

### DECK LOG – WEATHER OBSERVATION SHEET

NOAA Ship OKEANOS EXPLORER (R-337) TIME ZONE -4 DAY OF WEEK FRIDAY DATE (dd mmm yyyy) 31 MAY 2019

TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE N	LONGITUDE W				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	25° 43.2	079° 48.6	SCT		10	110	14	1016.2	2	060	3	28.1	27.4	25.2
01	25° 58.1	079° 44.5	SCT		10	120	14	1015.7	2	060	3	28.0	27.3	25.0
02	26° 10.1	079° 41.2	SCT		10	125	17	1014.9	2	080	3	27.9	27.1	24.5
03	26° 21.7	079° 38.3	SCT		10	140	15	1014.8	2	085	3	27.8	27.1	24.3
04	26° 35.2	079° 38.7	SCT		10	135	15	1014.3	2	085	3	27.8	26.8	24.4
05	26° 48.1	079° 39.0	SCT		10	150	15	1014.6	2	080	3	27.8	26.9	24.4
06	27° 01.1	079° 39.4	SCT		10	155	15	1014.8	1-2	165	2	27.8	26.7	24.3
07	27° 14.2	079° 38.1	FEW		10	175	12	1016.8	1-2	165	2	27.8	27.1	24.0
08	27° 27.0	079° 38.3	SCT		10	186	11	1019.7	1-2	140	2	27.8	27.5	24.5
09	27° 39.0	079° 38.1	FEW		10	201	11	1019.1	1-2	155	2	27.8	27.4	23.9
10	27° 53.7	079° 37.6	FEW		10	190	11	1019.6	1-2	200	1-2	27.8	27.4	24.3
11	28° 06.4	079° 35.8	FEW		10	206	14	1017.0	1-2	205	1-2	27.8	28.1	24.5
12	28° 17.1	079° 35.7	CLR		10	200	13	1018.8	1-2	200	2	27.9	27.8	24.3
13	28° 26.3	079° 36.2	CLR		10	195	13	1018.9	1-2	200	2	27.9	28.1	24.5
14														
15	28° 45.1	079° 35.1	CLR		10	190	11	1017.6	1-2	200	2	28.0	30.3	25.2
16	28° 44.4	079° 33.3	CLR		10	185	10	1013.7	1-2	190	2	28.0	27.8	24.3
17	28° 37.0	079° 33.6	CLR		10	165	12	1013.4	1-2	185	2	28.1	27.7	24.3
18	28° 29.0	079° 34.1	FEW		10	155	15	1013.7	1-2	180	2	28.2	27.6	24.6
19	28° 21.0	079° 34.4	FEW		10	150	18	1011.8	1-2	180	2-3	28.1	27.3	24.4
20	28° 15.6	079° 33.4	SCT		10	153	15	1012.7	1-2	180	1-2	28.1	27.3	24.3
21	28° 24.5	079° 32.5	BKN		10	157	14	1012.6	1-2	215	1-2	28.0	27.2	24.3
22	28° 33.8	079° 32.0	FEW		10	161	15	1013.4	1-2	—	1-2	27.9	27.5	24.4
23	28° 43.6	079° 31.5	CLR		10	172	14	1015.1	1-2	—	1-2	27.8	28.4	24.2

1400 DRILLS

### DECK LOG – WEATHER OBSERVATION SHEET

NOAA Ship <i>OKEANOS EXPLORER (R-337)</i>				TIME ZONE <i>-4</i>	DAY OF WEEK <i>SATURDAY</i>	DATE (dd mmm yyyy) <i>01 JUN 2019</i>								
TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE	LONGITUDE				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	28° 45.4	079° 29.5	SCT		10	170	21	1013.6	2	190	3	27.8	27.4	24.1
01	28° 36.7	079° 30.0	CLR		10	180	21	1013.3	2	185	3	27.9	27.3	24.4
02	28° 28.8	079° 30.4	SCT		10	190	21	1013.3	2	190	2-3	27.8	27.2	24.2
03	28° 21.2	079° 30.9	FEW		10	195	21	1013.3	2	190	2-3	27.8	27.3	25.4
04	28° 16.2	079° 29.3	FEW		10	210	20	1012.7	2	200	2-3	27.8	27.0	24.2
05	28° 24.9	079° 28.8	FEW		10	205	18	1012.3	2	190	2-3	27.8	27.2	24.2
06	28° 34.1	079° 28.3	SCT		10	205	20	1012.0	2	195	3	27.7	27.0	24.8
07	28° 43.5	079° 27.8	FEW		10	220	18	1012.3	3	200	4	27.7	26.9	24.5
08	28° 42.0	079° 26.0	SCT		10	248	18	1013.0	2-3	220	3-4	27.8	26.8	24.5
09	28° 33.6	079° 26.5	SCT		10	262	16	1013.4	2-3	115	3-4	27.8	26.8	24.7
10	28° 24.7	079° 27.0	SCT		10	282	13	1014.5	2-3	220	3-4	27.8	27.0	24.6
11	28° 17.0	079° 27.5	FEW		10	273	13	1014.4	2-3	230	3	27.8	26.8	24.4
12	28° 24.2	079° 25.1	FEW		10	252	12.8	1012.8	2	230	3	27.8	26.9	24.5
13	28° 35.3	079° 24.5	FEW		10	230	11.6	1014.9	2	230	3-4	27.9	27.5	25.1
14	28° 42.0	079° 24.1	FEW		10	224	11.2	1013.6	2	230	2-3	28.0	27.7	25.1
15	28° 40.0	079° 22.4	FEW		10	210	10	1012.1	1-2	230	2-3	28.1	27.2	24.8
16	28° 29.9	079° 22.9	FEW		10	205	11	1011.6	1-2	230	2	28.2	27.4	24.7
17	28° 20.6	079° 23.5	SCT		10	203	12	1011.7	1-2	220	2	28.3	27.5	24.4
18	28° 19.3	079° 21.6	BKN		10	195	11	1012.5	1-2	220	2	28.3	28.0	24.2
19	28° 28.7	079° 21.1	BKN		10	198	15	1012.3	1-2	195	2	28.1	28.0	24.9
20	28° 38.0	079° 20.6	BKN		10	206	15	1011.4	1-2	220	2-3	28.1	27.8	25.1
21	28° 39.7	079° 18.6	OVC		10	<del>221</del> 227	18	1012.1	1-2	225	2-3	28.1	27.9	25.0
22	28° 51.7	079° 19.0	OVC		10	234	22	1011.3	2-3	210	3	28.1	27.3	25.2
23	28° 22.8	079° 19.6	SCT		10	238	21	1012.1	2	215	2-3	28.1	26.8	23.9

