

Irrigated croplands in Saudi Arabia

Sentinel-1 CSAR IW acquired on 02 May 2017 from 15:04:38 to 15:05:28 UTC

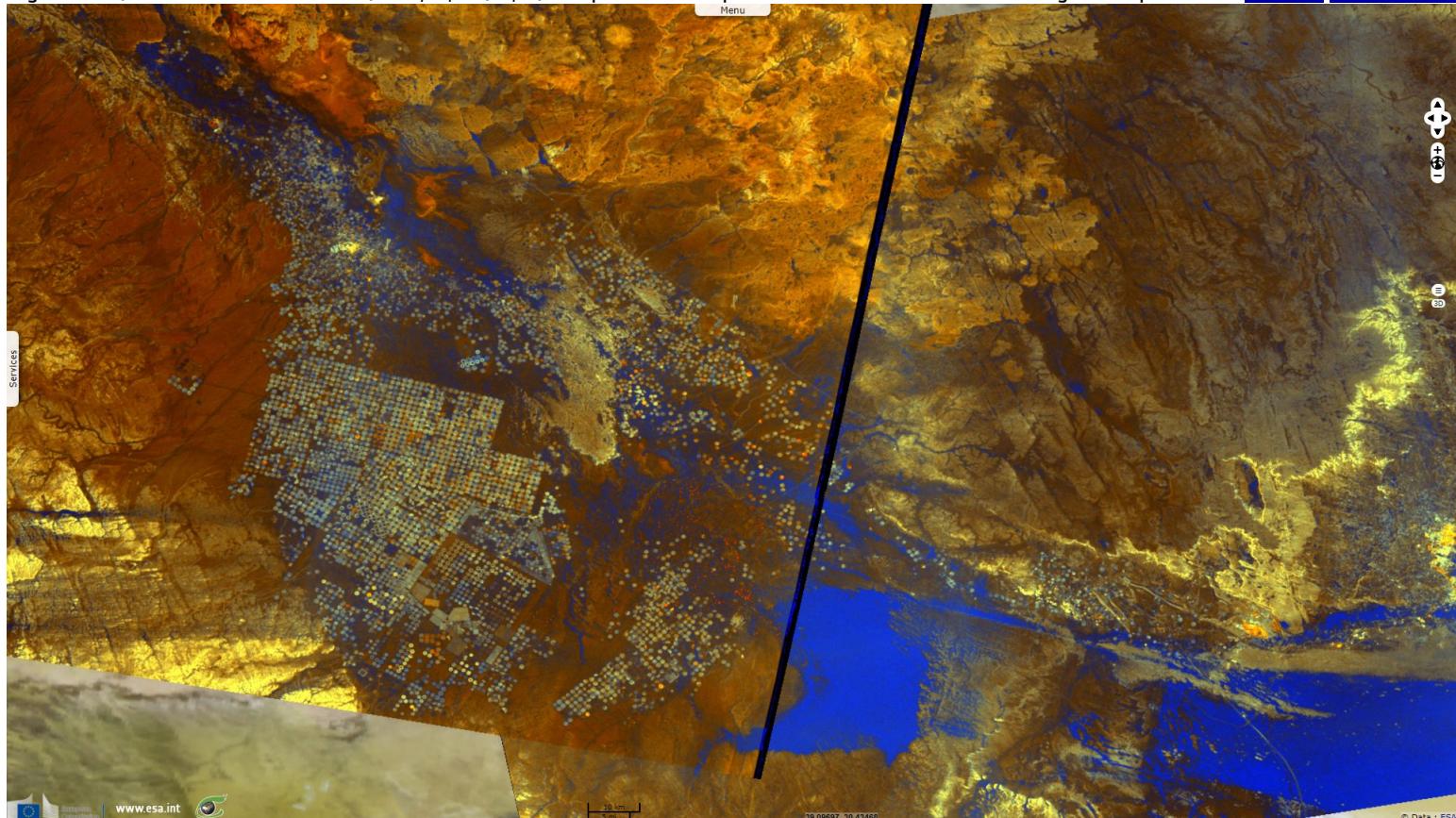
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Sentinel-3 OLCI FR acquired on 03 June 2017 at 07:15:36 UTC

Sentinel-1 CSAR IW acquired on 11 June 2017 at 15:23:31 UTC

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Keyword(s): Land, hydrology, agriculture, cropland, irrigation, non renewable water, desalinated water, Saudi Arabia

Fig. 1 - S1 [06.06.2017 & 11.06.2017] - vv,vh,ndi(vh,vv) composite - Juxtaposition of well ordered and misaligned cropland. [2D view](#) [2D animation](#)



On these S1 images, regs & mountains show in yellow / brown, water bodies & ergs in blue, cities in bright yellow / orange.

