



Remote Sensing Application For Landslide

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Remote Sensing Application Center

Remote Sensing Application Center is one of the government agencies under the National Institute Of Aeronautics and space (LAPAN). That provides information based on Remote Sensing data. One of information about disaster events that could be obtained using remote sensing imagery.




UN-SPIDER and International Charter Disaster

Remote Sensing Application Center already become part of UN-SPIDER. Remote Sensing application center already Become Regional Support Office in 12 February 2013 and become fifteenth Regional Support Office in UN-SPIDER. And Remote Sensing Application Center already join International Charter Disaster under Sentinel Asia



ER welcomes two new Regional...

about-us/news/en/6467/2013-02-25t102700/un-spider-welcomes-two-new-regional-support-offices


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United Nations Platform for Space-based Information for Disaster Management and Emergency Response


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Home » About Us » News » En » 6467 » 2013 02 25t102700 » UN-SPIDER welcomes two new Regional Support Offices

UN-SPIDER welcomes two new Regional Support Offices



Signing ceremony between UNOOSA and ICIMOD on 12 February 2013.

Credits: ICIMOD

On the sidelines of the fiftieth session of the Scientific and Technical Subcommittee of the Committee of the Peaceful Uses of Outer Space, which took place in Vienna, Austria from 11 - 22 February 2013, UN-SPIDER signed agreements with two new partners to establish Regional Support Offices (RSO).

On 12 February 2013, during the 4th annual UN-SPIDER Regional Support Offices meeting, the official signing ceremony for the International Centre for Integrated Mountain Development (ICIMOD) was held making ICIMOD the fourteenth RSO. ICIMOD is a regional intergovernmental learning and knowledge sharing centre serving the eight regional member countries of the Hindu Kush Himalayas – Afghanistan, Bangladesh, Bhutan, China, India, Myanmar, Nepal, and Pakistan – and based in Kathmandu, Nepal. The arrangement was formalized through a memorandum of understanding signed between ICIMOD and the UN Office for Outer Space Affairs (UNOOSA). Joining the network of RSOs, ICIMOD will work closely with UN-SPIDER to use space-based information and services for disaster management and emergency response in the Hindu Kush Himalayan region.

On 19 February, 2013, LAPAN, the Indonesian National Institute of Aeronautics and Space became UN-SPIDER's fifteenth Regional Support Office by signing a memorandum of understanding with UNOOSA. LAPAN is the Indonesian government space agency responsible for long-term civilian and military aerospace research. In September 2013, UNOOSA and LAPAN will jointly organize a Conference on Integrated Space Technology Applications to Climate Change, taking place in Jakarta, Indonesia.

Processed on Feb 25th 2013

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- ▶ UN-SPIDER interview: Kamel Tichouiti about the locust infestations in Algeria and Libya
- ▶ UN-SPIDER's 4th Annual Meeting of Regional Support Offices

CONTACT US!

Let us know if you have a comment or a question

Indonesia Located in near Equator line so it made Indonesia Has only Two Season Rainy Season and Summer Season. So the duration of season in Indonesia is quite a lot. various types of disasters that occur generally in Indonesia



NEWS > NATIONAL

Sukabumi landslide kills four, 41 missing

Arya Dipa
The Jakarta Post

Bandung / Tue, January 1, 2019 / 10:37 am



Search for missing goes on after Sukabumi landslide

Arya Dipa
The Jakarta Post

Bandung / Wed, January 2, 2019 / 09:40 am



15 DECEMBER 2014

The Banjarnegara landslide in Central Java, Indonesia: 32 dead, 76 missing

Posted by [Dave Petley](#)



The Banjarnegara landslide

Late on Friday night a large and apparently very rapid landslide was triggered by heavy rainfall at Banjarjnegara in Central Java, Indonesia. [Latest reports](#) suggest that 32 bodies have been recovered to date, with a further 76 people thought to be missing. The likelihood of their having survived the landslide is low; one can only hope that, as is often the case, it turns out that at least some of those reported missing were elsewhere at the time of the landslide. A further 15 people were injured, 11 of those seriously.

