

ISRO: DPN Report -2019

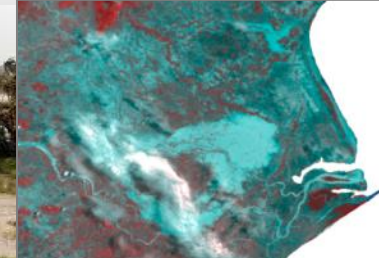
Abhinav Kumar Shukla

abhinavkumar_s@nrsc.gov.in

Disaster Management Support Division

National Remote Sensing Centre, ISRO

Hyderabad



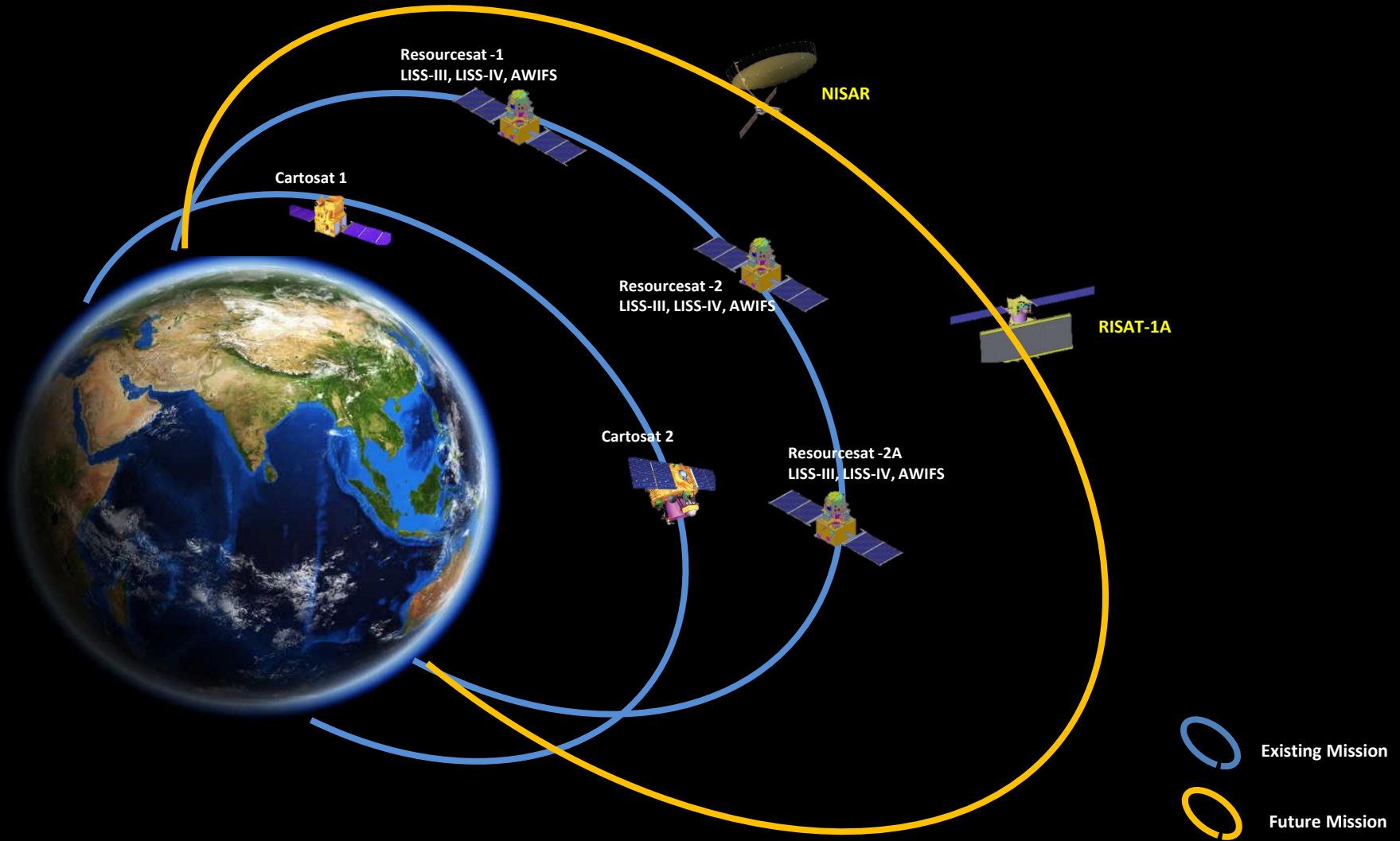
Decision Support Centre, NRSC-ISRO

ISRO Disaster Management Support (DMS) Programme established Decision Support Centre (DSC) at National Remote Sensing Centre (NRSC), ISRO as a delivery point for space and aerial enabled inputs for disaster management

