



1.0 Station history of The Gambia Meteorological Network & rainfall stations

The Gambia Meteorological service used to operate fifteen (15) Network stations covering all the regions in the country, but these was reduced to ten (10) in 2008. As of now, the department operates 10 synoptic weather stations and 25 rainfall stations as shown in table 1.

1.1 Network of Meteorological and Rainfall stations

Figure 1 shows Network of Meteorological stations in black symbols, 24 hour stations in blue symbols and red symbols for stations closed in 2008. The green symbols are the proposed new stations in 2014.

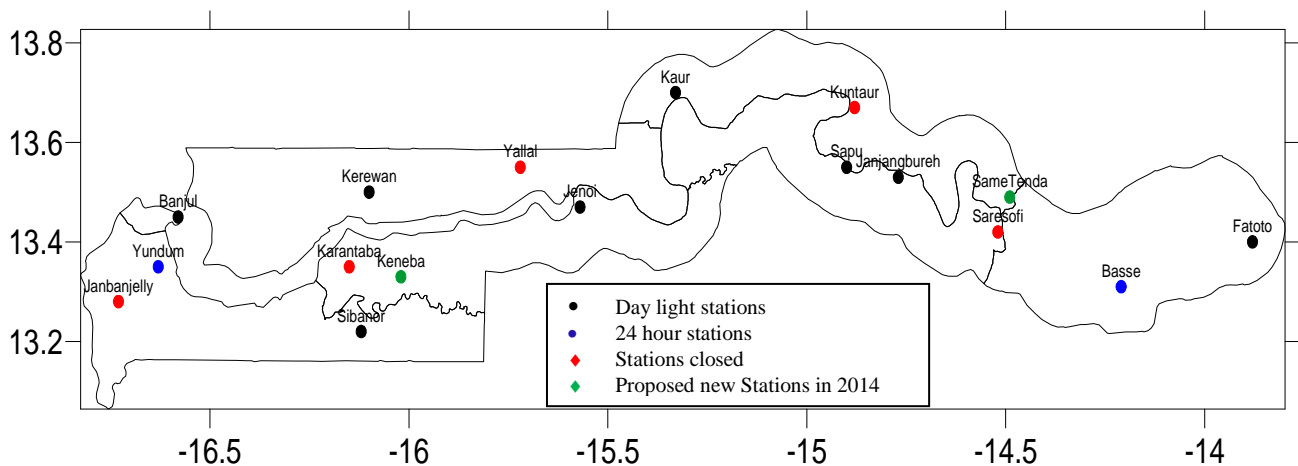


Figure 1 : Network of Meteorological station

Table 1: Network of Meteorological and Rainfall stations

No.	STATION-CODE	STATION-NAME	BEGIN-DATE	END-DATE	STATION_QUALIFIER	LAT-	LAT-	LON-	LON-	ELEVATION	REMARKS
						DEGR	MINU	DEGR	MINU		
1	15000200	Pirang mfc.	01/01/1971	Todate	Rainfall station	13	16	16	32	7	
2	15000500	Serrekunda	01/01/1977	Todate	Rainfall station	13	26	16	39	4	
3	15000600	Kaur met.	01/01/1984	Todate	Met.station	13	42	15	20	11	
4	15000800	Naude mfc.	01/01/1971	Todate	Rainfall station	13	28	14	27		
5	15001100	N'geyen sanjal mfc	01/01/1970	Todate	Rainfall station	13	36	15	26		
6	15001200	Basse met.	01/01/1949	Todate	Met. station	13	19	14	13	4	
7	15001400	Kwinella mfc.	01/01/1971	Todate	Rainfall station	13	24	15	48		
8	15001500	Gibanack mfc.	01/01/1971	Todate	Rainfall station	13	13	16	11	9	
9	15001600	Sare n'gai mfc.	01/01/1974	Todate	Rainfall station	13	29	14	50		
10	15001700	Jassong mfc	01/01/1971	31/12/1999	Rainfall station	13	24	15	18		Closed
11	15002400	Bansang	01/01/1951	Todate	Rainfall station	13	26	14	40		
12	15002500	Jakunda mfc.	01/01/1974	Todate	Rainfall station	13	29	14	11		
13	15002900	Dankunku mfc	01/01/1971	Todate	Rainfall station	13	34	15	18		
14	15003000	Banjul Halfdie/Marina	01/05/1943	Todate	Met. station	13	27	16	34	2	
15	15003100	Sare sofi mfc.	01/01/1971	Todate	Rainfall station	13	25	14	31		Met. closed
16	15003300	Kerewan met.	01/07/1974	Todate	Met. station	13	30	16	6	15	
17	15003500	Keneba mrc	01/05/1974	Todate	Rainfall station	13	20	16	1		
18	15003700	Kanjibat mfc.	01/01/1971	Todate	Rainfall station	13	13	15	58	8	
19	15003900	Georgetown met.	01/01/1949	Todate	Met. station	13	32	14	46	1	
20	15004000	Nja'bakunda mfc	01/01/1971	Todate	Rainfall station	13	33	15	55	8	
21	15004100	Bakendik mfc	01/01/1971	Todate	Rainfall station	13	27	16	27	9	
