
MEDARE ACTIVITY

in Bosnia and Herzegovina

2008 - 2010

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Historical overview

State meteorological service:

- 1892 – 1914
- 1923- 1941
- 1946- 1996

Federal hydrometeorological institute B&H

- 1997- 2007

Hydrometeorological institute of Republic Serbska

- 1992 - 2007
-

Meteorological stations

- 1892 – 1913 – about 70 meteorological stations (with climatological program)
 - 1923 – 1941 – about 120 meteorological stations (70 with climatological program and 50 rain gauge stations)
 - 1946 – 1996 – about 700 meteorological stations (120 with climatological program and 580 rain gauge stations)
 - Most stations had longer interruptions: 1914 – 1922; 1942 – 1945; 1992 – 1996.
-

Meteorological stations today

- 13 synoptic stations
- 40 climatic stations
- 20 rain gauge stations

- Actually data on profesional stations import in data base automaticaly.



Old papers we save in good condition,
but time made that they get old



Monthly data for meteorological station Bjelasnica – January 1915

Meteorologische Beobachtungsstation
Bjelasnica
 Beobachter *E. Schenk*

Jahr *1915*
 Monat *Jan*

Bjelasnica

Beobachtungs-Journal
 für
 Monat *April 1915*
 mit *68* Blatt *Poljane*

Datum	Umstellbare Ablesung am Barometer				Luftdruck (auf 0 reduziert, in Millimetern)			Temperaturangaben des Maximum- und Minimum- (falls im anderen sonstigen)		Temperatur des trockenen Thermometers nach Celsius			Temperatur des feuchten Thermometers nach Celsius			
	Thermometer nach Celsius mit Barometer	Thermometer nach Celsius mit Barometer	Thermometer nach Celsius mit Barometer	Thermometer nach Celsius mit Barometer	T	Z	Q	Tagesmittel	Max. Min.	T	Z	Q	Tagesmittel	T	Z	Q
1	0.1	0.2	0.1	0.1	76.0	76.0	76.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
2	0.2	0.2	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
3	0.2	0.2	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
4	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
5	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
6	0.1	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
7	0.2	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
8	0.1	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
9	0.1	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
10	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
11	0.1	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
12	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
13	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
14	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
15	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
16	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
17	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
18	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
19	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
20	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
21	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
22	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
23	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
24	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
25	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
27	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
28	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
29	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
31	0.0	0.1	0.1	0.1	75.0	75.0	75.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1.-5																
6-10																
11-15																
16-20																
21-25																
26-31																
1.-31																

Summe

Antwort: Ist eine einzelne Beobachtung gegeben, die die Richtung, die Temperatur, die Dampfdruck und den Niederschlag mit einer Dreimal stündlich und die Feuchtigkeit, Barometer und Windstärke von zu großer Zahlen herabzusetzen. Die Monatsmittel aller Elemente sind auf einer Dreimal genau zu berechnen. Die für die Lufttemperatur auf ± 0.1 berechnen. Die Maxima und Minima sind den Feuchtigkeitsangaben, nicht den Temperaturangaben zu entnehmen. Bei der Windrichtungangaben sind nur die Minut der Windrichtung zu geben.

Maximum des Luftdruckes *777.4* in *mm*
 Minimum " *761.1* " "
 Maximum der Lufttemp. *16.0* " "
 Minimum " *-10.0* " "

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DDC-Host 1.0
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Bosna i Hercegovina
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FEDERALNI HIDROMETEOROLOŠKI ZAVOD

Vrsta dokumenta
Klimatoloski mjesečni izvještaj

Pretraga po atributima
Naziv Stanice: bihac
Broj Stanice:
Period: 1965

Rezultat pretrage

ID	Naziv_stanice	Broj_stanice	Mjes

PDF Viewer

HIDROMETEOROLOŠKA SLUŽBA SFRJ
Socijalistička republika *Bosna i Hercegovina*

MESEČNI IZVEŠTAJ
СИНОПТИЧНЕ И ГЛАВНЕ КЛИМАТОЛОШКЕ СТАНИЦЕ

За месец *Septembar* 1964
Станица *Bugojna* Општина *Bugojna*
Г = 44° 04' N Село *Užice*
Ш = 17° 42' E Gr.
Н = 566 m Шеф станице: *Arlec Ivan*
Н = 566 m Осматраче: 1 *Zeljko Slavko*
2 *Stanković Miroslav*

