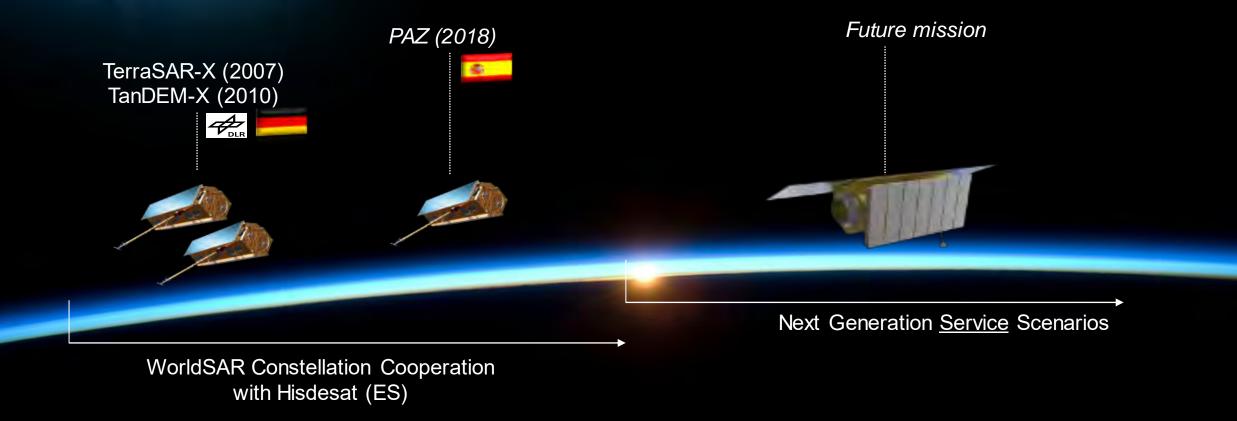
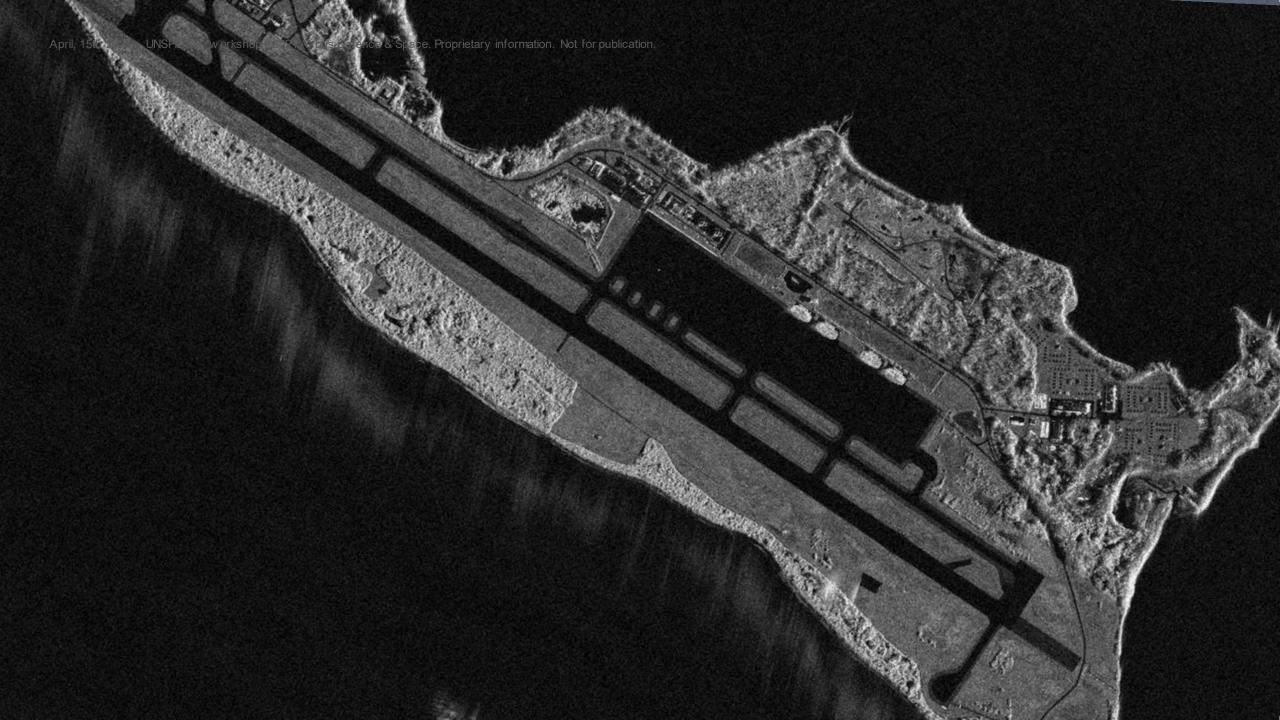
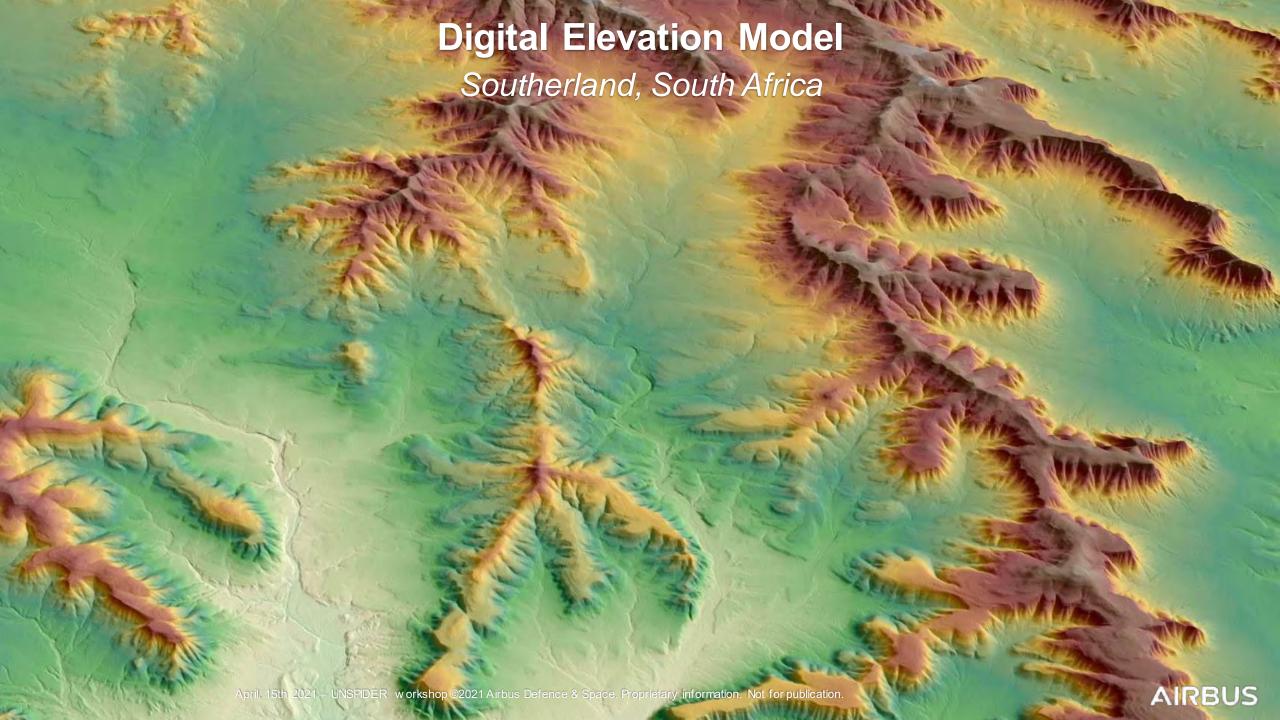