This image, from the [Straits Times](#), shows the landslide site from close to the toe:



<http://landslideblog.com/2014/12/15/han-arpenara-landslide/>

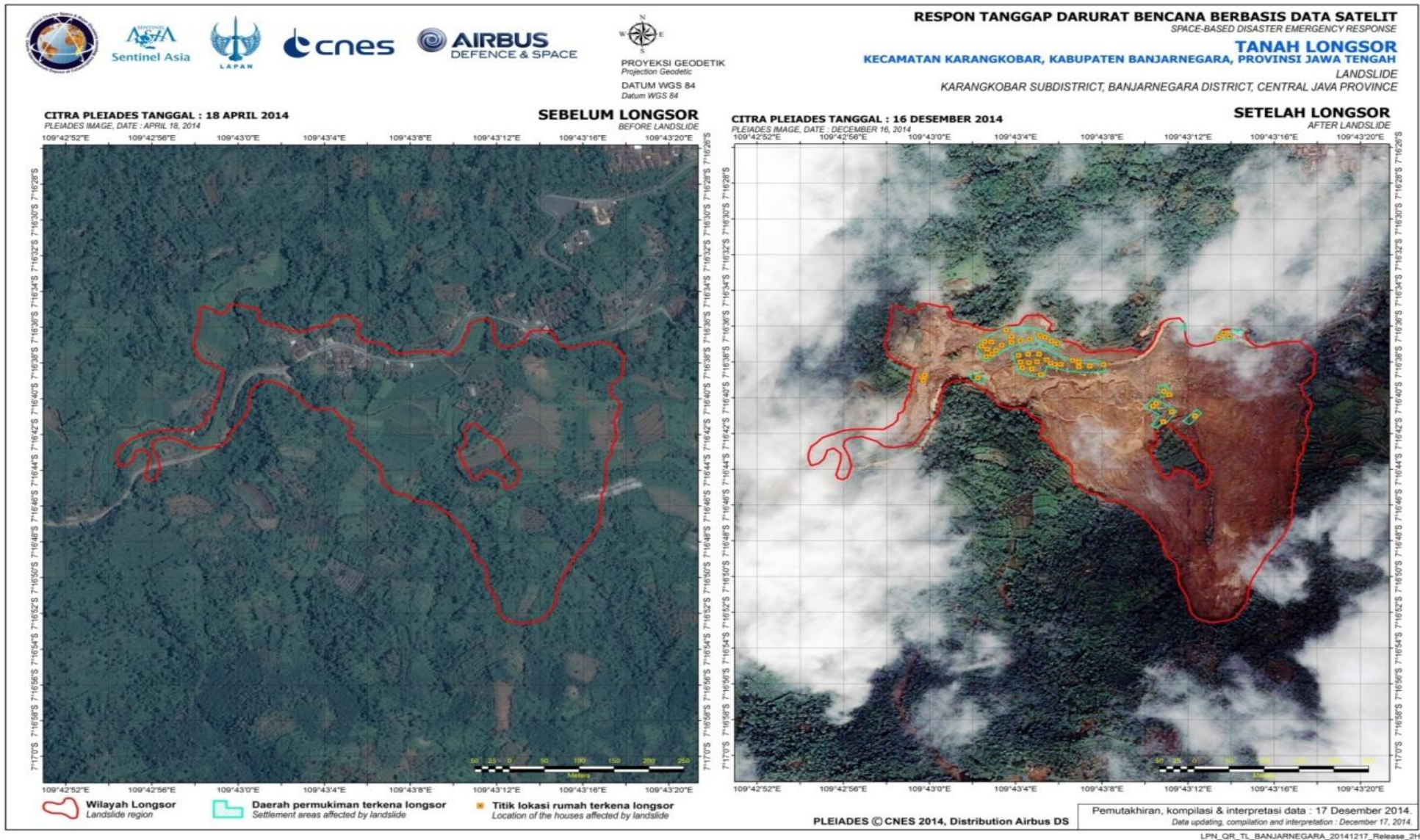
Navy Dispatches Marines to Aid Banjarnegara Landslide Victims

