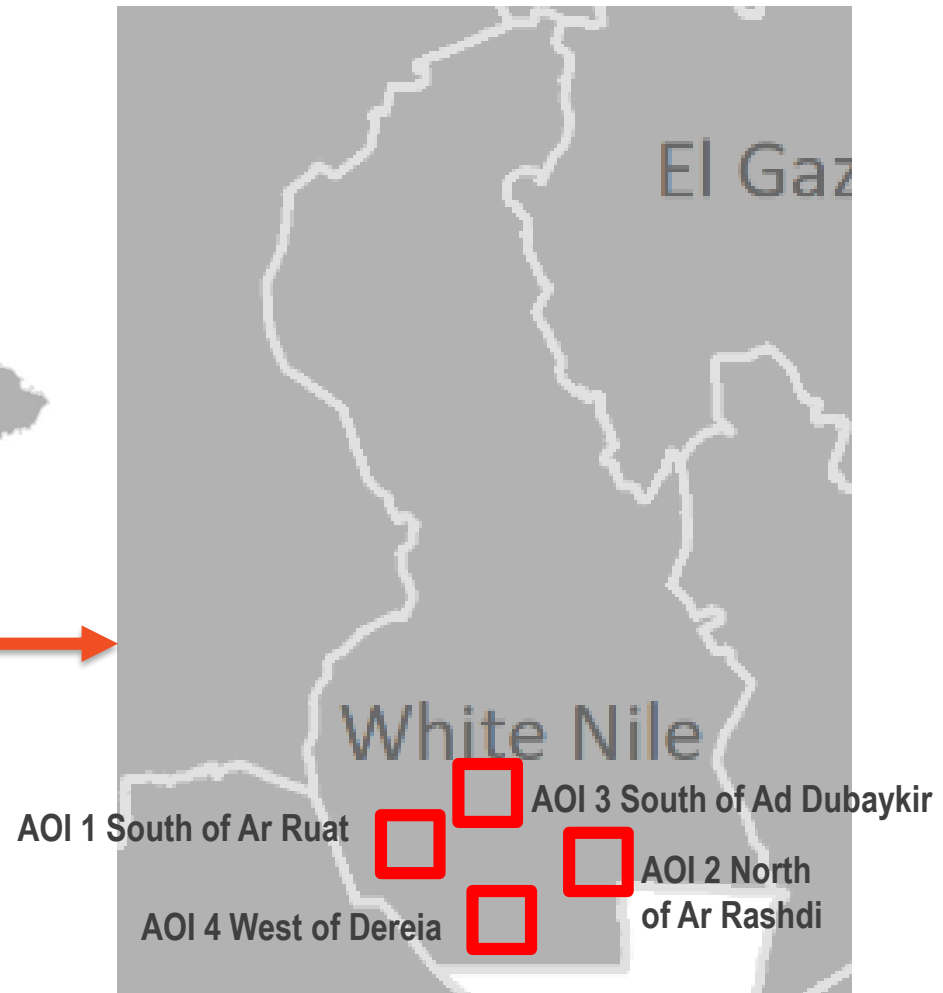


# *Preliminary satellite derived flood assessment in White Nile State, Sudan*

Production Date:  
09 Sep 2019



# Area of Interest



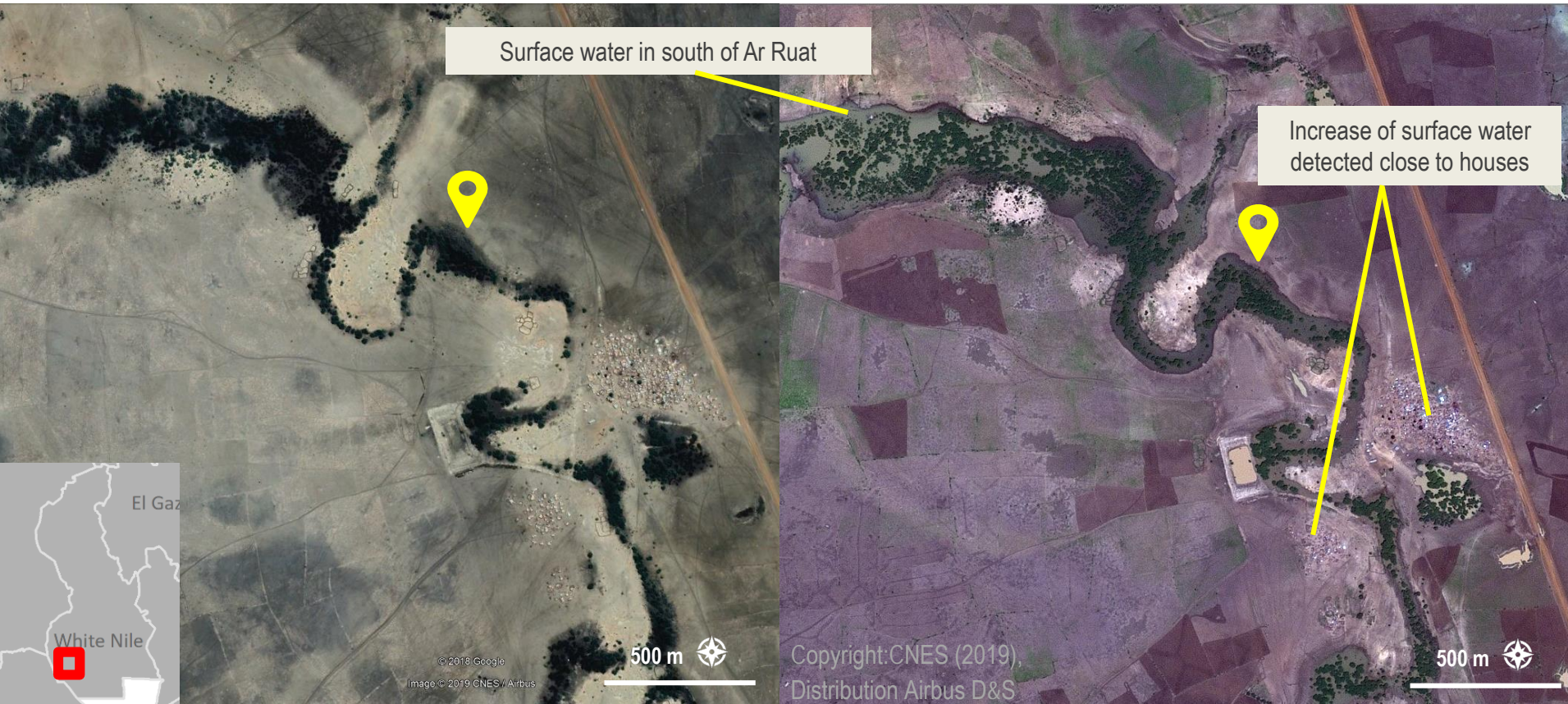
# AOI 1 South of Ar Ruat, White Nile State, Sudan



# AOI 1 South of Ar Ruat, White Nile State, Sudan

Pre-flood situation from Google Earth

SPOT-7 (pan-sharpen) acquired on 31 Aug 2019



Increase in the water surface in the south of White Nile State was clearly detected from the SPOT-7 scene on 31 Aug 2019, compared with the pre-event scene from Google Earth

# AOI 1 South of Ar Ruat, White Nile State, Sudan



The water surface in the south of White Nile State detected by Sentinel-2 on 05 Sep 2019 increased since 31 Aug 2019; affected roads are indicated

