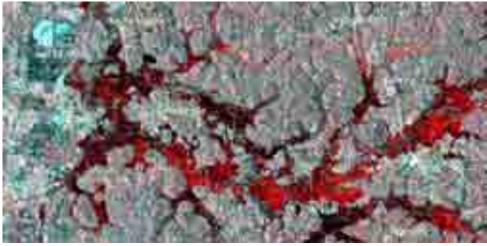
IWMI's Rapid Emergency Response Mechanism (RERM)

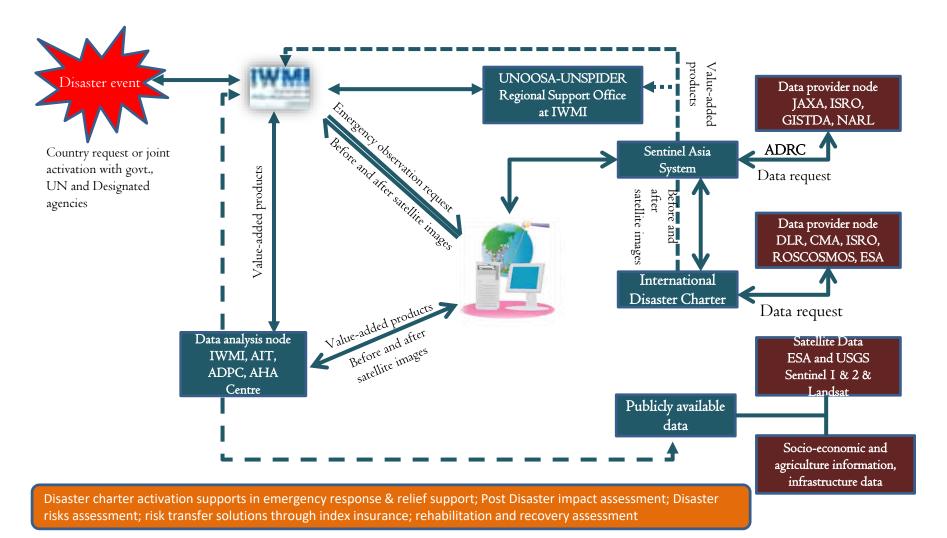




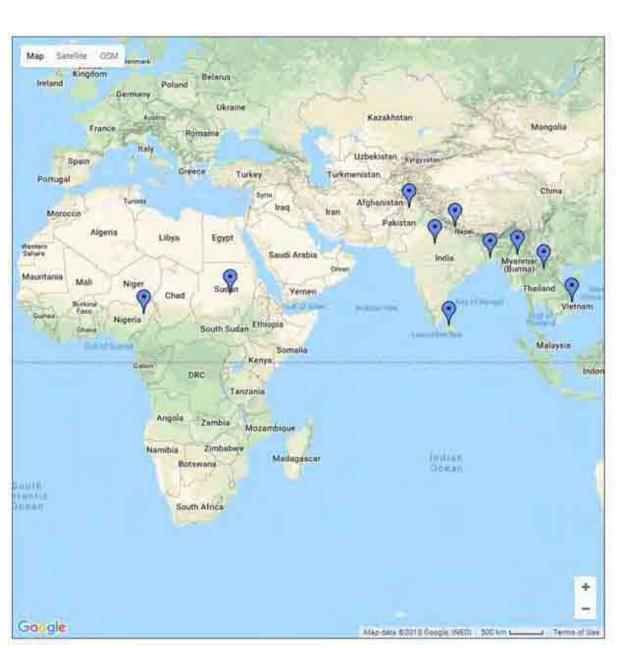
International Water Management Institute (IWMI), Sri Lanka by Niranga Alahacoon