### DECK LOG - WEATHER OBSERVATION SHEET

NOAA Ship <i>OKEANOS EXPLORER (R-337)</i>				TIME ZONE <i>-4</i>	DAY OF WEEK <i>SUNDAY</i>	DATE (dd mmm yyyy) <i>02 JUN 2019</i>								
TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE	LONGITUDE				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	28° 18.4	079° 17.9	FEW		10	215	13	1012.4	2	220	3	28.0	26.9	23.7
01	28° 27.3	079° 17.4	CLR		10	215	15	1012.4	2	220	3	28.0	27.0	23.7
02	28° 36.9	079° 16.9	FEW		10	215	12	1012.7	1-2	215	2-3	28.0	27.3	23.6
03	28° 37.6	079° 14.9	CLR		10	215	14	1012.4	1-2	215	2-3	28.0	27.3	24.0
04	28° 28.9	079° 15.4	CLR		10	230	14	1012.1	1-2	220	2-3	27.9	27.0	24.2
05	28° 20.9	079° 15.9	CLR		10	235	14	1011.6	1-2	225	2-3	27.7	26.8	24.3
06	28° 28.9	079° 13.5	CLR		10	225	12	1011.6	1-2	230	2-3	27.7	26.9	24.1
07	28° 38.4	079° 12.9	CLR		10	227	11	1012.6	1-2	220	2	27.7	26.8	23.4
08	28° 35.2	079° 4.2	FEW		10	244	11	1013.1	1-2	255	2-3	27.7	26.8	24.4
09	28° 25.4	079° 11.8	SCT		10	241	11	1014.4	1-2	260	2-3	27.7	27.1	24.6
10	28° 26.6	079° 09.8	FEW		10	237	10	1015.4	1-2	270	2	27.7	27.6	24.0
11	28° 35.4	079° 09.3	FEW		10	234	10	1013.8	1-2	270	2	27.8	27.0	24.1
12	28° 34.7	079° 07.4	FEW		10	236	10	1011.6	1-2	290	2	27.9	27.0	23.7
13	28° 25.0	079° 08.0	FEW		10	239	10	1011.6	1-2	235	2	28.0	27.0	23.8
14	28° 26.5	079° 06.0	FEW		10	239	10	1011.6	1-2	240	1-2	28.0	27.0	23.8
15	28° 37.0	079° 05.4	FEW		10	239	10	1011.6	1-2	220	1-2	28.0	27.0	23.8
16	28° 29.5	079° 03.9	FEW		10	<del>240</del> <sup>230</sup>	10	<del>1011.6</del> <sup>1011.8</sup>	1-2	<del>220</del> <sup>220</sup>	1-2	<del>28.0</del> <sup>28.1</sup>	<del>27.0</del> <sup>27.2</sup>	<del>23.8</del> <sup>24.5</sup>
17	28° 22.0'	079° 02.9'	FEW		10	210	8	1014.8	1-2	225	1-2	28.2	28.0	24.8
18	28° 32.0	079° 01.8	FEW		10	200	9	1013.6	1-2	220	2	28.2	28.1	24.9
19	28° 36.7'	078° 59.7'	FEW		10	200	8	1011.2	1-2	220	2	28.3	27.4	24.5
20	28° 26.2	079° 00.3	SCT		10	182	10	1011.7	1-2	205	2-3	28.2	27.8	24.6
21	28° 26.9	078° 58.4	FEW		10	176	10	1012.2	1-2	220	2	28.1	27.4	25.1
22	28° 34.4	078° 57.3	FEW		10	188	14	1013.2	1-2	205	2	28.1	27.8	25.3
23	28° 26.1	078° 56.6	SCT		10	166	14	1013.7	1-2	190	2	28.2	27.6	25.3

RPA

1600 OBSERVED WEATHER DATA LOGGER ERROR.

### DECK LOG - WEATHER OBSERVATION SHEET

NOAA Ship OCEANOS EXPLORER (R-337) TIME ZONE -4 DAY OF WEEK MONDAY DATE (dd mmm yyyy) 03 JUN 2019

TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE <i>N</i>	LONGITUDE <i>W</i>				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	28° 26.0	078° 54.7	FEW		10	170	15	1013.8	1-2	200	2	28.2	27.9	25.3
01	28° 31.7	078° 52.4	CLR		10	175	15	1013.5	1-2	200	2	28.1	27.6	24.9
02	28° 23.7	078° 52.9	CLR		10	175	14	1013.7	1-2	200	2	27.9	27.7	25.0
03	28° 29.3	078° 50.6	FEW		10	190	12	1012.2	1-2	200	2	27.6	27.5	24.6
04	28° 25.8	078° 48.9	FEW		10	215	13	1013.2	1-2	200	2	27.2	27.6	25.2
05	28° 26.2	078° 47.0	FEW		10	220	15	1012.6	1-2	200	2	27.2	27.5	23.6
06	28° 25.6	078° 45.1	FEW		10	220	14	1013.2	1-2	205	2	27.2	27.4	24.7
07	28° 23.7	078° 50.4	SCT		10	200	15	1013.2	1-2	225	2	27.3	27.3	24.8
08	28° 26.1	079° 00.1	BKN		10	202	19	1014.6	2	240	3-4	28.0	27.7	25.0
09	28° 28.8	079° 11.5	SCT		10	200	19	1016.5	2	230	2-3	27.9	27.8	25.4
10	28° 31.5	079° 23.1	FEW		10	305	13	1014.1	2	220	3	27.9	27.3	24.8
11	28° 33.4	079° 31.1	FEW		10	315	13	1016.2	2	245	3	28.0	27.5	24.9
12	28° 38.4	079° 32.6	FEW		10	<del>320</del> <sup>270</sup>	9	1015.1	1-2	240	2-3	28.2	27.7	25.3
13	28° 46.2	079° 25.8	FEW		10	<del>320</del> <sup>270</sup>	9	1015.1	1-2	240	2-3	28.2	27.7	25.3
14	28° 53.9	079° 21.9	SCT		10	250	5	1016.2	1-2	240	2-3	28.3	27.7	25.2
15	28° 48.6	079° 26.8	SCT		10	158	4	1014.	1-2	280	2-3	28.3	27.9	25.2
16	28° 58.5	079° 27.2	SCT		10	175	5	1015.3	1-2	285	2-3	28.3	27.8	25.3
17	29° 07.9	079° 29.3	FEW		10	210	5	1014.5	1-2	280	1-2	28.3	28.0	25.3
18	29° 17.4	079° 31.3	FEW		10	220	9	1013.7	1-2	285	1-2	28.2	27.9	25.4
19	29° 26.6	079° 33.3	CLR		10	230	9	1013.3	1	<del>285</del> <sub>310</sub>	1-2	28.2	27.9	25.3
20	29° 35.9	079° 35.3	SCT	HZ VC	8-10	206	10	1013.7	1	300	1-2	28.1	27.9	24.9
21	29° 45.6	079° 37.4	FEW	HZ VC	8-10	200	6	1013.4	1	290	1-2	28.3	27.6	24.9
22	29° 54.3	079° 34.2	FEW	HZ VC	8-10	210	8	1014.2	1	290	1-2	28.2	27.4	25.0
23	29° 56.8	079° 31.3	FEW		10	218	6	1015.3	1	260	1-2	28.3	27.5	24.4

