

HYDROLOGICAL SERVICES NAMIBIA

DAILY FLOOD BULLETIN

24 January 2022

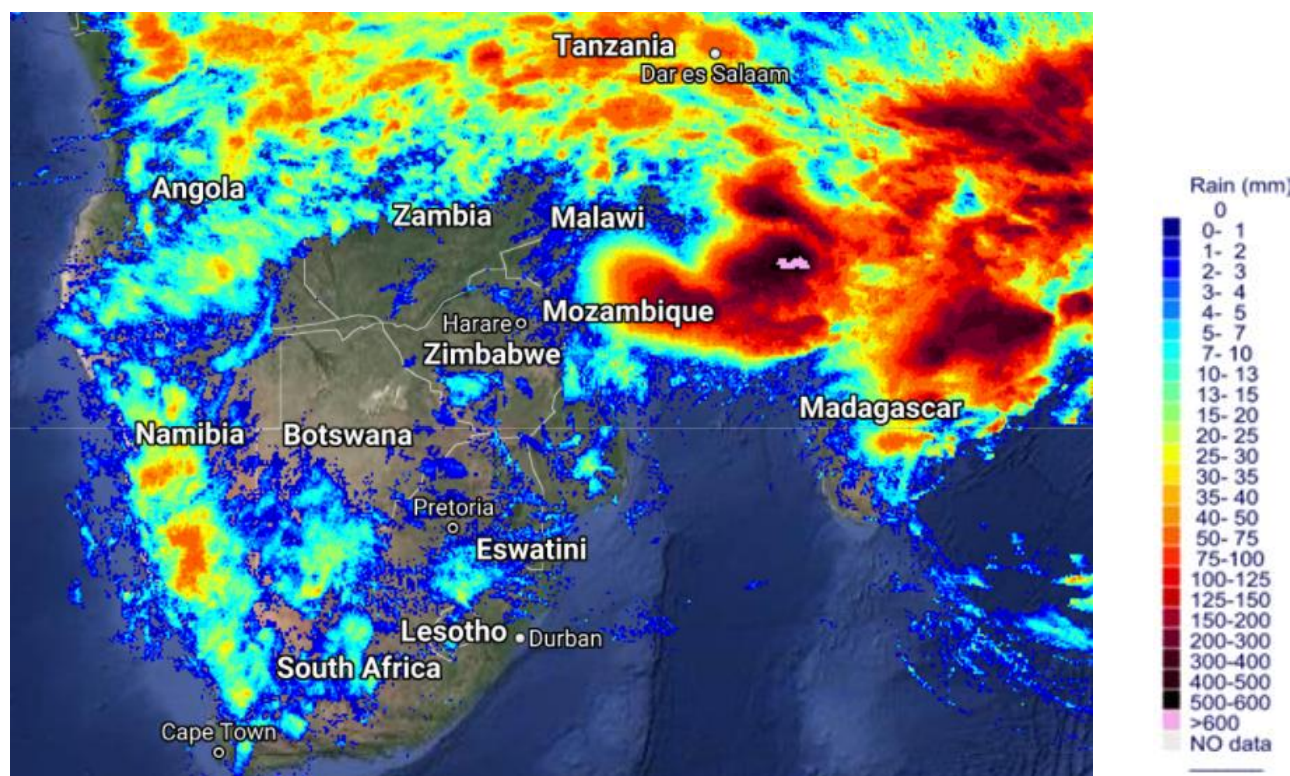
Private Bag 13184, Ministry of Agriculture, Water and Land Reform, Government Office Park, Namibia

Rainfall

Satellite images over the past weekend indicate heavy rainfall over the west-central and southwestern parts of Namibia.

CHRS iRain-rainfall accumulation for the past 72 hours preceding 08h00 on 24.01.2022

