

SUGGESTED CHANGES
TO THE
MODIS-N SPECIFICATION

1) Spectral Band Registration Requirement

The Specification currently requires ± 0.1 IFOV co-registration between corresponding IFOV's of any band.

A reasonable change to the specification would be the following:

a) ± 0.1 IFOV co-registration between corresponding IFOV's within any Focal Plane

b) ± 0.15 IFOV co-registration between corresponding IFOV's between the VIS and NIR Focal Planes

c) ± 0.15 IFOV co-registration between corresponding IFOV's between the SWIR/MWIR and LWIR Focal Planes

d) ± 0.2 IFOV co-registration between corresponding IFOV's between the ambient (VIS/NIR) and cooled (SWIR/MWIR / LWIR) Focal Planes.

2) NE Δ T requirements for spectral band 21 should be changed as follows:

T_{typ} should be changed from 300K to 335K
(NE Δ T of 5K applies at 335K instead of 300K)

3) Change the NE Δ T of Band 29 to 0.07K.

This would be compatible with the requirements for the other Surface Temperature bands 22 and 23.

4) Reduce the SNR of Band 6 to 275 at L_{typ} . This will allow the requirement to be met with reasonable margin without TDI or non-linear gain