



situation of operation at Tohoku University (or at home)

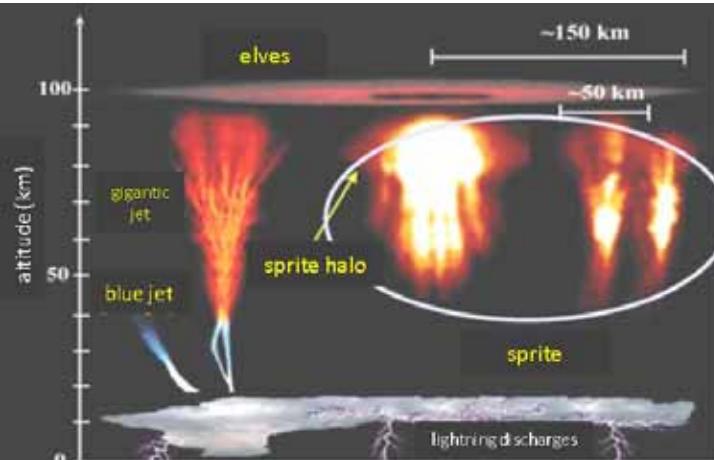
Mission Hardware of RISING-2

1) cumulonimbus



High Precision
Telescope (HPT)

2) terrestrial luminous events in upper atmosphere

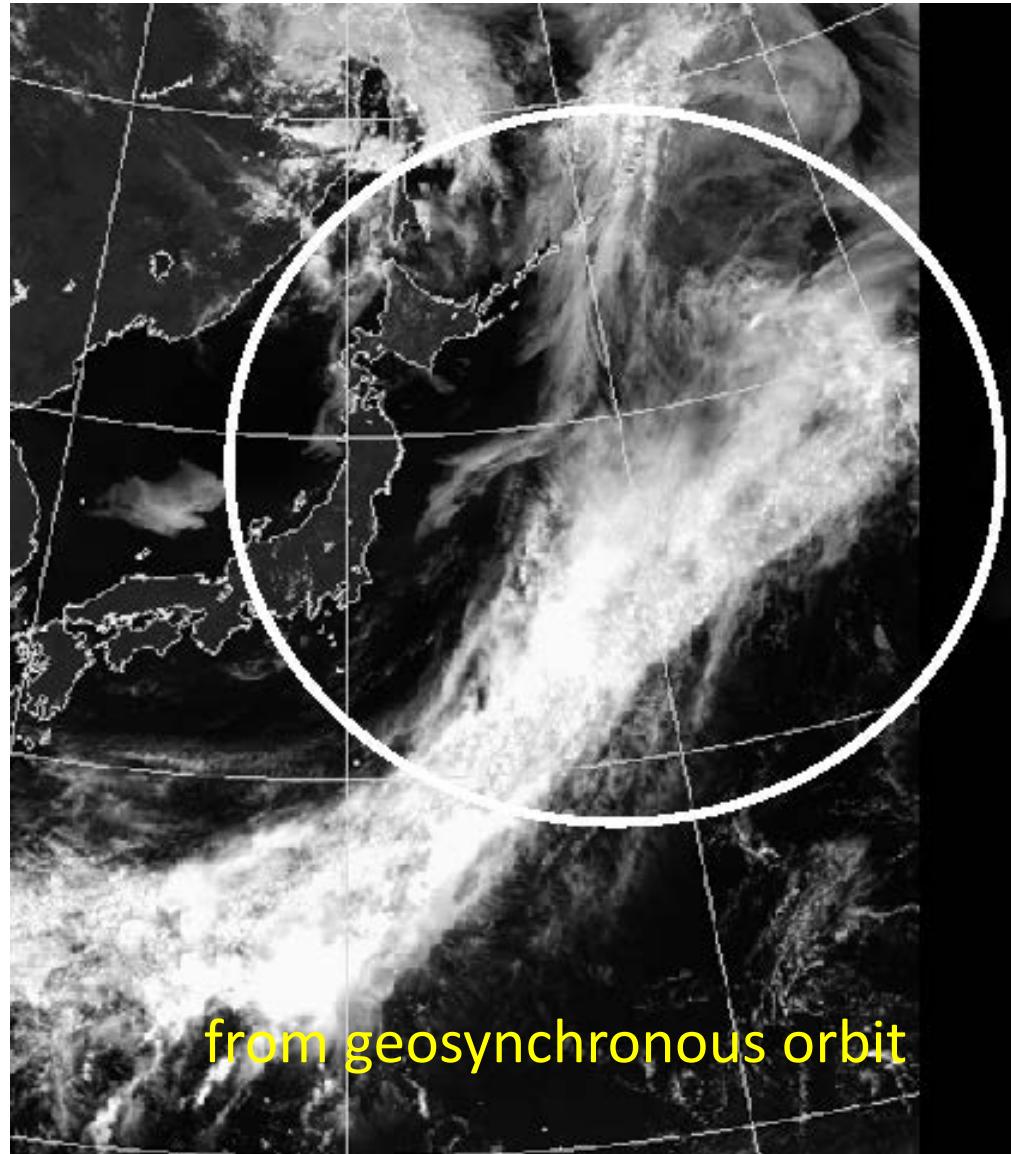


Wide Field CCD
(WFC)



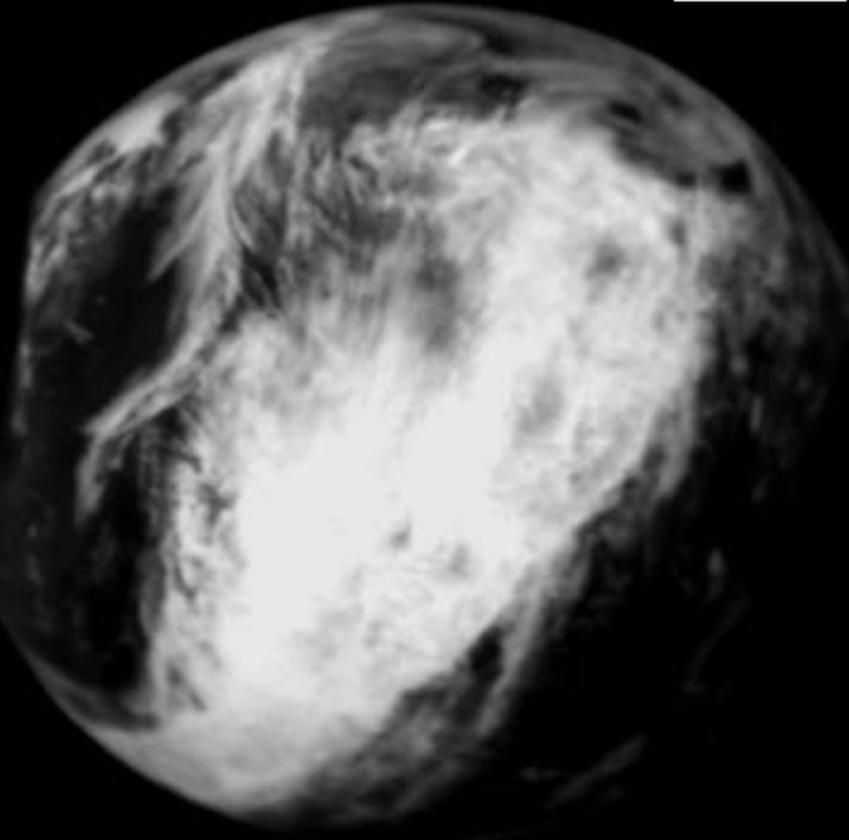
Lightning and Sprite
CMOS Imager
(LSI)