BSC  
BSC

### DECK LOG – WEATHER OBSERVATION SHEET

NOAA Ship		OKEANOS EXPLORER (R-337)		TIME ZONE	-4		DAY OF WEEK	TUESDAY		DATE (dd mmm yyyy)			04 JUN 2019		
TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)			
	LATITUDE N	LONGITUDE W				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB	
00	29°48.0	079°34.8	CLR		10	207	9.6	1015.8	1-2	210	2	28.1	27.3	25.4	
01	29°40.3	079°34.4	CLR		10	180	10	1015.8	1-2	210	2	28.0	27.4	25.5	
02	29°30.5	079°32.3	CLR		10	190	13	1015.9	1-2	210	2	28.1	27.7	25.2	
03	29°20.8	079°30.2	CLR		10	205	13	1015.8	1-2	210	2	28.0	27.6	25.2	
04	29°11.7	079°28.2	CLR		10	230	12	1015.8	1-2	210	2	28.0	27.7	25.3	
05	29°02.9'	079°26.4'	FEW		10	245	11	1016.4	1-2	210	2	28.1	27.8	25.4	
06	28°54.3'	079°24.6'	SCT		10	245	11	1016.5	1-2	210	2	28.1	27.8	25.3	
07	29°02.6	079°24.5	SCT		10	240	9	1017.1	1-2	215	2	28.0	27.8	25.1	
08	29°11.7	079°26.5	SCT		10	275	7	1018.2	1-2	225	2	28.0	27.7	25.3	
09	29°21.2	079°28.5	SCT		10	317	3	1018.9	1-2	230	2	27.9	27.7	25.1	
10	29°30.3	079°30.4	SCT		10	063	5	1019.4	1	240	1-2	28.0	27.6	25.3	
11	29°39.3	079°32.4	SCT		10	082	9	1020.5	1	240	1-2	28.0	27.7	24.9	
12	29°48.0	079°32.8	SCT		10	090	9	1019.6	1	210	1-2	28.1	27.5	25.3	
13	29°56.1	079°29.6	SCT		10	104	12	1017.4	1	210	1-2	28.4	27.3	25.0	
14	29°52.8	079°29.0	SCT		10	092	14	1017.1	1	220	2	28.4	27.4	25.2	
15	29°43.3	079°31.4	SCT		10	090	15	1018.4	1-2	110	2	28.4	27.3	25.0	
16	29°34.4	079°29.5	SCT		10	090	15	1018.4	1-2	115	2	28.4	27.2	25.0	
17	29°25.4'	079°27.6	SCT		10	090	15	1018.4	1-2	115	2	28.4	27.2	25.0	
18	29°16.4'	079°25.6	SCT		10	090	15	1018.4	2	110	2-3	28.4	27.2	25.0	
19	29°07.7'	079°23.8'	FEW		10	090	17	1017.1 <del>1018.4</del>	2-3	<del>110</del> 120	2-3	28.4	27.3	24.4	
20	28°58.6	079°21.9	SCT		10	103	14	1016.4	1-2	120	2-3	28.3	27.2	24.6	
21	29°00.0	079°20.3	BKN		10	128	13	1017.1	1-2	120	2-3	28.2	27.2	24.4	
22	29°09.3	079°22.3	FEW		10	122	14	1017.6	1-2	105	1-2	28.2	27.2	24.6	
23	29°19.3	079°24.2	FEW		10	125	13	1017.4	1-2	095	1-2	28.2	27.0	24.6	