IWMI Rapid Response mapping (RERM) Approach



IWMI RERM different countries



South Asia

- ☐ Sri Lanka
- India
- Pakistan
- Nepal
- Bangladesh

South East Asia

- Myanmar
- ☐ Laos
- Vietnam

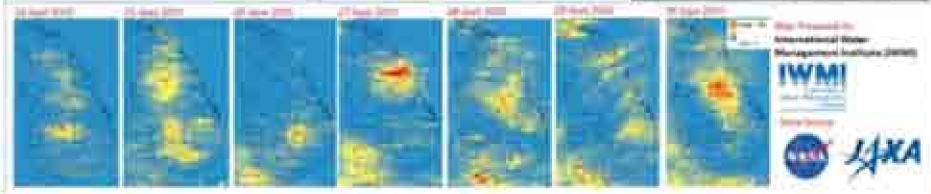
2015 FLOODS IN SRI LANKA MONITORED USING SATELLITE RAINFALL ESTIMATES

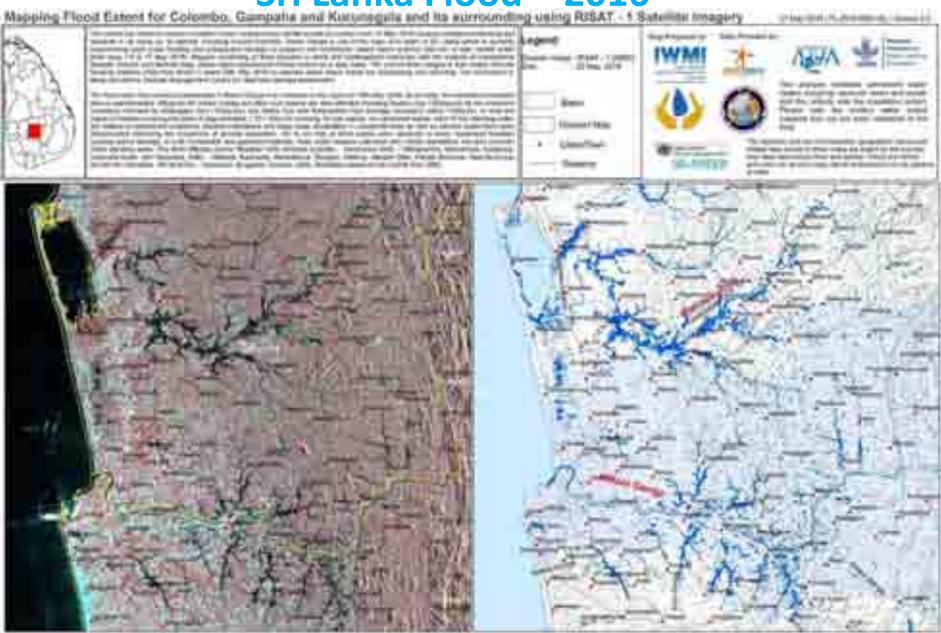
Statement (Automonths) depth of

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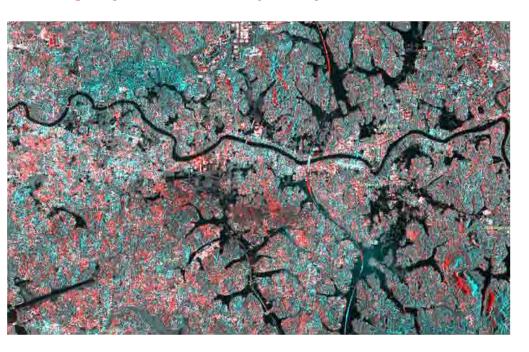
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Rapid assessment on flood impact

Current flood situation for major flood rivers and adminstriave units based on IRS RISAT and DLR TerraSAR-X1 Images (20th and 21st May 2016)



Note: Fused images of two different dates (20th May and 21st May 2016) to determine flood receding areas. Black areas denotes areas in both the images are flooded and the light grey explains the withdrawal of standing waters along the Kelani Ganga river

Statistics on basin wise flood affected areas for the AOI satellite imagery

Basin Name	Basin Area	Flood Affected area in sq.km
Attanagalu Oya	1087.81	165.319
Deduru Oya	2772.89	353,496
Kelani Ganga	2341.53	168.119
Rathambala Oya	556.21	59.003
Kalu Ganga	3079.08	100.707
Karsmbalan Oya	779.80	153.995
Maha Oya	1709.14	186.066
Total flood affeced area		1186.70

Statistics on district wise flood affected areas for the AOI satellite imagery

Kurunegala	552.97
Karanegala	222.21
Gampaha	218,12
Puttalam	160.29
Colombo	94.53
Kegalle	83.21
Kalutara	79.13