# AOI 2 North of Ar Rashdi, White Nile State, Sudan



# AOI 2 North of Ar Rashdi, White Nile State, Sudan

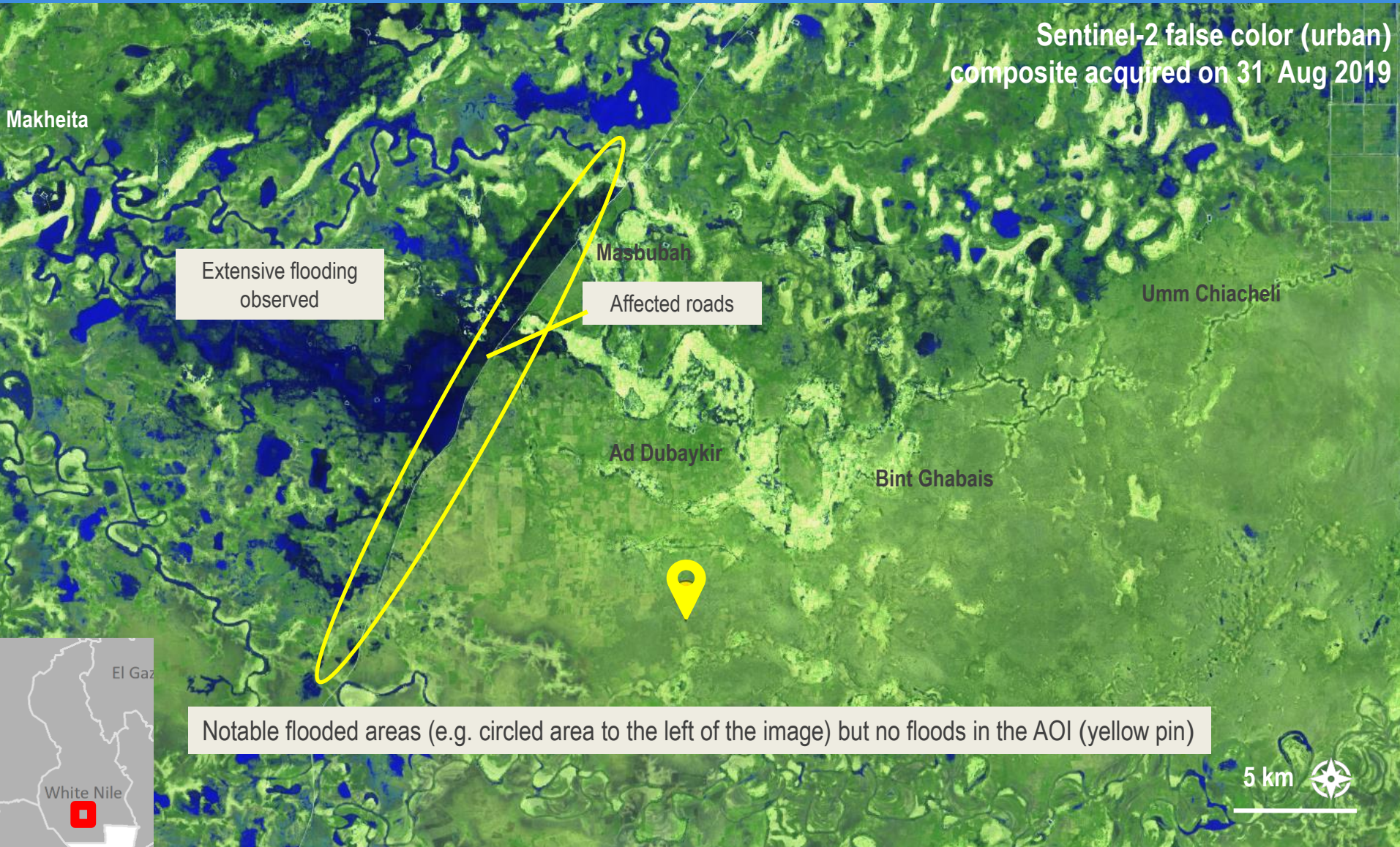
Sentinel-2 false color (urban) composite  