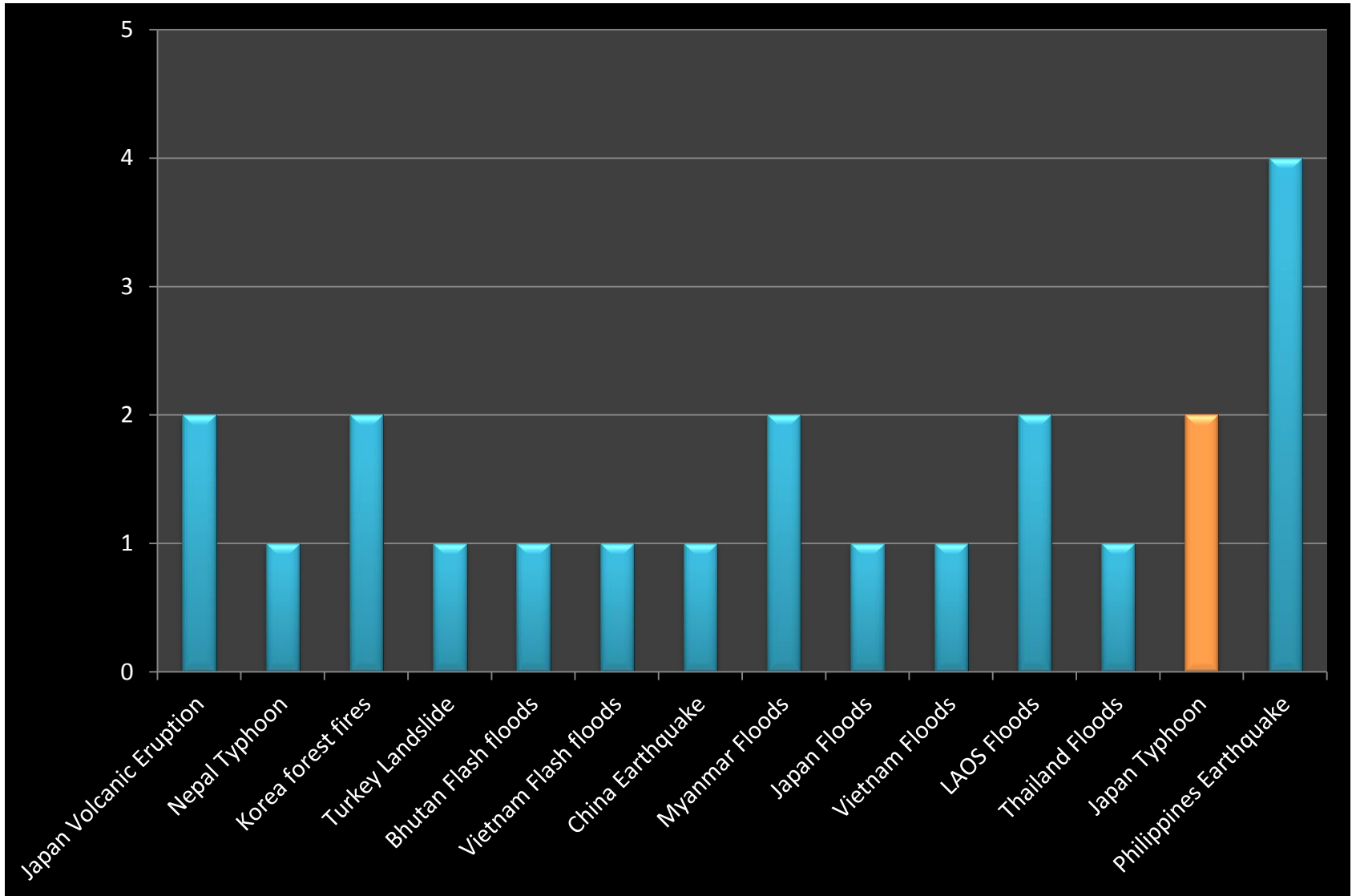
Major Activities

- Near real time monitoring of disasters (floods, cyclones, forest fires, landslides, earthquakes)
- Generation of vulnerability and hazard zonation maps and provide information for planning disaster mitigation measures.
