

TanDEM-X & TerraSAR-X support to REDD+ MRV

Earth Observation Support to Development Thematic Area



Initiative:

Use of TanDEM-X radar imagery (globally available without gaps / 3m resolution / Aging 2011-2013):

- as reference datasets to detect hot spots of forest destruction (change detection product)
- to derive baseline maps for carbon monitoring (Prototype)
- WorldDEM™ product to estimate tree height (Perspective)

Results:

- Forest type maps & change detection in pilot sites in Borneo & Ghana
- Support to the conservation of Bornean orangutans
- Contribution to the training and transfer of field knowledge for Indonesians
- Capacity building in radar remote sensing in Ghana
- Consultancy for REDD+ MRV implementation

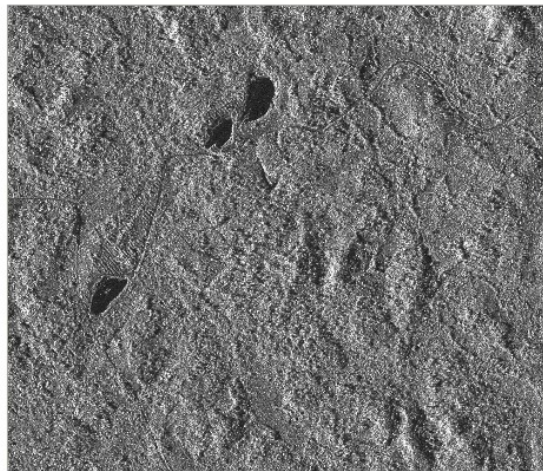


Fig 2. Change Detection, TerraSAR-X High Resolution SpotLight, 2010 – 2012 – composite of 2010/2012, Detected deforestation in red, new infrastructure & dump sites in yellow. Gold mining , Ayanfuri, Ghana.