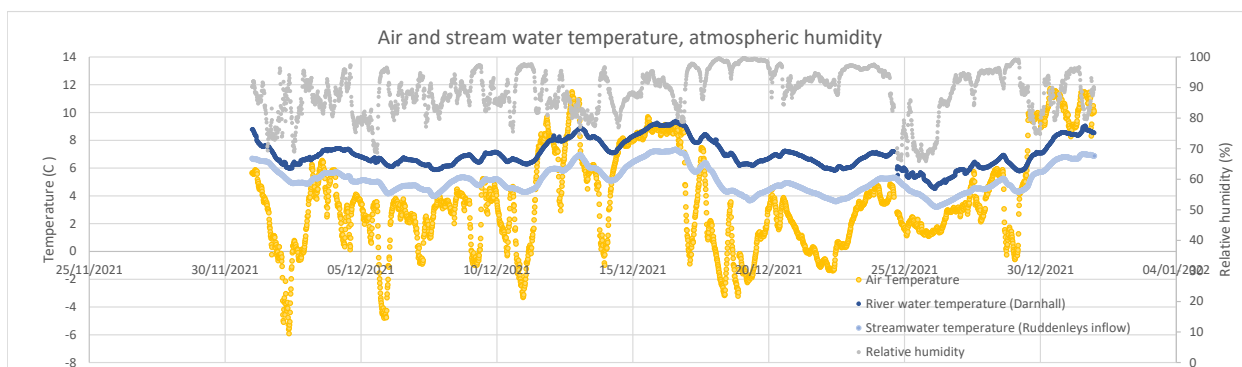
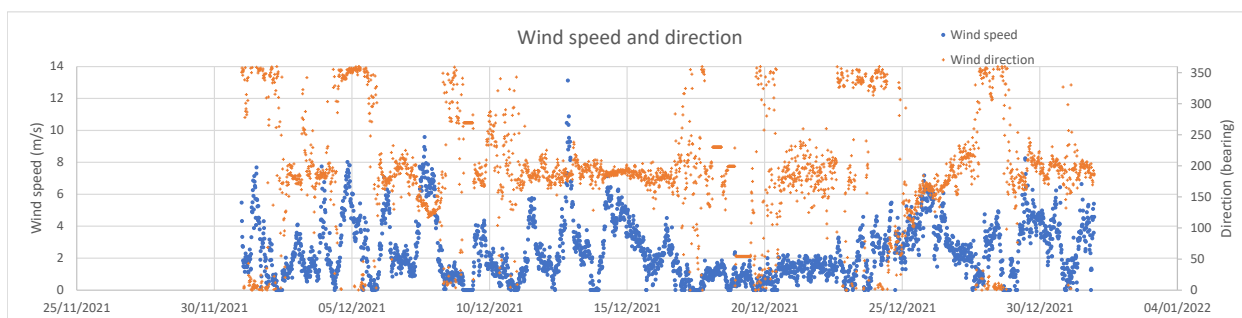
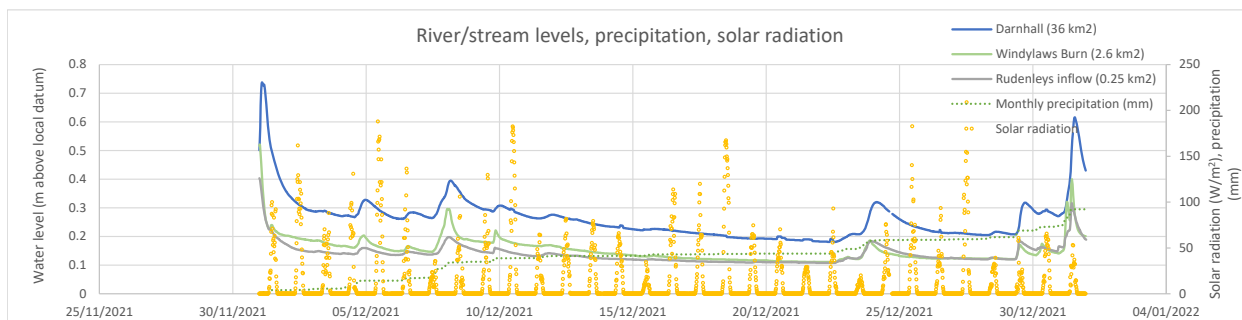




December 2021



Monthly statistics	Hourly values				Daily values				Month	
	Max	Day/time	Min	Day/time	Max	Day	Min	Day	Average	Total
Precipitation (Darnhall Mains) (mm)	6.4	31 @ 10:00			14.6	7				92.2
Precipitation (Ruddenleys) (mm)	4.4	31 @ 10:00			8.8	23				81.8
Precipitation (Nether Kidston) (mm)	6	31 @ 10:00			15.6	7				91.8
Precipitation (Burnhead) (mm)	6	31 @ 10:00			9.4	7				86.0
Runoff depth (Darnhall Mains) (mm)										105.5
Air temperature (Darnhall Mains) (C)	11.6	30 @ 09:00	-5.6	2 @ 9:0	10.5	30	-1.3	2	3.6	
Relative humidity (Darnhall Mains) (%)									88.5	
Sunshine hours					5.75	5			1.4	44.5



