KAGUYA SCIENCE MISSION STATUS

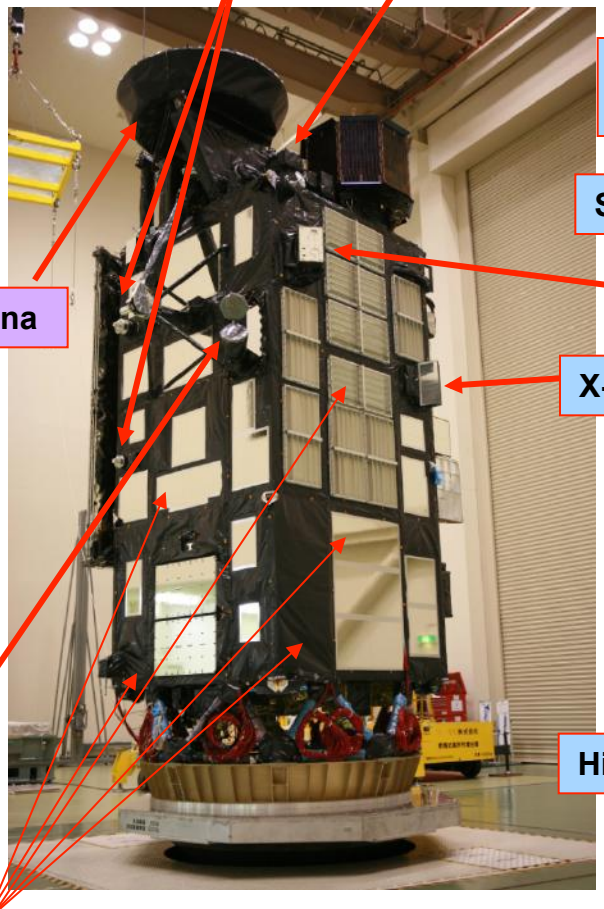
September 2008-

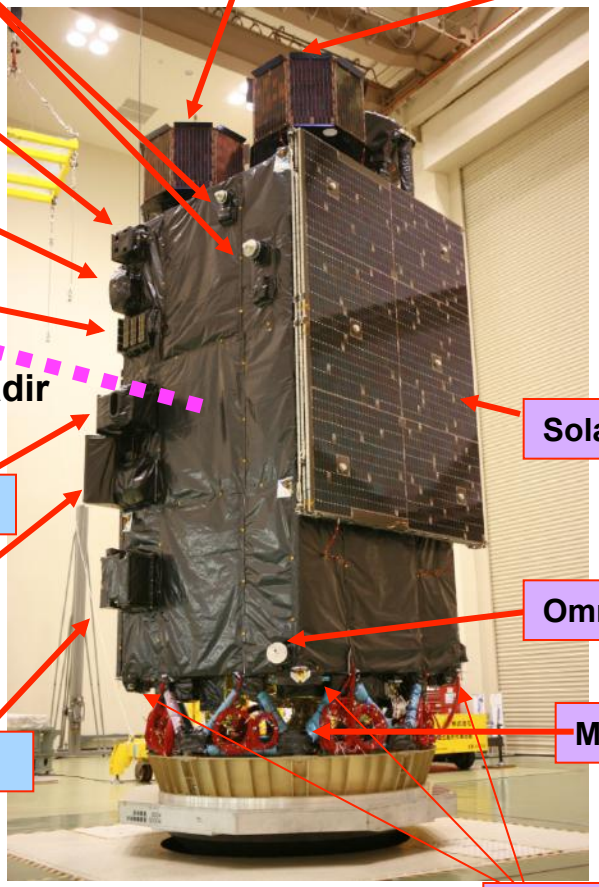
JAXA 宇宙航空研究開発機構

Mission Instruments

Category	Observation	Instrument	Measurement
Science of the Moon	Element Abundance	X-ray Spectrometer(XRS)	Al, Si, Mg, Fe, etc.・
		Gamma-ray Spectrometer(GRS)	U, Th, K, H etc.・
	Mineral Composition	Multi-band Imager(MI)	mineral distribution
		Spectral Profiler(SP)	mineral composition・
	Topography, Geological Structure	Terrain Camera(TC)	geographical features
		Lunar Radar Sounder(LRS)	subsurface structure
		Laser Altimeter(LALT)	topography
	Gravity Field	Differential VLBI Radio Source(VRAD)	lunar gravity field
		Relay Satellite(RSAT)	far side local gravity field
Science on the Moon	Magnetic Field	Lunar Magnetometer(LMAG)	magnetic field
		Electron Energy Analyzer(part of PACE)	surface magnetic field
	Crustal Activity	α-ray spectrometer of CPS	α particles
	Radiation Environment	Charged Particle Spectrometer(CPS)・	energetic particles
	Plasma Environment	Plasma Energy Angle and Composition Experiment(PACE)・	electrons and ions
	Ionosphere	Radio Science(RS)	ionospheric electrons
Science from the Moon	Solar-Terrestial Plasma Environment	Uppe-Atmosphere and Plasma Imager(UPI)	earth magnetosphere, aurora
		Wave Receiver(part of LRS)	planetary radiations
Publicity	Earth and Moon	High Definition TV(HDTV)	high-definition movie

