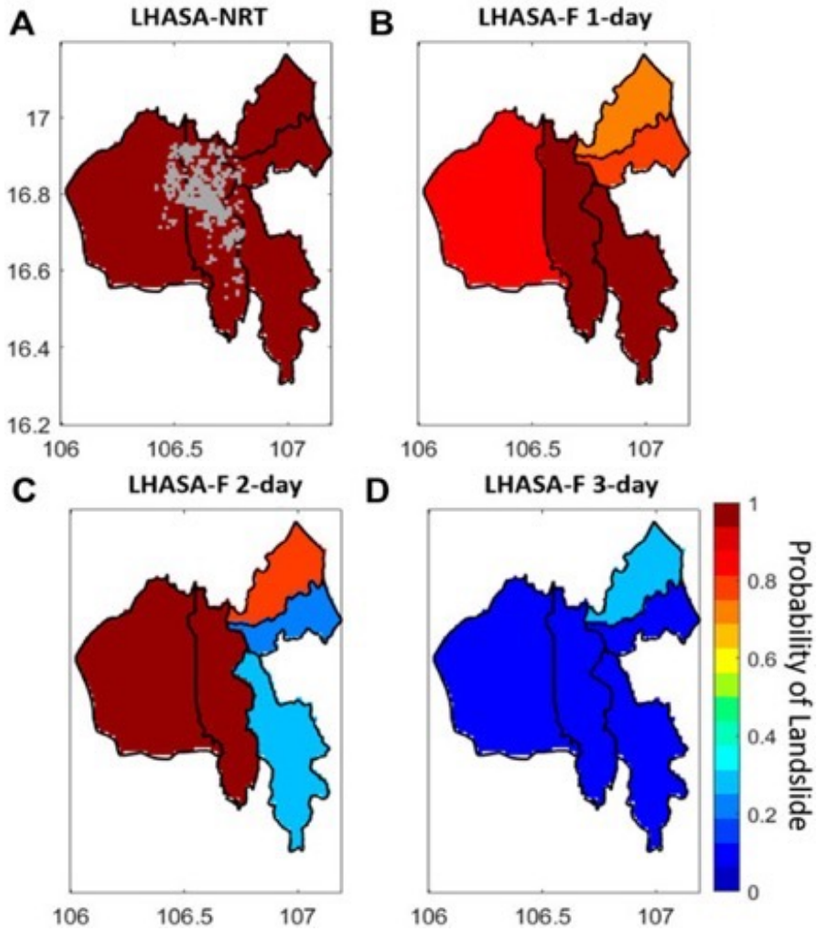
For the First Time, Landslide Hazard Can be Forecasted at the Global Scale

- The Landslide Hazard Assessment for Situational Awareness (LHASA) system was developed to show **where and when landslides** are most probable.
- By incorporating global precipitation data from NASA's GEOS model, LHASA can accurately forecast major landslide events **up to 2 days in advance**.
- Results show LHASA-F is generally able to resolve major landslide events triggered by extreme rainfall, **with a resolution of 1 kilometer**.
- LHASA also includes a module that finds the **roads and populations** with the greatest exposure to landslide hazard.
- LHASA code is **open source** and can be found at https://github.com/nasa/LHASA
- LHASA-NRT **runs 4 times a day**. The global forecast will be implemented soon. Outputs can be viewed at https://landslides.nasa.gov/viewer



Maximum landslide probability maps for landslide affected administrative district level 2 limits in Vietnam on 17 October 2020. Landslide points are displayed with gray points in panel A. (A) LHASA-NRT, (B) LHASA-F 1-day, (C) LHASA-F 2-days, and (D) LHASA-F 3-days.

Khan, S., D. B. Kirschbaum, T. A. Stanley, P. M. Amatya, and R. A. Emberson. 2022. "Global Landslide Forecasting System for Hazard Assessment and Situational Awareness." *Frontiers in Earth Science*, **10:** [10.3389/feart.2022.878996]