acquired on 06 Aug 2019



Sentinel-2 false color (urban) composite  
acquired on 31 Aug 2019



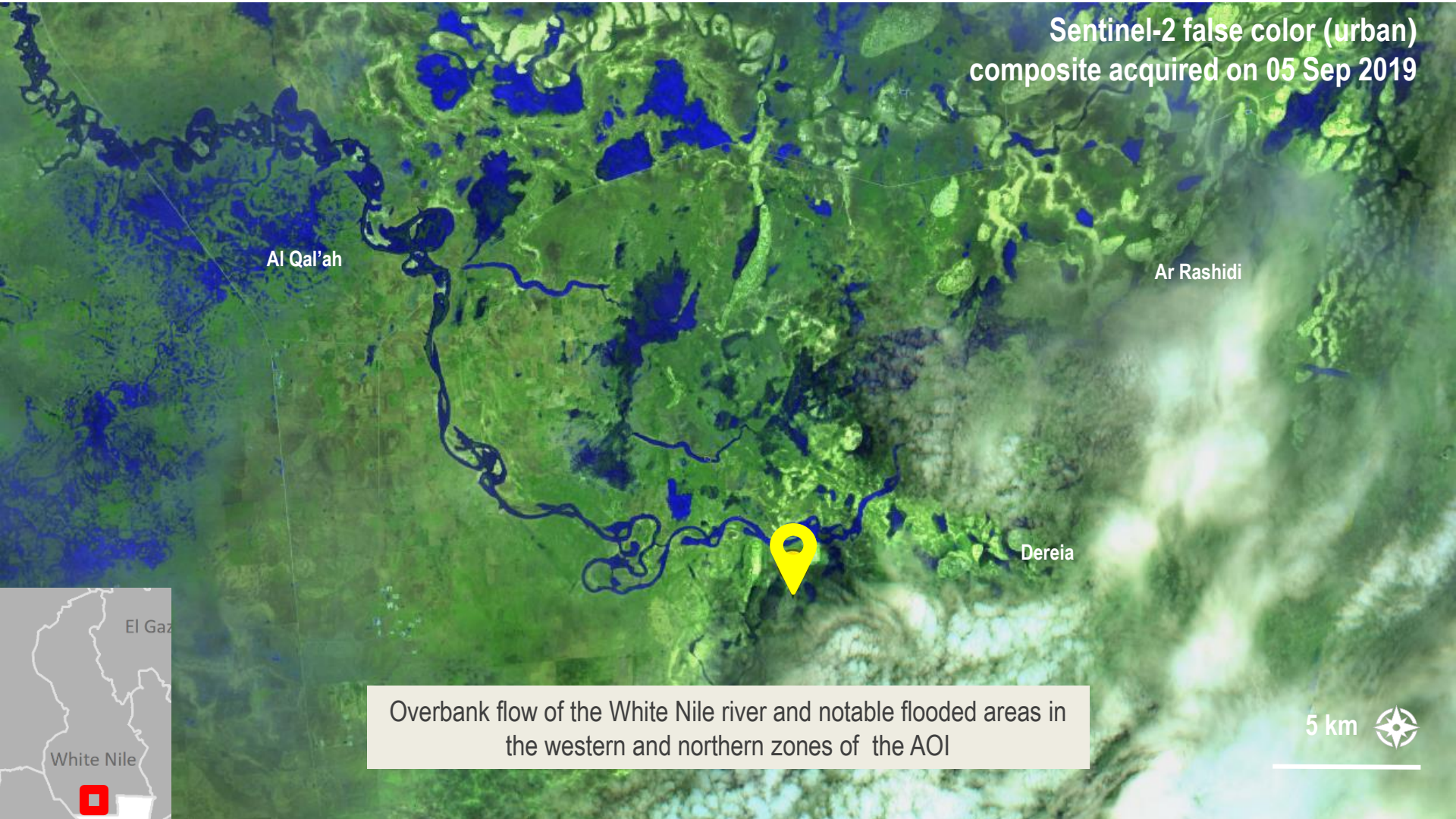
# AOI 3 South of Ad Dubaykir, White Nile State, Sudan





