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Sally K. Ride Papers - Climate Change Committees /Speeches [including a few by Ride]

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[[image - logo]]
EarthQuest
Winter 1988

Eos Instruments: Initial Operational Configuration (IOC)

Instruments in the Principal Investigator (PI) class, and advanced versions of other instruments, will be selected in response to Announcements of Opportunity by the United States (NASA), the European Space Agency (ESA), and Japan.

[[3 column table]]

|Instrument|Source/Platform|Objectives|

|---|---|---|

|ALT: Radar Altimeter|NOAA/1; ESA/3|Ocean circulation, surface topography|

|AMIR: Advanced Microwave Imaging Radiometer|Europe/3|Snow and ice extent and character, sea-surface winds, atmospheric water vapor, surface temperature|

|AMRIR: Advanced Medium Resolution Imagery Radiometer d |NOAA/1,3|Surface temperature, snow and ice extent, cloud properties, atmospheric temperature and water content|

|ASMR: Advanced Microwave Scanning Radiometer|Japan/1|Precipitation rate, snow and ice extent and character, sea-surface winds, atmospheric water vapor, surface temperature|

|AMSU: Advanced Microwave Sounding Unit d |NoAA-U.K./1,3|Surface temperature, atmospheric water content, atmospheric temperature|

|ARGOS+ French satellite-borne data relay and platform location system (advanced version) e |France/1,3|Data relay and location of ground-based measurement platforms|

|ATLID: Atmospheric Lidar|ESA/3|Aerosols and atmospheric parameters|


|ATSR: Along Track Scanning Radiometer|U.K.-Australia/3|Sea-surface temperature, atmospheric corrections|

|CR: Correlation Radiometer|PI/1|Tropospheric composition (carbon monoxide)|

|DB: Direct Broadcast|NOAA/1,2,3|Communications and data distribution|

|ERBI: Earth Radiation Budget Instrument|NOAA/1,3|Earth radiation budget on regional, zonal, and global scales|

|F/P-INT: Fabry-Perot Interferometer|PI/2|Upper-atmosphere wind velocities|



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Instrument	Source/Platform	Objectives
ALT: Radar Altimeter	NOAA/1; ESA/3	Ocean circulation, surface topography
AMIR: Advanced Microwave Imaging Radiometer	Europe/3	Snow and ice extent and character, sea-surface winds, atmospheric water vapor, surface temperature
AMRIR: Advanced Medium Resolution Imagery Radiometer ^d	NOAA/1,3	Surface temperature, snow and ice extent, cloud properties, atmospheric temperature and water content
ASMR: Advanced Microwave Scanning Radiometer	Japan/1	Precipitation rate, snow and ice extent and character, sea-surface winds, atmospheric water vapor, surface temperature
AMSU: Advanced Microwave Sounding Unit ^d	NOAA-U.K./1,3	Surface temperature, atmospheric water content, atmospheric temperature
ARGOS+ French satellite-borne data relay and platform location system (advanced version) e	France/1,3	Data relay and location of ground-based measurement platforms
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DB: Direct Broadcast	NOAA/1,2,3	Communications and data distribution
ERBI: Earth Radiation Budget Instrument	NOAA/1,3	Earth radiation budget on regional, zonal, and global scales
F/P-INT: Fabry-Perot Interferometer	PI/2	Upper-atmosphere wind velocities
GA-M: Scatterometer/Laser Ranging System	ESA/3	Sea-surface winds, ice flow, albedo, surface topography
SCRM: Global Ocean Remote Sensing Radiometer	NOAA/1	Sea-surface temperature and profile
WERS: High Resolution Imaging Spectrometer	NASA/1	Biological activity, land-surface composition
WERS: High Resolution Imaging Spectrometer	ESA/3	Biological activity, land-surface composition
WERS: High Resolution Imaging Spectrometer	PI/2	Composition of upper atmosphere, aerosols
WERS: High Resolution Imaging Spectrometer	Japan/1	Surface temperature, surface composition, biological activity
WERS: High Resolution Imaging Spectrometer	PI/2,3	Measurements of magnetospheric currents and fields
WERS: Medium Resolution Imaging Spectrometer	ESA/4	Global biological activity, land-surface composition, atmospheric activity, total aerosol column content, cloud properties
WERS: Microwave Limb Sounder	PI/2	Upper-atmosphere composition and pressure

|GLRS: Geodynamics Laser Ranging System|NASA/3|Tectonic-plate motions, ice flow, altimetry, surface topography|

|GOMR: Global Ozone Monitoring Radiometer|NOAA/1|Total ozone column content and profile|

|HIRIS: High Resolution Imaging Spectrometer|NASA/1|Biological activity, land-surface composition|

|HRIS: High Resolution Imaging Spectrometer|ESA/3|Biological activity, land surface composition|

|IR-RAD: Infrared Radiometer|PI/2|Composition of upper atmosphere, aerosols|

|ITIR: Imaging Thermal Infrared f |Japan/1|Surface temperature, surface composition, biological activity|

|MAG: Magnetosphere Currents/Fields|PI/1,2,3|Measurements of magnetospheric currents and fields|

|MERIS: Medium Resolution Imaging Spectrometer g |ESA/1|Ocean biological activity, land-surface composition and biological activity, total aerosol column content, cloud properties|

|MLS: Microwave Limb Sounder|PI/2|Upper-atmosphere composition and pressure|

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