

Risk of failure of Hidroituango dam, Colombia

Sentinel-2 MSI acquired on **07 April 2018** at 15:36:19 UTC
Sentinel-2 MSI acquired on **07 May 2018** at 15:36:19 UTC
Sentinel-2 MSI acquired on **12 May 2018** at 15:36:21 UTC
Sentinel-2 MSI acquired on **22 May 2018** at 15:36:21 UTC

Author(s): Sentinel Vision team, VisioTerra, France - svp@visioterra.fr

Keyword(s): Hydrology, river, lake, hydropower, dam, infrastructure, flood, emergency, renewable energy, Colombia



[2D Layerstack](#)

Fig. 1 - S2 (07.04.2018) - 4,3,2 natural colour - Once completed, the 225m high dam should produce 2400MW for a cost of 3.5 G€ - [2D view](#)



Insufficient water discharge endangers the dam. Cheap design has been pointed out. Before that the public tender had been contested as unfair.

Fig. 2 - 07.05.2018 - In early April sealed the last diversion tunnel collapsed, flooding the upstream valley. - [2D animation](#) [2D view](#)



Fig. 3 - 22.05.2018 - The 12.05.2018, uncontrolled unclogging caused downstream flood & eroded the dam wall's drain layer - [2D animation](#) [2D view](#)



Fig. 4 - 22.05.2018 - Locals of P. Valdidia, where houses & bridges have been destroyed, are among the 25000 evacuees - [2D animation](#) [2D view](#)



The views expressed herein can in no way be taken to reflect the official opinion of the European Space Agency or the European Union.

More on European Commission space:									
More on ESA:				S-1 website	S-2 website	S-3 website			
More on Copernicus program:				SciHub portal	Cophub portal	Inthub portal	Colhub portal		
More on VisioTerra:				Sentinel Vision Portal	Envisat+ERS portal	Swarm+GOCE portal	CryoSat portal	Proba-V portal	