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

Error in pixel direction	Error in line direction
(cross track)	(along track)
13 m	64 m
17 m	34 m
32 m	32 m
	(cross track) 13 m 17 m

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

2) Relative Accuracy

	Error in pixel	Error in line	
	direction	direction	
	(cross track)	(along track)	
Std. dev. in a	4 m	6	for all three kinds of
scene(1 σ)		6m	views

AVNIR-2 Level 1B2 data products

- Radiometric Accuracy
- 1) Relative Accuracy

Better than 0.4% (better than 1DN)(RMS)

2)	Absolute	Accuracy
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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

	Error in pixel direction	Error in line direction
	(cross track)	(along track)
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

	Error in pixel direction	Error in line direction
	(cross track)	(along track)
Std. dev. in a scene(1 σ)	14 m	6 m

PALSAR Level 1.1/1.5 data products

 Radiometric Accuracy(for all off-nadir angles)
Absolute Gain 0.7 dB (1σ)
VV/HH Gain Ratio(PLR) 0.023dB(1 σ)
VV/HH Phase Difference(PLR) 0.104 (1 σ)
 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=""></evaluation>
 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>
- To improve vertical streaking stripes of PRISM
- To improve geometric accuracy of PRISM/AVNIR-2.