Table 34 Sea Surface Temperature

	Data type #1 **NOAA AVHRR**	**Data type #2** **MODIS SST**
Spatial Dimensions		
Area to cover	2400 x 6400 kilometers	2000 km wide segments
Mapping unit	1 km	1 km for level 2 daily product
Positional accuracy	Depends on level of Geo-referencing	Depends on level of Geo-referencing
Temporal Dimensions		
When	Approx. 1030hrs and 2230hrs	Approx. 1030hrs and 2230hrs
How often	Twice daily	Twice daily (AQUQ and TERRA)
Variable to map	Sea surface temperature	Sea surface temperature
Environmental / Sensor Restrictions	Clouds, strong winds and breaking waves.	Clouds, strong winds and breaking waves.
Processing technique **(Output)**	Image cover slicing and colour coding Map of SST variation	Image cover slicing and colour coding Map of SST variation
Resources – Hardware and Software	PC Image processing software	PC Image processing software
Resource – Personnel	Trained in image analysis and experience with AVHRR thermal data Knowledge of area to be mapped	Trained in image analysis and experience with MODIS thermal data Knowledge of area to be mapped
References: Note these are some example references	McClain et al (1985) Walton et al (1998)	Brown et al (1999)

Brown, O., Minnett, P., Evans, R., Kearns, E., Kilpatrick, K., Kumar, A., Sikorski, R., and Závody, A., (1999). "MODIS Infrared Sea Surface Temperature Algorithm Theoretical Basis Document Version 2.0." University of Miami*, NAS5-31361*.

McClain, E., Pichel, W., and Walton, C., (1985). "Comparative performance of AVHRR-based multichannel sea surface temperatures." Journal of Geophysical Research*,* 90: 11.

Walton, C., Pichel, W., Sapper, J., and May, D., (1998). "The development and operational application of nonlinear algorithms for the measurement of sea surface temperatures with the NOAA polar-orbiting environmental satellites." Journal of Geophysical Research*,* 103: 27,999-928,012.