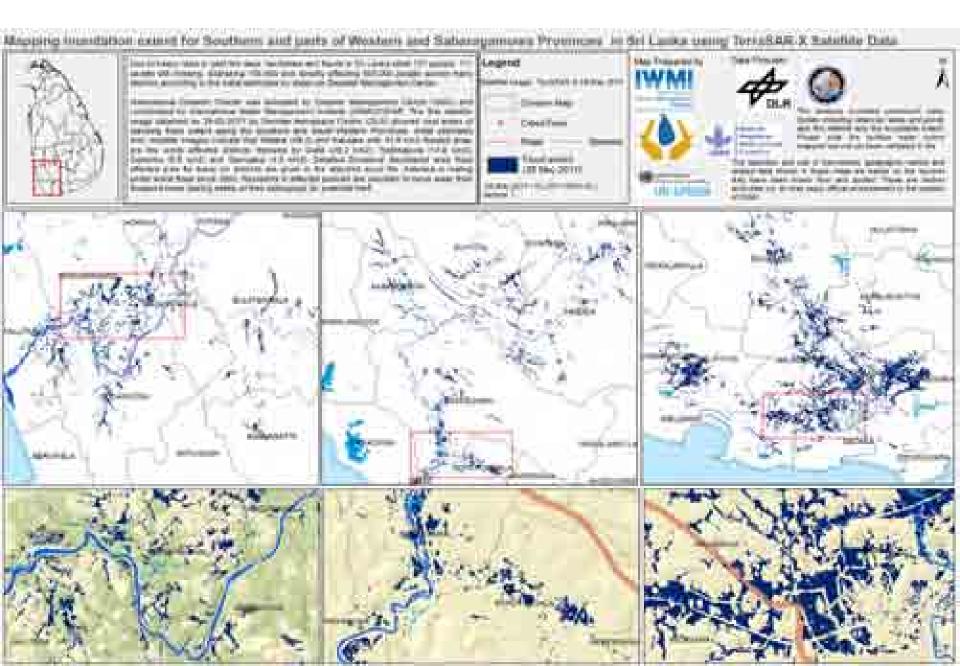












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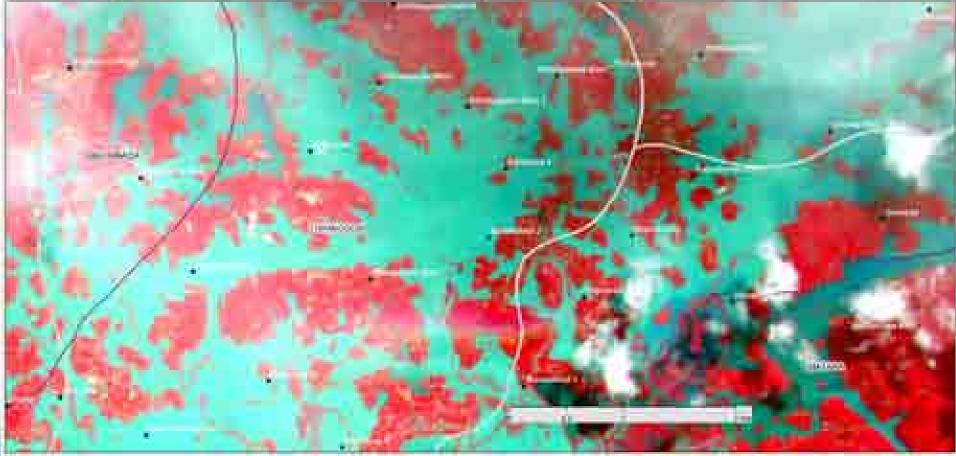
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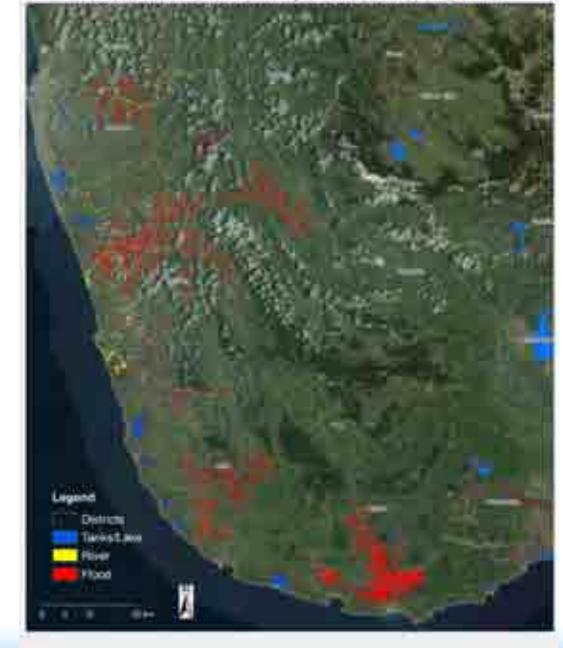
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Closer view of Maters town and its aurroundings to Southern Province (Sri Lanka) using ESA Sentiner 2 askellis data (29May/2017).

