EO-RA4 Research Category

Satellite Project Research

(A) AMSR3 & GCOM-W	①Algorithm Development ②Calibration/Validation	③Earth Observation Research Program (Applied Research)
(B) GCOM-C	①Algorithm Development ②Calibration/Validation	③Earth Observation Research Program (Applied Research)
(C) GPM & PMM	①Algorithm Development ②Calibration/Validation	③Earth Observation Research Program (Applied Research)
(D) EarthCARE	①Algorithm Development ②Calibration/Validation	③Earth Observation Research Program (Applied Research)
(E) ALOS-2/ ALOS-4	①Algorithm Development ②Calibration/Validation	③Earth Observation Research Program (Applied Research)
(F) MOLI	①Algorithm Development ②Calibration/Validation	N/A
(G) Multi-satellite utilization	N/A	③Earth Observation Research Program (Applied Research)

Earth Observation Research Programs

(1) Disaster Prevention, Mitigation and National Resilience		①Preparing for and responding to water-related disasters, earthquakes, volcanic eruptions, etc. ②Fundamental information and digital national land for national resilience ③Improving forecast of extreme events that cause weather and water-related disasters
(2) Contribution to Climate Change Solutions	**(2-a) Atmosphere**	①Observation of GHG concentration distribution in the earth's atmosphere and estimation of CO_2 absorption, CO_2 and CH_4 emissions by source, and contribution toward GST ②Clarifying true state of past and present global warming and improving future projections and understanding radiative forcing ③Monitoring and predicting water cycle variations ④Adaptation to variation of water resources
	(2-b) Land	①Management of forests as CO2 sinks, and carbon budget ②Understanding and predicting biodiversity and its environment ③Understanding and predicting of terrestrial hydrology and cryosphere
	(2-c) Ocean	①Ocean carbon budget and cycle ②Monitoring/prediction and conservation of the ocean environments ③Marine bioresource management ④Understanding and predicting environment changes in the polar oceans
(3) Contribution to socio-economic issues		①Contribution to socio-economic benefits related to carbon neutrality ②Strengthening food security ③Smart agriculture, forestry and fishery ④Acquisition and use of environmental information related to public health ⑤Creation of environmental information related to atmospheric environment ⑥Creation of information for decision-making through combined use of satellite and socio-economic data ⑦Providing information to secure natural resources and energy ⑧Contributing to climate change solutions through ESG Investments ⑨Education in remote sensing