

This site is currently under development

Automatic Weather Station Søråsen

Location of AWS Søråsen and Neumayer_III (Graphic: Google Earth)

2016-01-21 an automatic weather station was installed on a gentle hill called Søråsen (-71.21625, -10.06716) 574 m above sea level. Together with the Halvfarryggen to the east, both hills surround the Ekstøm Ice Shelf on which Neumayer Station is situated. The distance to Neumayer adds up to 100 km.

The AWS is powered by a solar panel and a robust wind turbine. The solar panel points in a southward direction in order to minimize the disturbances on the northward pointing radiation measurements. The solar panel is inclined to the surface to get illuminated from the reflex radiation which is independent from the angle of the direct radiation.

The minutely averages of the data acquisition get transferred to AWI Bremerhaven via IRIDIUM and visualized on this web page as promptly as possible, see below. Additionally, the data get used to perform hourly synoptic weather reports which get coded according to the FM-12 code and distributed in the GTS under the WMO# 89011. Since the IRIDIUM transfer is not working properly for 100% all minutely averages get stored inside the AWS as backup.

Installing the AWS Søråsen 2016-01-21 (Photo: Gert König-Langlo)

Yearly overview of AWS Søråsen data (Graphic: Alfred-Wegener-Institut) Daily overview AWS Søråsen data (Graphic: Alfred-Wegener-Institut)