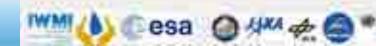




Flood inundated area on May 28-30, 2017 of Sri Lanka













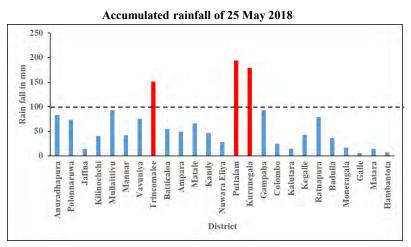


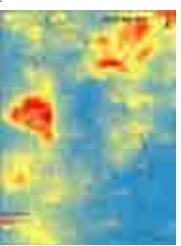


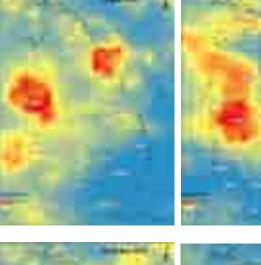
Satellite rainfall estimation from Global Precipitation Mission (GPM) revealed high rainfall in Sri Lanka caused by the usual strong monsoon over the period of week (20 to 26 of May 2018). Fifteen districts have been already affected by extreme rainfall and several major rivers as Kelani Ganga, Kalu Ganga, Gin Ganga, Nilwala Ganga have started to overflow and still under minor flood level. In addition main rivers, Mahaoya, Attanagalu Oya overflow and few major tanks spill are reported in Kurunagala and Puttalama district.

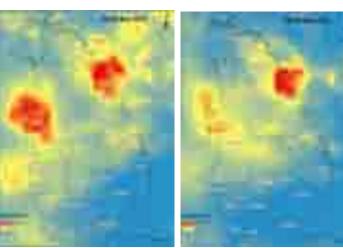
In last 24 hours (25 of May 2018) as per GPM estimates, precipitation has reduced and only three districts have recorded more than 80mm precipitation, which are as follows **Kurunagala** (178.7 mm), **Puttalam** (194.30mm), Trincomalee (151.3mm) and all the other districts are less than 60mm.

According to the Disaster Management Center (DMC) reports on 28th May 2018 at 13.00hrs, totally 174,310 peoples have been affected while 25 casualties reported so far.