EO SAR: Airbus Missions









Ghana: Inundation **Hazard Modelling**

Applications:

- Storm Surges
- Coastal Floods











Ghana: Inundation **Hazard Modelling**

Applications:

- Storm Surges
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Ghana: Inundation Hazard Modelling

Applications:

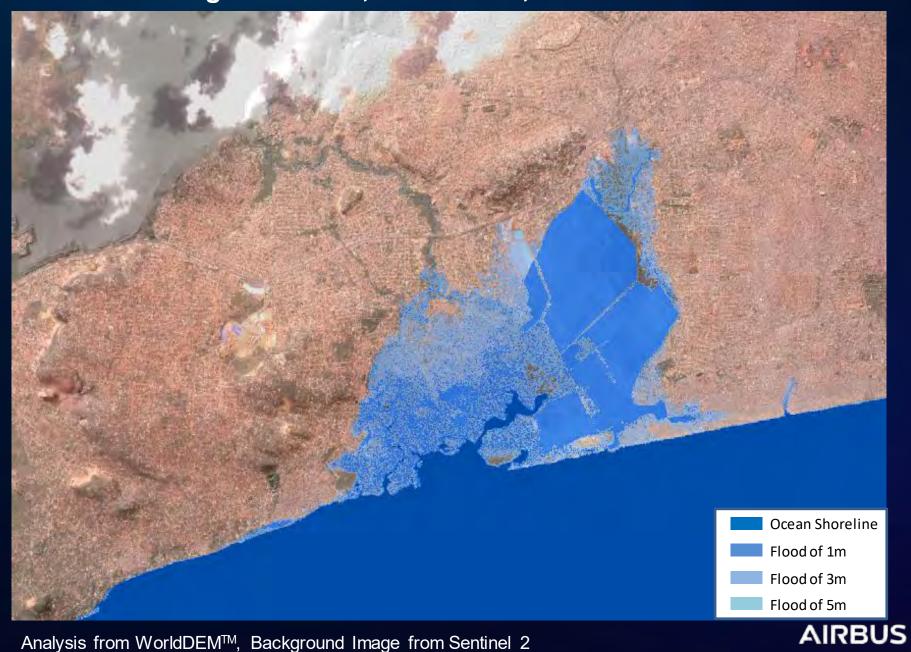
- Storm Surges
- Coastal Floods











Ghana: Inundation **Hazard Modelling**

Applications:

