RADARSAT-1
Polar regions coverage Program

Satellite Operations
Space Operations

Presentation by
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Arctic Coverage (Winter 08)

Beam and mode: ScanSAR Wide A and B
Orbit: Asc. and Desc. Period: January 16 to 21, 2008
Target coverage: 31,613,297 km²
Coverage obtained: 28,546,807 km² (~90.3%)
Beam and mode: ScanSAR Wide A and B
Target coverage: 31,613,297 km²
Coverage obtained: 29,242,300 km² (~92.5%)
Arctic Coverage (Summer 2008)

Beam and mode: ScanSAR Wide A and B
Orbit: Asc. and Desc.  Period: May 2 to  Sept 21, 2008
Target coverage:    31,613,297 km²
Canadian Arctic Coverage (Jan- Jul 2008)
Greenland Coverage (Jan- Jul 2008)

Satellite Operations

Fine

Standard

ScanSAR Wide

Canadian Space Agency
Agence spatiale canadienne
Greenland Coverage (Jul- Sep 2008)

- Fine
- Standard
- ScanSAR Wide

Satellite Operations
1. Arctic Ocean 3-day snapshot
2. Antarctica Winter Pole-to-Shore InSAR coverage
   • MDA/GSI is proposing a plan
3. Greenland and Canadian Ice Fields InSAR coverage
   • 3-4 consecutive cycles during winter
4. Super Sites
RADARSAT IPY-STG Activities

1. Arctic Ocean 3-day snapshot

RADARSAT-2 one day “ScanSAR Wide A” coverage of the Arctic ocean. CSA will implement a similar coverage 8 times per 24-day cycle.
MDA/GSI is preparing a plan for these acquisitions

- Requires the development of a slew plan (left looking)
- Will start in mid-October
RADARSAT IPY-STG Activities

3. Greenland and Canadian Ice Fields InSAR coverage

RADARSAT-2 one cycle “Fine 3” coverage of Greenland. CSA will implement this plan in Background Mission for 3 consecutive cycles.

Period: Jan-Feb 2009.

This task carries its load of challenges as images strips are very long (some swaths over 65 frames long!) and may easily lose a conflict.
RADARSAT-2 August 16-17
“Fine Quad-pol” coverage of the Devon island test site.
RADARSAT IPY-STG Activities

4. Super Sites

CIM-2 (Canadian Interferometric Mission) and ASAP-2

RADARSAT-1 and 2
Canadian Arctic
October 2008 “Fine 1” coverage of permafrost regions.
To be repeated one cycle later.