

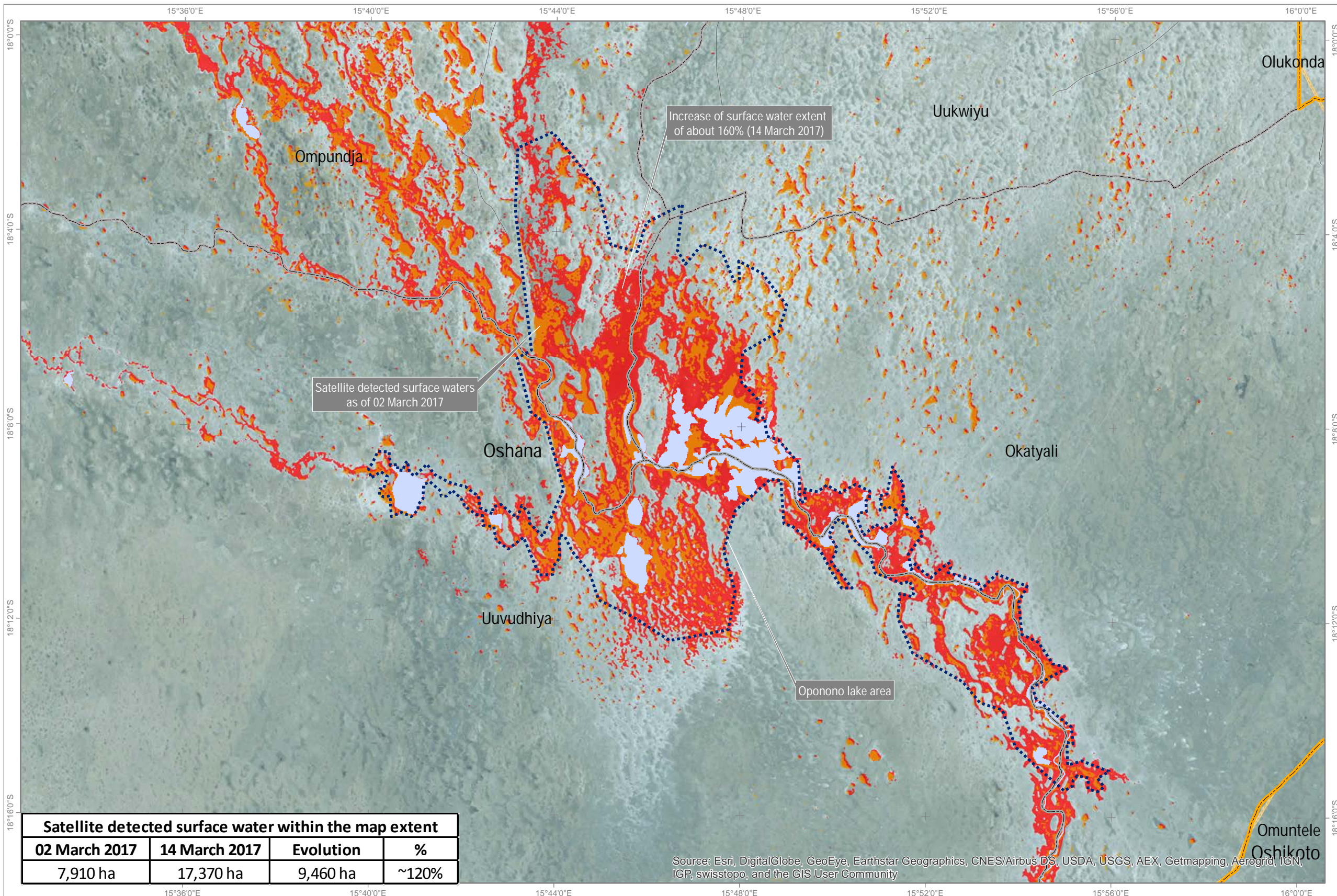


### Satellite Detected Surface Waters Extent and Evolution over Oponono Lake, Oshana region, Namibia

This map illustrates the satellite-detected surface waters extent and evolution over Oponono Lake; a large wetland fed by the Culevai Oshana, in Oshana region, Namibia, as observed from the Sentinel-1 images acquired on 02 and 14 March 2017. An increase of surface water extent was detected in the 14 March 2017 image, particularly in the upstream part of the lake: ~4,130 ha of surface water were observed the 02 March 2017 within the lake area and reached ~10,820 ha the 14 March 2017 corresponding to an evolution of about 160%. This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR - UNOSAT.

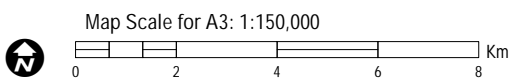
#### Legend

- Highway/Primary road
- Secondary road
- Local/Urban road
- Waterway
- Oponono lake
- Region boundary
- Constituency boundary
- Satellite detected waters : 02 March 2017
- Satellite detected waters : 14 March 2017
- Reference waters



| Satellite detected surface water within the map extent |               |           |       |
|--|---------------|-----------|-------|
| 02 March 2017  | 14 March 2017 | Evolution | %     |
| 7,910 ha   | 17,370 ha     | 9,460 ha  | ~120% |

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Analysis conducted with ArcGIS v10.4.1

Coordinate System: WGS 1984 UTM Zone 33S  
Projection: Transverse Mercator  
Datum: WGS 1984  
Units: Meter

Satellite Data (1): Sentinel-1  
Imagery Dates: 14 March 2017  
Resolution: 10 m  
Copyright: Copernicus 2017 / ESA  
Source: ESA

Satellite Data (2): Sentinel-1  
Imagery Dates: 02 March 2017  
Resolution: 10 m  
Copyright: Copernicus 2017 / ESA  
Source: ESA

Baseline Data : Namibia Statistics Agency, OpenStreetMap  
Other Data : USGS, UNCS, NASA  
Analysis : UNITAR UNOSAT  
Production: UNITAR UNOSAT

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