

Feature	Satellite	Resolution	North Slope Coverage	Remarks
Sea ice concentration	DMSP SMM/I	12-25km	Daily (All)	Synoptic sea ice maps coverage back to 1979
Sea ice dynamics	DMSP SMM/I	12-25km	Daily (All)	Generalized ice movement
Ice type (age)	DMSP SMM/I	12-25km	Daily	Synoptic historical data
Detailed ice movement and reology	RADARSAT (SAR) Envisat (SAR) Palsar (SAR)	25-100m	100-500km swath	Detailed ice surface and movement; limited coverage
Leads	RADARSAT (SAR) Envisat (SAR) Palsar	25-100m	100-500km	Limited coverage
Marginal ice zone (MIZ)	SSM/I RADARSAT Envisat Palsar	5km 25-100m	Daily 100-500km swath	Historical data available back to 1990s for SAR
Land fast ice	RADARSAT (SAR) Envisat Palsar	25-100m	100-500km swath	Historical data back to 1990s
Ice edge Ice free-board (.3 m)	Geosat Envisat Others?	2.5 km	Nadir view 10km swath	Historical data set to 1990s exist