Late Holocene paleoflood variability of the Cauca River, Colombia (South America)

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Tectonic context and the formation of the deposits

Santa Fe-Sopetrán Basin Map
Flight R92 IGAC - 1983

Legend
- Bedrock
- Water
- Terrace
- Deforestation
- Highly Vegetated Surface
- Mass Wasting Scar
- Breaks of Slope
- Ridge
- Angular Convex Ridge
- Angular Concave Ridge
- Flood Plain Deposit
- Gravel Bar
- SC Succre Deposit
- LF Las Flores Deposit

Scale
1:31,000

Johnstone, 2014
Flood archives
Sucre Flood archives Torres 2014
Diatom record

Vélez et al. 2013
River pulse: moderate, high frequency; no pedogenesis (<-3,000 yr BP)

River pulse: variable intensity, high frequency; pedogenesis is less common (3,000-~1,500 yr BP)

River pulse: strong, higher frequency; increase frequency pedogenesis (~1,500< yr BP)

River pulse: moderate, high frequency; no pedogenesis (~3,000 yr BP)
• Dating and microfossil recovery

Hydroituango

The biggest hydroelectric dam in Colombia is being built few km north of study area.

We need to know about the amplitud, frequency and range of variability of floodings.
Thank you