22	15004300	Jambanjelly mfc/met.	01/01/1971	Todate	Rainfall station	13	17	16	44	7	Met . closed
23	15004800	Mamudfana mfc.	01/01/1971	Todate	Rainfall station	13	36	15	7		
24	15004900	Jenoi met.	01/09/1974	Todate	Met.station	13	28	15	34	20	
25	15005000	Kuntair mfc	01/05/1976	Todate	Rainfall station	13	32	16	13		
26	15005100	Somita mfc.	01/01/1972	Todate	Rainfall station	13	12	16	18	7	
27	15005300	Jali mfc.	01/01/1974	Todate	Rainfall station	13	21	15	58		
28	15005400	Yundum Inter Airport	01/08/1945	Todate	Met. station	13	21	16	38	33	
29	15005500	Yallal mfc./met	01/01/1971	Todate	Rainfall station	13	33	15	43		Met. closed
30	15005600	Girobakunda	01/01/1973	Todate	Rainfall station	13	18	14	11		
31	15005800	Njau mfc.	01/01/1971	31/12/1999	Rainfall station	13	45	15	12		
32	15005900	Sibanor met.	01/01/1986	Todate	Met. station	13	13	16	12	21	
33	15006000	Mankamang mfc.	01/01/1974	Todate	Rainfall station	13	20	14	26		
34	15006200	Sapu met.	01/01/1956	Todate	Met. station	13	33	14	54	3	
35	15006500	Farafenni mrc	01/01/1984	31/12/1999	Rainfall station	13	35	15	38		Closed
36	15006600	Fatoto disp./met.	01/01/1976	Todate	Met. station	13	24	13	53	17.5	
37	15006800	Kiyang west mfc/met	01/01/1978	Todate	Rainfall station	13	21	16	9		Met. closed
38	15006900	Kuntaur met.	01/01/1986	Todate	Met. station	13	40	14	53	7.2	Met. closed
39	15007100	Sutukoba mfc	31/05/1971	Todate	Rainfall station	13	30	14	1		

1.2 Part 1: Rainfall in millimetres (mm) for July -August-September 2014

Station	R_tot	Normal 1981-2010	R_Max	R_Max_date	R_Min	R_Min_date
Banjul	117.6	234.9	46.6	19 th - August	1.0	3 rd - September
Yundum	192.1	254.4	70.8	19 th - June	0.4	3 rd - September
Kerewan	135.6	239.9	83.3	11 th - August	0.7	30 th - July
Sibanor	161.0	267.2	68.5	11 th - August	0.2	7 th - September
Kaur	111.9	212.0	47.4	19 th - August	0.7	8 th - September
Jenoi	145.4	215.4	80.4	13 th - August	1.3	24 th - September
Sapu	143.9	228.8	55.2	11 th - September	0.5	13 th - September
Janjanbureh	138.5	215.5	87.3	25 th - August	0.3	31 st -July
Basse	182.5	228.3	75.5	16 th - July	0.3	20 th - September
Fatoto	132.4	226.9	53.6	01 st - July	0.1	01 st /25 th -August
Bakendik		230.9				
Kuntair						
Ngain-Sanjai						
Kuntaur						
Jambanjelly						
Pirang						
Karantaba						
Kwinella						
Yallal						
N'jau						
Dankunku	502.5		55.0	25 th -August	1.0	29 th -September
Gibanak						
Jahkunda	575.9		100.0	26 th -August	4.0	16 th -September
Bansang						
Saresofi						
Mankamang						
Girobakunda						
Jali						
Kanjibat						
Serrekunda						
Sutukoba						
Naude						

