Volume XXXIX-B1

Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XXXIX-B1,
www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XXXIX-
doi:10.5194/isprsarchives-XXXIX-B1-167-2012

CROSS-CALIBRATION OF THE RAPIDEYE MULTISPECTRAL I
PSEUDO-INVARIANT TEST SITES

M. Thiele, C. Anderson, and A. Brunn
RapidEye AG, Calibration & Validation, 14776 Brandenburg an der Havel, Mo

Keywords: Calibration, radiometric, pseudo-invariant sites, relative calibratio

Abstract. Radiometric calibration of the RapidEye Multispectral Imager (MSI) as with
is an essential task in the quantitative assessment of sensor image quality and the p
for a wide range of geo-spatial applications. Spatially and temporally pseudo-invaria
used to quantify and provide a consistent record of the radiometric performance c
RapidEye cross-calibration approach combines temporal and relative calibration to e
response between it's 5 identical MSI over time by using a large number of repetitiv
calibration sites. The approach is characterized by its known reliability which is basec
many ground collects with ground infrastructure or measurement systems not bein
the in-band percent difference in the measured response among all RapidEye senso
the results show some offsets between the different sensors, the response of the R
year period is very stable.

Conference Paper (PDF, 1267 KB)

Citation: Thiele, M., Anderson, C., and Brunn, A.: CROSS-CALIBRATION OF THE RA
PAYLOADS USING PSEUDO-INVARIANT TEST SITES, Int. Arch. Photogramm. Remote S
171, doi:10.5194/isprsarchives-XXXIX-B1-167-2012,

Bibtex EndNote Reference Manager XML