Dominica

Landslide Susceptibility

Susceptibility class
- Low landslide density
- Moderate landslide density
- High landslide density

This national-scale landslide susceptibility map has been generated in 2016, and is based on detailed landslide inventories from 1987 (DeGraff), 1990 (DeGraff), 2007 (Andereck), 2014 (Van Westen) and 2015 Erika (UNITAR-UNOSAT and BRGM). Factor maps were analyzed using bivariate statistical analysis for rockslide and soil slides separately. Susceptibility maps were made through Spatial Multi-Criteria Evaluation. The final map was edited extensively by comparing with past landslides and terrain conditions. The high susceptibility class will have the highest density of landslides, and most of the new landslides will occur in this zone. The low landslide susceptibility class will be practically landslide free, except for some occasional events. The moderate susceptibility class has a low landslide density, but landslide may occur in this zone.

Landslide types
- Debrisflow
- Debrisslide / Debris avalanche
- Earthflow
- Flashflood and debrisflow channel
- Coastal cliff
- Rockslide
- Rockfall
- Quarry

Period of landslide mapping
- Mapped by J. DeGraff in 1987
- Mapped by J. DeGraff in 1990
- Mapped by ITC in 2014
- Mapped by UNOSAT in 2015 (TS-Erika)
- Mapped by BRGM in 2015 (TS-Erika)

Damage reported from Tropical Storm Erika
- Damage during TS-Erika 2016 (from DANA)

Topography
- Parish Boundary
- Main Road
- Secondary Road
- SEG Trail
- Waitukubuli Trail
- Tertiary Road
- River
- Airport
- Anchorage
- Built-up area
- National Park

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