RPA

0818 WATERSPOUT OBSERVED NEAR HORIZON.  
1700 INTERPOLATED WX DATA.

### DECK LOG - WEATHER OBSERVATION SHEET

NOAA Ship OKEANOS EXPLORER (R-337) TIME ZONE -4 DAY OF WEEK WEDNESDAY DATE (dd mmm yyyy) 05 JUN 2019

TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE N	LONGITUDE W				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	29° 27.0	079° 26.1	CLR		10	140	12	1017.4	1-2	140	2	28.1	26.9	24.0
01	29° 35.8	079° 28.0	CLR		10	145	10	1017.4	1-2	140	2	28.0	27.0	24.5
02	29° 46.3	079° 29.8	CLR		10	140	11	1017.4	1-2	140	2	28.1	27.0	24.4
03	29° 53.5	079° 26.9	CLR		10	135	13	1017.0	1-2	140	2	28.2	26.8	24.4
04	29° 54.6	079° 24.5	CLR		10	120	15	1016.5	1-2	140	2	28.1	26.5	24.0
05	29° 45.8	079° 28.0	CLR		10	125	14	1016.9	1-2	140	2	28.0	26.7	23.8
06	29° 36.8	079° 26.3	CLR		10	120	10	<del>1016.5</del> 1017.5	1-2	140	3	27.9	26.8	23.7
07	29° 28.1	079° 24.3	SCT		10	120	11	1018.2	2	<del>140</del> 225	3	27.8	27.0	24.2
08	29° 19.3	079° 22.6	FEW		10	139	10	1019.2	2	<del>130</del> 040	3	28.0	27.1	24.1
09	29° 10.5	079° 20.8	FEW		10	126	8	1019.4	2	<del>145</del> 055	3	28.0	27.1	24.3
10	29° 00.2	079° 18.6	FEW		10	103	10	1019.9	2	<del>125</del> 055	3	28.1	27.2	24.3
11	29° 01.5	079° 17.0	FEW		10	128	10	1021.3	2	<del>100</del> 050	2-3	28.1	27.7	24.6
12	29° 10.8	079° 19.6	FEW		10	127	10	1017.7	1	085	2-3	28.1	27.7	24.4
13	29° 19.4	079° 20.8	FEW		10	140	10	1020.4	1	065	2	28.3	28.0	24.7
14	29° 28.2	079° 22.7	SCT		10	130	10	1019.7	1-2	065	3	28.2	27.9	24.3
15	29° 36.9	079° 24.6	FEW		10	120	11	1017.6	1-2	065	3	28.3	27.7	24.3
16	29° 46.9	079° 25.7	FEW		10	130	13	<del>1016.5</del> 1016.5	1-2	060	3	28.3	27.6	24.2
17	29° 54.4	079° 22.7	SCT		10	150	13	1015.4	2	060	3	28.4	27.2	24.2
18	29° 50.7	079° 22.2	SCT		10	125	16	1014.9	2	165	3	28.4	27.0	24.3
19	29° 41.6	079° 23.7	SCT		10	118	14.7	1015.1	2	155	2	28.3	27.2	24.3
20	29° 32.9	079° 21.9	BKN		10	115	15	1014.7	2	<del>075</del> 145	2-3	28.2	27.1	24.3
21	29° 23.1	079° 19.8	OVC		10	127	14	1014.8	2	070	2-3	28.2	27.1	24.1
22	29° 14.6	079° 17.4	BKN		10	156	11	1015.6	2	070	2-3	28.3	27.3	24.3
23	29° 05.3	079° 16.0	BKN		10	131	15	1015.7	2	VAR	2-3	28.2	27.1	24.3

R.P.

R.P.A

0736 SPOTTED A WATER SPOUT FORMING  
1200 PRESSURE 1021 CORRECTED FOR HEIGHT.

### DECK LOG – WEATHER OBSERVATION SHEET

NOAA Ship *OKEANOS EXPLORER (R-337)*

TIME ZONE  
*-4*

DAY OF WEEK  
*THURSDAY*

DATE (dd mmm yyyy)  
*06 JUN 2019*

TIME	POSITION		SKY CON- DITION	PRESENT WEATHER	VISI- BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE N	LONGITUDE W				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	29°02.1	079°13.5	OVC		8	155	10	1015.4	2	180	3	28.1	27.0	24.3
01	29°09.8	079°15.1	OVC		10	170	13	1015.7	2	170	3	28.1	27.4	24.6
02	29°19.6	079°17.2	OVC		10	170	10	1015.3	2	170	3	28.1	27.3	24.4
03	29°28.9	079°19.2	BKN		10	170	9	1014.8	2	175	3	28.1	27.5	24.1
04	29°37.7	079°21.0	BKN		10	180	11	1014.1	2	180	3	28.0	27.0	23.9
05	29°46.5'	079°22.0'	BKN		10	180	11	1014.3	2	180	3	28.1	27.0	24.1
06	29°55.1'	079°18.5'	BKN		10	188	10	1014.2	2	170	3	28.0	27.0	24.5
07	29°57.9'	079°08.6	BKN		10	188	10	1014.8	2	170	3	27.3	27.0	24.2
08	30°00.1	078°59.0	BKN		10	191	11	1015.0	2	<del>180</del>	2-3	27.1	26.9	24.4
09	30°01.5	078°53.6	BKN		10	200	13	1015.1	2	110	3	27.1	27.0	25.5
10	30°01.4	078°53.6	BKN		10	190	13	1016.1	2	110	3	27.2	27.1	25.2
11	30°01.8	078°51.5	SCT		10	185	14	1015.7	2	180	3	27.2	26.8	24.3
12	30°04.2	078°41.0	SCT		10	195	15	1017.2	1-2	185	2-3	27.3	27.6	24.6
13	30°06.6	078°30.2	SCT		10	195	13	1015.5	1-2	185	2-3	27.2	27.5	24.6
14	30°09.3	078°18.8	SCT		10	200	10	1014.0	1-2	185	2-3	27.4	27.3	24.6
15	30°11.6	078°08.1	SCT		10	204	10	1013.9	2	180	2-3	27.5	27.1	24.3
16	30°16.2'	077°57.2'	OVC		10	195	11	1013.3	1-2	210	1-3	27.4	27.0	24.1
17	30°23.2'	077°51.1'	OVC		10	190	11	1015.7	1-2	210	1-3	27.5	27.3	24.1
18	30°30.6	077°44.4	BKN		10	200	9	1015.0	1-2	110	2	27.3	27.3	24.1
19	30°38.7'	077°37.3'	BKN		10	195	9.6	1013.9	1-2	<del>110</del> 210	2	27.2	27.3	24.1
20	30°44.4	077°34.8	OVC		8-10	188	10	1013.3	1-2	<del>050</del> 195	2	27.3	26.9	24.1
21	30°37.7	077°40.7	OVC	LTG VC	8-10	160	13	1012.8	1-2	160	2	27.3	26.9	24.2
22	30°30.0	077°44.5	OVC	LTG VC	8-10	150	13	1013.1	1-2	VAR	2	27.4	27.0	24.3
23	30°22.4	077°54.2	OVC		10	150	16	1013.2	1-2	VAR	2-3	27.3	27.0	24.5

