

Sea-surface temperature deduced from MODIS

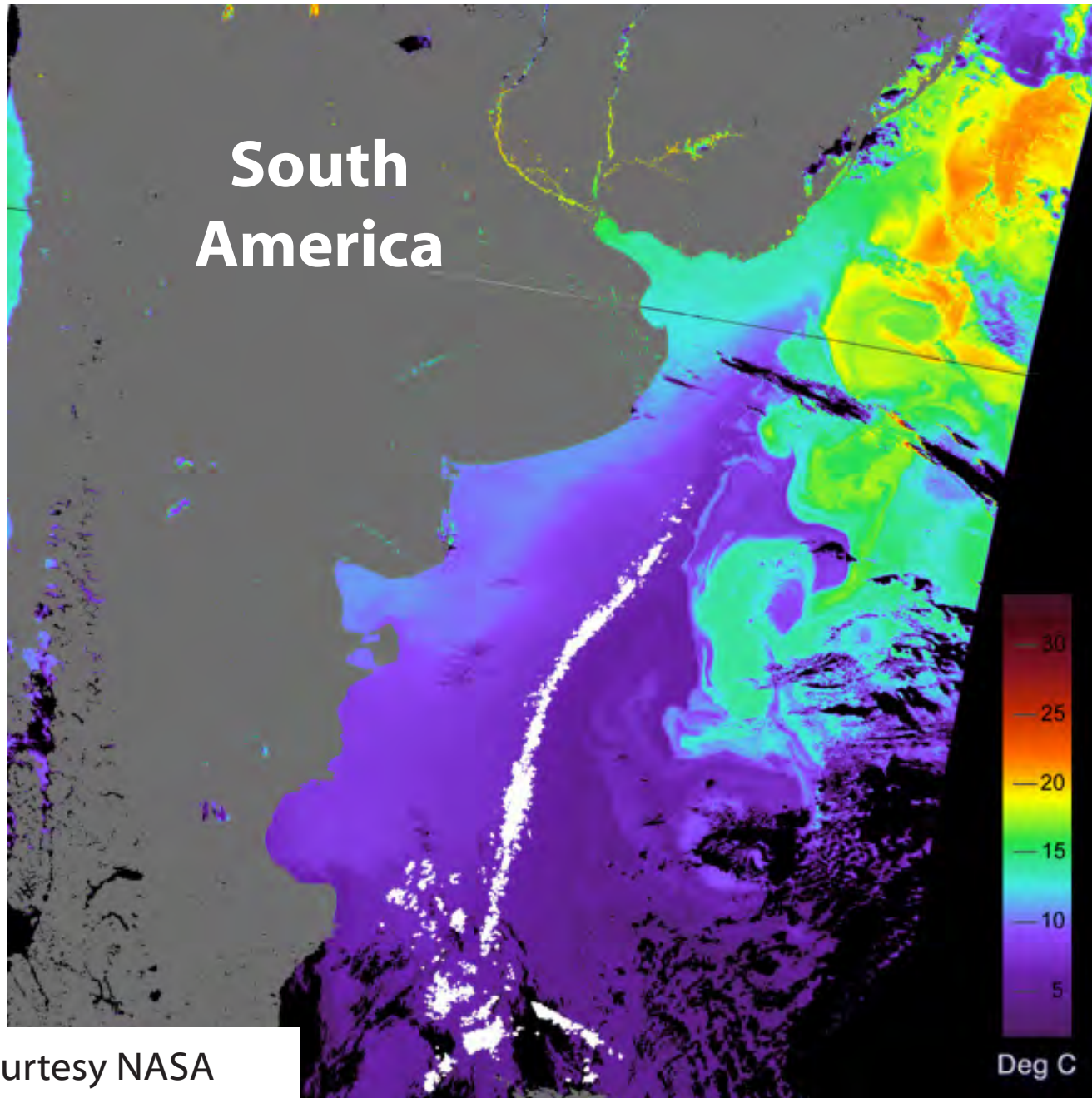


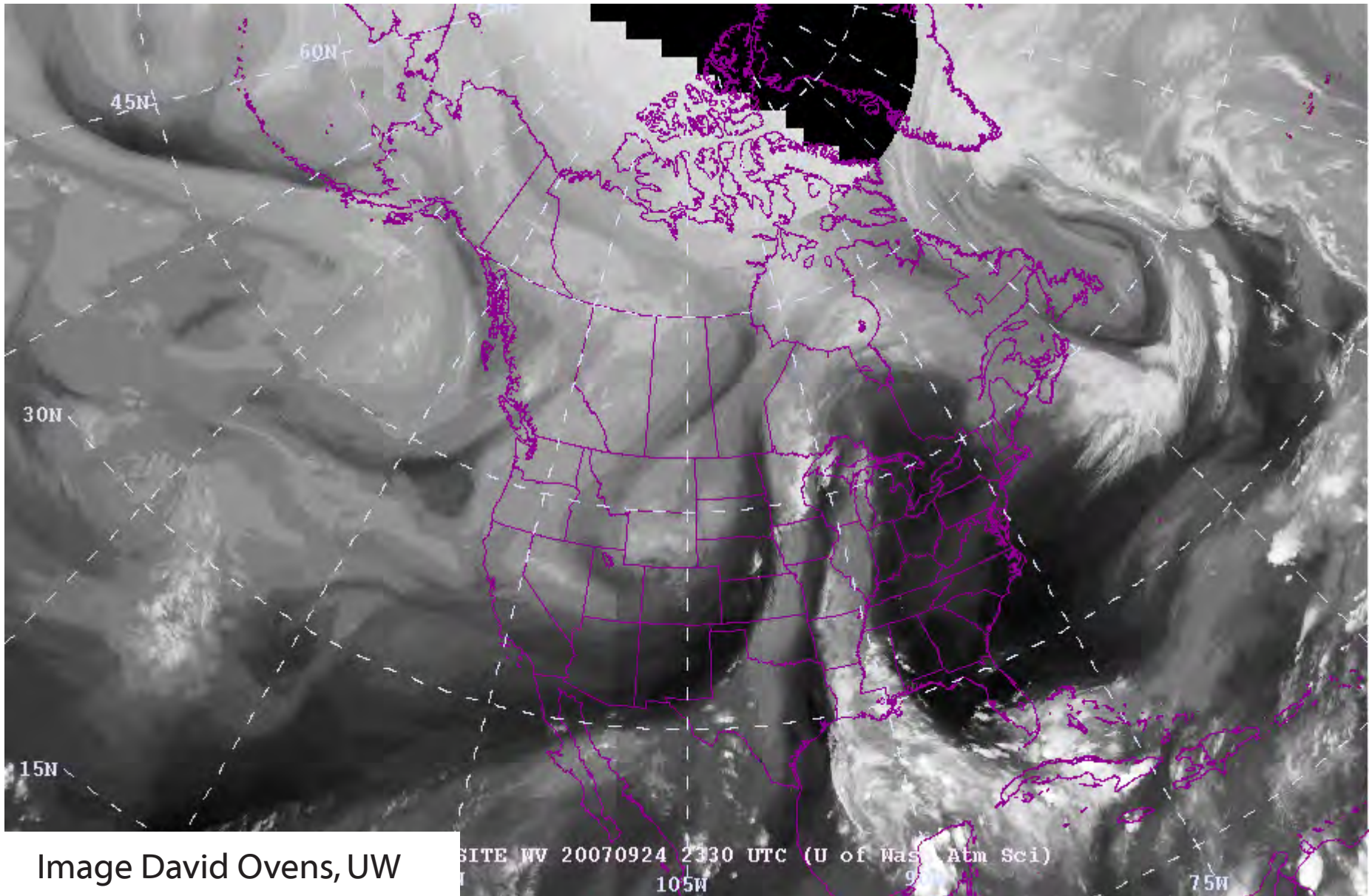
Image courtesy NASA

Surface winds over the ocean determined using QuikScat scatterometry

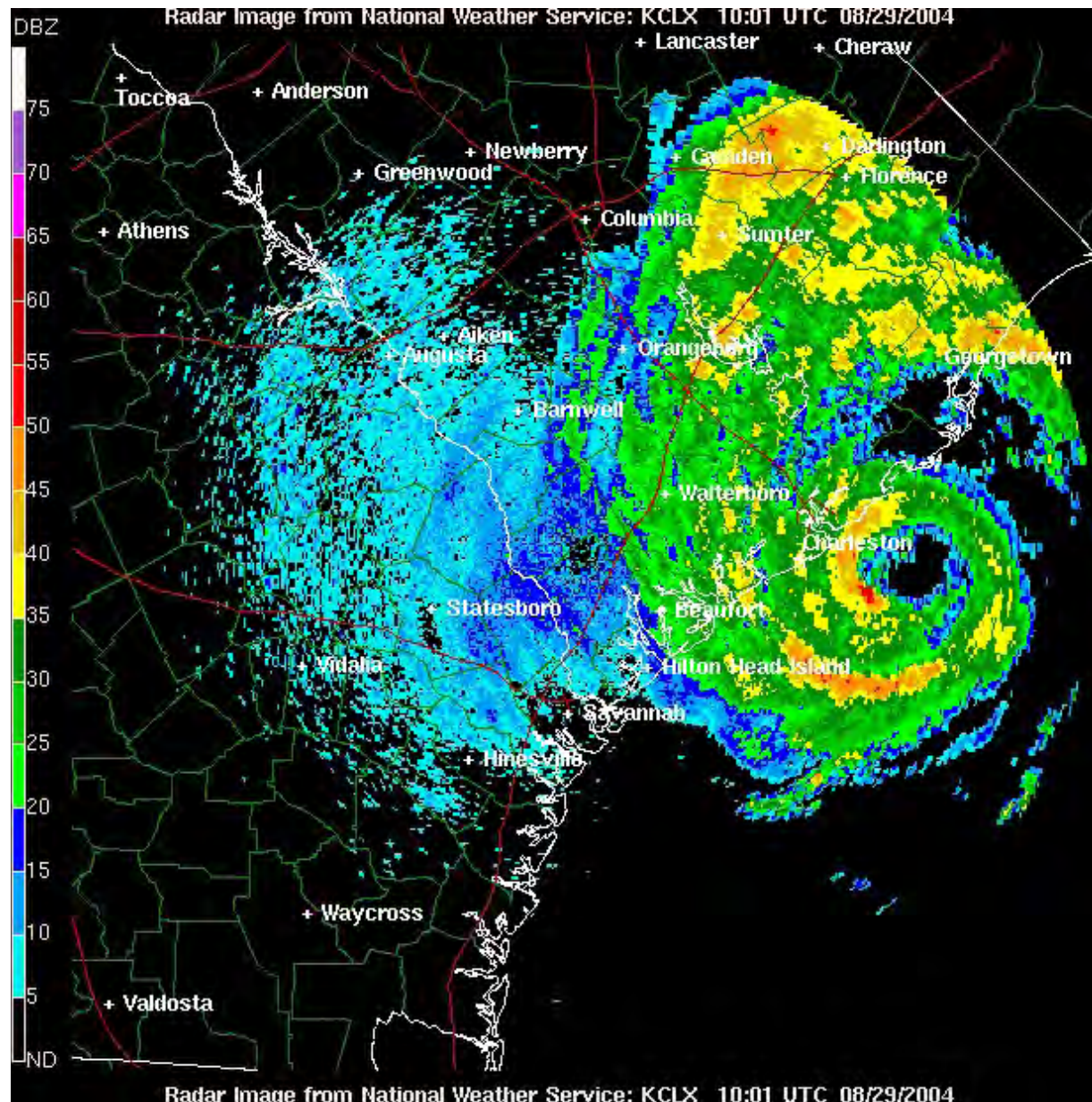


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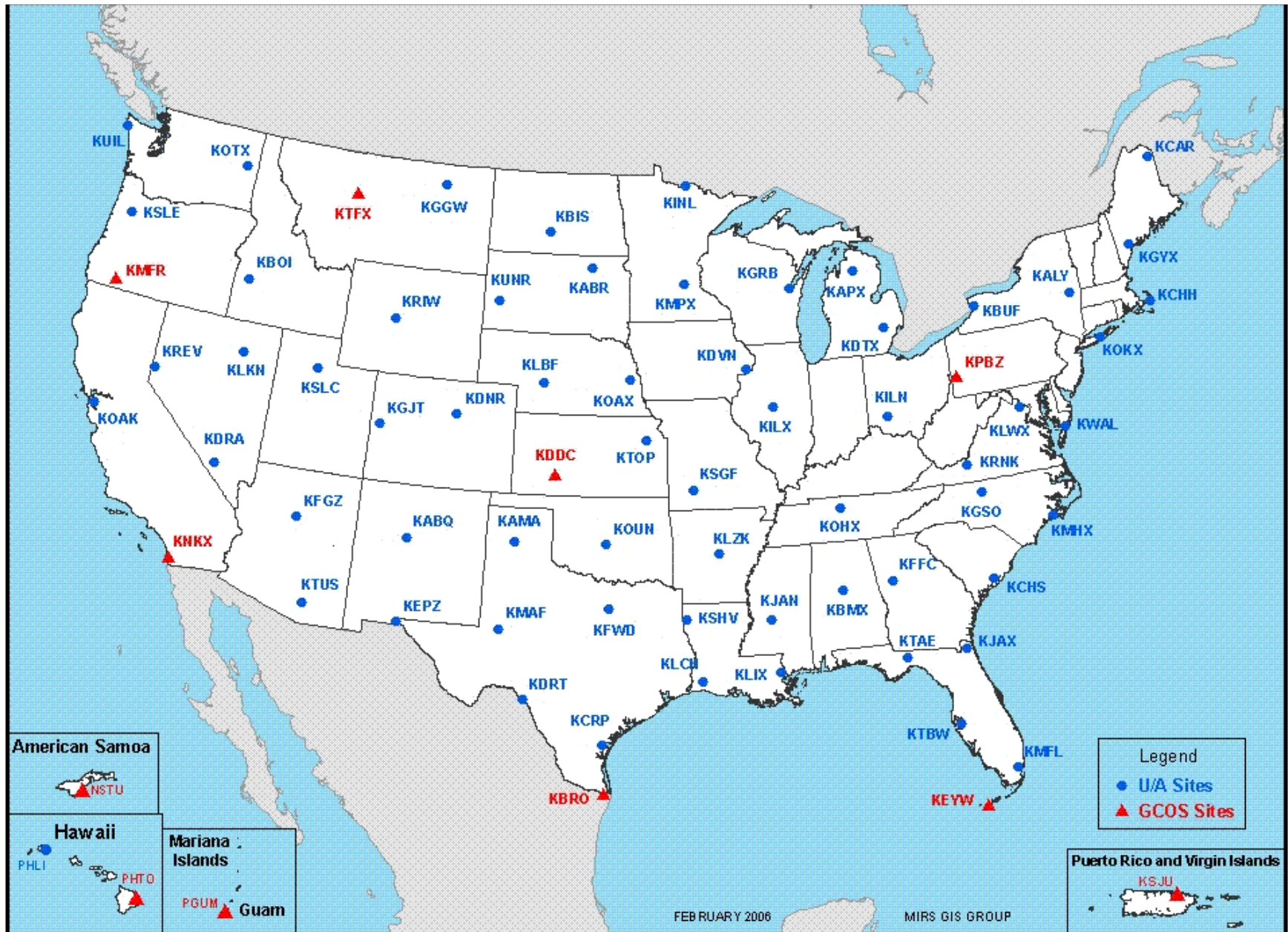
Upper-tropospheric moisture fields from geostationary satellite