Fig. 2 - S3 OLCI - 18,10,3 composite - S. Arabia offered subsidies & low-cost water to encourage growing wheat in the desert. [2D view](#) [2D animation](#)

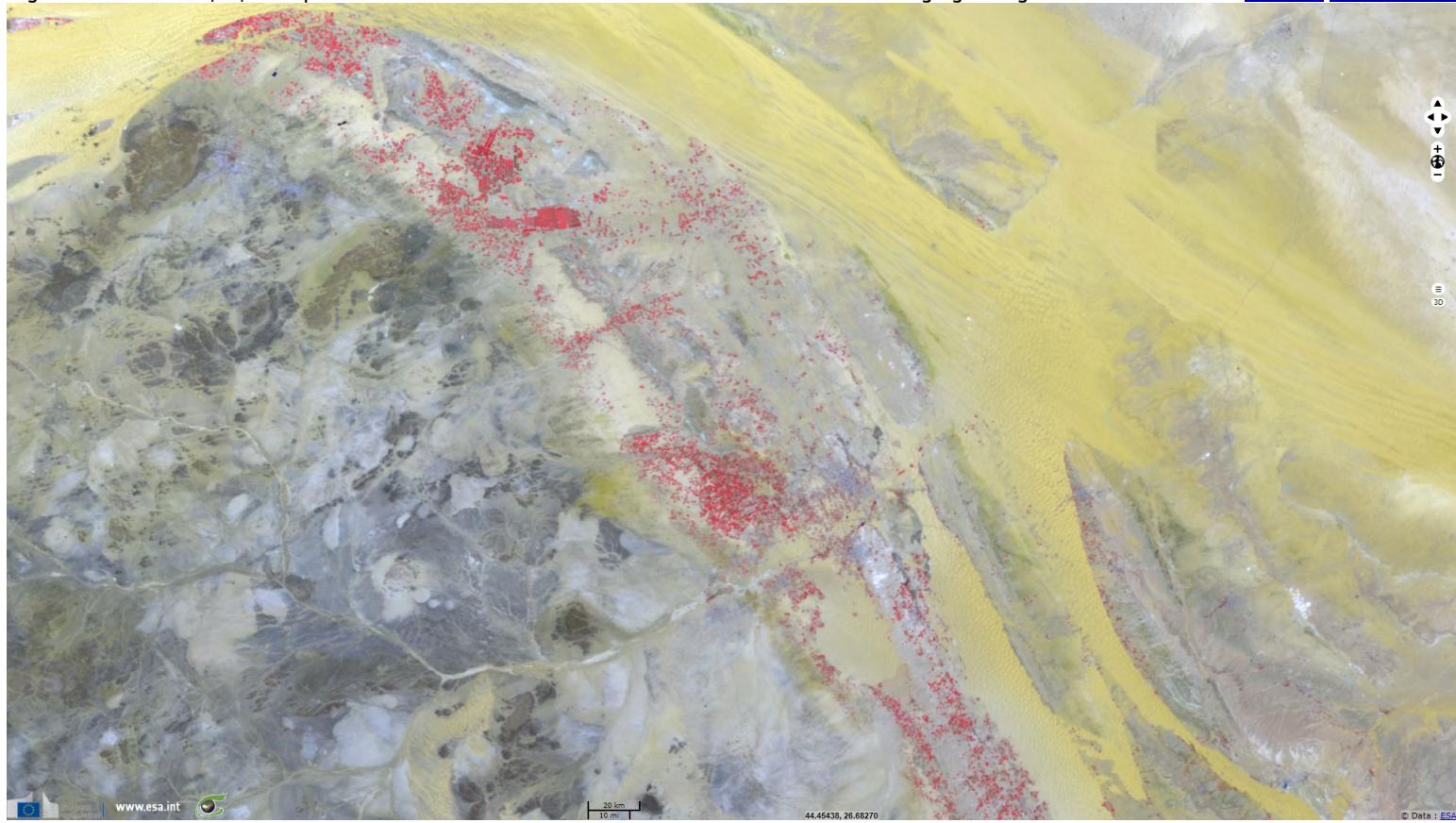
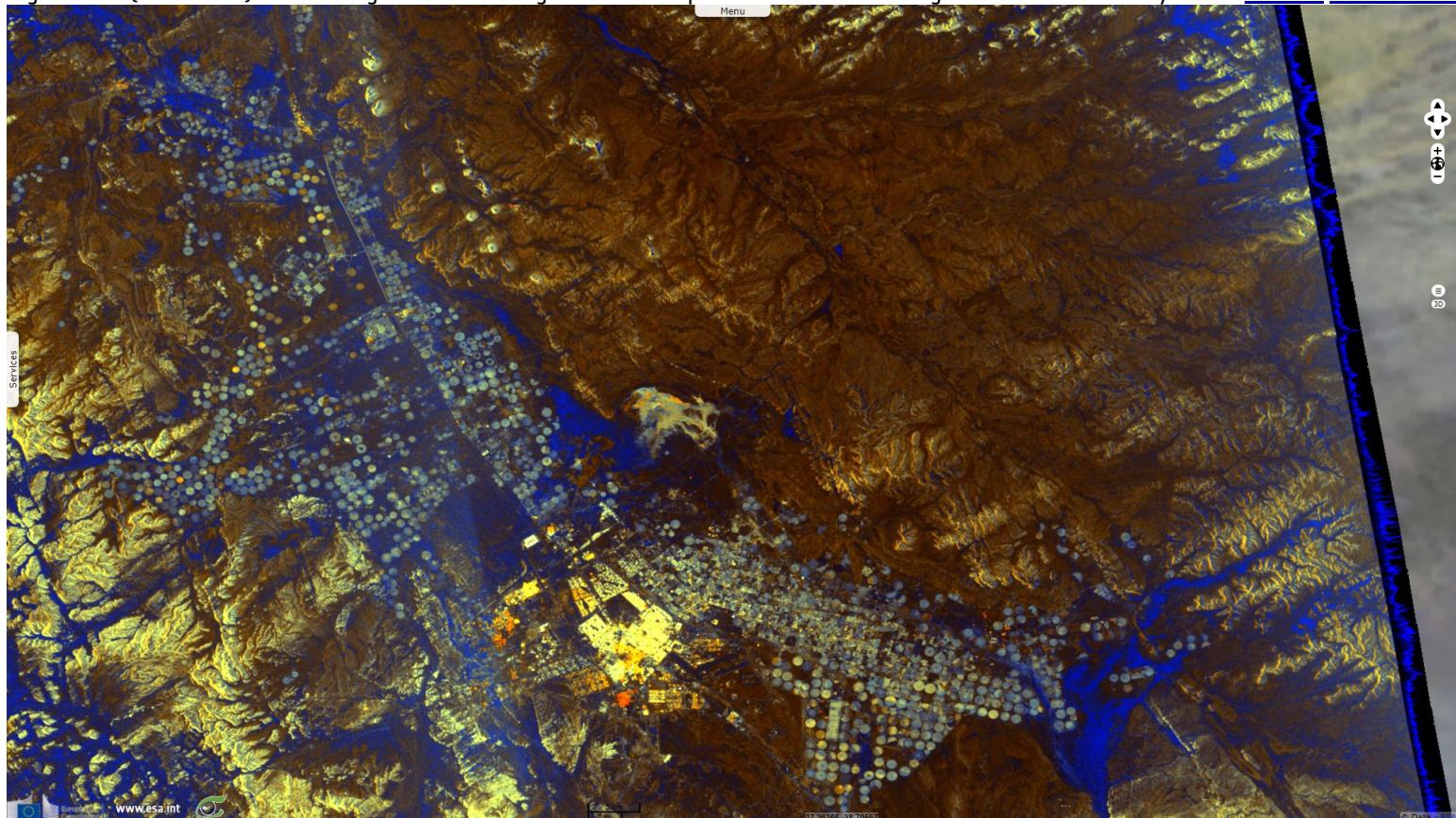


Fig. 3 - S3 OLCI - NDI(17,8) with rainbow LUT - Cropland grew, using 80% of S.A. water, mostly non-renewable or desalinated 2D view 2D animation



Fig. 4 - S1A [16.05.2017] - Consuming non-renewable groundwater depleted ~80% of its total groundwater reserves by 2012. 2D view 2D animation



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