- Provides comprehensive disaster specific multi-scale database through NDEM
- Providing inputs to MHA, NDMA, CWC, IMD, Central & SDMA
- Disaster Early Warning
- Capacity Building
- **Sentinel and Charter activities**









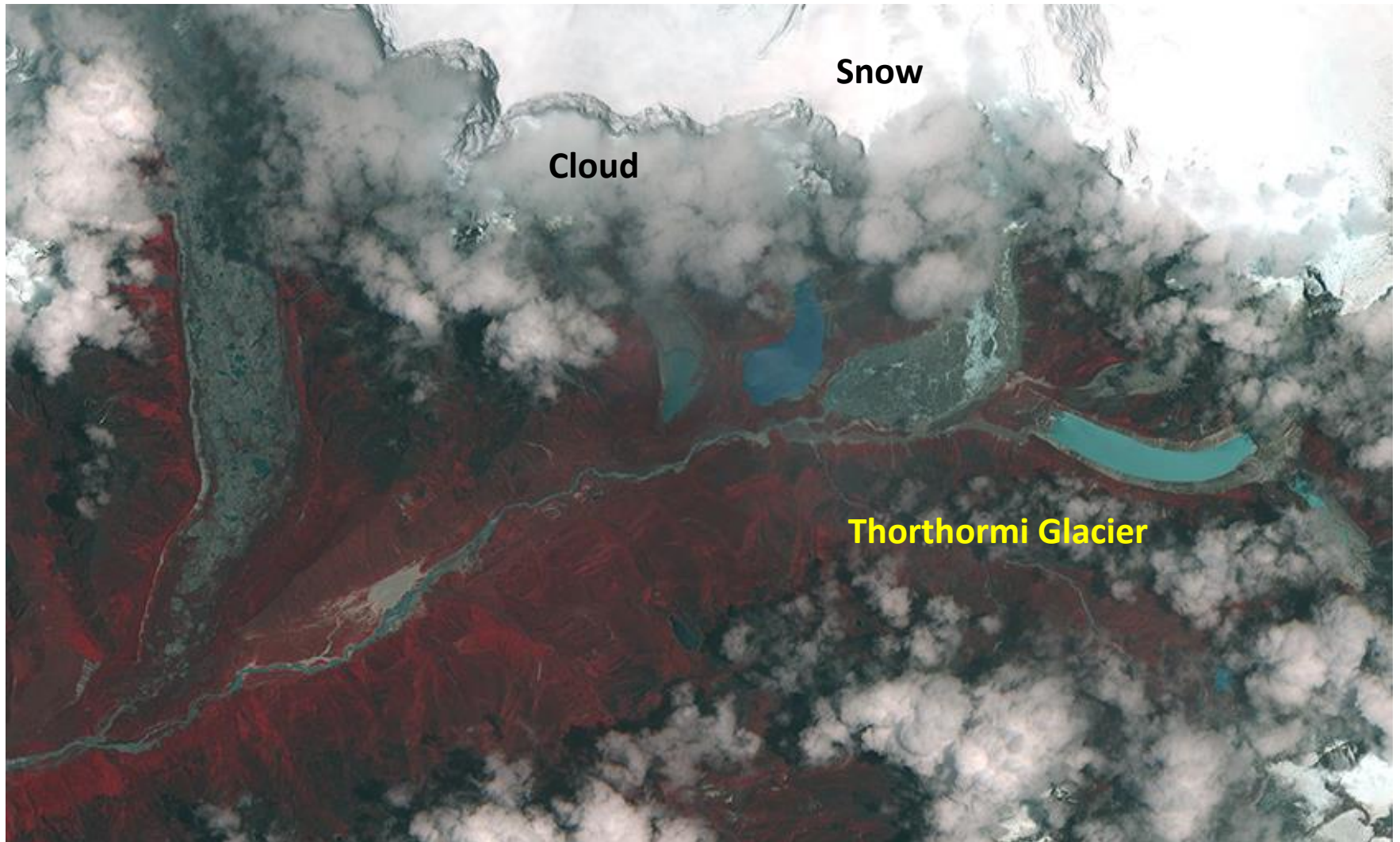


ISRO Support to Asia Pacific Countries (Sentinel Asia)

