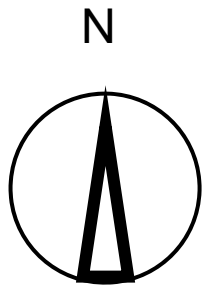
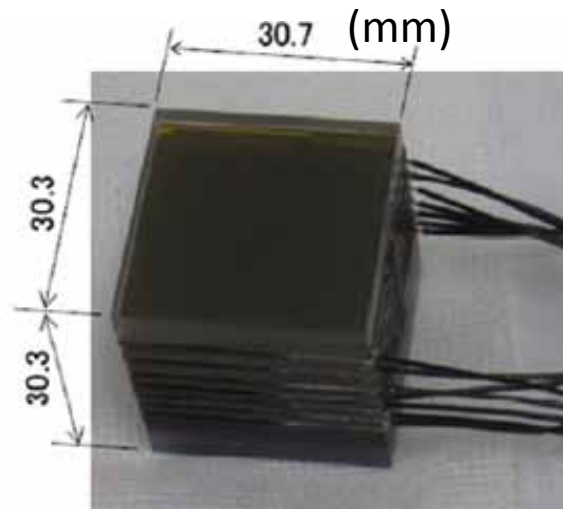
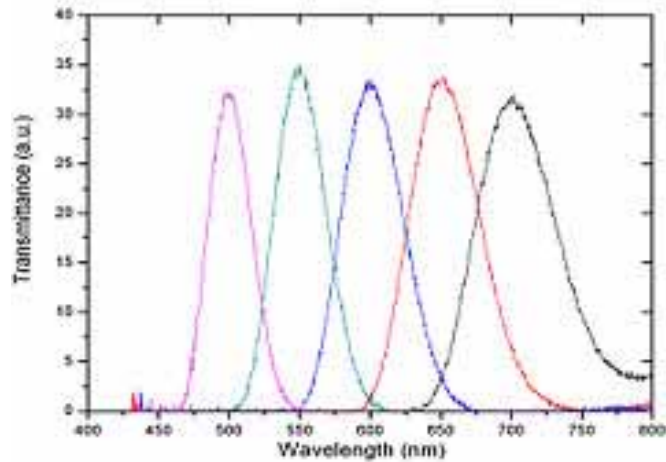
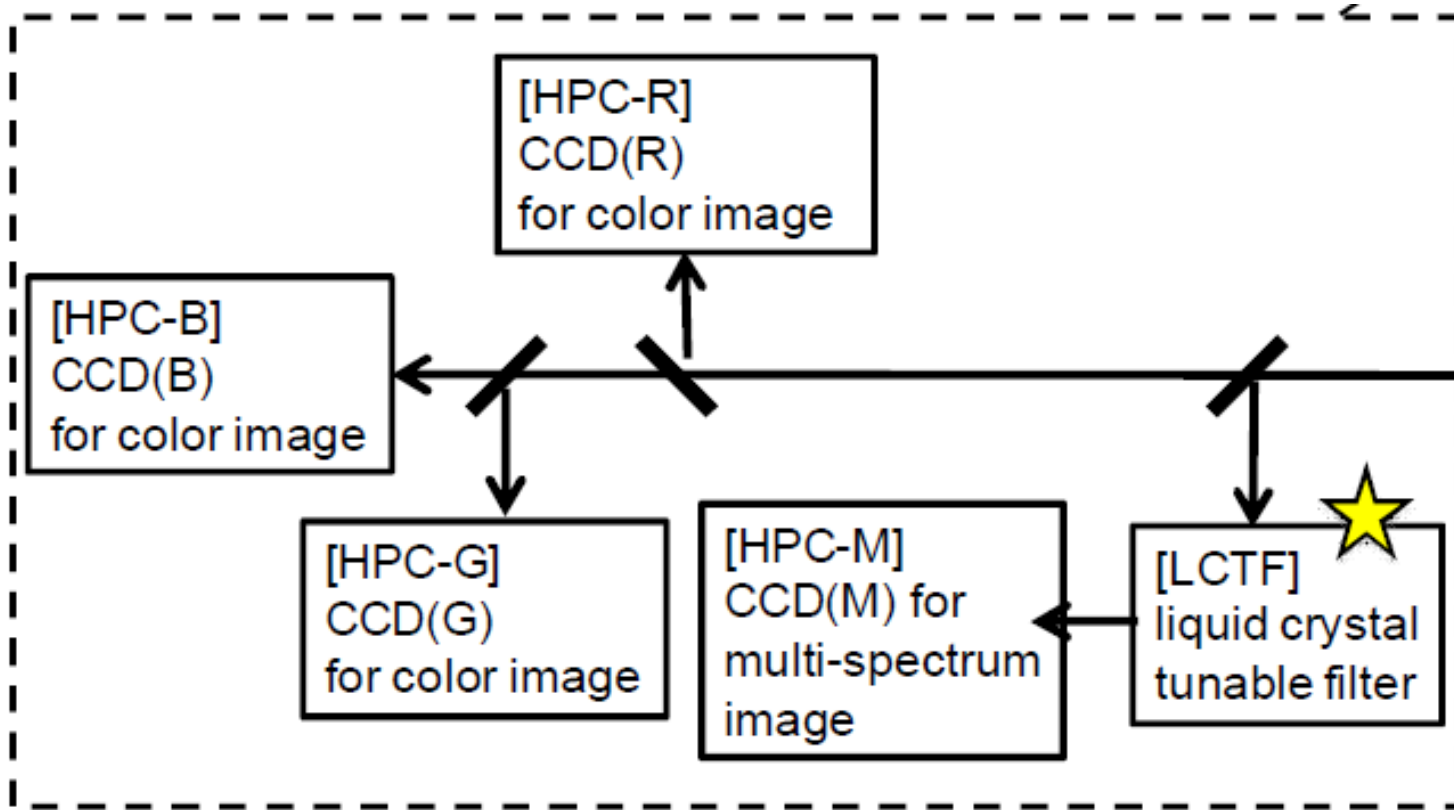