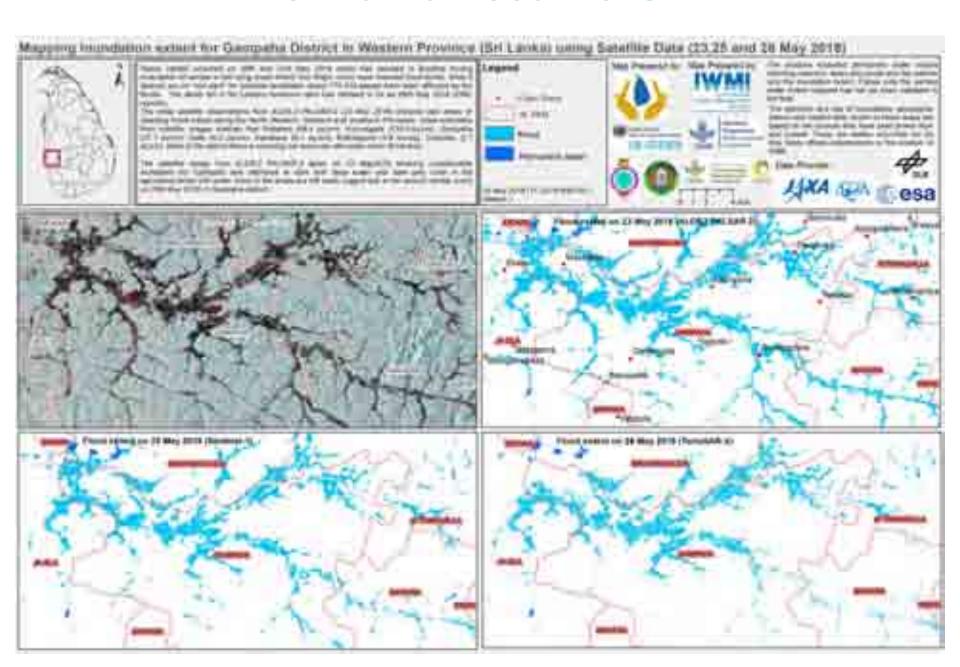


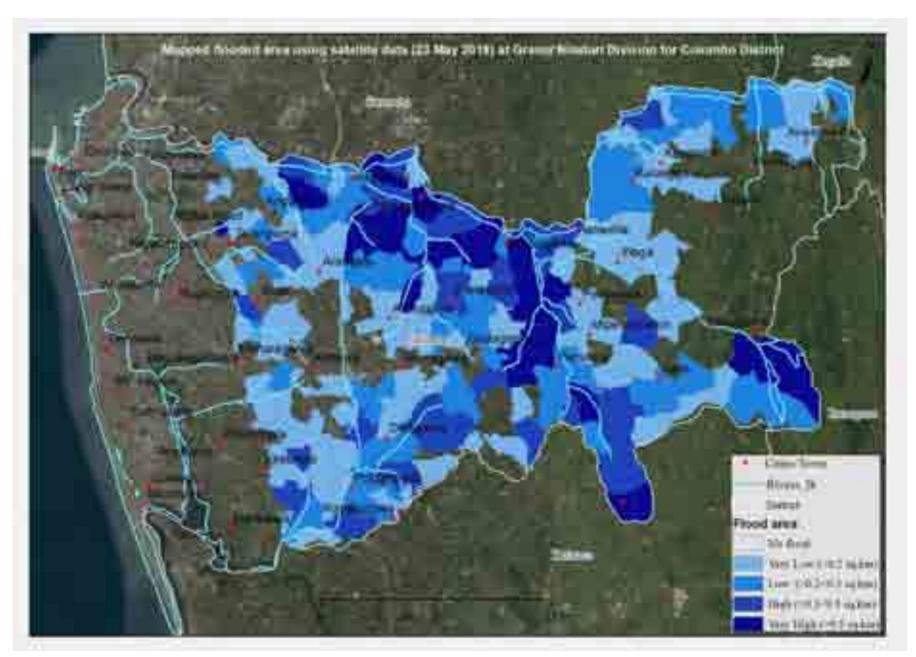


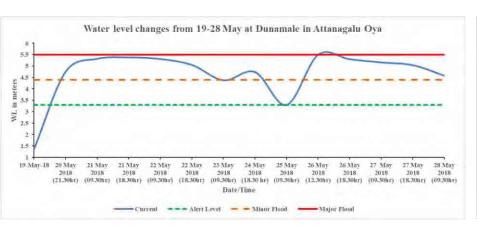


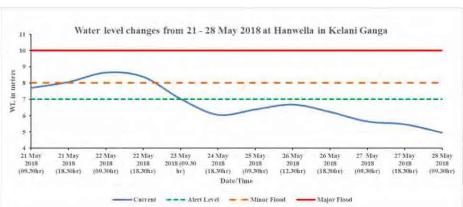


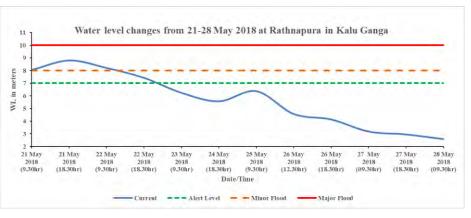