National Weather Service radar imagery of tropical cyclone



National Weather Service upper air stations





Surface and rawinsonde obs.: 12 UTC 3 April 00

WIND SPEED (T)						
	5	10	15	35	50	120

WIND DIRECTION (dd)				
	Northerly (from the north) (0° or 360°)	Northeasterly (45°)	Southeasterly (135°)	Westerly (270°)

SKY COVER (N)					
	Clear	Scattered clouds	Broken clouds	Cloudy	Sky obscured (outer circle denotes calm wind)

FRONTS		Cold
		Warm
		Stationary
		Occluded

WEATHER (ww)									
	Light continuous rain	Moderate continuous snow	Rain shower	Past drizzle	Thunderstorm	Dense fog	Sleet or hail	Freezing drizzle	Blowing snow

Plotting model

TT	dd	ff	PPP
ww	(N)	±ppa	RR
T _d T _d			
T	Wind speed (kt)		
dd	Wind direction		
TT	Temperature (C)		
T _d T _d	Dew point (C)		
PPP	Pressure		
±ppa	Pressure tendency		
N	Sky cover		
ww	Weather		
RR	6h precipitation (in.)		

Example 1

21		247
10		+8
T	15	
dd	320	
TT	21	
T _d T _d	10	
PPP	1024.7	
±ppa	0.8 (rising, then steady)	
N	Clear	
ww	None	
RR	None	

Example 2

-1		037
-1		-18
-1		.15
T	Calm	
dd	—	
TT	-1	
T _d T _d	-1	
PPP	1003.7	
±ppa	1.8↓	
N	Sky obscured	
ww	None	
RR	0.15	

Example 3

17		936
15		+30
15		M
T	5	
dd	070	
TT	17	
T _d T _d	15	
PPP	993.6	
±ppa	3.0 (fall, then larger rise)	
N	Cloudy	
ww	Thunderstorm in past hour	
RR	Missing	