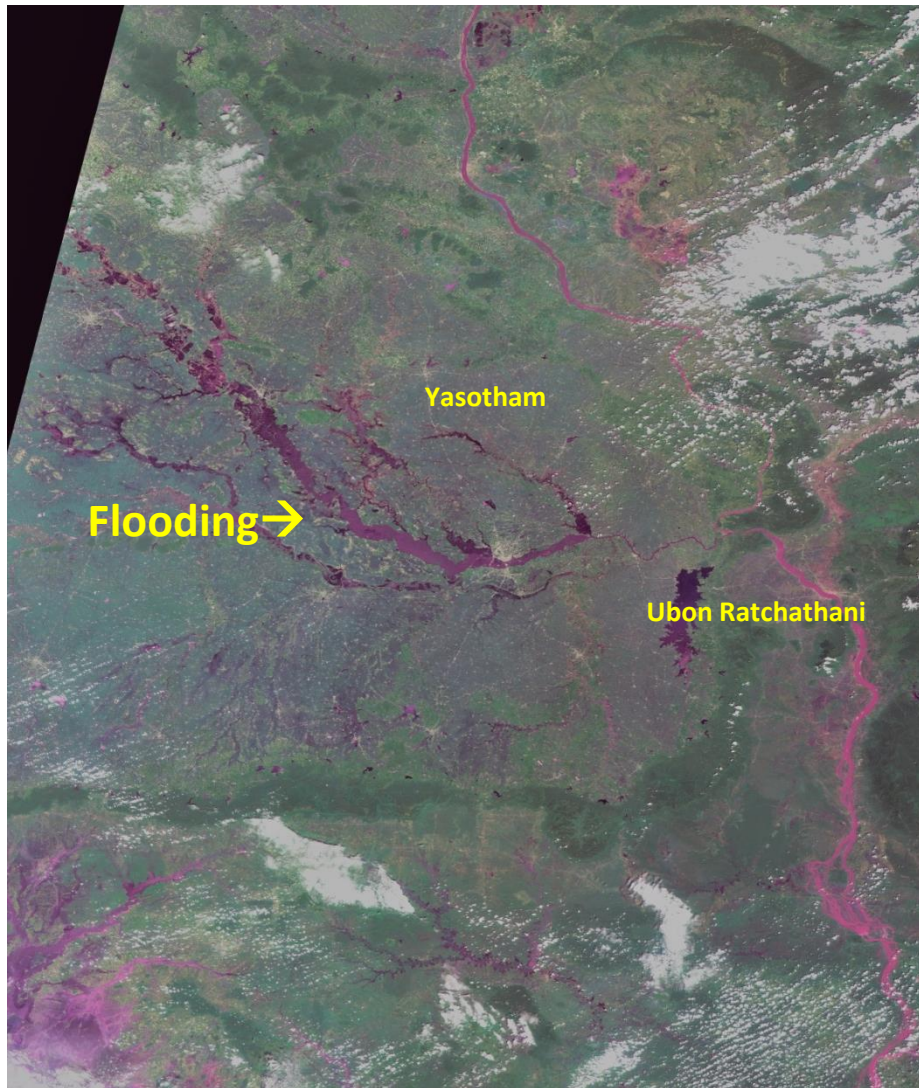
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Responding to SA Emergency Requests