23 May 2018 - Version 5

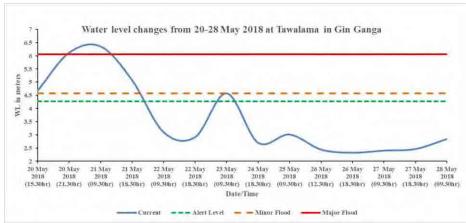






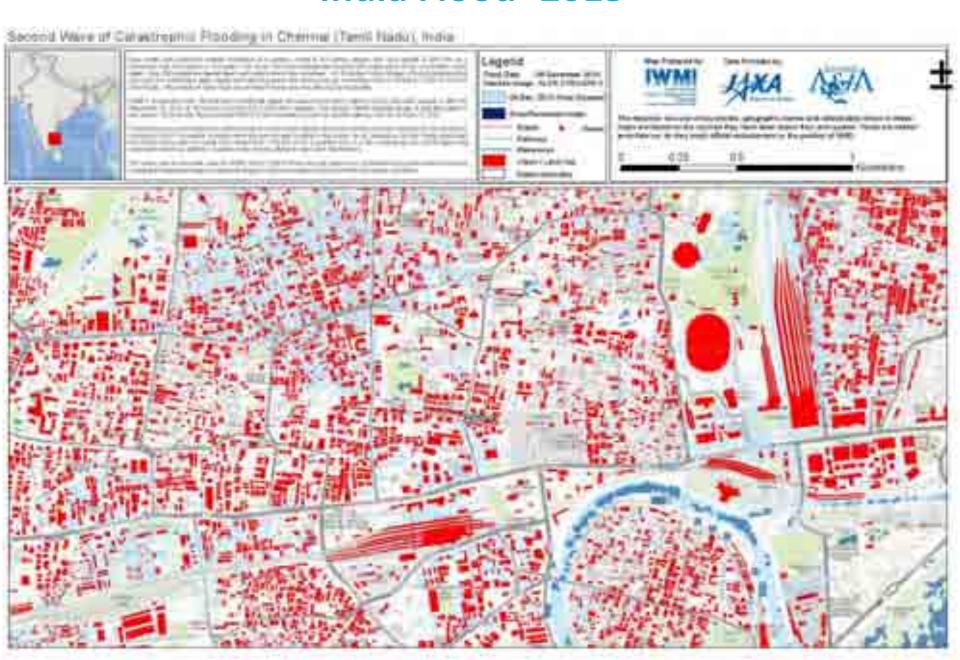






Data source – Irrigation Department Sri Lanka (Data received on 25 May 2018)