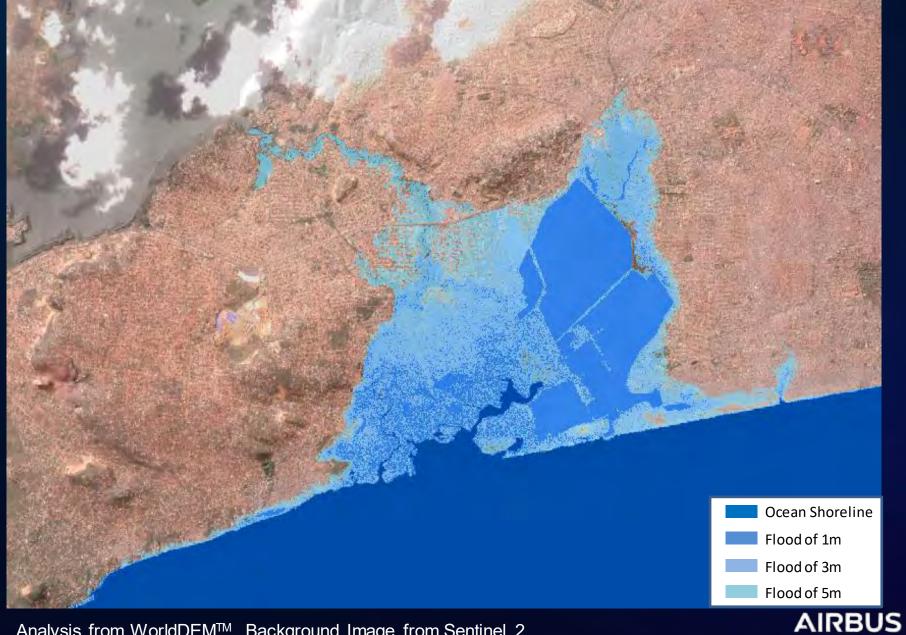
- Storm Surges
- Coastal Floods





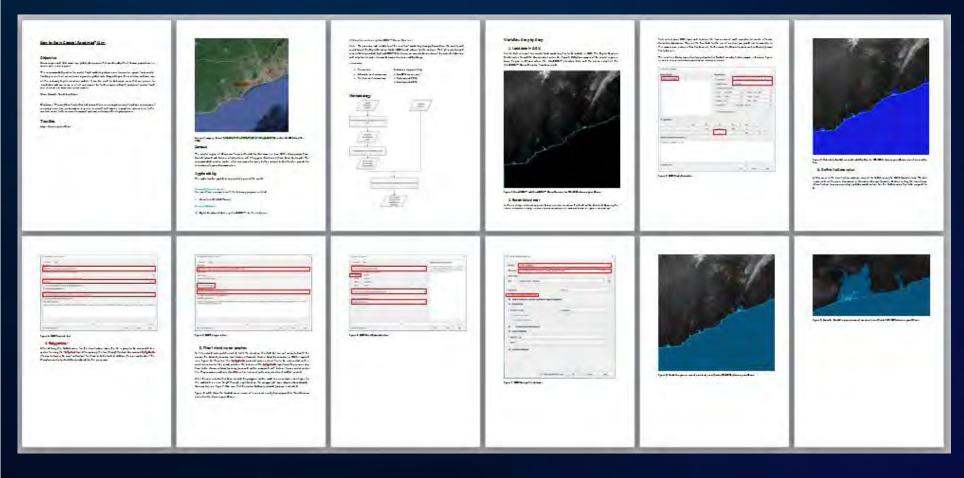






Recommended Practice for coastal flood modelling

→ Published soon at the UN-SPIDER Knowledge Portal



- Open source GIS software
- Easy handling
- Applicable for all DEM data





Guatemala: River Inundation Modelling

Comparison with free and open data









Flood Simulation, Coyolate River, Guatemala

COYOLATE RIVER
HYDRAULIC MODELLING

FLOOD SITE:
SANTA ODILIA VILLAGE,
NUEVA CONCEPCION, ESCUINTLA,
GUATEMALA

DISCHARGE DATA FROM THE CERRO COLORADO STATION T = 50 YEARS



Guatemala: River Inundation Modelling

Comparison with free and open data

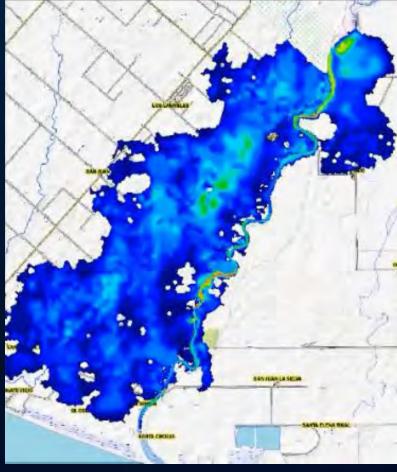








Flood Simulation, Coyolate River, Guatemala



