



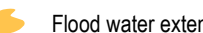
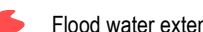






Evolution satellite detected water extent over Sanamxay District, Attapeu Province, Lao People Democratic Republic

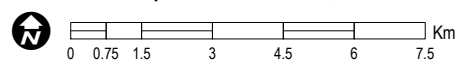
This map illustrates the evolution of satellite-detected surface waters in Sanamxay district, Attapeu province, as observed from the Radarsat-2 radar image acquired on 24 July 2018 and compared with a Radarsat-2 image acquired on 10 July 2018. As of 10 July 2018, flooded areas and saturated soils were already visible, due to the heavy rains that happened previously to the collapse of the dam. As well, the reservoir controlled by the dam was full of water. As of 24 July 2018, an additional surface of 5,826 ha of inundated areas were detected, representing an increase of the surface waters of 66%, due to the collapse of the dam. At this date, the reservoir that was controlled by the dam has decreased in its size. Several villages and surrounding agricultural fields seems to be inundated. The villages of Ban Hinlat, Ban Thaseangchan, Ban Mai and Ban Samong-tai seems to be the most affected ones. It is likely that flood waters have been systematically underestimated along highly vegetated areas, along the main riverbanks and within built-up urban areas because of the special characteristics of the used satellite data. This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR - UNOSAT.

Legend

-  Populated place
-  Potential affected village
-  Local/Urban Road
-  Reference water
-  Flood water extent as of 10 July 2018
-  Flood water extent as of 24 July 2018
-  Province boundary
-  District boundary

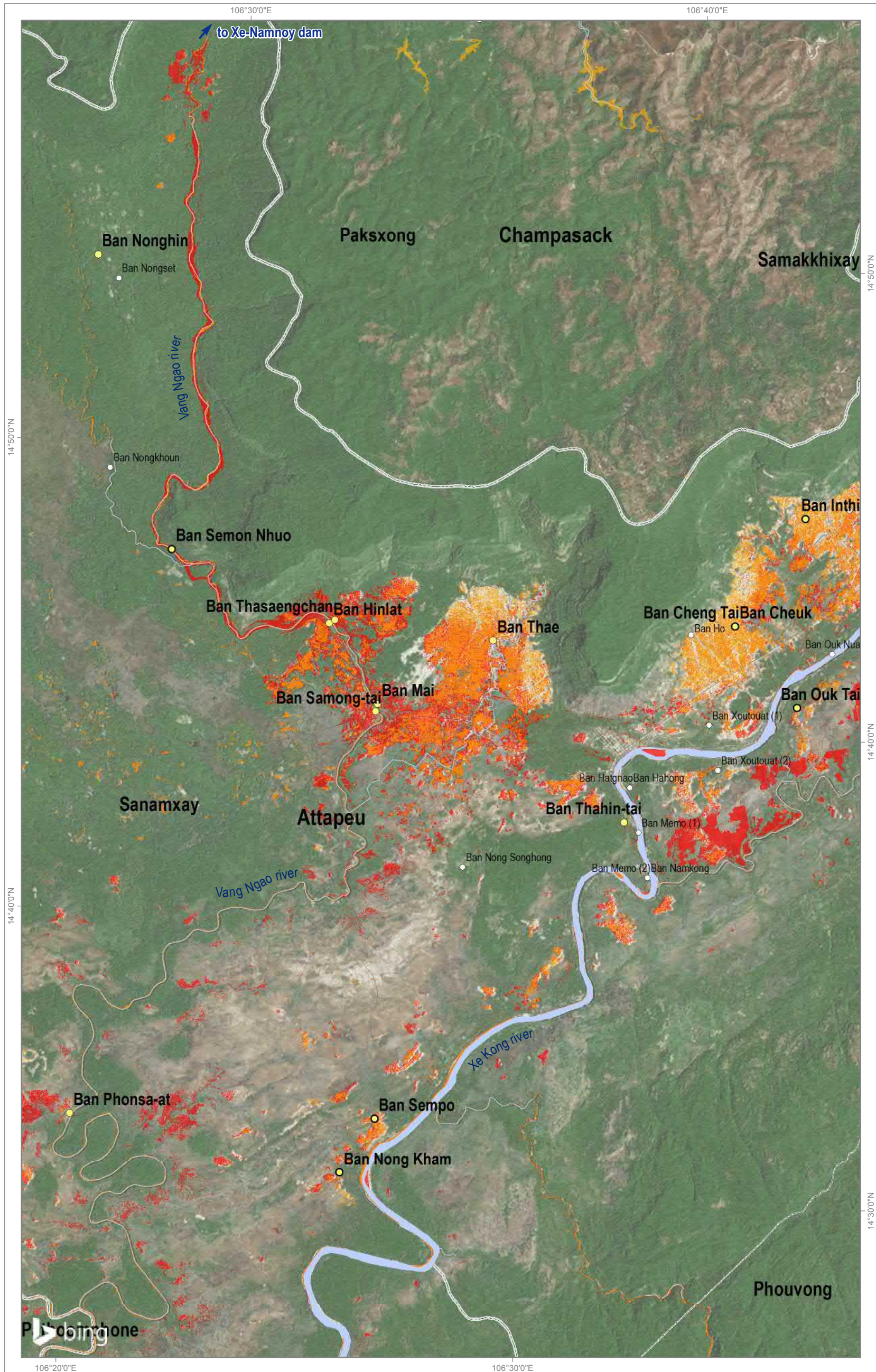


Map Scale for A3: 1:160,000



Analysis conducted with ArcGIS v10.4.1

Coordinate System: WGS 1984 UTM Zone 48N
Projection: Transverse Mercator
Datum: WGS 1984
Units: Meter



Satellite Data (Post): Radarsat-2
Imagery date: 24 July 2018
Resolution: 3 m
Copyright: MacDonald, Dewitter and Associates, Ltd. (2018)
Source: MDA

Satellite Data (Pre): Radarsat-2
Imagery date: 10 July 2018
Resolution: 5 m
Copyright: MacDonald, Dewitter and Associates, Ltd. (2018)
Source: MDA

Other data: OCHA ROAP, WFP
Waterways: Open Street Map
Roads: Open Street Map
Analysis: UNITAR - UNOSAT
Production: UNITAR - UNOSAT

The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing satellite imagery and related geographic information, research and analysis to UN humanitarian & development agencies & their implementing partners. This work by UNITAR-UNOSAT is licensed under a CC BY-NC 3.0