ВРЕЊЕ	Терм.	Ветр.	Обл.	Вид.	Снеж.
1	12	2	10	10	0
2	14	21	10	10	0
3	14	21	10	10	0
4	14	21	10	10	0
5	14	21	10	10	0
6	14	21	10	10	0
7	14	21	10	10	0
8	14	21	10	10	0
9	14	21	10	10	0
10	14	21	10	10	0
11	14	21	10	10	0
12	14	21	10	10	0

ПОДАЦИ ИНСТРУМЕНТИМА

Инструмент	Нарав	Број	Примедба
Барометар (реални)	<i>B. Frenkel</i>	<i>14009</i>	<i>410</i>
Термометар	<i>Термометар</i>	<i>250</i>	<i>180</i>
Ветромер	<i>Ветромер</i>	<i>450</i>	<i>180</i>
Скала	<i>Скала</i>	<i>300</i>	<i>180</i>
Висота	<i>Висота</i>	<i>350</i>	<i>180</i>
Мак. термометар	<i>Мак. термометар</i>	<i>180</i>	<i>180</i>
На висину од 100 см			
На висину од 7 см	<i>Thermochron</i>	<i>180</i>	
На висину од 2 см		<i>200</i>	
На висину од 10 см		<i>200</i>	
На висину од 15 см		<i>60</i>	
На висину од 30 см		<i>180</i>	
На висину од 36 см		<i>60</i>	
На висину од 100 см			

Алерметр	Нарав	Број	Примедба
<i>Pohlsch</i>	<i>Mach</i>	<i>2742</i>	<i>180</i>
Уређаје	<i>Уређаје</i>	<i>4012</i>	<i>180</i>
Календар	<i>Календар</i>	<i>60</i>	
Ветурал	<i>Ветурал</i>	<i>60</i>	
Ветромер (аерометар)	<i>Ветромер</i>	<i>180</i>	
Огледало за облаке (аерометар)	<i>Огледало</i>	<i>180</i>	
Сигнални пољак	<i>Сигнални</i>	<i>60</i>	
Сигнални пољак	<i>Сигнални</i>	<i>180</i>	
Сигнални пољак	<i>Сигнални</i>	<i>180</i>	
Сигнални пољак	<i>Сигнални</i>	<i>180</i>	
Сигнални пољак	<i>Сигнални</i>	<i>180</i>	

ПОДАЦИ ОБРАДИ ИЗВЕШТАЈА
На станици *Bugojna* у зграду дана *13. 10. 64*

Систем	Датум	Времетрај
<i>Систем</i>	<i>Датум</i>	<i>Времетрај</i>

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Meteo Data rescue activities

- Softwares in development and use:

 - CLIDATA

 - Oracle Discoverer 6.0

 - DDC –Host e-Archive

- Currently used softwares:

 - EXCEL

- Percentage of digitized meteorological data:
about 40%
-

DIGITIZATION ACTIVITY

- At February 2008 FHMI B&H made permanent contract with firm DDC Central Europe for scanning and photo old papers archive. That activity implies consistent scan papers of 6 to 7 stations papers per year.



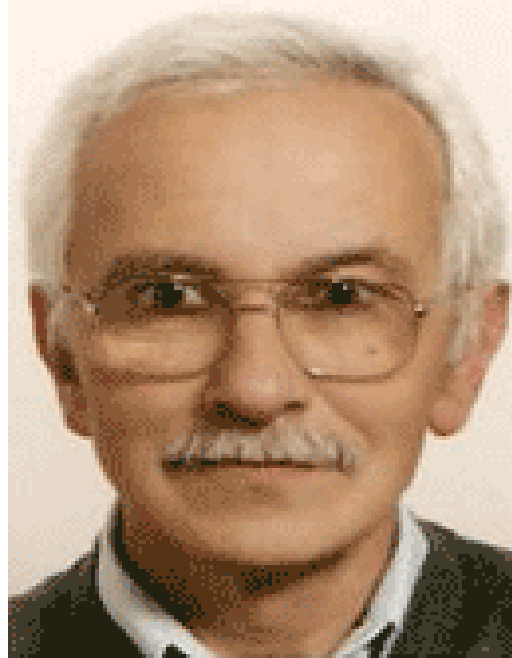
Results scanning until now

- Today we have 15 synoptically and climatologically stations finished: Sarajevo, Mostar, Bjelasnica, Bihac, Tuzla, Gradacac, Drvar, Jajce, Bugojno, Zenica, Ivan Sedlo, Livno, Neum, Gorazde and Travnik.
-

Planing

- Scanning to be continued for next 100 climatological and 400, but they have slight papers than synoptical stations. We calculate finished completely papers from five to six years
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Best regards from Sarajevo to
MEDARE community, and
thank you for attention



Zeljko Majstorovic, FHMZ B&H