### DECK LOG - WEATHER OBSERVATION SHEET

NOAA Ship OKEANOS EXPLORER (R-337) TIME ZONE -4 DAY OF WEEK FRIDAY DATE (dd mmm yyyy) 07 JUN 2019

TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE N	LONGITUDE W				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	30° 15.0	078° 00.7	OVC		10	155	13	1013.3	2	150	3	27.3	27.0	24.6
01	30° 21.8	077° 57.1	OVC		10	170	8	1013.1	2	150	3	27.3	27.0	24.7
02	30° 29.2	077° 50.6	OVC	RA	10	165	10	1012.7	2	120	3	27.3	26.7	24.7
03	30° 35.7	077° 44.9	OVC	DZ	10	180	10	1011.8	1-2	120	2-3	27.4	26.6	24.5
04	30° 44.5	077° 37.1	OVC		10	185	11	1011.5	1-2	120	2-3	27.2	26.5	24.5
05	30° 42.7	077° 41.2	OVC	RA	10	185	12	1011.6	1-2	120	2-3	27.1	26.4	24.3
06	30° 35.2	077° 47.8	OVC	DZ	8	265	15	1011.9	1-2	210	2-3	27.2	22.7	21.6
07	30° 28.0	077° 54.0	OVC		8	155	20	1014.1	2	170	3-4	27.0	23.9	22.3
08	30° 20.5	078° 00.6	OVC		10	136	22	1014.3	2-3	170	3-4	27.1	24.3	22.6
09	30° 22.3	078° 01.5	OVC		10	181	16	1016.1	2-3	175	3-4	27.2	25.4	23.0
10	30° 29.1	077° 55.6	OVC		10	190	19	1015.2	2-3	180	3-4	27.2	25.6	22.9
11	30° 37.1	077° 48.6	OVC		10	203	16	1015.4	2-3	190	3-4	27.1	27.1	22.6
12	30° 44.2	077° 42.4	OVC		10	215	18	1015.7	2-3	190	3-4	27.3	27.2	22.9
13	30° 47.5	077° 42.0	OVC	DZ	10	210	21	1015.5	2-3	190	3-4	27.3	28.3	23.3
14	30° 36.9'	077° 51.2'	OVC		10	220	18	1011.7	2-3	190	3-4	27.4	26.4	23.9
15	30° 32.8	077° 54.8	OVC		10	210	20	1011.6	2-3	200	3-5	27.3	26.3	23.2
16	30° 25.7	078° 00.8	OVC		10	195	22	1010.9	2-3	205	3-5	27.1	26.0	22.9
17	30° 21.2	078° 06.5	OVC		10	187	26	1010.3	2-3	210	3-5	27.1	25.9	23.8
18	30° 29.5'	078° 00.0	BKN		10	207	19	1012.7	2	210	3	27.1	26.9	23.7
19	30° 36.9'	<del>078</del> 077° 53.5	BKN		10	195	14	1012.9	2	160	2-3	27.2	26.7	23.6
20	30° 44.6	077° 46.9	BKN		10	207	15	1012.9	2-3	200	3-4	27.5	27.3	23.8
21	30° 50.0	077° 44.6	OVC	LTG VC	10	194	13	1011.6	2-3	200	3-4	27.3	26.7	23.7
22	30° 42.8	077° 50.9	BKN		10	192	16	1012.2	2-3	190	3-4	27.2	27.0	23.4
23	30° 35.3	077° 57.5	OVC	LTG VC	10	192	17	1012.7	2-3	195	3-4	27.3	27.3	23.9

KT



### DECK LOG - WEATHER OBSERVATION SHEET

NOAA Ship OKEANOS EXPLORER (R-337) TIME ZONE -4 DAY OF WEEK SATURDAY DATE (dd mmm yyyy) 08 JUN 2019

TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE <sub>N</sub>	LONGITUDE <sub>W</sub>				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	30° 27.6	078° 04.2	OVC		10	195	20	1012.5	2-3	180	3-5	27.2	27.1	24.5
01	<del>30</del>	078° 07.8	OVC		10	220	11	1011.3	2-3	180	4	27.0	26.4	23.6
02	<del>30</del>	078° 01.2	OVC		10	215	12	1011.4	2-3	180	3-5	27.0	26.8	24.0
03	30° 40.7	077° 55.2	OVC		10	200	13	1011.4	2-3	180	3-4	27.1	26.7	24.6
04	30° 48.2	077° 48.5	OVC		10	198	12	1011.4	2-3	180	3	27.4	26.7	24.9
05	30° 49.8	077° 49.5	OVC		10	182	14	1011.4	2-3	180	2-3	27.1	26.8	25.4
06	30° 42.6	077° 55.9	BKN		10	213	13	1011.0	2-3	185	3	27.3	26.4	24.0
07	30° 35.1	078° 02.4	BKN		10	190	13	1012.3	1-2	195	2-3	27.0	26.8	24.3
08	30° 27.9	078° 08.8	BKN		10	179	16	1013.3	2-3	195	3	27.0	26.9	24.7
09	30° 33.4	078° 06.4	SCT		10	199	13	1015.9	2-3	195	3	27.0	27.5	25.2
10	30° 41.2	077° 59.6	BKN		10	194	11	1015.9	2-3	<del>190</del> 165	3	27.2	27.7	25.4
11	30° 48.3	077° 53.4	BKN		10	198	10	1016.7	2-3	185	3	27.1	28.7	25.8
12	30° 53.2	077° 51.5	OVC	RA VC LTC VC	10	199	10	1015.6	2-3	190	3-4	27.4	29.2	25.8
13	30° 47.0	077° 57.0	OVC	RA	10	150	11	1017.7	2	190	4	27.5	24.5	22.8
14	30° 39.1	078° 03.9	OVC		10	125	10	1015.9	1-2	190	2-3	27.0	25.6	22.8
15	30° 30.7	078° 11.2	OVC		10	150	13	1015.9	1-2	190	3	27.1	26.6	24.2
16	30° 36.3	078° 08.7	OVC		10	185	13	1016.1	1-2	190	2-3	27.2	27.6	25.5
17	30° 43.7	078° 02.1	OVC		10	172	9	1014.1	1-2	190	1-3	27.2	27.2	25.5
18	30° 51.0	077° 55.8	OVC		10	168	8	1013.2	1-2	190	2	27.2	27.1	24.9
19	30° 53.1	077° 56.3	OVC		10	223	12	1012.7	1-2	185	2-3	27.6	24.8	22.7
20	30° 47.0	078° 01.8	OVC	DZ	4	057	11	1013.7	2	200	2-3	27.2	25.5	23.2
21	30° 39.5	078° 08.4	OVC	LTC VC	8	154	11	1015.1	2	185	2-3	27.3	27.1	24.7
22	30° 34.4	078° 14.6	OVC	LTC VC	10	150	11	1016.5	2	160	2	27.2	27.1	25.1
23	30° 41.7	078° 08.9	OVC	LTC VC	10	160	9	1016.5	2	175	2	27.2	27.1	25.3

BSC  
P. 16

0100 30° 26.2 N  
1505 SKY BEGAN CLEARING NORTH OF POSITION, RAIN CLOUDS SW.

