## Table 24 Snow (water equivalent)

	DATA OPTION 1:
	Microwave sensor e.g.
Spatial Dimensions	
Area to cover	$1 \ln to 3600  \text{km}^2$
Mapping unit	5m -60m
Positional accuracy	Dependent on
Tomporal	geo-referencing process
Dimensions	
When	Approx 11 am
How often	Minimum every 4 days
Variable to map	Snow (water equivalent)
Environmental Restrictions	Cloud cover
	Vegetation cover
Processing technique	Image classification or feature detection to identify
(Output)	snow pixels, then snow
	water equivalent algorithm
	Land-cover type map and
	snow water equivalent
-	estimates
Resources – Hardware	PC Image processing software
and Software	GIS with image classification
	module (e.g. ARCGIS Image
Bassuras Barsannal	Analyst)
Resource – Personnei	classification
	Experience with microwave
	data
	Knowledge of area to be
References:	Foster et al. (2005)
Note these are some example	Bernier et al. (1999)
references	

Terrestrial; Remote Sensing Application Tables,

Foster, J. L., Sun, C., Walker, J. P., Kelly, R., Chang, A., Dong, J. and Powell, H. (2005). "Quantifying the uncertainty in passive microwave snow water equivalent observations." <u>Remote Sensing of Environment</u>, 94(2), 187-203.

Bernier, M., Fortin, J., Gauthier, Y., Gauthier, R., Roy, R. and Vincent, P. (1999). "Determination of snow water equivalent using RADARSAT SAR data in eastern Canada." <u>Hydrological Processes</u>, 13(18), 3041-3051.