Flight Configuration





PACE

UPI

PACE

VRAD Satellite

Relay Satellite

Tarrain Camera
Multi-band Imager

Spectral-profiler

CPS

High Gain Antenna

X-ray Spectrometer

nadir

Solar paddle

Laser Altimeter

Gamma-ray
Spectrometer

Omni Antenna

Star Tracker

High Definition TV Camera

Main engine

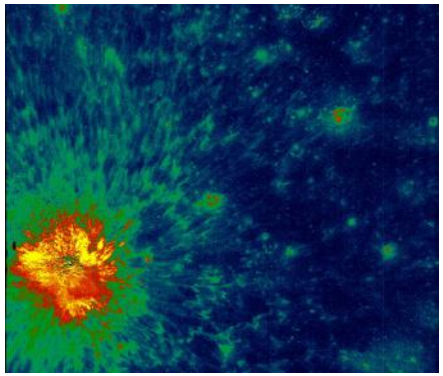
Thermal
Radiator

Thrusters

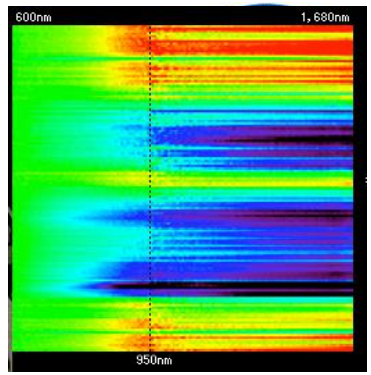
Mission
instrument

Bus sub-system

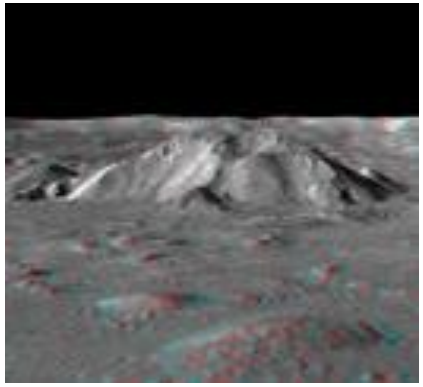
Typical Observation Data



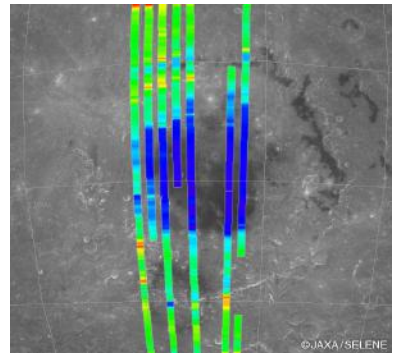
- Mineralogical Assemblage by Multi-band Imager and Spectral Profiler



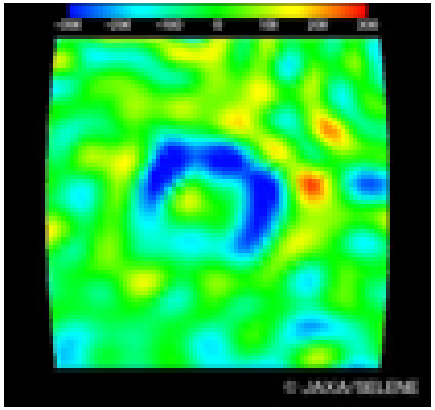
- Two Dimensional Image by Terrain Camera
- Height Distribution by Laser Altimeter

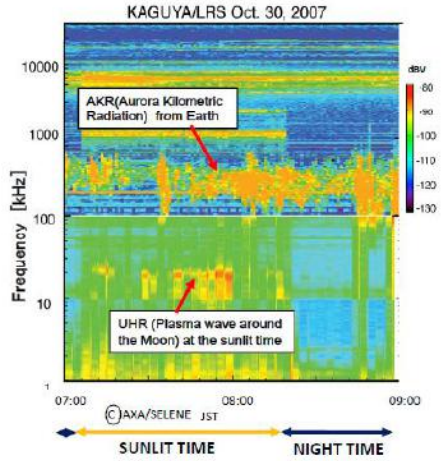


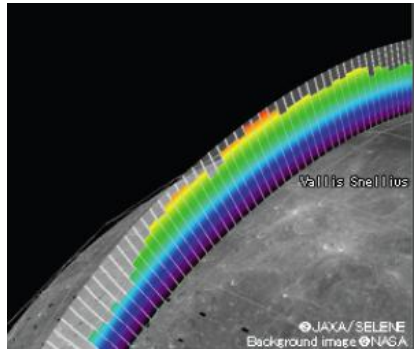
- Subsurface Structure by Radar Sounder Experiment
- Gravity Field Structure in the Far-side by 4-way Doppler Observation

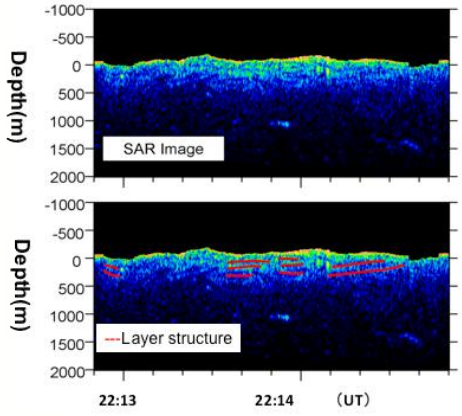


- Electromagnetic Environment by Wave Receivers and Plasma Analyzers









Mission Operation