

Station Exposure Description

Station: Zorka / Зорька

Station short name:	ZOKA	Operational since:	10.09.2016
Latitude:	42° 10' 32.16" N	Country:	Kyrgyz Republic
Longitude:	77° 02' 13.92" E	Oblast:	Issyk Kul
Elevation [m a.s.l.]:	1610.27m	River basin:	Issyk Kul

Site Characteristics

Station location:



View from SE



View from W



View from NE



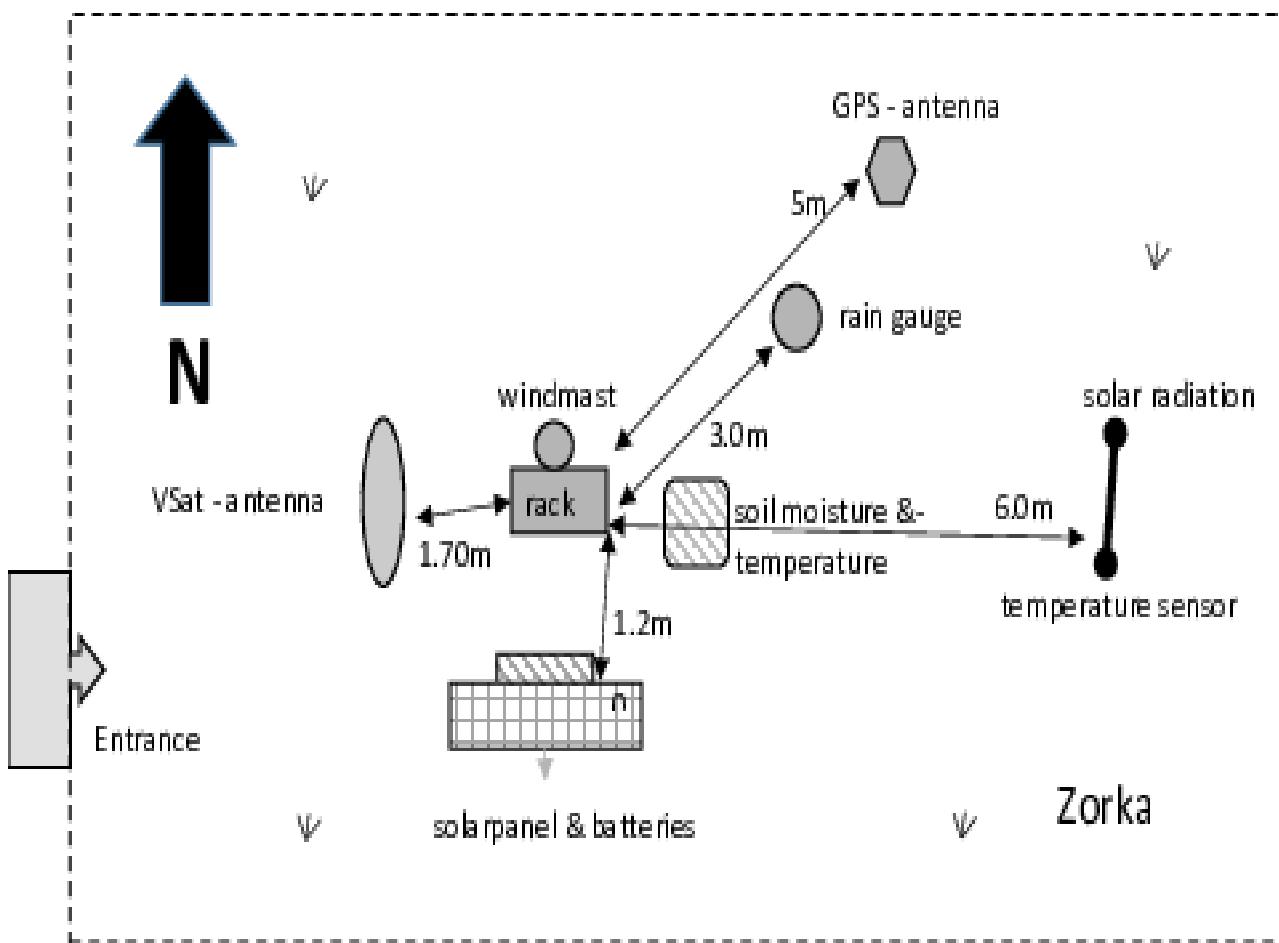
Station location and broader surroundings

Station Exposure Description

Terrain features:

Degree of urbanization in the surroundings:	Very few houses in the nearest vicinity.
Landscape type (e.g. mountains, coast):	The station is located at the southern coast of Lake Issyk Kul.
Direction of slope: Steep slopes, hills, hollows?	The close vicinity is in an ancient river basin. From west to south to east arise mountains.
Impervious surface, pavements:	No
Open water surfaces:	3m to the north (Lake Issyk Kul)
Main surface cover in the surroundings:	Stony, sandy surface covered with bushes. Steppe-like.

Station map:



Notes and remarks:

Station Exposure Description

Sensor exposure

Atmospheric pressure:

Sheltered within control cabinet?	Yes
Protected from wind gusts?	Yes



Solar radiation:

Sensor height above ground	1.90 m
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Temperature and humidity:

Sensor height in m above ground:	2.00 m (bottom edge of the radiation shield)
Artificial ventilation?	Principally available but not activated
Surface cover under screen:	No
Soil under screen:	Bare soil, some gravel

Precipitation:

Gage rim height in m above ground:	1,77m
Shield type:	None
Alignment of main axis of tipping bucket:	SW - NE
Fixation:	Not fixed

Wind:

Anemometer height in m above ground:	10.00 m
Orientation of junction box	N
Free standing?	Yes
<i>If not free standing:</i>	
Building height, width, length in m	

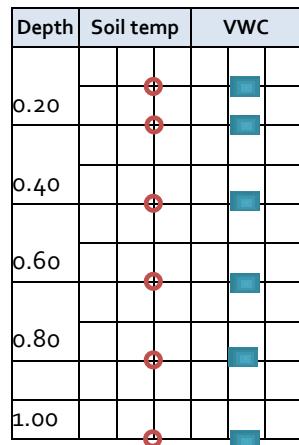
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Vegetation:	Bushes, sparse grass	
Terrain roughness class:	to N: 2.5	to E: 2.5
	to S: 2.5	to W: 2.5

Soil temperature and soil water content:

Sensor depths in m below ground:	Soil Temp: 10, 20, 40, 60, 80, 100cm; VWC: 10, 20, 40, 60, 80, 100cm below surface	
Soil cover above the soil sensors:	Sand, small stones	
Soil type:	Sand	
Soil structure:	Loose	
Level of water table in m below surface:	Not measurable	

Soil sensors locations below ground



GPS:

Distance above surface:	1,95 m
Obstructions:	No

List of installed sensors:

Measurement parameter	Manufacturer	Type
Temperature and humidity	Vaisala	HMP45
Air pressure	Setra	278
Wind	RM Young	05103-45
Precipitation	RM Young	52203
Solar radiation	Hukseflux	NR01
Soil moisture	Campbell Scientific	CS616
Soil temperature	Campbell Scientific	T107

Station Exposure Description

Changes and damages:

Hardware

Date	Description of Change
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Software

Date	Description of Change
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Local Operator:

The station is built on the property of a guesthouse.

Open issues / limitations: