

RADARSAT-2 – PRODUCT DETAILS

| BEAM MODE | PRODUCT | Nominal Pixel Spacing Range x Azimuth (metres) | Resolution Range x Azimuth (metres) | Nominal Scene Size Range x Azimuth (kilometres) | Range of Angle of Incidence (degrees) | No. of Looks Range x Azimuth | Polarizations Options |
|----------------------|----------|------------------------------------------------------|-------------------------------------------|-------------------------------------------------------|------------------------------------------|---------------------------------|------------------------------------|
| Spotlight | SLC | 1.3 x 0.4 | 1.6 x 0.74 | 18 x 8 | 20 - 59 | 1 x 1 | Single Pol HH or VV or HV or VH |
| | SGX | 1 x 1/3 | 4.31 – 1.8 x 0.74 | | | | |
| | SGF | 0.5 x 0.5 | | | | | |
| | SSG,SPG | | | | | | |
| Ultra-Fine | SLC | 1.3 x 2.1 | 1.6 x 2.8 | 20 x 20 | 20 – 59 | 1 x 1 | |
| | SGX | 1.0 x 1.0 or 0.8 x 0.8 | 4.3 – 1.8 x 2.8 | | | | |
| | SGF | 1.56 x 1.56 | | | | | |
| | SSG, SPG | | | | | | |
| Multi-Look Fine | SLC | 2.7 x 2.9 | 3.1 x 4.6 | 50 x 50 | 30 - 50 | 1 x 1 | |
| | SGX | 3.13 X 3.13 | 10.4-6.8 x 7.6 | | | 2 x 2 | |
| | SGF | 6.25 x 6.25 | | | | | |
| | SSG, SPG | | | | | | |
| Multi-Look Fine Wide | SLC | 2.7 x 2.9 | 3.1 x 4.6 | 90 x 90 | 30 - 50 | 1 x 1 | |
| | SGX | 3.13 x 3.13 | 10.4 - 6.8 x 7.6 | | | 2 x 2 | |
| | SGF | 6.25 x 6.25 | | | | | |
| | SSG,SPG | | | | | | |
| Fine | SLC | 4.7 x 5.1 | 5.2 x 7.7 | 50 x 50 | 30 – 50 | 1 x 1 | |
| | SGX | 3.13 x 3.13 | 10.4 – 6.8 x 7.7 | | | | |
| | SGF | 6.25 x 6.25 | | | | | |
| | SSG, SPG | | | | | | |
| Standard | SLC | 8.0 or 11.8 x 5.1 | 9.0 or 13.5 x 7.7 | 100 x 100 | 20 – 52 | 1 x 1 | |
| | SGX | 8.0 x 8.0 | 26.8 – 17.3 x 24.7 | | | 1 x 4 | |
| | SGF | 12.5 x 12.5 | | | | | |
| | SSG, SPG | | | | | | |
| Wide | SLC | 11.8 x 5.1 | 13.5 x 7.7 | 150 x 150 | 20 – 45 | 1 x 1 | |
| | SGX | 10.0 x 10.0 | 40.0 – 19.2 x 24.7 | | | 1 x 4 | |
| | SGF | 12.5 x 12.5 | | | | | |
| | SSG, SPG | | | | | | |
| ScanSAR Narrow | SCN | 25.0 x 25.0 | 79.9-37.7 x 60 | 300 x 300 | 20 – 46 | 2 x 2 | |
| ScanSAR Wide | SCW | 50.0 x 50.0 | 160.0 - 72.1 x 100 | 500 x 500 | 20 – 49 | 4 x 2 | |
| Extended High | SLC | 11.8 x 5.1 | 13.5 x 7.7 | 75 x 75 | 49 – 60 | 1 x 1 | |
| | SGX | 8.0 x 8.0 | 18.2 – 15.9 x 24.7 | | | 1 x 4 | |
| | SGF | 12.5 x 12.5 | | | | | |
| | SSG, SPG | | | | | | |
| Extended Low | SLC | 8.0 x 5.1 | 9.0 x 7.7 | 170 x 170 | 10 - 23 | 1 x 1 | |
| | SGX | 10.0 x 10.0 | 59.5-23.3 x 24.7 | | | 1 X 4 | |
| | SGF | 12.5 x 12.5 | | | | | |
| | SSG, SPG | | | | | | |
| Fine Quad-Pol | SLC | 4.7 x 5.1 | 5.2 x 7.6 | 25 x 25 | 18 – 49 | 1 x 1 | |
| | SGX | 3.13 x 3.13 | 16.5 – 6.8 x 7.6 | | | | |
| | SSG, SPG | | | | | | |
| Standard Quad- Pol | SLC | 8.0 or 11.8 x 5.1 | 9.0 or 13.5 x 7.6 | 25 x 25 | 18 – 49 | 1 x 1 | |
| | SGX | 8.0 x 3.13 | 28.6 - 17.1 x 7.6 | | | | |
| | SSG, SPG | | | | | | |

Notes:

1. Products available: Single Look Complex (SLC); Path Image (SGF); Path Image Plus (SGX); Map Image (SSG); Precision Map Image (SPG).
2. All products are georeferenced. SLC, SGX and SGF are aligned with the satellite track. SSG and SPG are on a map projection. SPG requires ground control points.
3. For SLC products the range coordinate is in radar slant range. All other products are in ground range.
4. Resolution is nominal. Ground range resolution varies with incidence angle.
5. Scene size is nominal. Products are available in longer strips in the azimuth direction.
6. Incidence angles are nominal values. They may be extended to lower and higher values in the future.
7. Polarizations Options: Single Pol: HH or VV or HV or VH, with the exception of Extended High (HH only); Dual Pol: (HH+HV) or (VV+VH); Quad Pol: (HH+VV+HV+VH)
8. All operating modes and product characteristics are subject to change. Some restrictions may apply.
9. The RADARSAT-2 SAR sensor is extremely flexible and programmable post-launch; resolution and swath width are examples of programmable beam parameters. Consequently, custom and new beam modes will be introduced in response to client's needs and market conditions.

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