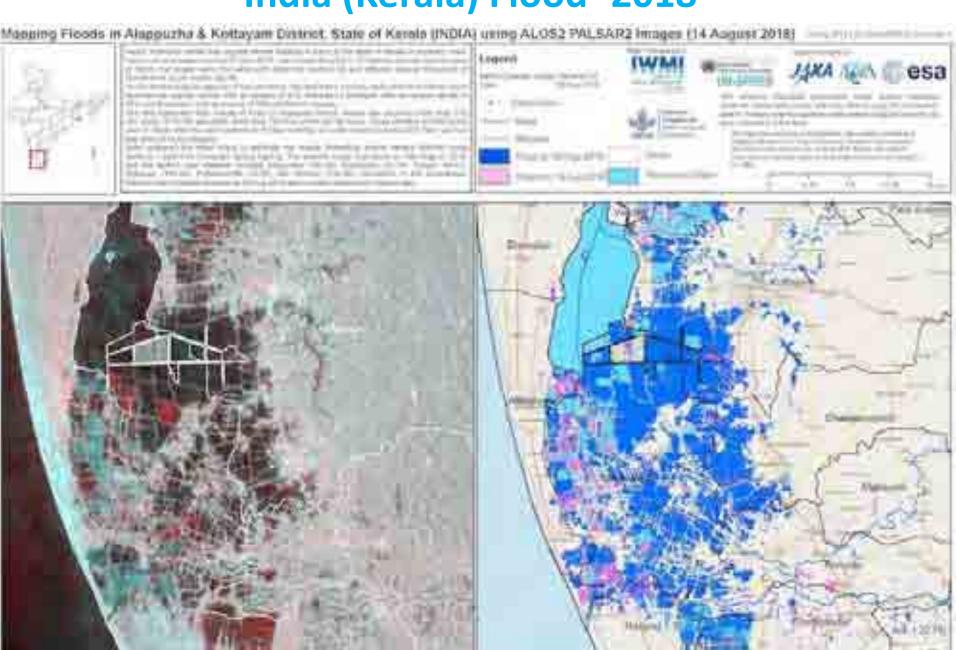
India Flood -2015



India Flood -2017

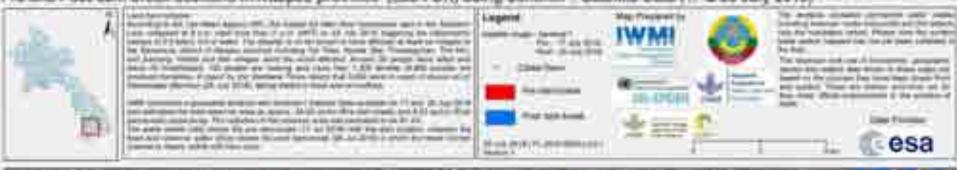
Mapping Inunitation excent in the Genda's river and its surroundings (Biliar, India) using ISRO RESOURCESAT/2 AWIFS Satellite Date Lagend. The same take some from all the back sound have sould have be let be also they brigh except distanced that storing the boson from and distance, military of \$64006.44MC looks that the boson it was not blook would come out of the blook ways blook D Avenue there is agreement formed in their manipular afficient as the expenses therefore event if the afficient commend along the Santon, Named Assature on Phillips & Address and A. Perrina and M. Artine, Martine, mes and communicate any source per day transferral section (these are mader both transferred effecting assets one mittee people. Clark transferre was discoun-THE REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS. at the operated or other dischas facilities. Modulitati, Homes III Modulitati Advance Advances. Property and residence from the Printer Communities market collic Alliano, si elitatio recono del limitatio e del littorio di their specification travel from more purpose. He will die profinel and has not be then and others and stronger or the property Non-transport to come the support of the latest to the support of and the association districts of father and Manufacture

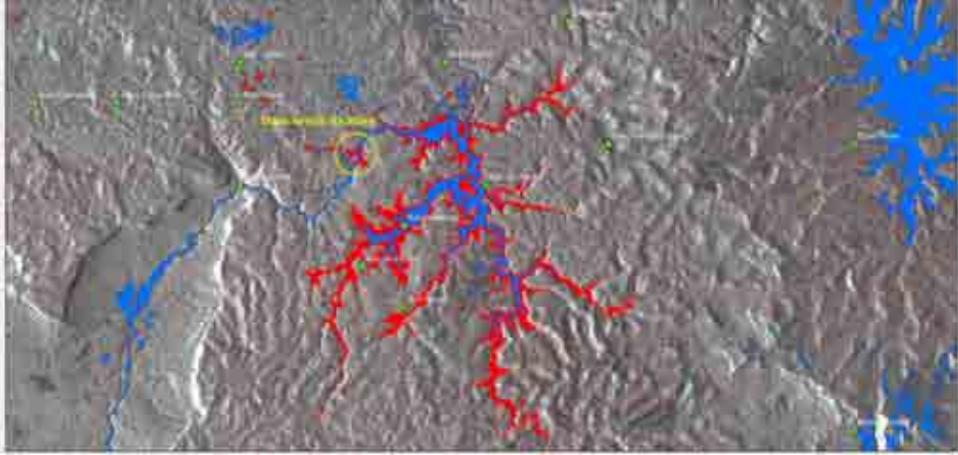
India (Kerala) Flood -2018



Lao PDR Dam break -2018

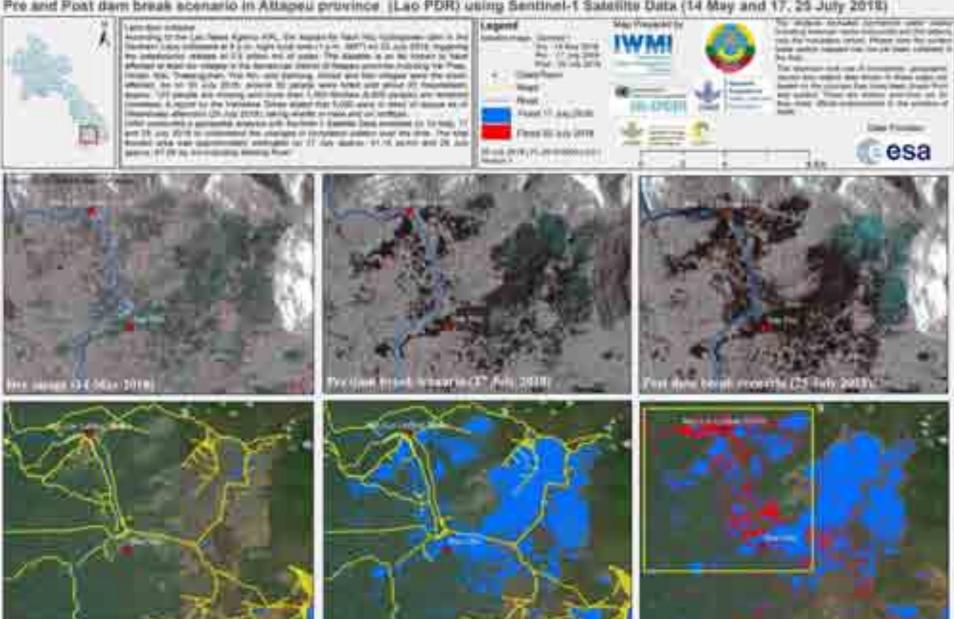
Pre and Post dam break scenario in Attapeu province (Lac PDR) using Sentinel-1 Satellite Data (17.5.25 July 2018)



