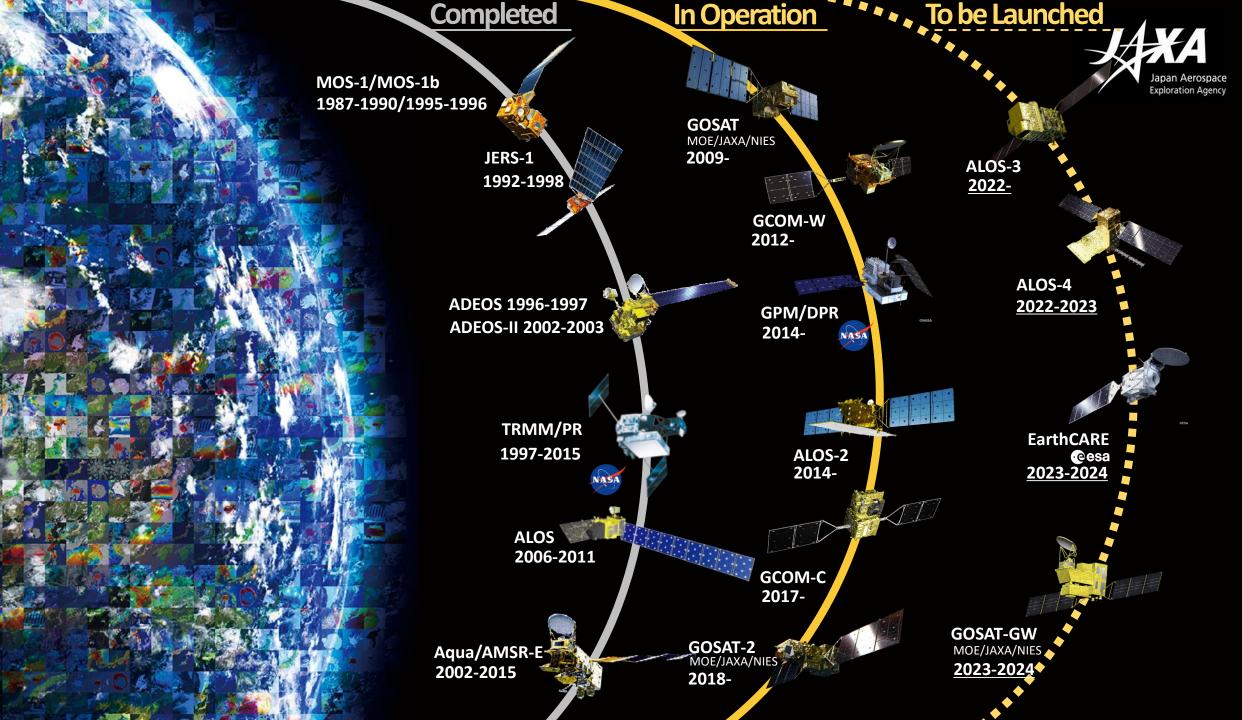