1.2.1 Rainfall distribution

Rainfall amount ranging between 130 to 150 mm was recorded over the greater part of the country with a highest of more than 190mm over part of the Western Region (figure 2). From table 2 above, the lowest record of 111.9 mm prevailed over Kaur. The country average seasonal rainfall during July-August-September stood at 146.1mm, 63% above the long term mean (232.2mm) of 1981-2010 and a deficit of 86.1mm.

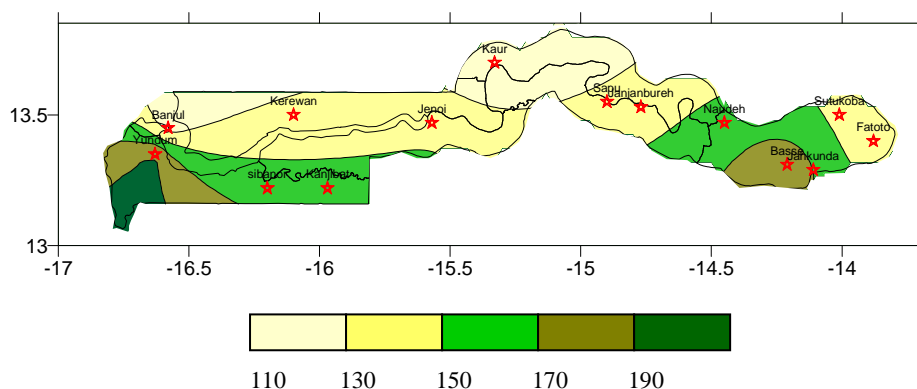


Figure 2: Rainfall (mm) for JAS 2014

1.3 Part II : Temperature in degrees Celsius (⁰C) for July -August-September 2014

Station_codes			MeanT-2014	Normal 1981-2010	MeanTmax-2014	Normal Tmax	MeanTmin-2014	Normal Tmin	AbTmax-2014	Normal AbTmax	AbTmin-2014	Normal AbTmin
WMO	National	Name										
61711	15003000	Banjul Halfdie/Marina	26.3	28.0	31.3	31.1	21.4	22.0	33.3	31.6	23.0	20.7
61731	15001200	Basse	28.3	27.1	33.0	39.4	23.6	24.9	36.0	41.0	24.0	23.9
61733	15006600	Fatoto disp./met.	28.7	27.2	33.5	39.8	23.9	24.3	36.2	41.4	24.4	23.3
61721	15003900	Georgetown	28.1	27.1	34.6	39.2	21.6	23.7	35.9	40.5	25.9	22.1
61707	15004900	Jenoi	27.9	26.8	33.3	38.6	22.5	22.4	36.3	39.9	26.0	20.8
61717	15000600	Kaur	28.7	27.6	33.6	39.1	23.8	23.0	35.9	40.3	25.7	21.7
61712	15003300	Kerewan		27.3		37.6		21.6		38.9		19.6
61722	15006200	Sapu		26.6		39.1		23.4		40.1		21.7
61705	15005900	Sibanor		26.6		37.2		21.7		38.5		20.0
61701	15005400	Yundum Airport	28.1	26.7	31.9	33.0	24.3	21.5	34.4	33.4	25.0	19.7

