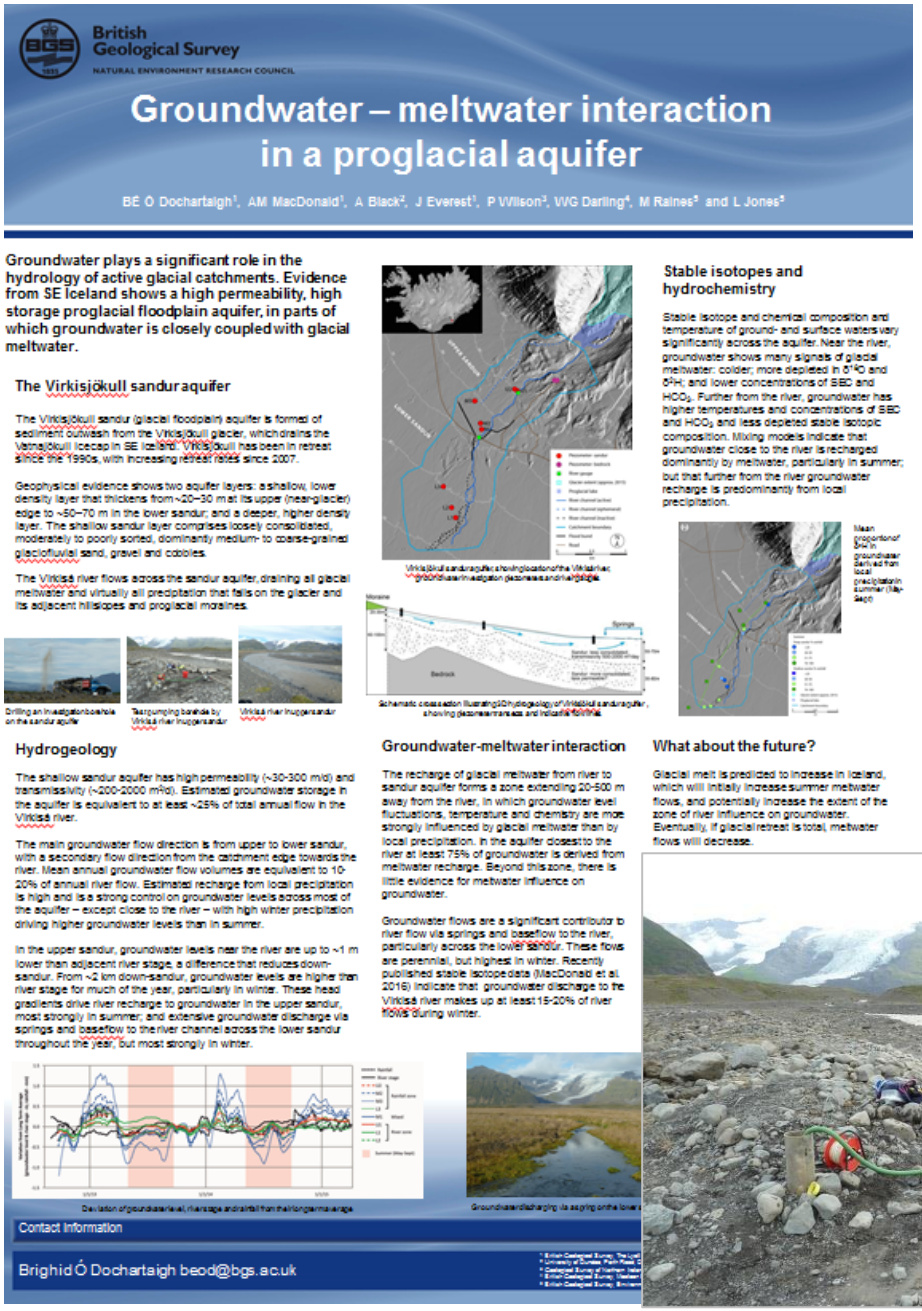


Groundwater plays a significant role in the hydrology of active glacial catchments. Evidence from SE Iceland shows a high permeability, high storage proglacial floodplain aquifer, in parts of which groundwater is closely coupled with glacial meltwater.

GW storage equivalent to 25% annual flow of Virkisá river.

Large zone where GW temperature and chemistry influenced more by glacial meltwater than precipitation.

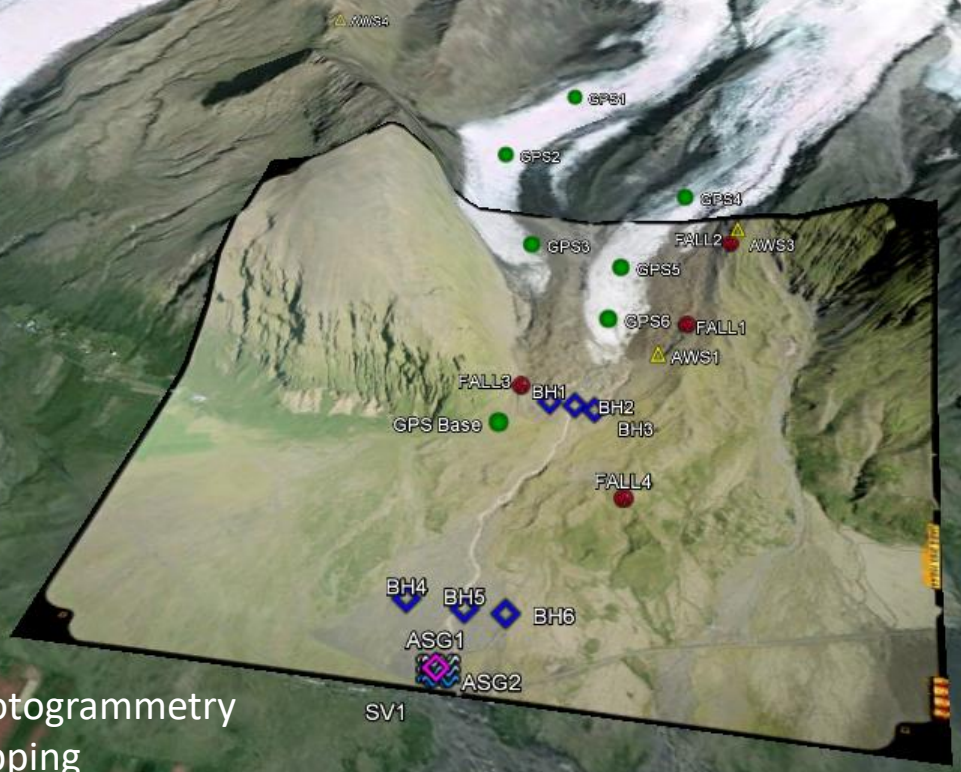
In aquifer around river ~75% groundwater derived from meltwater recharge.

During periods of low (winter) melt, GW flow significant contributor to river.

Impact of deglaciation and shrinking meltwater recharge?

What installations do we have?

Range of data free to view / download:
http://www.bgs.ac.uk/research/glacierMonitoring/home.html



Also:

- Repeat lidar/ UAV photogrammetry
- Glacier structural mapping
- Geophysical profiles