

Automated vertical profiling system at Lake Arendsee

Automatische Profilmessungen am Arendsee

2014-05-07 - present

Metadata description for "Arendsee profiles multiparameter probe (YSI)"

24 V Profiler, Power supply via solar panels and windgenerator.

Automatic profiles are performed twice a day during the summer (2 am and 2 pm), in winter once (8 pm). Profiles from 1 to 48m (intervall 1m), with real-time data transmission.

Informations about the Dataset:

- During the storm Xavier on 05/10/2017, the platform was drifted into shallower water. For this reason, the profiles range only to 44 or 45m for the rest of the year.
- Non-existent data marked with NaN

Technical data YSI 6600 V2 (4):

	measuring range	resolution	accuracy
• Optical Dissolved Oxygen:			
• % Saturation	0 ... 500 %	0,1 %	±1 % to 200 %
• mg L ⁻¹	0 ... 50 mg L ⁻¹	0,01 mg L ⁻¹	±0,1 % to 20 mg L ⁻¹
• Conductivity:	0 ... 100 mS cm ⁻¹	range dependent	±5 %
• Temperature:	-5 ... +50°C	0,01°C	±15°C
• pH:	0 ... 14 units	0,01 unit	±0,2 unit
• Turbidity:	0 ... 1000 NTU	0,1 NTU	±2 %
	Range	detection limit	resolution
• Phycocyanin:	0 ... 100 RFU		0,1 RFU
• Chlorophyll	ca. 0 ... 400 µg L ⁻¹	ca. 0,1 µg L ⁻¹	0,1 µg L ⁻¹



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