1.4 Part III: Relative Humidity in percentage (%) and Wind in metres per second (m/s) for July -August-September 2014

Station Codes			Relative Humidity (%)				Windspeed (m/s)_2014	
WMO	National	Name	MeanRH_2014	1981-2010	MaxRH_2014	MinRH_2014	Mean	Highest
61711	15003000	Banjul Halfdie/Marina	73	63	92	47	3	24
61731	15001200	Basse	85	64	98	17	6	20
61733	15006600	Fatoto disp./met.	78	57	99		4	9
61721	15003900	Georgetown	79	60	98	20	4	30
61707	15004900	Jenoi	75	57	96	20	3	12
61717	15000600	Kaur	73	52	97	20	4	20
61712	15003300	Kerewan	84	59	96	42	8	12
61722	15006200	Sapu		58			29	
61705	15005900	Sibanor		63			26	
61701	15005400	Yundum Airport	83	70	99	29	5	28

1.5 Part IV: Sunshine (hours) and Evaporation (mm) for July-August-September 2014

Station_codes			Sunshine 2014				Evaporation Class A (mm) 2014	
WMO	National	Name	Total	Normal 1981-2010	Max	Min	Total	Mean
61711	15003000	Banjul Halfdie/Marina	*	*	*	*	*	*
61731	15001200	Basse	202.1	192.2	10.7	1.0	139.3	4.5
61733	16006600	Fatoto disp./met.	147.4	86.7	10.6	0.9	151.5	4.9
61721	15003900	Georgetown	180.8	147.1	10.7	0.4	136.5	4.4
61707	15004900	Jenoi	176.3	181.5	10.7	0.7	125.2	4.1
61717	15000600	Kaur	197.0	99.7	10.4	0.2	137.3	4.5
61712	15003300	Kerewan	200.9	201.8	10.5	1.6	135.0	4.5
61722	16006200	Sapu		125.9				
61705	15005900	Sibanor		116.5				
61701	15005400	Yundum Airport	185.3	218.5	10.3	0.7	123.6	4.0

2.0 Part V: Climate Report explanations

PREFACE

Selected climatological data of general importance from weather stations in the Gambia has been compiled in this report. The values have been checked. Blank spaces indicate either missing or delayed records. If data are missing one or several days for one station within the selected period, this station are marked with an asterix (*). Observed values (OBS) and the normals (NORM) of these data values from the long period averages are given for the following elements :

- Average air temperature
- Rainfall
- Relative Humidity
- Sunshine
- Interpolated map for rainfall is included.

EXPLANATION OF TABLES

- Rainfall (mm) amount is measured every six hours in a standard rain gauge 80cm above ground level. The Total rainfall amount for any given day is the cumulative or accumulated six hourly rainfall amounts. A Rainy day is defined as a day with a total rainfall amount equal or more than 1mm.
- Air Temperature (°C) observations are made from thermometers exposed in Stevenson Screens, 1.25 metres above the ground. The Maximum and Minimum Temperature (°C) observed/ obtained, indicates the highest and lowest temperatures during the specified period.
- Relative Humidity is derived from the readings of the dry and wet bulb thermometers and expressed in Percentage (%).
- Sunshine Duration is measured using a Campbell-Stokes Tropical Sunshine Recorder and is recorded in hours.
- Actual Evaporation is determined from a Class A Pan and measured in millimetres (mm).
- Wind speed per day is read from a Cup Counter Anemometer mounted 10 metres above the ground and read in knots. It can also be converted to metres per second (m/s) or kilometer per hour (km/h).

Abbreviations :

- MeanT : Mean Temperature
- Mean Tmax : Mean Maximum Temperature
- Mean Tmin : Mean Minimum Temperature
- AbTmax : Absolute Maximum Temperature
- AbTmin : Absolute Minimum Temperature

Published by: Climate Unit

Department of Water Resources

7 Marina Parade

Banjul, The Gambia

Telephone: 00 (220) 422-7631/4222-872/422-4122

Fax: 00 (220) 422-5009

<http://www.mofwrnam.gov.gm>

E-mail: info@mofwrnam.gov.gm; infoclimate@gmail.com