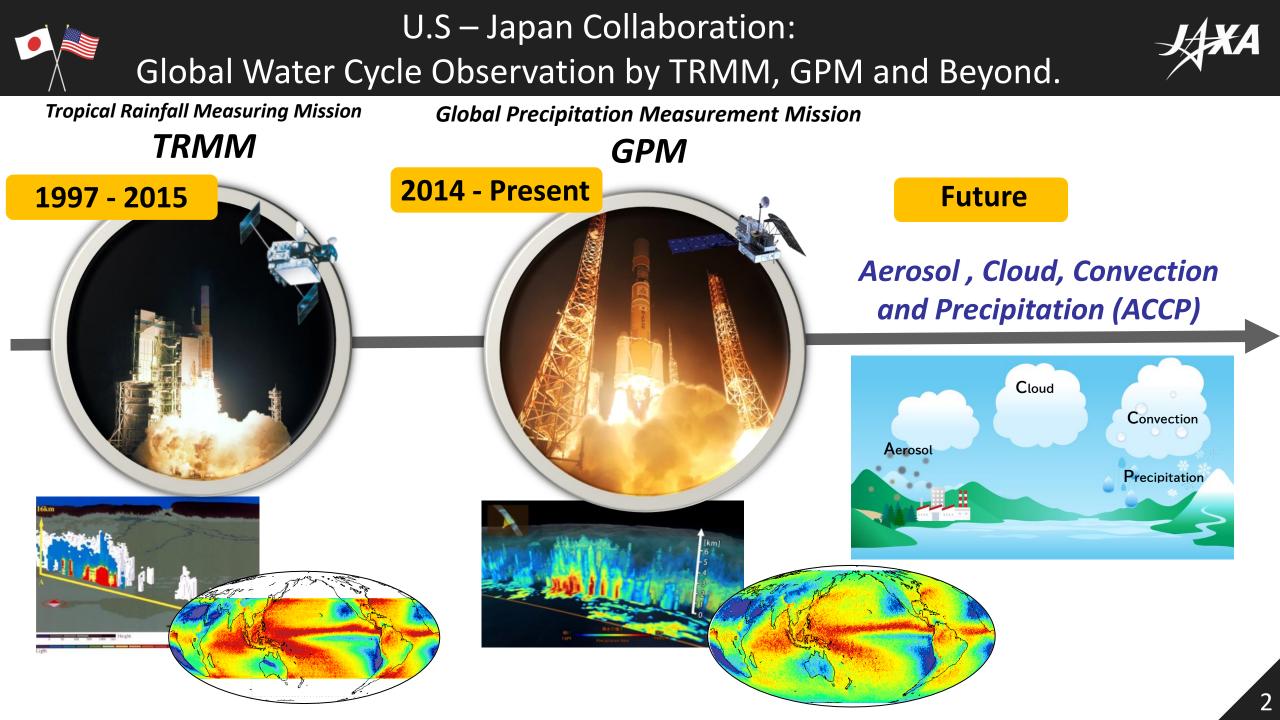