S.No	Event	Date	Satellite Data Used	Utilisation
1	Japan Volcanic Eruption	Jan-19	Resourcesat-2A	Useful
2	Nepal Typhoon	Apr-19	Resourcesat-2 AWiFS	Useful
3	Korea forest fires	Apr-19	Resourcesat-2 AWiFS	Useful
4	Turkey Landslide	May-19	Resourcesat-2 LISS IV FMX	Useful
5	Bhutan Flash floods	Jun-19	Resourcesat-2A LISS IV FMX	Useful
6	Vietnam Flash floods	Jun-19	Resourcesat-2 AWiFS	Useful
7	China Earthquake	Jun-19	Resourcesat-2 LISS IV FMX	Useful
8	Myanmar Floods	Aug-19	Resourcesat-2/2A AWiFS	Useful
9	Japan Floods	Aug-19	Resourcesat-2 AWiFS	Useful
10	Vietnam Floods	Sep-19	Resourcesat-2A AWiFS	Useful
11	LAOS Floods	Sep-19	Resourcesat-2 AWiFS	Useful
12	Thailand Floods	Sep-19	Resourcesat-2 AWiFS	Useful
13	Japan Typhoon	Oct-19	Resourcesat-2 AWiFS	Cloudy
14	Philippines Earthquake	Oct-19	Resourcesat-2A LISS IV FMX	useful



Resourcesat-2A
LISS IV FMX
June 29, 2019



Floods in Thailand
Resourcesat-2
September 24, 2019



Floods in Vietnam
Resourcesat -2A
September 27, 2019



ISRO Responding to SA Emergency Requests (In recent years)

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2016	
Taiwan Earthquake	February-2016
Myanmar Glof	February-2016
Fiji Tropical Cyclone	February-2016
Bandung Indonesia Floods	March-2016
Mt.Apo Firest Fires Philippines	March-2016
Taiwan Oilspill	March-2016
Pakistan Landslide	April-2016
Japan Earthquake	April-2016
Myanmar Earthquake	April-2016
Sri Lanka Floods	May-2016
Indonesia Landslide	June-2016
Bangladesh Floods	August-2016
Bhutan Floods	August-2016
Myanmar Floods	August-2016
Taiwan Typhoon	September-2016
Philippines Tropical Cyclone	September-2016
Indonesia Landslides	September-2016
Taiwan Typhoon	September-2016
Philippines Typhoon	October-2016
Indonesia Eq	December-2016
Nepal Flash Flood	December-2016

2017	
Indonesia Floods	February-2017
Nepal Flash Floods	April-2017
Sri Lanka Floods	May-2017
Sri Lanka Floods	May-2017
Sri Lanka Floods	May-2017
Taiwan Flash Flood	June-2017
Bangladesh Landslides	June-2017
China Landslides	June-2017
Vietnam Typhoon	July-2017
Vietnam Floods	July-2017
Vietnam Floods	August-2017
Nepal-Floods	August-2017
China Earthquake	August-2017
Nepal-Floods	August-2017
Bangladesh-Floods	August-2017
Vietnam-Floods	August-2017
Vietnam-Floods	September-2017
Taiwan-Floods	October-2017
Philippines-Floods	October-2017
Vietnam-Floods	October-2017
Korea-Earthquake	November-2017



ISRO Responding to SA Emergency Requests (In recent years)

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2018	
Philippines Volcanic Eruption	January-2018
Papua New Gunea Volcanic Eruption	January-2018
Taiwan Earthquake	February-2018
Korea Earthquake	February-2018
Tonga Tropical Cyclone	February-2018
Sri Lanka Floods	May-2018
Vietnam Floods	June-2018
Japan Floods	July-2018
Japan Floods	July-2018
Thailand Oil Spill	July-2018
Vietnam Floods	July-2018
Laos Floods	July-2018
Myanmar Floods	July-2018
Indonesia Earthquake	July-2018
Indonesia Earthquake	July-2018
Indonesia Earthquake	July-2018
Indonesia Earthquake	August-2018

2018...	
Thailand Floods	August-2018
Taiwan Floods	August-2018
Vietnam Floods	August-2018
Myanmar Floods	September-2018
Japan Earthquake	September-2018
Vietnam Typhoon	September-2018
Philippines Typhoon	September-2018
Indonesia Earthquake	September-2018
Vietnam Typhoon	December-2018
Indonesia Tsunami	December-2018
Sri Lanka Floods	December-2018

Thank You