Outburst Floods and Morphology of Colonia and Baker Rivers, Patagonia: climate change, extreme flood impacts and sustainable hydropower





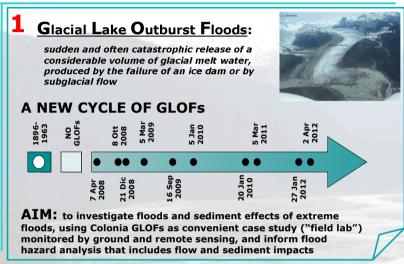
Alejandro Dussaillant¹, Elena Bastianon^{1,2}, Walter Bertoldi²

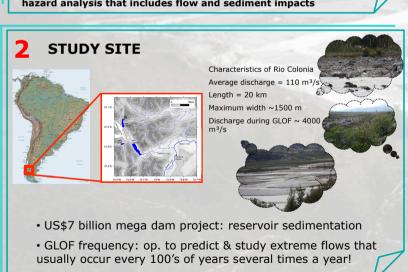
Civil Engineering Dept.

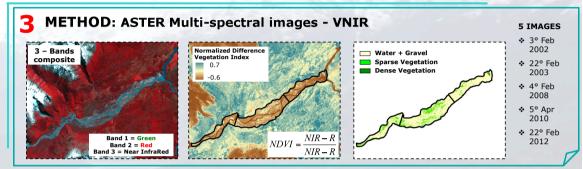
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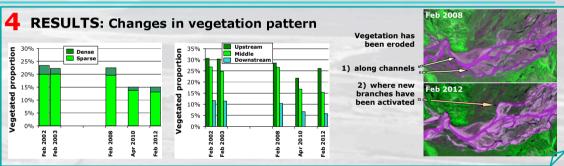
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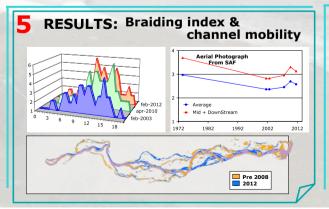
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6 CONCLUSIONS

- In the last 4 years we observed a decrease of vegetation cover (by 30%) and a simultaneous increase of the braiding index
- This sequence of GLOFs is an ideal case to study the effect of different (and extreme) discharges on braiding, flood risk and sediment flux

ONGOING WORK

- · River bed topo surveys, estimate bedload
- Suspended sediment, flood hazard, reservoir feasibility
- · Vegetation studies, sensor network