JAXA Satellite Missions Addressing Water Issues

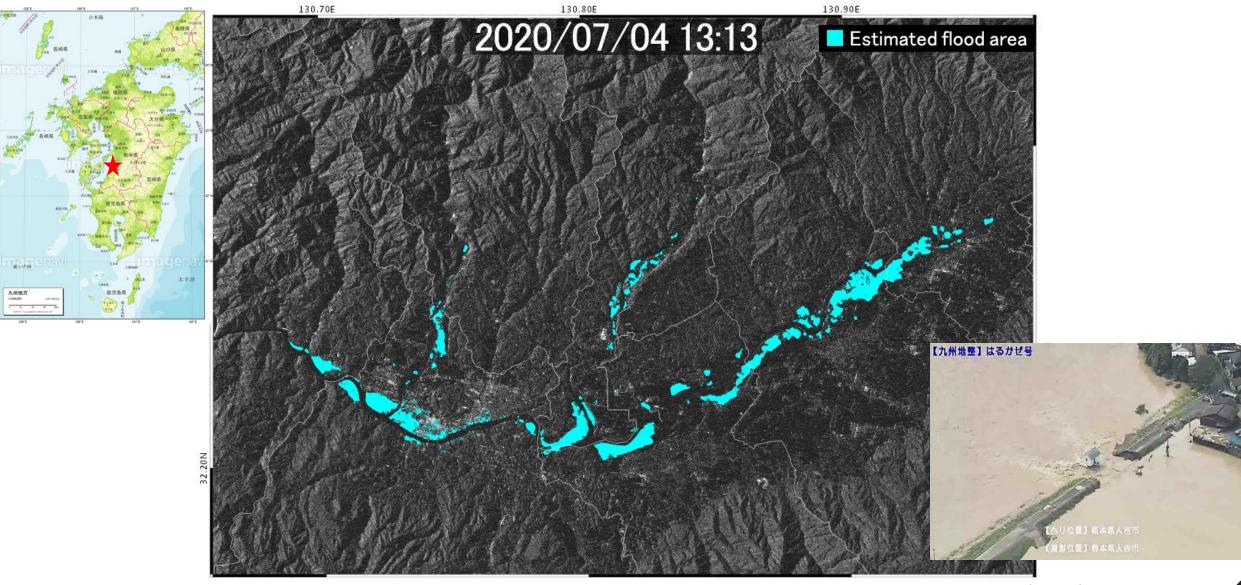
April 23, 2022

YAMAKAWA Hiroshi President Japan Aerospace Exploration Agency





Contribution to Disaster Management: "DAICHI-2" (ALOS-2) observation

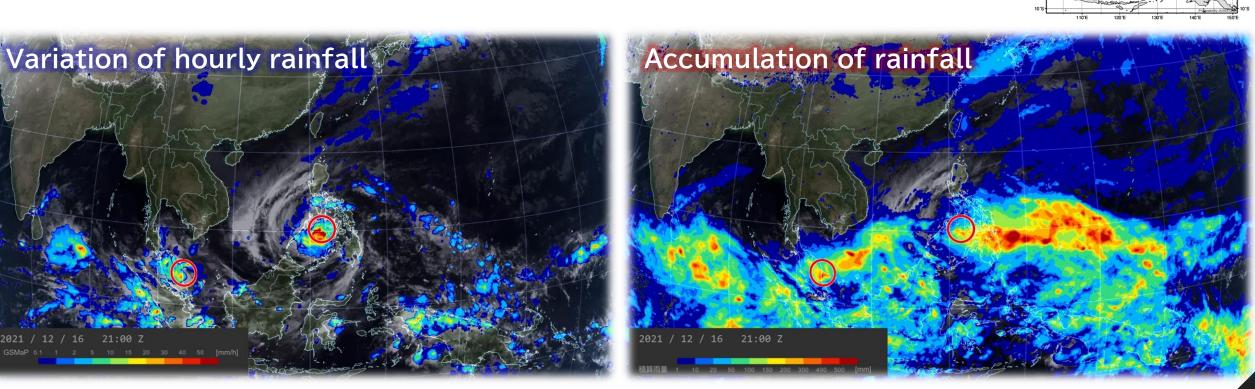


Inundated area around the Kuma river (July 2020)

Photo by Ministry of Land, Infrastructure, Transport and Tourism, Kyusyu Regional Development Bureau Contribution to Disaster Risk Reduction & Water Resource Management: Global Satellite Mapping of Precipitation (GSMaP)

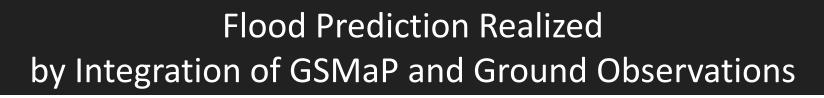


GSMaP captures the Typhoon Rai passage from the east of the Philippine Sea to the westward.



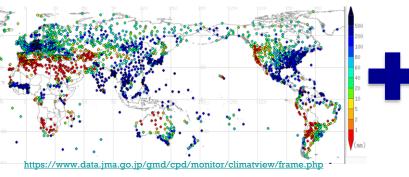
Precipitation from December 13 to 20, 2021 based on GSMaP

yphoon Track

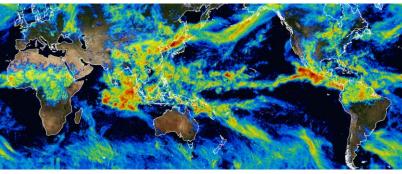




Ground observations



Satellite precipitation (GSMaP)

