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) Forward view (RMS) 13 m 64 m Nadir view (RMS) 17 m 34 m Backward view (RMS) 32 m 32 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 (cross track)	Error in line direction (along track)	
Std. dev. in a scene(1σ)	4 m	6m	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 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(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) $0.023dB(1\sigma)$ VV/HH Phase Difference(PLR) $0.104^{\circ}(1\sigma)$ 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