### DECK LOG – WEATHER OBSERVATION SHEET

NOAA Ship OCEANUS EXPLORER (R-337) TIME ZONE -4 DAY OF WEEK SUNDAY DATE (dd mmm yyyy) 09 JUN 2014

TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE N	LONGITUDE W				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	30° 48.7	078° 02.7	OVC		10	100	8	1016.3	2	175	3	27.2	27.0	25.5
01	30° 56.7	077° 55.8	BKN		10	170	13	1016.0	2	130	3	27.3	26.9	25.5
02	30° 52.6	078° 01.7	SCT		10	155	14	1015.6	2	140	3	27.4	26.9	25.2
03	30° 44.5	078° 08.9	SCT	LTG VC	10	155	18	1015.9	2	145	3	27.1	26.9	25.0
04	30° 37.6	078° 14.9	SCT	LTG VC	10	155	18	1015.8	2	170	3	27.1	26.9	25.3
05	30° 42.5	078° 12.9	SCT		10	135	5	1013.4	2	140	2-3	27.1	25.0	23.3
06	30° 49.9	078° 06.4	BKN		10	185	14	1015.8	2	140	2	27.2	26.5	25.4
07	30° 51.4	078° 00.0	BKN		10	187	13	1016.3	2	155	2	27.2	26.7	25.4
08	30° 55.4	078° 03.8	BKN		10	153	14	1016.8	1-2	185	2	27.5	26.9	25.3
09	30° 48.2	078° 10.5	BKN		10	170	15	1018.2	1-2	180	2-3	27.2	27.1	23.8
10	30° 41.2	078° 16.6	BKN		10	162	14	1018.0	2	180	2-3	27.1	27.1	24.9
11	30° 45.3	078° 15.4	BKN		10	169	13	1019.3	2	<del>130</del> 180	3	27.1	27.5	24.7
12	30° 52.5	078° 09.2	SCT		10	185	10	1019.7	2	170	3	27.2	28.1	25.1
13														
14	30° 54.6	078° 05.0	SCT		10	160	13	1015.7	2	185	3	27.4	27.3	25.7
15	30° 55.5	078° 06.4	SCT		10	153	12	1015.9	2	170	3	27.5	27.4	25.8
16	31° 00.5	078° 04.5	SCT		10	185	10	1017.1	2	160	2-3	27.6	28.2	26.3
17	30° 53.6	078° 10.6	BKN		10	160	15	1014.8	2	160	2-3	28.1	27.6	26.0
18	30° 46.1	078° 17.2	BKN		10	160	13	1016.3	2	170	2-3	27.5	27.8	23.9
19	30° 39.7	078° 24.3	BKN		10	178	13	1015.7	2	175	2-3	27.4	27.5	24.9
20	30° 34.2	078° 32.2	OVC	TRAVEL	1-2	254	33	1019.5	<del>2-3</del>	VAR	3-4	27.7	27.4	25.6
21	30° 28.1	078° 40.8	OVC	DZ	10	248	12	1017.2	2-3	240	3	27.2	27.7	22.2
22	30° 22.2	078° 48.9	OVC		10	186	6	1018.8	2-3	245	3	27.2	25.2	22.8
23	30° 16.5	078° 56.4	BKN	+	10	211	11	1018.5	2-3	210	3-4	27.2	25.9	22.8

1300 CTD OPERATIONS

2000 SEA WAVE HEIGHT: 3FT

## DECK LOG – WEATHER OBSERVATION SHEET

NOAA Ship <i>OKEANOS EXPLORER (R-337)</i>						TIME ZONE <i>-4</i>	DAY OF WEEK <i>MONDAY</i>	DATE (dd mmm yyyy) <i>10 JUN 2019</i>						
TIME	POSITION		SKY CON- DITION	PRESENT WEATHER	VISI- BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE <small>N</small>	LONGITUDE <small>W</small>				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	30° 12.2	079° 05.8	SCT		10	175	13	1018.6	2	220	5	27.1	26.4	22.2
01	30° 07.9	079° 15.6	SCT		10	170	14	1018.2	2	220	4	28.4	26.9	22.7
02	30° 03.9	079° 24.7	SCT		10	155	20	1017.4	2	210	3-4	28.3	27.2	23.6
03	29° 59.9	079° 33.8	SCT		10	165	23	1017.1	2	210	3-4	28.6	27.4	24.6
04	29° 55.6	079° 43.6	SCT		10	160	20	1015.8	2	210	2-3	28.8	27.3	24.4
05	29° 51.9	079° 52.0	SCT		10	168	18	1016.0	2	210	2-3	28.7	27.3	24.0
06	29° 47.9	079° 57.8	SCT		10	195	19	1016.3	2	195	3	28.8	27.5	24.5
07	29° 42.1	079° 56.8	BKN		10	193	19	1017.1	2	195	2-3	28.8	27.7	24.0
08	29° 36.1	079° 55.8	BKN		10	191	18	1018.0	2	200	2-3	28.9	27.8	24.5
09	29° 30.0	079° 54.8	SCT		10	193	18	1018.7	2	200	2-3	28.8	27.9	24.2
10	29° 24.2	079° 53.7	SCT		10	174	18	1018.8	2	195	2-3	28.9	28.1	25.2
11	29° 19.7	079° 53.0	SCT	RA VC	10	170	18	1017.3	2	165	2-3	—	28.4	26.0
12	29° 14.8	079° 52.2	SCT		10	190	16	1017.5	2	160	3	—	29.0	26.5
13	29° 10.9	079° 51.5	SCT		10	180	19	1017.0	2	165	3	—	28.0	26.0
14	29° 06.2	079° 50.7	SCT		10	180	19	1017.0	2	165	2-3	—	28.5	26.0
15	29° 00.9	079° 49.8	SCT		10	210	13	1017.0	2	170	2-3	—	28.0	26.0
16	28° 54.6	079° 48.7	SCT		10	200	9	1016.0	2	180	2-3	—	28.6	25.0
17	28° 49.5	079° 47.8	SCT		10	200	9.5	1016.5	2	190	2-3	—	29.5	25.0
18	28° 55.6	079° 50.2	OVC		10	250	13.5	1016.0	2	285	2-3	—	26.0	24.0
19	29° 05.2	079° 51.8	BKN		10	225	14.9	1016.0	2	285	2-3	—	26.5	23.0
20	29° 14.4	079° 53.4	SCT		10	221	16	1017.0	1-2	115/260	2-3	29.0	27.0	22.7
21	29° 23.8	079° 55.1	SCT		10	216	18	1016.8	1-2	260	2-3	29.0	27.0	23.7
22	29° 34.3	079° 56.9	FEW		10	214	20	1017.9	1-2	245	2-3	28.9	27.1	23.2
23	29° 41.6	079° 58.1	CLR		10	210	17	1016.8	1-2	240	2-3	28.8	26.7	24.1