15 December 2014 10:48 WIB

COMMENT



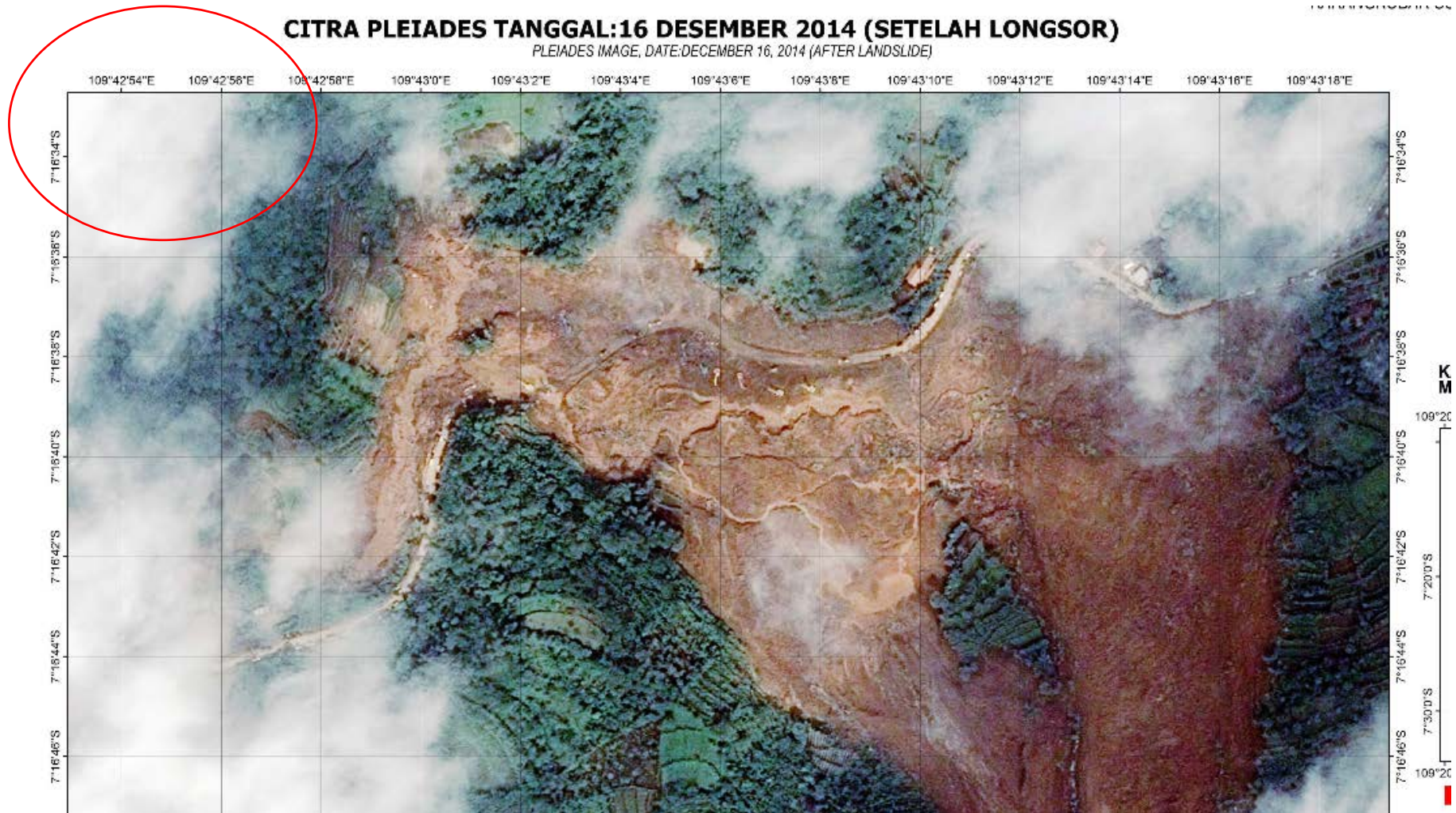
Disaster Emergency Response Mapping



INFORMATION MUST BE SHARE QUICKLY!!