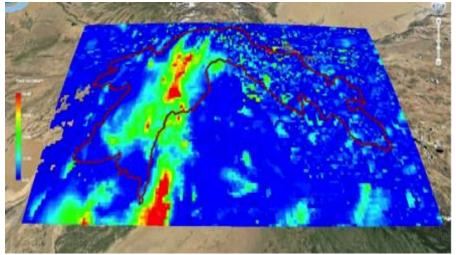


Partners



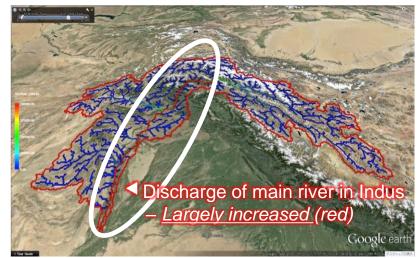
Rainfall over the river basin

during flood in Pakistan



River discharge using GSMaP

by Integrated Flood Analysis System (IFAS)



(Images provided by ICHARM)

Water related disasters cause human suffering in Asia Pacific Region









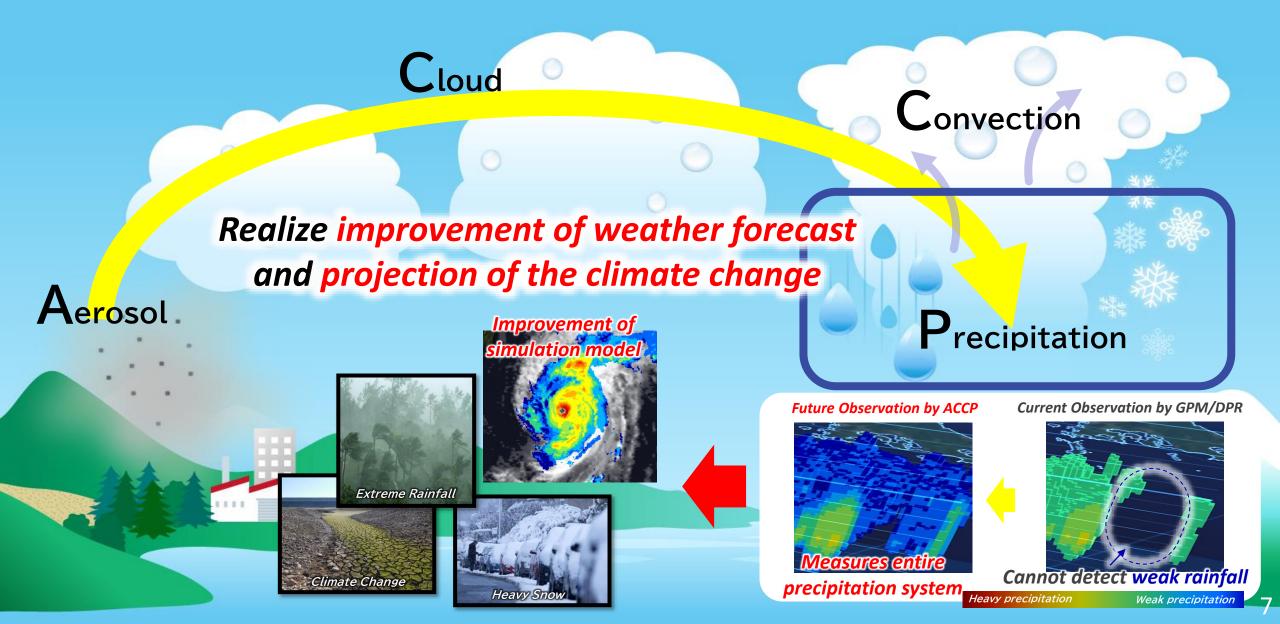
Average annual deaths per 100,000 population

Country or Pagion	Number of annual deaths per 100,000 population		Rank
Country or Region			World
Philippines	1.217		10
Thailand	0.180		44
India	0.133		58
Japan	0.090		70
U.S.A.	0.080		76
Indonesia	0.059		85
Korea	0.057		86
China	0.047		92
Taiwan	0.025		117
Italia	0.020		123
France	0.019		124
Germany	0.005		152
U.K.	0.005		154
Canada	0.004		156
Netherlands	0.003		160 apan Society of Civil Engineer

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Toward Realization of Further Improvement of Weather Forecast & Projection of the Climate Change





Space Technologies for our Prosperous and Sustainable Future