Table 32 Hydro-optical Properties - Euphotic Depth

	DATA OPTION 1: MERIS	DATA OPTION 2: Lansat FTM
Spatial Dimensions		
Area to cover	Swath width 572 km	185 km x 185 km por scope
Alea lo covel		
Mapping unit	300 m	15 m panchromatic
		30 m multi-spectral
	Dependent on	Depends on level of Geo-
Positional accuracy	Geo-referencing process	referencing
Temporal Dimensions		
When	1030 hrs	Approx 09:45 am
How often	Every 3 days	Every 16 days
Variable to map	Euphotic Depth	Euphotic Depth
Environmental / Sensor Restrictions	Optically shallow areas	Optically shallow areas
	Clouds, strong winds and breaking waves	Clouds, strong winds and breaking wayes
Processing technique	Image based	Image based deterministic
	deterministic (inversion	(inversion of radiative
(Output)	of radiative transfer model).	transfer model).
	(Map showing CDOM	
	concentration in each	
	pixel)	50
Kesources – Hardware	PU Image processing	PU Image processing software
and Software	software with Hyper-	GIS with image classification
	spectral analysis	module (e.g. ARCGIS Image
	capabilities, including	Analyst)
	techniques.	
Resource – Personnel	Trained in hyper-spectral	Trained in image modellling
	aata processing. Knowledge of area to be	Experience with Landsat
	mapped	Knowledge of area to be
		mapped
Note these are some	Kratzer et al (2003)	Kratzer et al (2003)
example references		
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Marine Remote Sensing Application Tables,

Kratzer, S., Håkansson, B., and Sahlin, C., (2003). "Assessing secchi and photic zone depth in the Baltic Sea from satellite data." <u>AMBIO: A Journal of the Human Environment</u>, 32: 577-585.

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