	70.7
8	29	07:20:00	AM	SSW	13.6	17.5	-	-	-	-	29.48	73.6	73.4	70.5
8	29	07:10:00	AM	S	13.6	17.5	-	-	-	-	29.48	73.4	73.4	70.3
8	29	07:00:00	AM	S	13.6	17.5	-	-	-	-	29.48	73.2	73.4	70.3
8	29	06:50:00	AM	S	13.6	17.5	2	3	2.9	S	29.48	73.2	73.4	70
8	29	06:40:00	AM	S	13.6	17.5	-	-	-	-	29.49	73	73.4	70
8	29	06:30:00	AM	S	15.5	17.5	-	-	-	-	29.49	73	73.4	70
8	29	06:20:00	AM	S	15.5	17.5	-	-	-	-	29.49	73	73.4	70
8	29	06:10:00	AM	S	15.5	17.5	-	-	-	-	29.49	73	73.4	70
8	29	06:00:00	AM	S	13.6	17.5	-	-	-	-	29.49	73.2	73.4	70.3
8	29	05:50:00	AM	S	13.6	17.5	2	3	3	S	29.5	73.4	73.4	70.2
8	29	05:40:00	AM	S	13.6	17.5	-	-	-	-	29.5	73.2	73.4	70.2
8	29	05:30:00	AM	S	13.6	15.5	-	-	-	-	29.51	73.4	73.4	70.3
8	29	05:20:00	AM	S	11.7	15.5	-	-	-	-	29.51	73.4	73.4	70.2
8	29	05:10:00	AM	SSW	13.6	15.5	-	-	-	-	29.52	73.4	73.4	70
8	29	05:00:00	AM	SSW	11.7	15.5	-	-	-	-	29.52	73.4	73.4	70.2
8	29	04:50:00	AM	SSW	13.6	15.5	2	3	3	SSE	29.52	73.4	73.4	70.2
8	29	04:40:00	AM	SSW	15.5	17.5	-	-	-	-	29.53	73.4	73.4	70
8	29	04:30:00	AM	SSW	15.5	19.4	-	-	-	-	29.53	73.6	73.4	70.2
8	29	04:20:00	AM	SW	17.5	21.4	-	-	-	-	29.53	73.9	73.4	70.2
8	29	04:10:00	AM	SW	17.5	21.4	-	-	-	-	29.53	73.9	73.4	70.2
8	29	04:00:00	AM	SW	17.5	21.4	-	-	-	-	29.54	74.1	73.4	70.3
8	29	03:50:00	AM	SW	15.5	19.4	1.6	3	2.9	SE	29.54	73.8	73.4	70.2
8	29	03:40:00	AM	SW	13.6	17.5	-	-	-	-	29.55	73	73.4	70
8	29	03:30:00	AM	SSW	13.6	15.5	-	-	-	-	29.56	72.3	73.6	69.4
8	29	03:20:00	AM	SSW	11.7	15.5	-	-	-	-	29.56	71.8	73.6	68.9
8	29	03:10:00	AM	SSW	13.6	17.5	-	-	-	-	29.56	71.4	73.6	68.5
8	29	03:00:00	AM	SSW	13.6	15.5	-	-	-	-	29.57	70.9	73.6	68.2
8	29	02:50:00	AM	S	13.6	15.5	1.3	3	2.8	SE	29.58	70.5	73.6	67.6
8	29	02:40:00	AM	S	13.6	17.5	-	-	-	-	29.58	70.5	73.6	67.3
8	29	02:30:00	AM	S	13.6	17.5	-	-	-	-	29.59	71.1	73.6	67.6
8	29	02:20:00	AM	SSE	15.5	17.5	-	-	-	-	29.59	71.1	73.6	67.6
8	29	02:10:00	AM	SSE	13.6	15.5	-	-	-	-	29.6	70.7	73.6	67.3
8	29	02:00:00	AM	SE	13.6	15.5	-	-	-	-	29.61	70.5	73.6	66.7
8	29	01:50:00	AM	SE	13.6	15.5	1.3	3	2.7	ESE	29.62	70.5	73.6	66.7
8	29	01:40:00	AM	ESE	13.6	15.5	-	-	-	-	29.62	69.6	73.6	66.4
8	29	01:30:00	AM	ESE	13.6	17.5	-	-	-	-	29.62	69.1	73.4	66.2
8	29	01:20:00	AM	ESE	15.5	17.5	-	-	-	-	29.63	68.7	73.6	66.2
8	29	01:10:00	AM	ESE	13.6	15.5	-	-	-	-	29.64	68.4	73.6	65.8
8	29	01:00:00	AM	ESE	11.7	15.5	-	-	-	-	29.65	68.7	73.6	65.8
8	29	12:50:00	AM	ESE	11.7	13.6	1	2	2.5	ESE	29.66	68.5	73.6	65.8
8	29	12:40:00	AM	E	11.7	15.5	-	-	-	-	29.66	69.3	73.6	65.5
8	29	12:30:00	AM	E	11.7	15.5	-	-	-	-	29.66	69.6	73.6	64.9
8	29	12:20:00	AM	ESE	11.7	15.5	-	-	-	-	29.66	69.8	73.6	65.1
8	29	12:10:00	AM	ESE	11.7	17.5	-	-	-	-	29.67	69.6	73.6	64.6
8	29	12:00:00	AM	ESE	11.7	13.6	-	-	-	-	29.67	69.6	73.6	64.2
