### Calibration discussion

- We have explained about
  - -the results of pre-flight calibration
    - -- All Sensors were working fine.
    - -- All parameters necessary for L-1 algorithm were fixed.
    - -- Sensitivity decreasing phenomenon over the saturation

light level on Ocean Channels in VNIR2

- -calibration groups and its activities
- -schedule of initial checkout

#### Discussed in the ocean group

(We need to discuss with other Groups)

#### Calibration Discussion

#### A/I

- prepare a basic pre-flight characteristics of GLI as "Reference Handbook for PIs" before launch. Including:
- (1) Spectral Characteristics of each bands (already opened)
  (2) S/N, NE∠T
- (3) Dynamic Range
  - with sensitivity decay characteristics by over-saturation effect
- (4) Near-cloud behavior (Stray light by strong incident radiance)
- (5) Polarization sensitivity (analyzed for witness samples)
  (6) Reflectance vs. scan angle characteristics

(analyzed for witness samples)

#### Calibration Discussion

# Announcement for PIs welcome you for discussion in Cal WG.

#### Future Planning

- 1. Publish details of pre-flight characteristics & on-orbit behavior as "Technical Report" ASAP.
- 2. Further analysis for PFT & MDET (huge data set )
- 3. Prepare the on-orbit calibration including calibration data archiving system

#### GLI Mission Data Evaluation Test (Dec. 2000 – Mar.2001)

parameters		PFT (1998-1999)				Mission Data Evaluation Test	
		Ambient		T/V		Health check for	Adidtional
		VN/SW	MT	VN/SW	MT	VN/SW	Analysis
1	Scan angle	0	$\diamond$	$\diamond$	$\diamond$	evaluate using MTF	Analysis with
						data	witness sample
2	S/N	0		Ο		Same as PFT	
3	ΝΕΔΤ		$\diamond$		Ο		
4	Dynamic Range, Linearity	0		0	Ο	Same as PFT	PFT Analysis
5	MTF	0	$\diamond$	0	Ο	Same as PFT	
6	Polarization Sensitivity	0					PFT Analysis
7	Stray light	0	0				PFT Analysis
8	Flare	$\diamond$					
9	Optical Allignment	0	0			analyze MTF data	
10	Inter band Registration	0	0	0	0	analyze MTF data	
11	Deviation of the sensitivity	0	$\diamond$	0	0	Same as PFT	
12	Internal Lamp Callibration	0		0		Same as PFT	
13	Black Body Calibration				0		
14	Solar Light Calibration	0					
15	Thernal Band Output		$\diamond$			Same as PFT	
O: test data, ♦: Reference data							



#### **Outlines of GLI Initial Checkout**



+1M

<sup>+2</sup>M

#### Flowchart of GLI initial checkout



## Calibration activity in GLI cal/val phase (~L+12M) & Implementation schedule to Level 1 software (DRAFT)

