

**NORTHERN RESEARCH BASINS QUESTIONNAIRE
WATER BALANCE STUDIES**

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| 1) Name and location of research watershed | Pisissarfik watershed, a sub watershed of the Tasersuaq watershed. Center of watershed: 52°W 48' 67°N 08'. Nearest town is Sissimiut. |
| 2) Participants with address and email | Christian Helweg and Håkon Gjessing Karlsen ASIAQ, postbox 1003 3900 Greenland chh@asiaq.gl , hgk@asiaq.gl +299 348800 |
| 3) Watershed size | 39.5 km ² (approx 13 km long and 2.5 km wide) |
| 4) Permafrost extent | Permafrost is found in most of the watershed. The depth of the active layer is around one meter. |
| 5) Soils description | The base rock, is mostly gneiss with bands of amfibolite. The sediments are predominantly talus and moraine deposits from the Weichelian glaciation. This is covered by organics in the lower parts of the watershed. The base rock is visible severable places in the watershed. The deepest layer of soil is found along the river. |
| 6) Vegetation description | The sediments in the lower part of the watershed are generally covered by low grasses, mosses and low shrubs. |
| 7) Climate | The climate is arctic with average temperatures below 0°C in the coldest month and below 10°C in the warmest month. Average temperature in the coldest month is -23.6°C and 9.6°C in the warmest. Precipitation is medium for Greenland. |
| 8) Topography | A NE-SW valley with steep slopes in the lower parts and less steep slopes in the upper part. The measuring station is situated at 475 m and the highest point bordering the watershed is around 1200 m. 50% of the area slopes less than 5° while 5% of the area slopes more than 20°. |
| 9) Period of record | 1992 to present |
| 10) Other | Year-around data collection, There are other data-collecting stations in the vicinity. |