# AOI 4 West of Dereia, White Nile State, Sudan

Sentinel-2 false color (urban)  
composite acquired on 05 Sep 2019

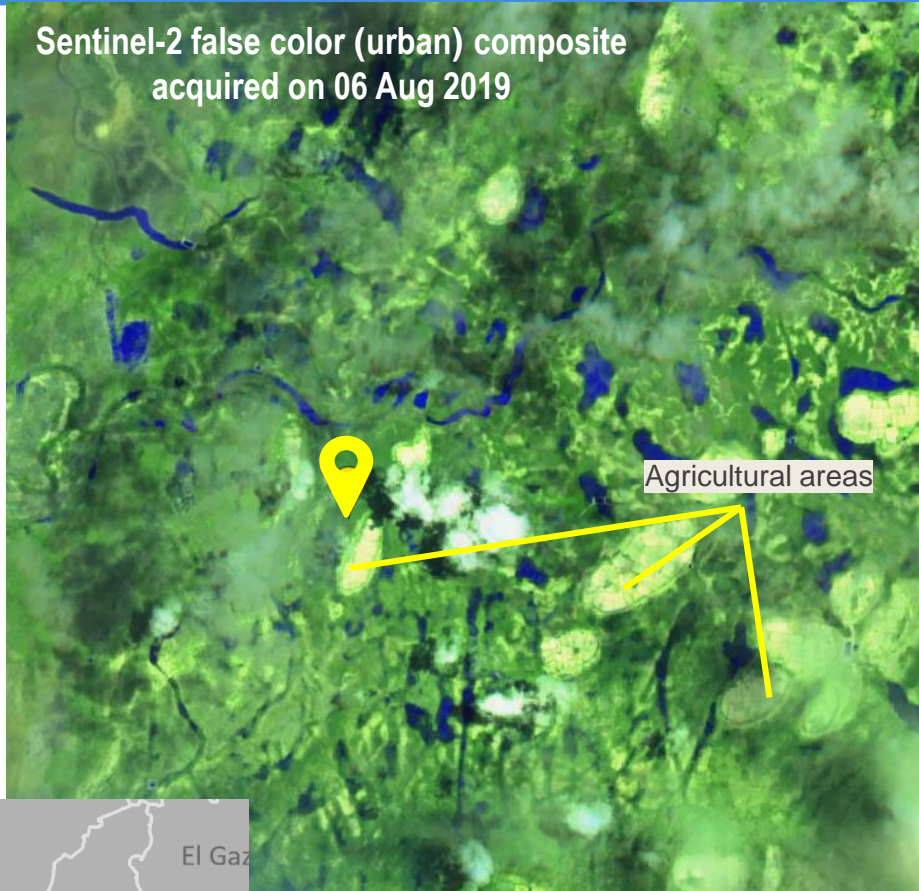


Overbank flow of the White Nile river and notable flooded areas in the western and northern zones of the AOI