8	28	11:40:00	PM	ESE	11.7	13.6	0.7	-	2.3	-	29.68	69.6	73.6	63.9
8	28	11:30:00	PM	E	9.7	11.7	-	-	-	-	29.69	69.6	73.6	63.3



8	28	11:20:00	PM	E	9.7	11.7	-	-	-	-	29.7	69.6	73.6	63.3
8	28	11:10:00	PM	E	7.8	11.7	-	-	-	-	29.71	69.4	73.6	63.1
8	28	11:00:00	PM	E	9.7	11.7	-	-	-	-	29.71	69.4	73.6	63.1
8	28	10:50:00	PM	E	9.7	11.7	0.7	-	2.3	-	29.72	69.4	73.6	62.8
8	28	10:40:00	PM	E	7.8	9.7	-	-	-	-	29.73	69.3	73.6	62.6
8	28	10:30:00	PM	E	7.8	9.7	-	-	-	-	29.74	69.3	73.6	62.4
8	28	10:20:00	PM	ESE	7.8	9.7	-	-	-	-	29.74	69.1	73.6	61.9
8	28	10:10:00	PM	ESE	7.8	9.7	-	-	-	-	29.75	69.1	73.6	62.1
8	28	10:00:00	PM	ESE	7.8	9.7	-	-	-	-	29.75	69.1	73.6	62.1
8	28	09:50:00	PM	E	9.7	11.7	0.3	-	2.4	-	29.75	69.1	73.8	62.2
8	28	09:40:00	PM	ESE	7.8	9.7	-	-	-	-	29.75	69.1	73.8	62.4
8	28	09:30:00	PM	E	7.8	11.7	-	-	-	-	29.76	68.9	73.8	61.7
8	28	09:20:00	PM	ESE	7.8	9.7	-	-	-	-	29.76	68.9	73.8	62.2
8	28	09:10:00	PM	ESE	7.8	9.7	-	-	-	-	29.77	68.9	73.8	62.1
8	28	09:00:00	PM	ESE	7.8	11.7	-	-	-	-	29.77	68.7	73.9	62.1
8	28	08:50:00	PM	E	7.8	9.7	0.3	-	2.7	-	29.77	68.7	73.9	61.9
8	28	08:40:00	PM	E	7.8	9.7	-	-	-	-	29.77	68.5	74.1	61.7
8	28	08:30:00	PM	ESE	5.8	9.7	-	-	-	-	29.77	68.5	74.1	61.7
8	28	08:20:00	PM	ESE	7.8	9.7	-	-	-	-	29.77	68.5	74.1	61.9
8	28	08:10:00	PM	E	5.8	7.8	-	-	-	-	29.77	68.4	74.1	61.5
8	28	08:00:00	PM	ESE	5.8	7.8	-	-	-	-	29.78	68.4	74.1	61.3
8	28	07:50:00	PM	SE	5.8	7.8	0.3	-	2.6	-	29.78	68.5	74.3	61.5
8	28	07:40:00	PM	ESE	5.8	7.8	-	-	-	-	29.79	68.5	74.3	61.7
8	28	07:10:00	PM	E	3.9	5.8	-	-	-	-	29.8	68.4	74.5	61
8	28	07:00:00	PM	ESE	1.9	3.9	-	-	-	-	29.8	68.4	74.7	61
8	28	06:50:00	PM	E	1.9	3.9	0.3	-	2.7	-	29.81	68.4	74.7	60.8
8	28	06:40:00	PM	E	1.9	3.9	-	-	-	-	29.81	68.5	74.5	60.8
8	28	06:30:00	PM	E	1.9	3.9	-	-	-	-	29.8	68.4	74.7	61.2
8	28	06:20:00	PM	E	1.9	3.9	-	-	-	-	29.8	68.2	74.7	60.8
8	28	06:10:00	PM	ENE	3.9	3.9	-	-	-	-	29.8	68.2	74.7	60.8
8	28	06:00:00	PM	NE	1.9	3.9	-	-	-	-	29.8	68.2	74.5	60.8
8	28	05:50:00	PM	ENE	3.9	5.8	0.3	-	2.8	-	29.81	68.2	74.5	61.2
8	28	05:40:00	PM	ENE	1.9	3.9	-	-	-	-	29.81	68.5	-	61
8	28	05:30:00	PM	ENE	3.9	5.8	-	-	-	-	29.81	68.7	74.7	61
8	28	05:20:00	PM	NE	1.9	3.9	-	-	-	-	29.81	69.1	74.7	60.6
8	28	05:10:00	PM	-	0	1.9	-	-	-	-	29.82	69.6	74.7	60.6
8	28	05:00:00	PM	WNW	1.9	1.9	-	-	-	-	29.81	69.8	74.7	60.8
8	28	04:50:00	PM	-	0	1.9	0.7	-	2.7	-	29.82	70	74.7	60.8
8	28	04:40:00	PM	W	1.9	3.9	-	-	-	-	29.82	70.2	74.7	61.3
8	28	04:30:00	PM	-	0	0	-	-	-	-	29.82	70.5	74.7	61.2
8	28	04:20:00	PM	-	0	1.9	-	-	-	-	29.83	69.8	74.7	61
8	28	04:10:00	PM	NNE	1.9	3.9	-	-	-	-	29.83	69.1	74.5	60.8
8	28	04:00:00	PM	WNW	1.9	1.9	-	-	-	-	29.84	69.3	74.7	61
8	28	03:50:00	PM	-	0	1.9	0.7	-	2.9	-	29.84	68.7	74.5	60.8