1. Geography Coordinate Location
2. Total Area Affected By Landslide
3. Building Damaged By Landslide

Information in Landslide Using Remote Sensing



Information in Landslide Using Remote Sensing

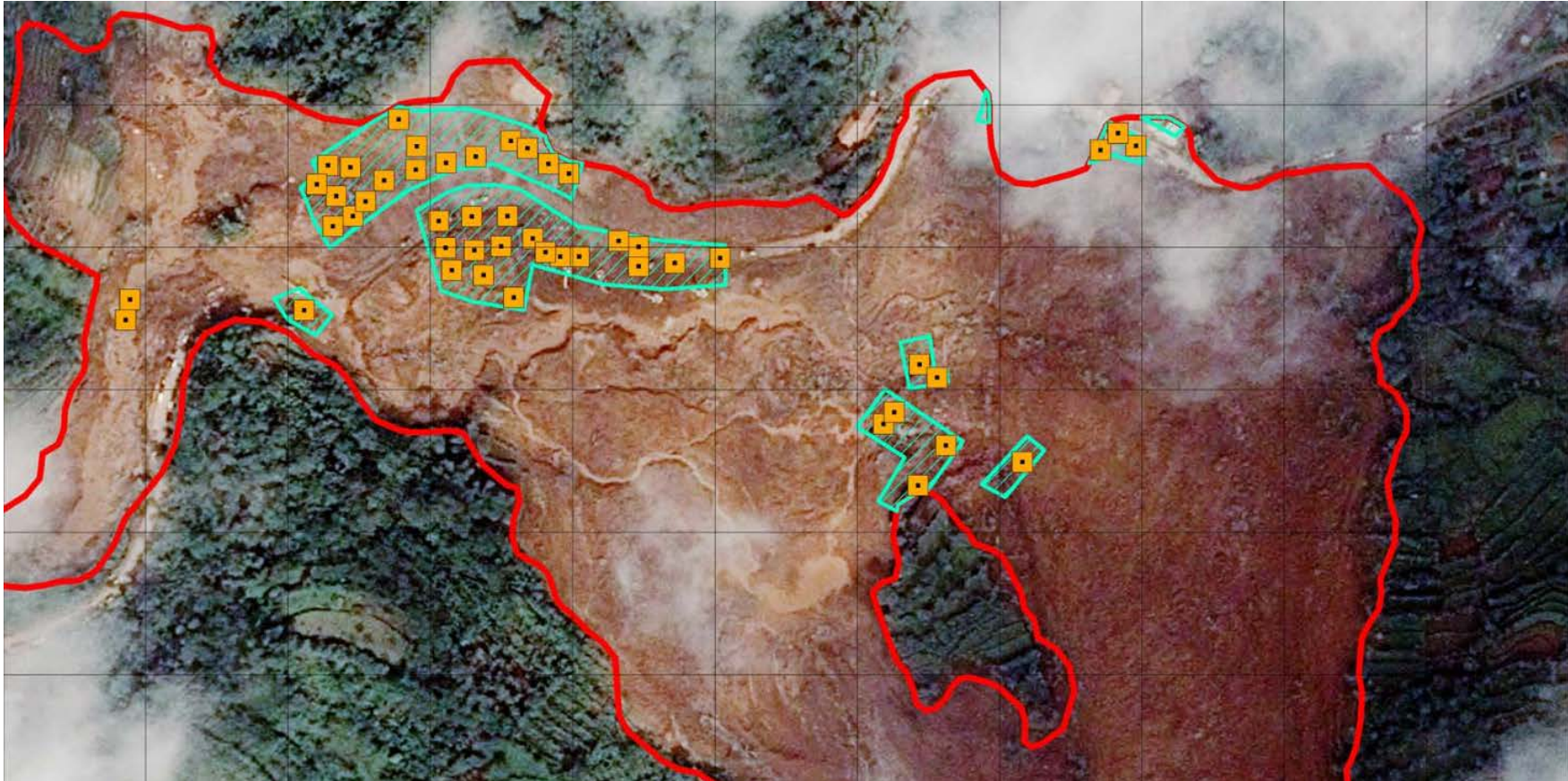


Distribution of landslide in Karangkoar



- Landslide materials are split into two due to containment of solid stones underneath that move following the slope.
- The landslide's length reached 1,2 km.
- Landslide material struck residential area at the bottom in less than 5 minutes.