0310 CLOUD COVER DIMINISHING

1100 SCS MALFUNCTIONING: NOT RECORDING

1200 - 1900 MANUAL RECORDING

### DECK LOG – WEATHER OBSERVATION SHEET

NOAA Ship		OKEANOS EXPLORER (R-337)		TIME ZONE	DAY OF WEEK	DATE (dd mmm yyyy)								
				- 4	TUESDAY	11 JUNE 2019								
TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE <sup>N</sup>	LONGITUDE <sup>W</sup>				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	29° 49.4	080° 00.8	CLR		10	225	17	1016.6	2	210	3	28.7	26.9	24.4
01	29° 44.2	079° 59.9	CLR		10	230	18	1016.4	2	210	3	28.6	26.7	23.8
02	29° 38.6	079° 58.9	CLR		10	220	19	1015.9	2	210	2-3	28.8	26.6	23.6
03	29° 32.3	079° 57.9	CLR		10	215	15	1016.2	2	215	2-3	28.9	26.7	23.8
04	29° 27.0	079° 56.9	CLR		10	228	16	1016.2	2	215	2-3	28.8	26.6	23.8
05	29° 21.5	079° 56.0	CLR		10	235	15	1016.3	2	215	2-3	28.8	26.7	23.7
06	29° 14.6	079° 54.8	CLR		10	235	13	1016.4	2	220	2-3	28.8	26.7	23.7
07	29° 10.4	079° 54.1	CLR		10	239	12	1017.0	2	215	2-3	28.9	26.6	24.0
08	29° 04.9	079° 53.2	CLR		10	241	11	1017.9	1-2	070	2-3	28.8	26.7	24.0
09	29° 00.9	079° 52.6	FEW		10	226	12	1017.2	1-2	085	2-3	29.0	27.0	23.9
10	28° 55.4	079° 51.6	FEW		10	227	11	1017.3	1-2	105	2-3	29.0	27.2	24.0
11	28° 49.1	079° 50.5	SCT		10	225	10	1018.3	1-2	075	2-3	29.2	27.3	24.0
12	28° 52.0	079° 52.3	FEW		10	190	10	1020.4	1-2	240	2	29.3	28.0	24.7
13	28° 00.0	079° 53.6	FEW		10	194	10	1019.6	1-2	240	2	29.3	28.3	24.9
14	29° 09.9	079° 55.3	FEW		10	171	10	1018.3	1	250	1	29.2	30.7	25.8
15	29° 14.5	079° 56.8	FEW		10	182	11	1016.5	1	240	1	29.5	30.3	25.0
16	29° 28.6	079° 58	SCT		10	202	13	1015.2	1	260	1	29.4	28.9	24.6
17	29° 37.2	079° 59.9	SCT		10	215	11	1014.9	1	290	1	29.1	26.2	23.6
18	29° 48.1	080° 01.9	SCT		10	190	11	1014.0	1	240	1	28.9	26.8	24.3
19	29° 45.5	080° 02.6	FEW		10	190	13	1013.4	1	200	1	28.9	26.5	23.6
20	29° 40.0	080° 01.7	BKN		10	193	13	1016.0	1-2	015	2-3	29.3	28.2	22.9
21	29° 34.9	080° 00.8	SCT		10	165	18	1016.9	1-2	065	2-3	29.2	28.5	24.4
22	29° 29.4	079° 54.9	FEW		10	193	18	1017.4	1-2	—	2-3	29.3	28.7	23.6
23	29° 23.8	079° 58.9	FEW	LTG VC	10	190	18	1017.3	1-2	—	2-3	29.3	28.4	25.3

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### DECK LOG – WEATHER OBSERVATION SHEET

NOAA Ship OKEANOS EXPLORER (R-337) TIME ZONE -4 DAY OF WEEK WEDNESDAY DATE (dd mmm yyyy) 12 JUN 2019

TIME	POSITION		SKY CON-DITION	PRESENT WEATHER	VISI-BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE N	LONGITUDE W				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	29° 18.3	079° 57.9	CLR		10	180	19	1017.3	<1	210	1	29.2	28.3	24.8
01	29° 13.1	079° 57.1	CLR		10	215	18	1016.5	1	210	1-2	29.2	28.1	24.3
02	29° 07.4	079° 56.1	CLR		10	215	16	1015.3	1	210	1-2	29.2	27.6	24.5
03	29° 00.2	079° 54.9	SCT		10	200	13	1015.8	1	210	1-2	29.2	27.7	23.5
04	28° 55.1	079° 54.0	SCT		10	210	16	1015.7	1	210	1-2	29.3	27.6	24.0
05	28° 49.4	079° 53.0	SCT		10	208	18	1015.5	1	210	1-2	29.2	27.4	24.1
06	28° 45.8	079° 53.6	FEW		10	214	15	1015.4	1	180	2	29.3	27.3	24.3
07	28° 54.8	079° 55.1	FEW		10	210	13	1016.4	1-2	220	1-2	29.3	27.4	24.4
08	29° 04.0	079° 56.7	FEW		10	200	14	1017.9	1-2	085	2-3	29.3	27.4	24.6
09	29° 03.1	079° 58.3	FEW		10	201	13	1018.2	1-2	030	2	29.3	27.6	24.8
10	29° 22.5	079° 59.9	CLR		10	204	14	1018.7	1-2	055	2	29.3	27.5	24.7
11	29° 32.7	080° 01.6	FEW		10	201	13	1018.8	1-2	030	2	29.2	27.8	24.6
12	29° 42.8	080° 03.3	FEW		10	198	15	1017.4	1	210	2	29.8	27.4	24.8
13	29° 48.1	080° 05.2	FEW		10	200	14	1017.4	1	210	2	28.9	27.6	24.9
14	29° 47.9	080° 04.4	FEW		10	180	15	1015.4	1-2	210	2-3	29.1	28.0	24.8
15	29° 37.8	080° 03.5	OVC		10	300	10	1014.8	2	205	2-3	29.3	25.3	22.5
16	29° 29.7	080° 02.1	OVC	RA, BCFG	5-7	215	25	1015.5	2	230	3	29.4	23.5	22.5
17	29° 25.9	080° 01.5	OVC	LTRA	8	215	16	1013.3	2	240	3	29.3	20.9	22.0
18	29° 20.4	080° 00.5	OVC		10	198	20	1017.5	2	210	2-3	29.3	25.6	23.1
19	29° 15.2	079° 59.6	BKN		10	190	14	1015.5	2	225	2-3	29.3	25.1	22.9
20	29° 09.4	079° 58.7	BKN		10	189	20	1017.1	2	225	2-3	29.2	26.1	22.9
21	29° 04.7	079° 57.8	SCT		10	203	20	1018.0	2	225	2-3	29.3	27.0	23.2
22	28° 59.5	079° 56.9	SCT		10	178	19	1017.4	2	190	2-3	29.2	27.0	24.0
23	28° 54.0	079° 56.0	SCT		10	181	17	1019.3	2	175	2	29.3	27.8	23.6