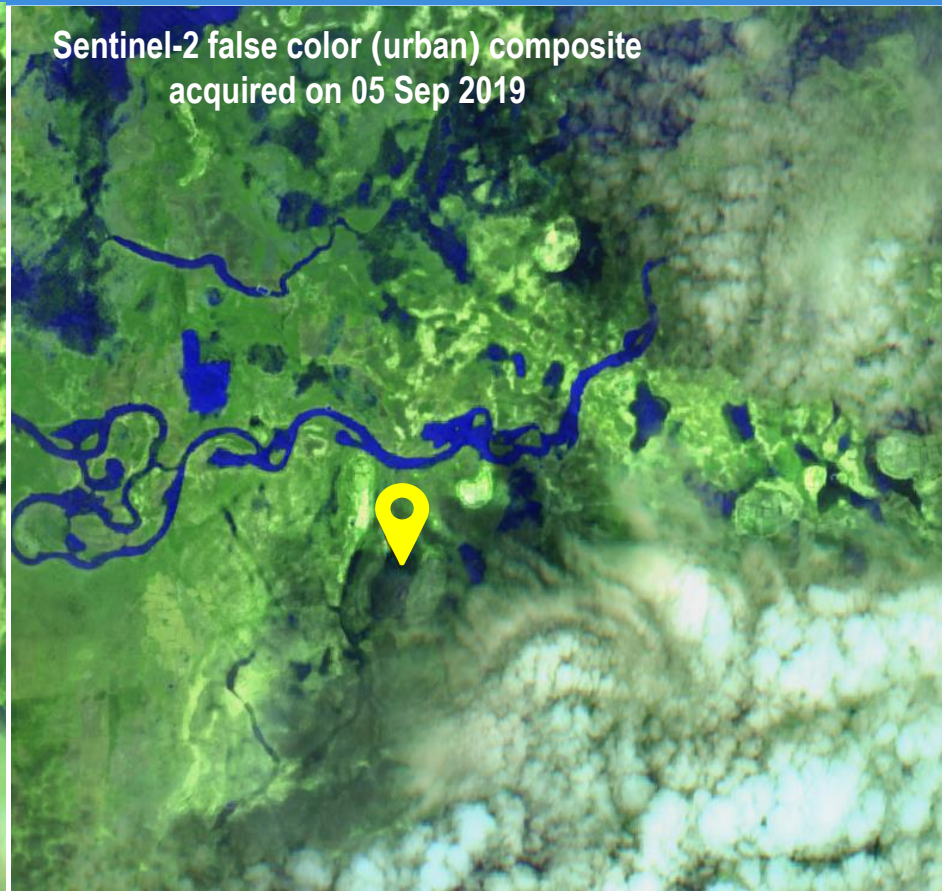
5 km 

# AOI 4 West of Dereia, White Nile State, Sudan

Sentinel-2 false color (urban) composite  
acquired on 06 Aug 2019



Sentinel-2 false color (urban) composite  
acquired on 05 Sep 2019



Increases in the water surface in the south of White Nile State detected by Sentinel-2 on 31 Aug 2019, compared with the situation on 06 Aug 2019



# Summary of flood situation in White Nile State, Sudan

- AOI 1: South of Ar Ruat – Water surface in the south of White Nile State detected on 05 Sep 2019 was more extensive than in the previous situation detected on 31 Aug 2019, and have affected roads in the region
- AOI 2: North of Ar Rashdi – Extensive flooding detected in the northern zone; evidence of White Nile river overbank flow
- AOI 3: South of Ad Dubaykir – No flooding detected in the AOI but notable flooding in the west of Ad Dubaykir with evidence of affected roads
- AOI 4: West of Dereia - Water surface in the south of White Nile State notably increased from the previous situation detected on 06 Aug 2019; extensive flooded areas in the western and northern zones of the AOI



@UNOSAT



@UNITAR.unosat



unitar

United Nations Institute for Training and Research



United Nations Institute for Training and Research  
Institut des Nations Unies pour la Formation et la Recherche  
Instituto de las Naciones Unidas para Formación Profesional e Investigaciones  
Учебный и научно-исследовательский институт  
Организации Объединенных Наций  
معهد الأمم المتحدة للتدريب والبحث  
联合国训练研究所

UNITAR  
International Environment House  
Chemin des Anémones 11-13,  
CH-1219 Châtelaine,  
Geneva - Switzerland  
T +41 22 917 8400  
F +41 22 917 8047  
[www.unitar.org](http://www.unitar.org)