Notes

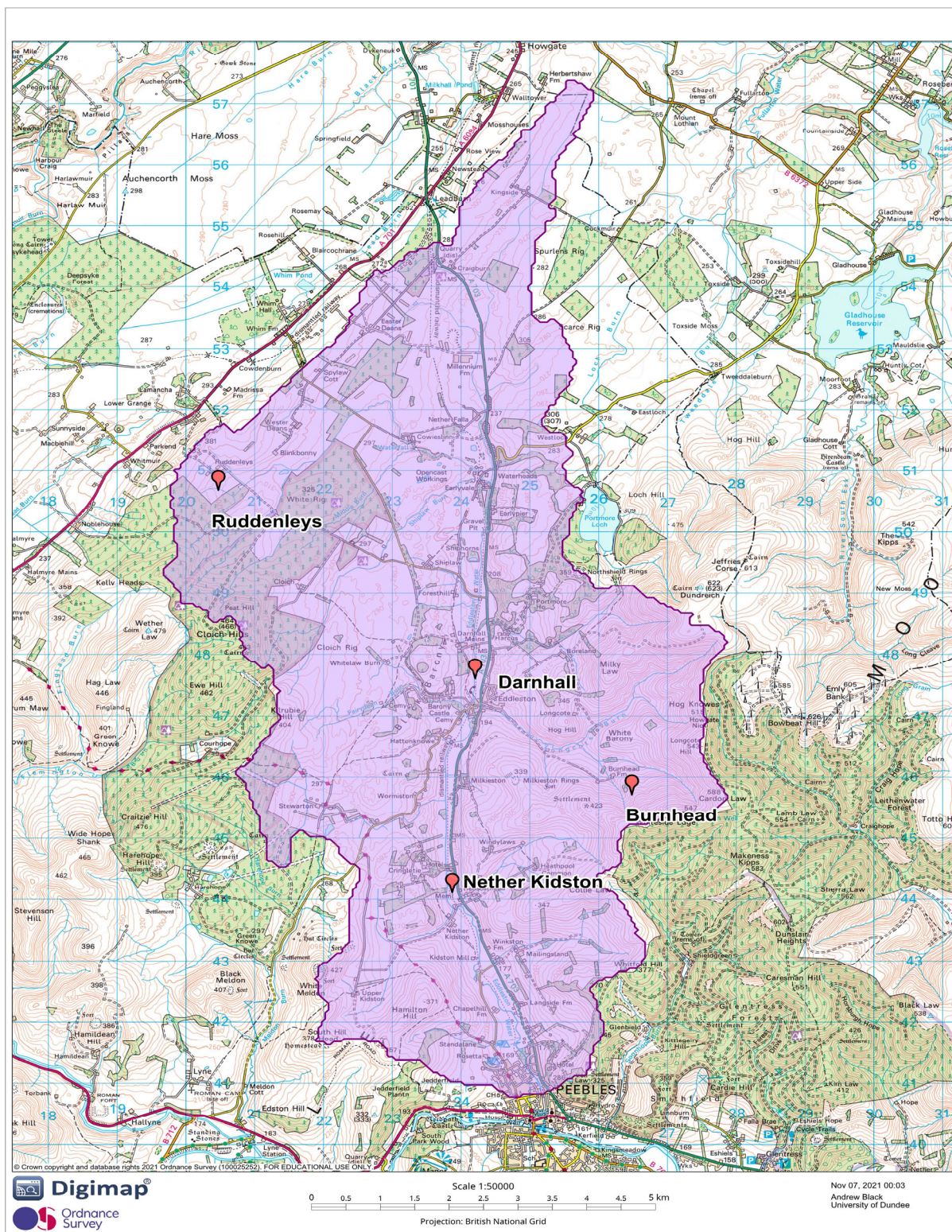
Monthly rainfall 72% of long-term average for December; no flood events. A continuation of a rainfall event from the end of November is seen to peak and end into the start of the month December in which the water level dropped steeply from just over 0.7 m above local datum to just below 0.3 m. A modest maximum of 6.4 mm per hour in precipitation was recorded on the 31st, resulting in the 2nd-highest water level of the month of 0.56 m above local datum. Apparent shortfall of precipitation at Burnhead and Ruddenleys compared with other sites likely due to snowmelt causing undercatch on 7th. No major snowmelt events.

A cold start to the month with a minimum air temperature of -5.6 C recorded on the 2nd, with many frost events occurring until the 23rd when the temperatures began to increase. The temperature remained mild through late December, with a maximum air temperature of 11.6 C recorded.

Monthly runoff is in the same order of magnitude as monthly precipitation; the catchment remains wet and responsive.

All data subject to revision through a process continual review and quality assurance. Report prepared Rebekah Egan and approved by Andrew Black.

Real-time data available at: <https://hydro-data.dundee.ac.uk/eddeleston>



The Eddleston Water Project

Funded by the Scottish Government, Interreg and the Scottish Environment Protection Agency (SEPA), this project aims to reduce flood risk and restore the Eddleston Water for the benefit of the local community and wildlife.

The project involves river re-meandering, the planting of over 300,000 trees and the creation of new wetlands. This should slow the speed and impact of floodwaters as well as creating new wildlife habitat, such as improved spawning for salmon. Our project partnership is closely monitoring the results, including any reduction in flood risk for downstream communities.

The project is a partnership initiative led by Tweed Forum, with the Scottish Government, SEPA and University of Dundee. Other key partners include British Geological Survey, Nature Scot, Scottish Borders Council, the Forestry Commission, National Farmers' Union of Scotland, the Tweed Foundation, Forest Carbon and the Woodland Trust. Tweed Forum works closely with landowners and the local community so that everyone can contribute ideas and follow the project's progress.

For more information, see: <https://tweedforum.org/our-work/projects/the-eddleston-water-project/>

This monthly report is produced by student volunteer effort at the University of Dundee. For more info, see:

<https://sites.dundee.ac.uk/hydrology>