資料1



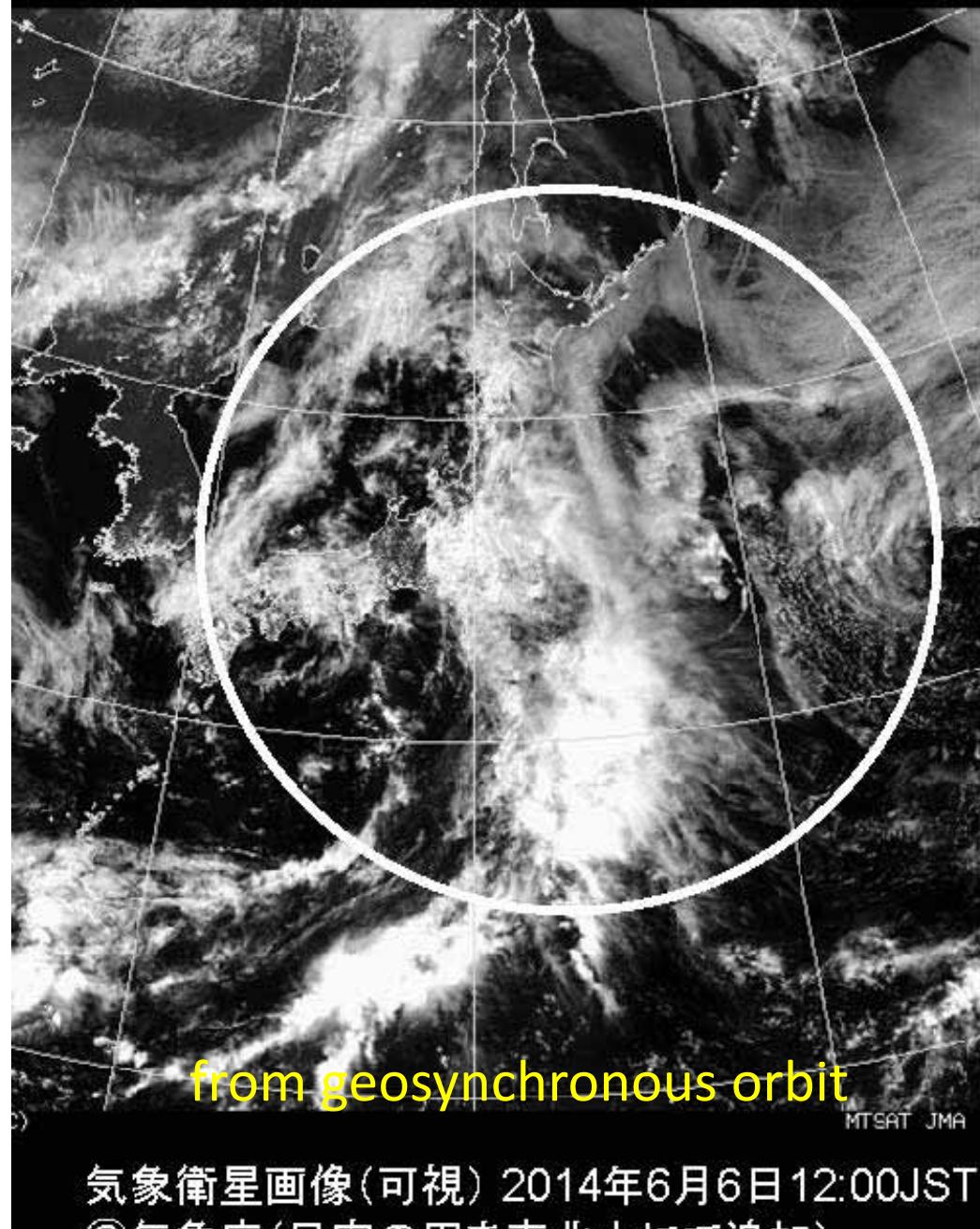
from geosynchronous orbit

気象衛星画像(可視) 2014年5月31日11:30JST
©気象庁(目安の円を東北大にて追加)