### DECK LOG - WEATHER OBSERVATION SHEET

NOAA Ship OKEANOS EXPLORER (R-337) TIME ZONE -4 DAY OF WEEK THURSDAY DATE (dd mmm yyyy) 13 JUN 2019

TIME	POSITION		SKY CONDITION	PRESENT WEATHER	VISIBILITY (nm)	WIND		SEA LEVEL PRESS. (mb)	SEA WAVE HEIGHT (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE N	LONGITUDE W				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	28° 48.8	079° 55.1	BKN		10	200	15	1019.4	2	190	3	29.3	28.1	24.7
01	28° 44.2	079° 55.3	BKN		10	205	17	1018.2	1-2	190	2-3	29.3	28.1	24.7
02	28° 51.1	079° 56.5	BKN		10	195	18	1017.6	1-2	195	2-3	29.3	27.8	24.8
03	28° 59.8	079° 58.0	BKN		10	200	18	1016.7	1-2	195	2-3	29.1	27.5	24.8
04	29° 09.5	079° 59.6	BKN		10	210	20	1016.3	1-2	195	2-3	29.0	27.4	24.7
05	29° 18.9	080° 01.3	BKN		10	210	16	1016.1	1-2	195	2-3	28.9	27.4	24.8
06	29° 27.8	080° 02.8	SCT		10	218	17	1015.7	1-2	195	2-3	28.9	26.8	24.5
07	29° 36.6	080° 04.3	SCT		10	220	16	1015.4	1-2	240	1-2	28.5	26.7	24.5
08	29° 45.5	080° 05.9	BKN		10	226	19	1016.7	1-2	240	2	28.6	26.8	24.6
09	29° 44.7	080° 06.7	BKN		10	251	21	1014.4	2	<del>160</del> 245	2-3	28.4	26.6	24.4
10	29° 38.3	080° 05.6	BKN		10	266	22	1017.6	2-3	260	2-3	28.6	26.2	23.0
11	29° 32.5	080° 04.6	OVC	RA -	8-10	247	18	1015.8	2-3	265	2-3	28.7	25.4	23.2
12	29° 26.7	080° 03.6	OVC		10	220	15	1017.2	2	260	3	28.9	25.6	22.6
13	29° 19.1	080° 02.3	OVC		10	210	19	1019.0	2	260	3	29.0	26.7	22.6
14	29° 13.3	080° 01.3	OVC		10	200	15	1017.6	2	260	3	29.0	26.7	23.6
15	29° 06.4	080° 00.1	OVC		10	265	14	1019.1	2	260	3	29.4	28.0	22.9
16	29° 02.8	<del>080°</del> 079° 59.4	OVC	RA	10	245	16	1017.1	2	260	3	29.6	26.5	23.1
17	28° 58.0	079° 58.4	OVC	RA	7-8	278	23	1015.5	2	260	2-3	29.7	25.7	23.7
18	28° 52.9	079° 57.6	BKN		10	225	13	1018.2	2	260	2-3	29.6	25.8	23.3
19	28° 47.3	079° 56.6	BKN		10	253	11	1019.2	2	265	2	29.7	26.4	23.0
20	28° 42.7	079° 55.8	OVC		10	238	13	1019.4	1-2	285	2	29.8	26.5	22.9
21	28° 50.4	079° 57.9	OVC		10	206	12	1018.5	1-2	275	2	29.7	26.3	23.1
22	28° 46.0	079° 57.9	OVC		10	238	15	1019.3	1-2	245	2	29.7	26.4	23.4
23	28° 41.4	079° 58.5	OVC		10	235	10	1019.1	1-2	275	1-2	29.6	26.2	23.0

0900 SEA LEVEL PRESS (MB): 1016.0

## DECK LOG – WEATHER OBSERVATION SHEET

NOAA Ship OKEANOS EXPLORER (R-337)      TIME ZONE -4      DAY OF WEEK FRIDAY      DATE (dd mmm yyyy) 14 JUN 2019

TIME	POSITION		SKY CON- DITION	PRESENT WEATHER	VISI- BILITY (nm)	WIND		SEA LEVEL Press. (mb)	SEA WAVE Height (ft)	SWELL WAVES		TEMPERATURE (°C)		
	LATITUDE <i>N</i>	LONGITUDE <i>W</i>				Dir. (true)	Speed (kts)			Dir. (true)	Height (ft)	SEA WATER	DRY BULB	WET BULB
00	28° 38.3	080° 02.4	OVC		10	220	7	1018.5	1-2	270	2	29.3	25.9	22.7
01	28° 35.3	080° 06.1	OVC		10	185	10	1018.2	1-2	270	2	27.3	25.9	23.1
02	28° 32.8	080° 10.3	OVC		10	175	10	1018.2	1-2	270	2	27.1	25.9	23.2
03	28° 29.4	080° 13.9	OVC		10	300	6	1016.6	1-2	270	2	26.7	25.0	23.4
04	28° 26.3	080° 17.5	OVC		10	290	6	1016.6	1-2	270	2	27.1	24.5	23.2
05	28° 23.1	080° 21.6	OVC		10	338	6	1016.9	1-2	270	2	25.6	23.8	22.9
06	<del>28° 20.9</del> 28° 20.5	080° 24.5	OVC		10	308	4	1017.5	1-2	270	1-2	24.9	24.2	22.5
07	28° 21.0	080° 23.9	BKN		10	320	2	1017.8	1-2	270	1		24.2	22.4
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