Preliminary Co-seismic Landslide Inventory Map for Portoviejo, Ecuador

Interpretation
This satellite image interpretation shows a landslide inventory map produced by the British Geological Survey. The scale of mapping was between 1:1,000 and 1:10,000 and the satellite image resolution is 0.5 m. Insets show detailed mapping.

In the Portoviejo area 29 sites were identified where river banks are affected by mainly rotational landslides. These potentially affect the stability of bridge abutments, houses and other assets. The landslides are likely caused by a combination of high water levels and seismic shock. The inset (top right) shows a large potential landslide area, but this is uncertain. The hilly topography surrounding the city does not appear to be affected by co-seismic landslides. This inventory requires field verification.

Data sources
Satellite data: Pleiades © CNES 2016, Distribution Airbus DS
(Imagery acquired 19 April 2016)
Vector data: Cities, Boundaries © OpenStreetMap

Framework
International Charter Disaster Activation 564, coordinated by UNOSAT.
This inventory was prepared in rapid mapping mode using a combination of satellite image interpretation and sourcing information from news reports and crowdsourcing.
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