Harold Zwally

PROPOSED CHANGES

TO

MODIS-N SPECIFICATIONS

11 October, 1991

Dear MODIS Team Member:

Enclosed are the proposed changes to the MODIS-N specifications.

Please review these changes and comment to me by COB Wednesday, 17 October. Have we omitted anything which was discussed at the Science Team Meeting? Have we misstated any changes/recommendations?

Thank you for all your hard work at the October Science Team meeting. We expect that the next meeting will occur in the late Spring (April - May?).

Locke Stuart

cc:
V. Salomonson/900

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MODIS-N SPECIFICATIONS

1. **No changes are recommended** to the specified co-registration of IFOV's between different focal planes; however we intend to watch costs closely, and reserve the right to consider a waiver at some future juncture -- possibly granting a relaxation from 0.1 to 0.2 IFOV between the cooled and ambient focal planes.

2. Eliminate Band 29 HI (8.55 micrometer). Band 29 TMAX should remain at 324K.

3. Band 21 (3.75 micrometer) LTYPICAL should be changed from 300K to 335K with the 5K NEΔT applying at 335K.

4. Reduce the SNR of Band 6 (1.64 micrometer) to 275 at LTYPICAL.

5. Move Band 12 from 565 to 555 nm.

RECOMMENDATIONS TO SBRC

1. Assure that there is no "gap" (underlap) between scan lines (we understand that there may be as much as a 6% gap between pixels).

2. Label detectors **along track, in temporal sequence.**

PROPOSED ACTION ITEMS

1. Examine nonlinear gain in Band 21 to approximate constant NEΔT over entire range (MAX T = 700K). **(GSFC)**

2. Compare thermal calibration accuracy of GSFC report, SBRC study, and ATSR system calibration. **(GSFC)**

3. Determine allocation of sensor pointing knowledge between static and dynamic components. **(GSFC)**

4. Move Band 13 to either 620 nm or 667 nm. **(SBRC** address potential dichroic problem @ 620 nm; **Abbott** and **Gordon** study 620 & 667, respectively)

5. Research the possibility of moving Band 11 from 531 nm to 510 nm. **(Carder)**

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