Information in Landslide Using Remote Sensing



Sectors that can be analyzed more deeply

- 1.Land Use Change
- 2.Rainfall pattern
- 3.Geological
- 4.Loss Of Economies

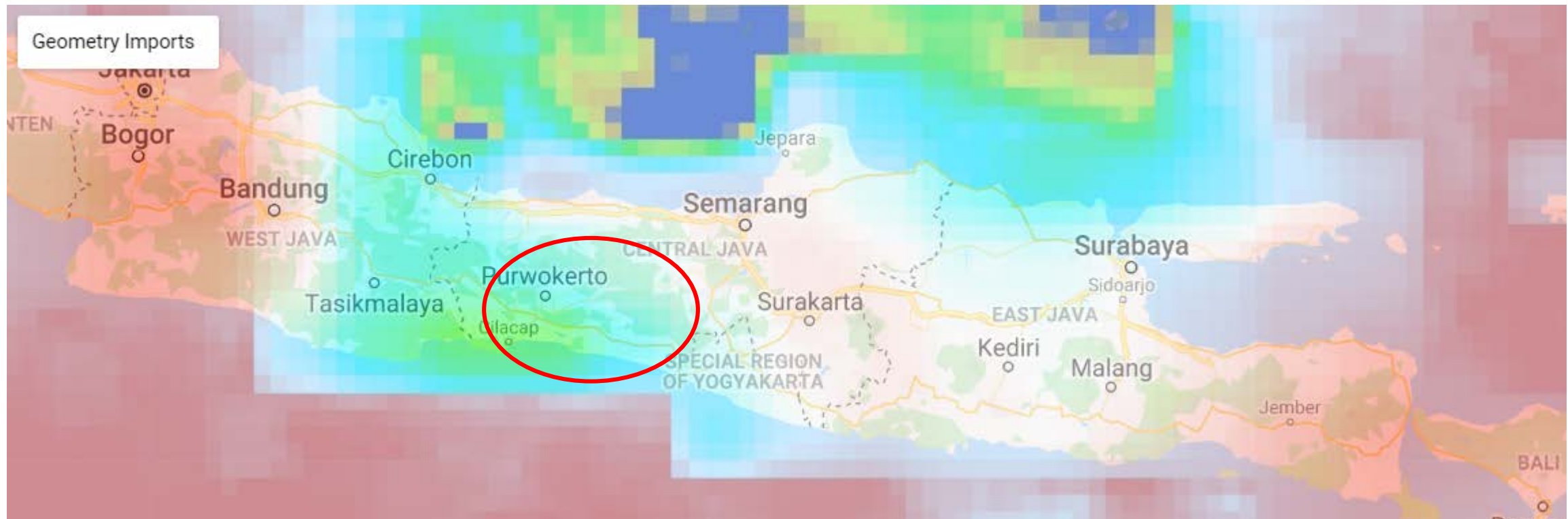
Land Use in 2000



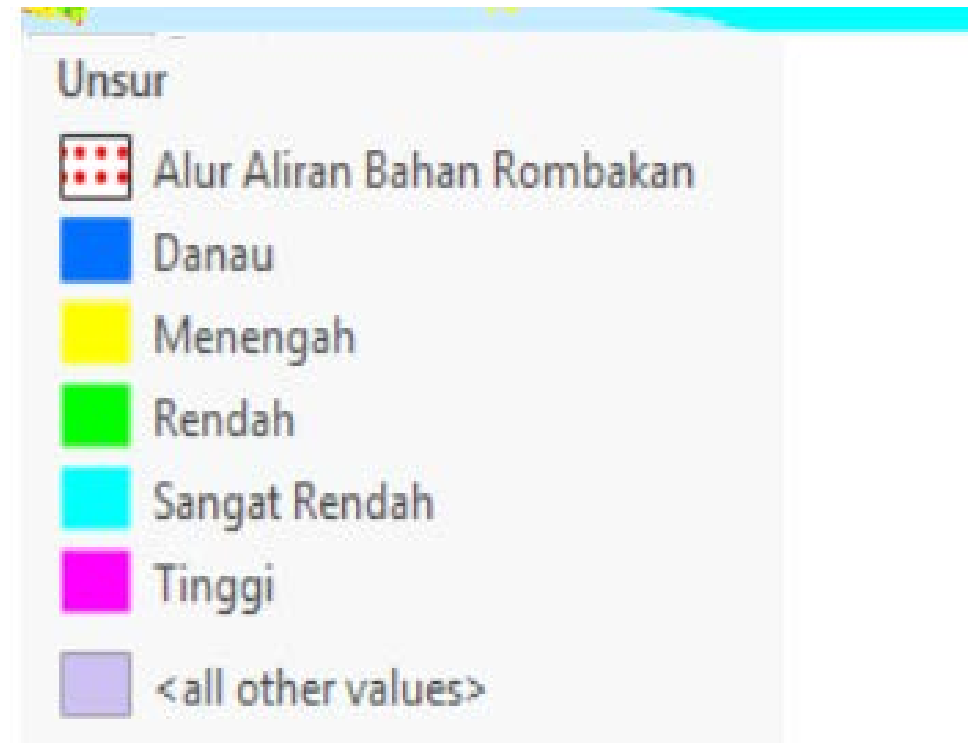
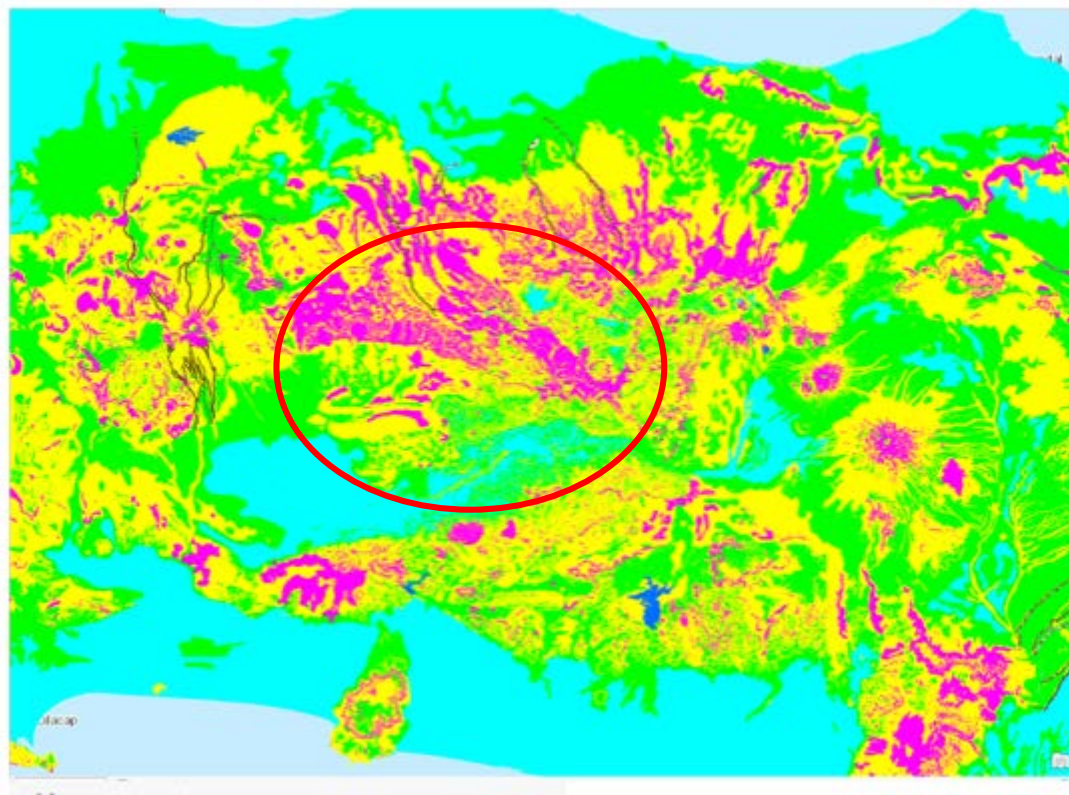
Land Use in 2018



GsMap data To Measure Rainfall Rate



Ground Movement



Efforts

8. The NDMA/BNPB is calculating the lost and damages caused by the slide.
9. The community expected that their relocation area will be safer and within the vicinity of Karangobar sub district. Relocation priority for Jemblung village community who escaped the disaster, while communities from the surrounding area will follow if they wish.
10. Banjarnegara's Regent will allocate the budget to free land and other infrastructure facilities. The NDMA/BNPB has been requested to provide a budget to construct houses for the relocated community.
11. The main principal of relocation is to build back better and safer. What to be reconstructed is not only the house but its community and life.

1. Landslides as a disaster could be mapped with Remote Sensing
2. LAPAN has used a lot of Remote Sensing data to Mapping disaster affected by join UN-SPIDER Program and join International Charter Disaster
3. Remote Sensing is useful for rapid mapping of the impact of disasters, especially landslides



Links To Remote Sensing Application Center Information

<http://pusfatja.lapan.go.id/simba/tanggapbencana/index.php/home>

<https://sipandora.pusfatja.lapan.go.id>



Terima kasih

www.pusfatja.lapan.go.id