Initial Calibration Result of JAXA standard products (As of October 23, 2006)

PRISM Level 1B2 data products
Radiometric Accuracy
1) Relative Accuracy
Better than 1.2% (better than 3DN)(RMS): Vertical streaking stripes may appear in some of the images with similar characteristics.
2) Absolute Accuracy
Better than 6.2 % (RMS)

Geometric Accuracy
1) Absolute Accuracy

<table>
<thead>
<tr>
<th>View Type</th>
<th>Error in pixel direction (cross track)</th>
<th>Error in line direction (along track)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward view (RMS)</td>
<td>13 m</td>
<td>64 m</td>
</tr>
<tr>
<td>Nadir view (RMS)</td>
<td>17 m</td>
<td>34 m</td>
</tr>
<tr>
<td>Backward view (RMS)</td>
<td>32 m</td>
<td>32 m</td>
</tr>
</tbody>
</table>

Absolute accuracy is defined as the RMS error; no reference is made to Ground Control Points (GCP).

2) Relative Accuracy

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</tr>
</thead>
<tbody>
<tr>
<td>Std. dev. in a scene (1σ)</td>
<td>4 m</td>
<td>6m</td>
</tr>
</tbody>
</table>

for all three kinds of views

AVNIR-2 Level 1B2 data products
Radiometric Accuracy
1) Relative Accuracy
Better than 0.4% (better than 1DN)(RMS)
2) Absolute Accuracy
Band 1 to 3: better than 6.2 % (RMS)
Band 4: better than 15.8 % (RMS)

Geometric Accuracy (for all pointing angles)
1) Absolute Accuracy

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<tbody>
<tr>
<td>(cross track)</td>
<td>(along track)</td>
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</table>

| RMS | 520 m | 370 m |

Absolute accuracy is defined as the RMS error; no reference is made to Ground Control Points (GCP).

2) Relative Accuracy

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</table>

| Std. dev. in a scene(1σ) | 14 m | 6 m |

PALSAR Level 1.1/1.5 data products

Radiometric Accuracy (for all off-nadir angles)
Absolute Gain 0.7dB(1σ)
VV/HH Gain Ratio (PLR) 0.023dB(1σ)
VV/HH Phase Difference (PLR) 0.104° (1σ)

Geometric Accuracy (for all off-nadir angles)
RMS 8m (Std Dev. 5m): FBS, FBD
RMS 11m (Std Dev. 6m): PLR
RMS Better than 100m: WB1, WB2

Evaluation Method

Radiometric Accuracy of PRISM/AVNIR-2
Compared with TERRA/AQUA MODIS data (over Desert, Ocean, etc.)

Geometric Accuracy of PRISM/AVNIR-2
Compared with GCPs (CAL/VAL sites) considering target height

Radiometric Accuracy of PALSAR
Analyzed data from Corner Reflectors (CAL/VAL sites) and uniform forests over Amazon

Geometric Accuracy of PALSAR
Compared with GPS measured data of Corner Reflectors (CAL/VAL sites) considering target height

Future Improvement

- Improve vertical streaking stripes of PRISM
- Improve geometric accuracy of PRISM/AVNIR-2