Specific discharge SRTM, 30M



Specific discharge WorldDEM, 12M

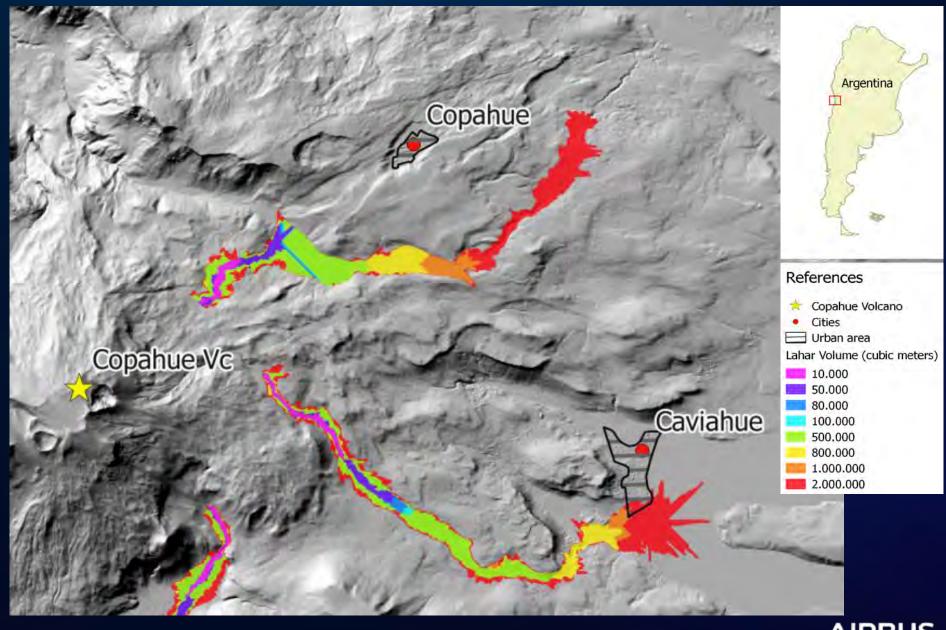


Lahar Modelling Using WorldDEM™

Applications:

- Lahar modelling
- Settlement areas hazard risk assessment

Lahar Modelling, Copahue Vulcano, Argentina



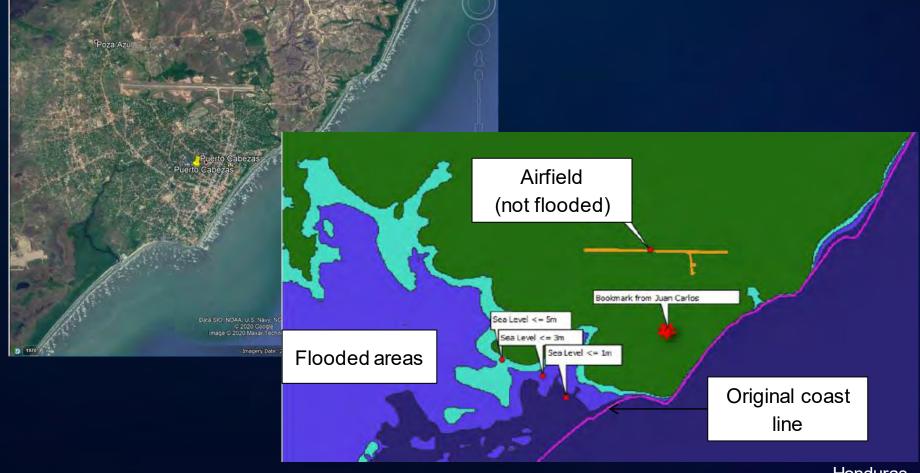
Flood maps to enable first aid to land in safe airfield

Applications:

- Emergency response
- Storm surges
- Hurricanes

Nicaragua – Hurricane November 2020

<u>Request of UNSPIDER to help them to confirm if airfield would have been flooded</u>



Honduras



Fluvial Flood Modelling

WorldDEMDTM_{lite} based example of a 100 Year Return Flood modelling. Neckarau (Germany)



Slide with animation



Thank you

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