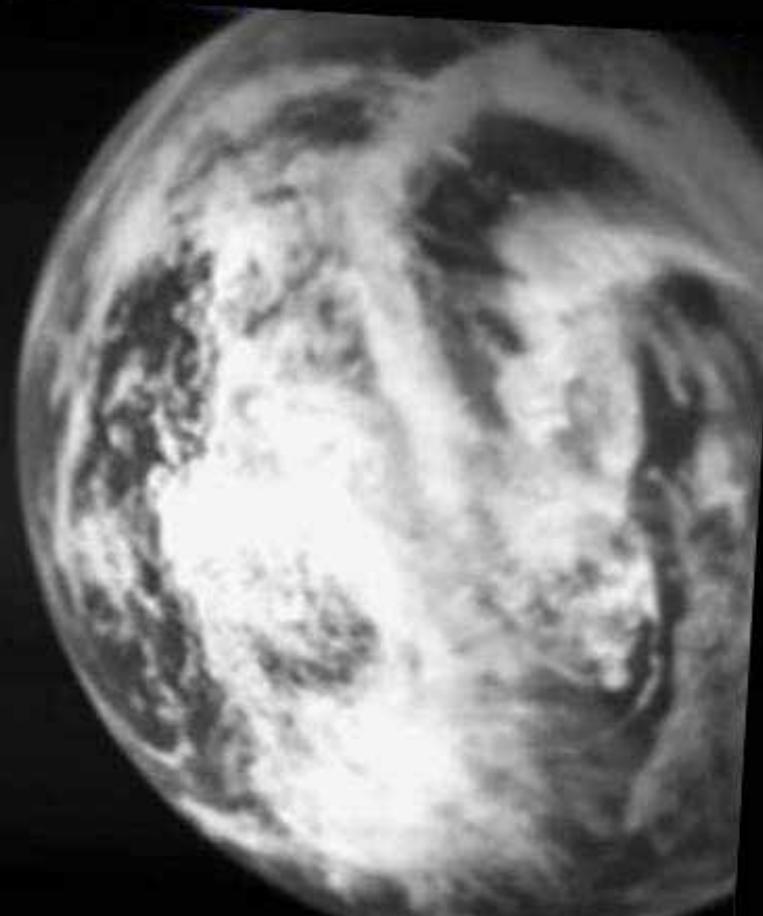
with fish-eye camera of
RISING-2

RISING-2画像(WFC)
2014年5月31日11:17JST
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気象衛星画像(可視) 2014年6月6日12:00JST
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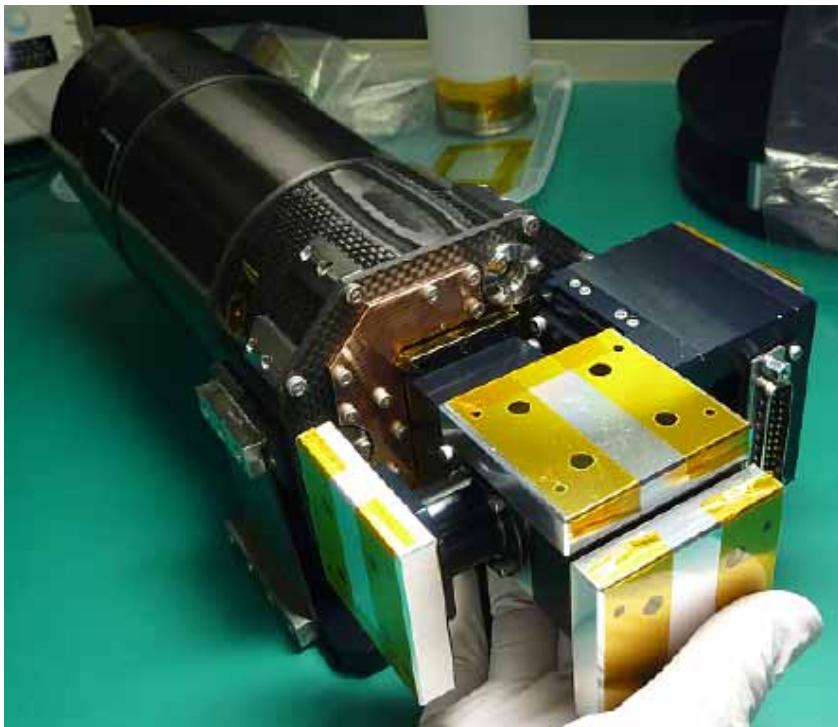
資料2



with fish-eye camera of
RISING-2

RISING-2画像(WFC)
2014年6月6日11:39JST
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High Precision Telescope with Liquid Tunable Filter (HPT with LCTF)



- Size W380xD161xH124mm
- Weight 2.50 kg
- 1-m focal length, 10-cm dia. (F10), Case grain telescope
- 5-m reso. (659 x 494 pixels)
- 3-CCD (R,G,B) + Multi spectrum CCD
- Liquid Crystal Tunable Filter (LCTF)
 - range: 650 - 1050nm
 - 1-nm step selection
 - 10-msec switching time
- High sensitive (ISO8000)
- 1/4000s min. exposure time
- light and strong stiffness CFRP structure
- zero-expansion high stiffness ceramic mirror (ZPF)



RISING-2 Tohoku Univ./Hokkaido Univ.

50 kg-クラスの衛星としては世界最高の5m解像度を達成