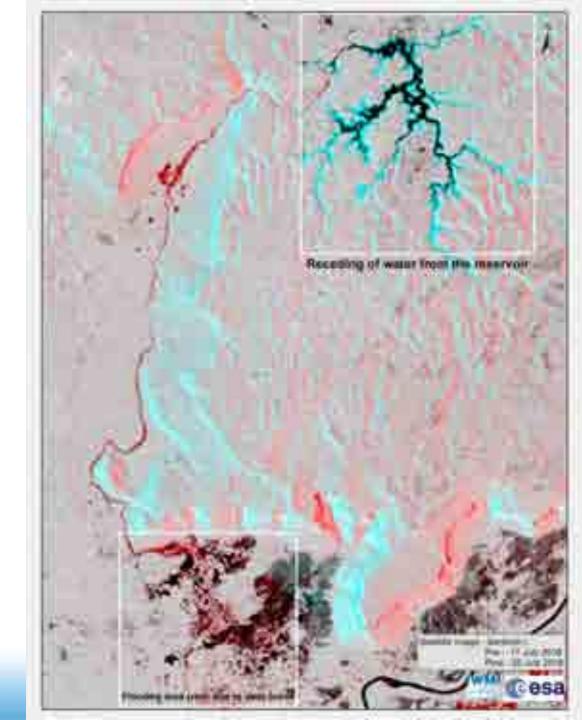


Lao PDR Dam break -2018

Pre and Post dam break acenario in Attabeu province (Lao PDR) using Sentinel-1 Satellite Data (14 May and 17, 25 July 2018)



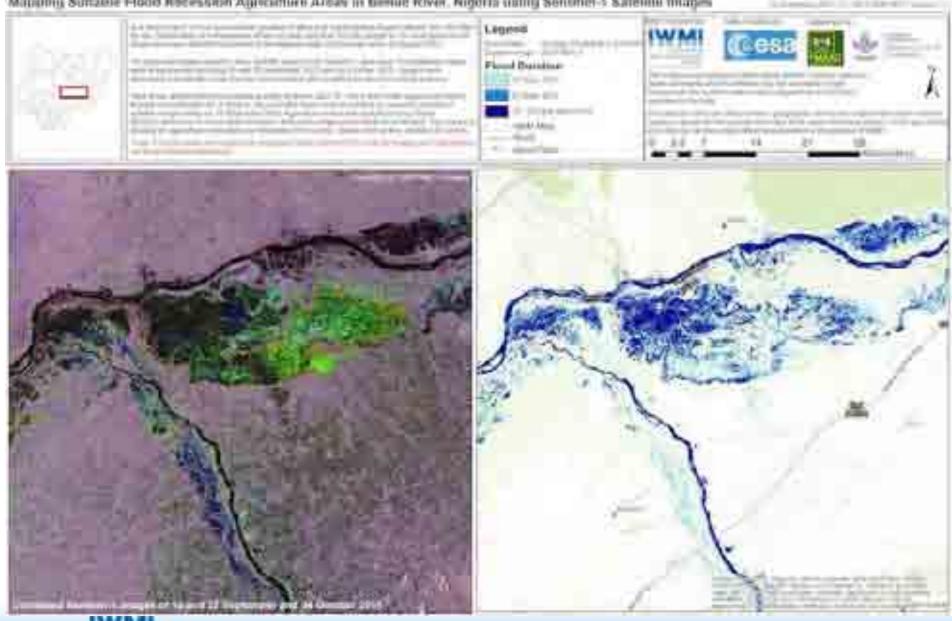
Lao PDR Dam break - 2018





Nigeria-2015

Mapping Suitable Flood Recession Agriculture Areas in Bienue River, Nigeria dainy Sentinet-1 Satellitu mages



REGIONAL FLOOD RISK MAPPING - SA and





- Maping algorithm based on MODIS data
- 8-days maps of inundation extent
- Annual maps of maximum inundation
- Inter-annual variation of regional flooding extent







