

SVALI template (T.9) for submission of meta-data

Meta-data to Deliverable [D 2.1-1]

Title Observed discharge time-series from glacier-covered catchments in Iceland

1.) General description of the data set:

Observed river discharge from hydrometric stations in 10 selected rivers with substantial glacier cover. Two time series are available for each station, one with daily resolution, covering the whole operation period of each station, and one with hourly data, covering the operation period of digital data loggers at each station. Each time series contains discharge values measured in cubic meters per second. The data are in comma separated ASCII files. Shape files, delineating the watershed of each hydrometric station, are following the time-series. In total this is about 65 MB of data.

2.) Created: 2012, Icelandic Meteorological Office

3.) Latest update: 2012, Icelandic Meteorological Office

4.) Keywords: Discharge time-series, glacier runoff, glacier rivers, glacier hydrology

5.) Area: The selected glacier rivers are all draining either Hofsjökull ice cap or Vatnajökull ice cap, central and eastern Iceland.

6.) Spatial extension: Point measurements in 10 different rivers. All measurement locations are located within 63–66°N and 15–20°W.

7.) Spatial resolution: Point measurements

8.) Temporal coverage: 1951–2011, initial date differs between time-series.

9.) Temporal resolution: Daily for the whole operation period of each time series, hourly for the operation period with digital data-loggers (initial date for hourly data differs between locations but ranges from 1995–2005).

10.) Data format: Comma separated ASCII files with a ten line header, easily read by data processing softwares such as R or Matlab. Shape files of water divides are made in Esri ArcMap and are of the standard shape-file format.

11.) References (further information): Einarsson, B. 2012. Available discharge time-series from glacier-covered catchments in Iceland. Icelandic Meteorological Office, Technical report BE2012-01.

12.) Data quality (degree of validation): The data have all gone through substantial standard quality control for hydrometric data at the Icelandic Meteorological Office and each day of data is given one of the four quality flag: Good, Estimated, Suspect or Missing. An annual data report (in Icelandic) is made for each station and can be accessed at the Icelandic Meteorological Office.

13.) Where to find the data? Bergur Einarsson, Icelandic Meteorological Office, bergur@vedur.is

14.) References (for citing): Discharge data from the database of the Icelandic Meteorological Office. 2012.