

## 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

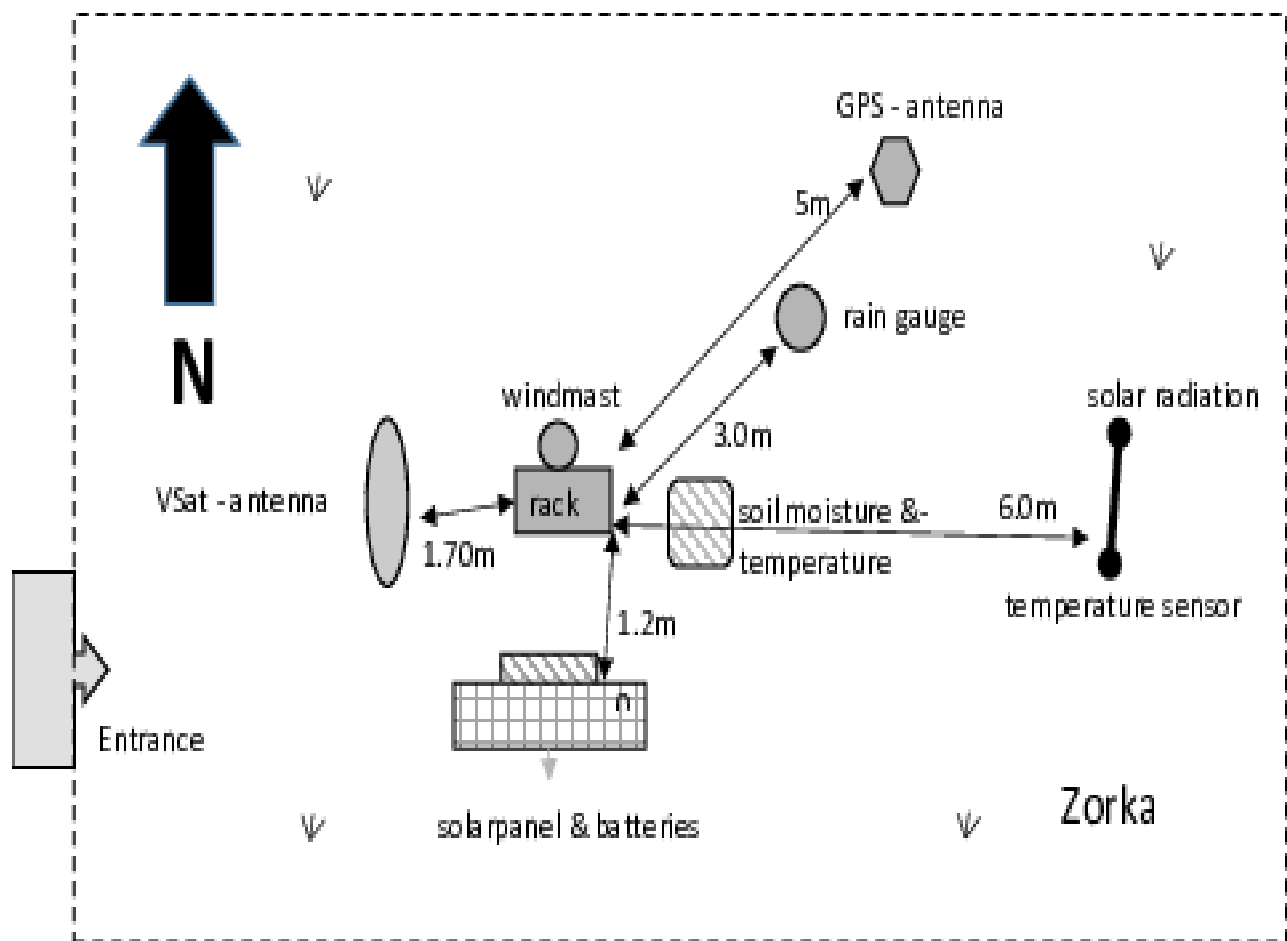
Open water surfaces:

3m to the north (Lake Issykkul)

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

#### *If not free standing:*

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

Depth	Soil temp	VWC
0.20		
		
0.40		
0.60		
0.80		
1.00		

### 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

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**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:**

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