Close up of the area around Omaki Junior High School, Minami-Uonuma City.
Narrow pathways
(less than 5m width)
in rice fields are clearly identified.

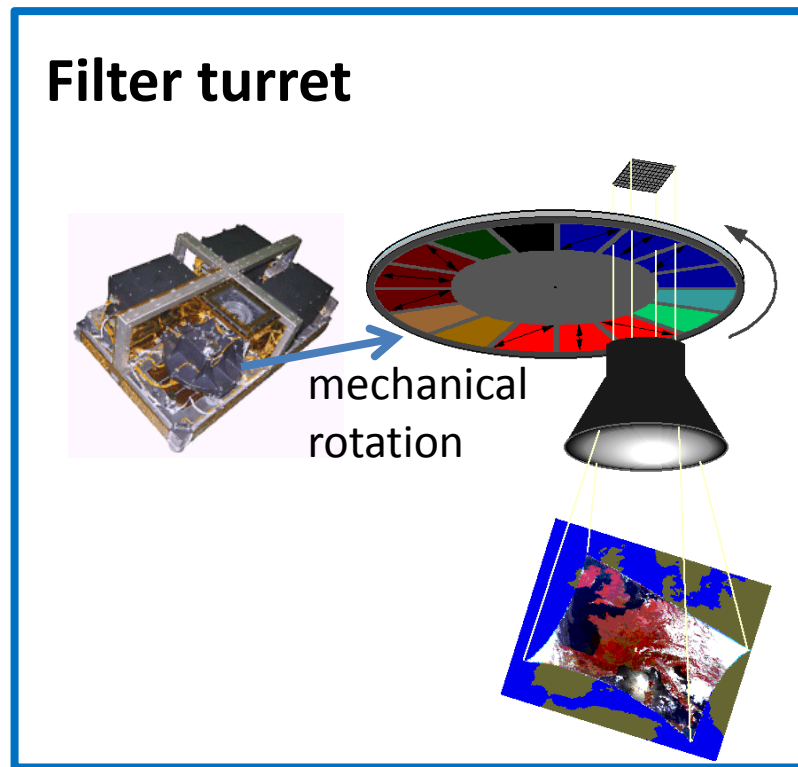
© Google Map



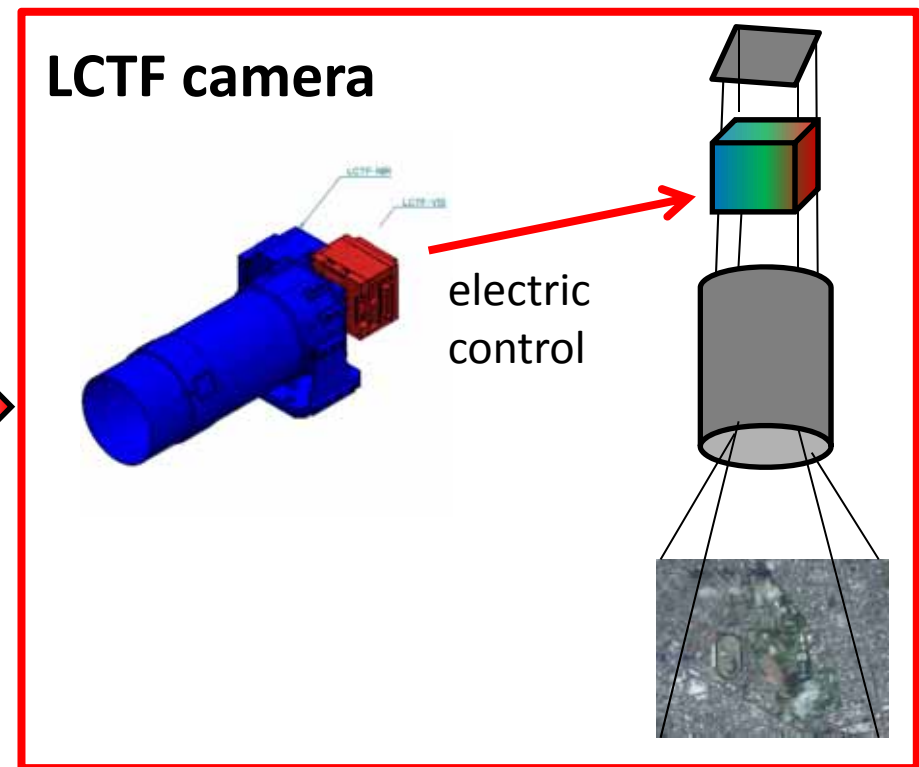


LCTF

従来型スペクトル観測装置は重く、大きく、高価



PARASOL/POLDER-3
weight: **32kg**
of bands: **15**



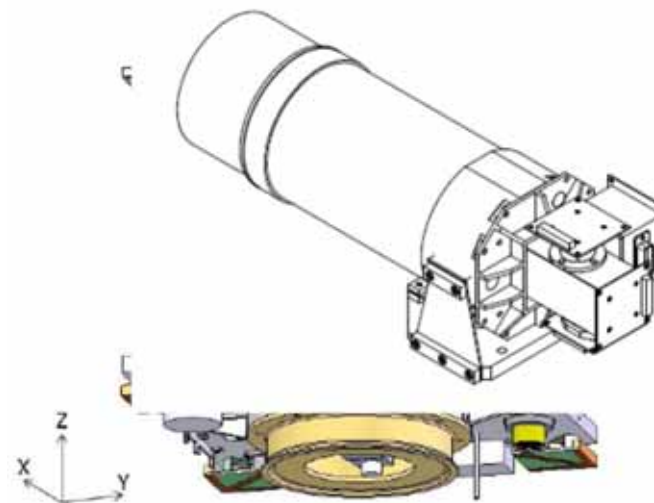
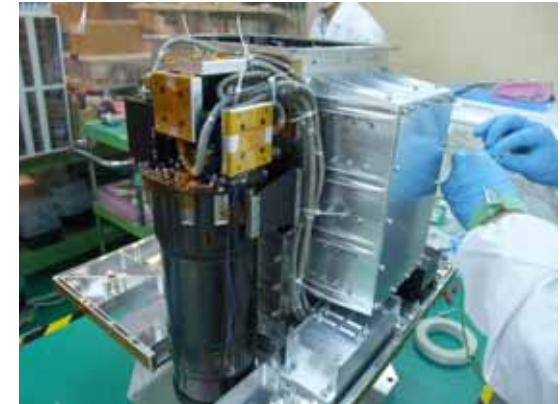
RISESAT/HPT
weight: **3kg**
of bands: **>630**

RISING-2衛星

2014年5月24日 打上げ

高精度 LCTF望遠鏡(スーパーマルチカラーカメラ)

- 小型 (40cm), 軽い(3kg), 堅牢 (CFRP)
- 低価格: 5千万円
- 特殊セラミックス(ZPF)ミラー
- 高機能CCDカメラ
gain range: 48dB, high-speed exp.: -1/50,000
- 解像度: 5 m/画素
- 400色 (Red, Green, Blue and 650-1050 nm with LCTF)



液晶フィルター-Liquid Crystal Tunable Filter: LCTF

10年前に米国某社に断られる → 日本が技術的に凌駕
世界初の飛翔体搭載用LCTF

S-NIR version 650-1050 nm

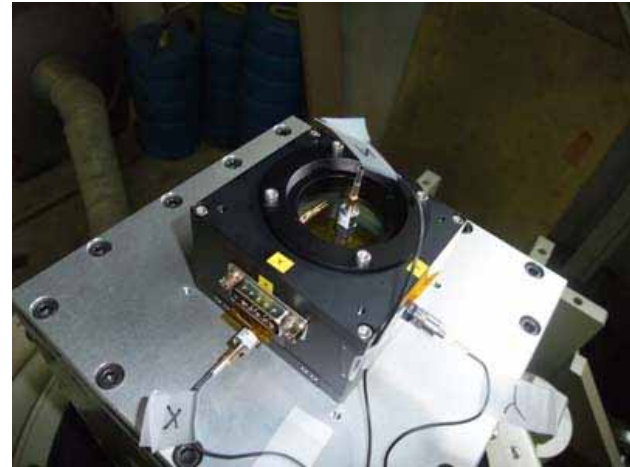
Visible version 400-720 nm

NIR version (planned) -2.4 μm

- FWHM=20 nm (5-20 nm)

- center wavelength 1 nm step

- change the color in 10-300 ms



-農業、森林: 650-720 nm

-炭素の河川流出

S/N特性