<http://irain.eng.uci.edu/>



Enquiries: Ms. Pauline Mufeti, Tel: (+264) 208 7191, Fax: (+264) 208 7256

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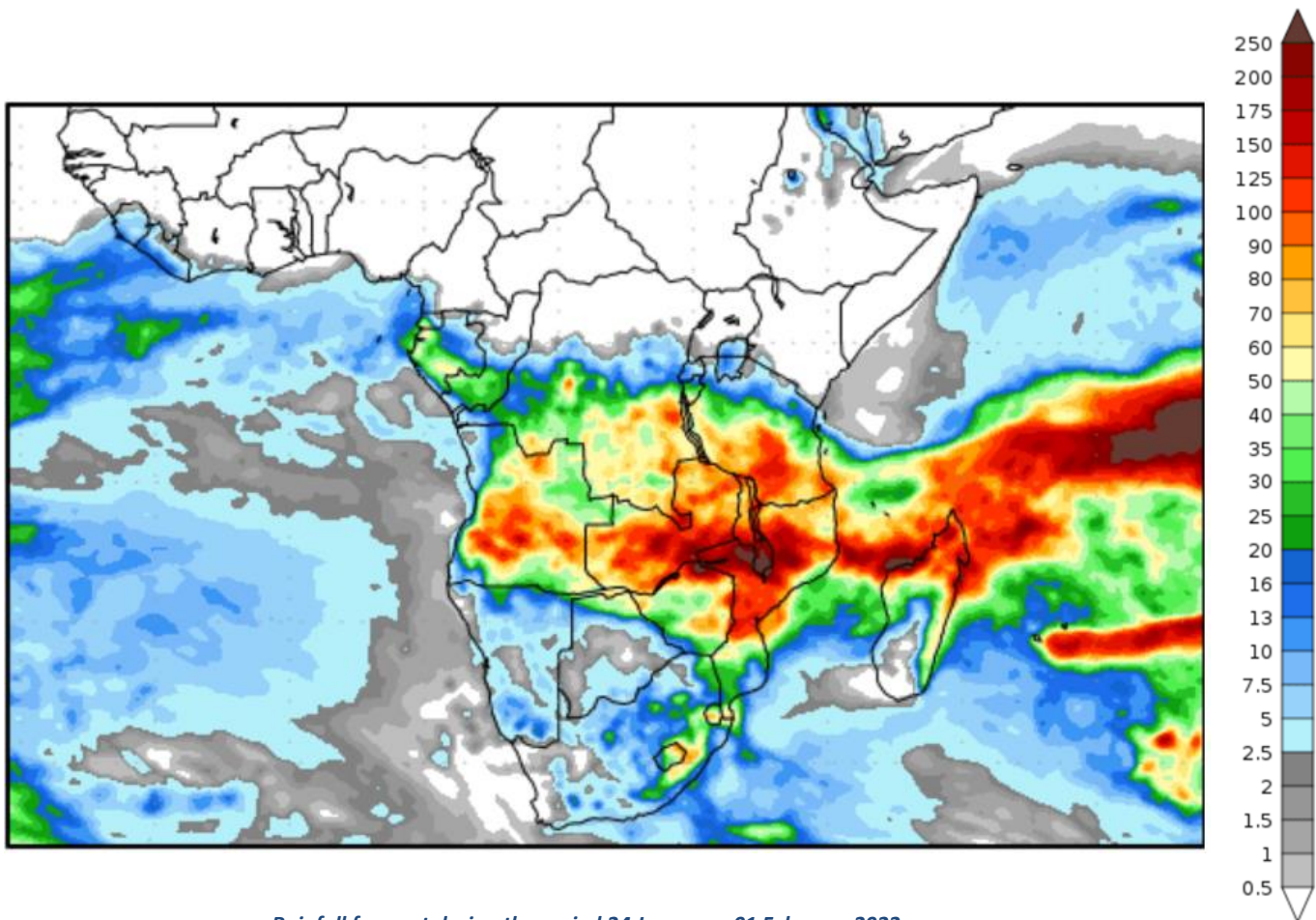
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Observe rainfall forecast from the National Centers for Environmental Prediction from 24 January to 01 February 2022, Outlook for Africa-GDACS/COLA in the figure below.



Rainfall forecast during the period 24 January – 01 February 2022



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River Updates

The country's central, southern and west flowing ephemeral rivers were in floods due to heavy rains in their catchments over the past weekend.

The Kuiseb River at Gobabeb peaked at 2.1 m on the 22nd January 2022 at 13h00. Information courtesy of Eugene Marais, Research Manager at Gobabeb Namib Research Institute.

The latest update on the Orange Fish system:

It looks like we are going to have a serious flood on the Lower Orange River due to recent heavy rains, releases and spillage from the dams in South Africa such as Bloemhof and Vanderkloof and Namibia's southern dams, such as Naute, Neckartal and Hardap. **Hence close monitoring and a high level of alertness by the communities living in the lower part of the Orange Fish catchment is advised.**

Northern Border Rivers:

The Zambezi and Okavango rivers continue with their gradual rise. However, the water levels for the two rivers are lower compared to the same period last year. The Zambezi River at Katima Mulilo recorded 1.32 m, while the Okavango River at Rundu recorded 4.28 m this morning.

Flows in the Kunene River remains low during this time of the year.

See figures in the table below with today's river level readings from our gauging stations and site informants:

River	Site	Water Levels (m)				
		One week before	Two days before	One day before	Today	Last Year
		17-Jan-22	22-Jan-22	23-Jan-22	24-Jan-22	24-Jan-21
Zambezi	Katima Mulilo (*)	1.13	1.29	1.29	1.32	1.93
Chobe	Chobe Water Villa	1.22	1.32	1.33	1.32	1.37
	Ngoma Gate	-	-	-	-	-
Kwando	Kongola	2.40	2.40	2.38	2.38	2.40
Okavango	Nkurenkuru	1.27	1.26	1.26	1.26	1.68
	Rundu (*)	4.05	4.18	4.24	4.28	4.35
	Divundu	2.99	3.09	3.14	-	3.10
Kuseib	Gobabeb	-	1.80	1.90	0.30	-
	Schlesien	-	-	-	-	-
Gaub	Greylingshof	-	-	-	-	-
Fish/Orange	Seeheim	-	-	-	-	-
	Tses	-	-	-	-	-
	Ai-Ais	-	-	-	-	-
	Blouputs (#)	2.88	-	-	4.12	1.83
	Sendelingsdrift (#)	3.67	-	-	3.78	-
Cuvelai	Shanalumono	-	-	-	-	-
	Endola	-	-	-	-	-
	Shahaingu	-	-	-	-	-
	Shanaimbwengedje	-	-	-	-	-
Kunene	Ruacana Flows (m ³ /s) (=)	56.90	59.60	62.30	58.10	72.10

(-) no reading/ station down/negative reading

(*) information by courtesy NamWater

(=) information by courtesy NamPower

(#) information by courtesy DWS- South Africa



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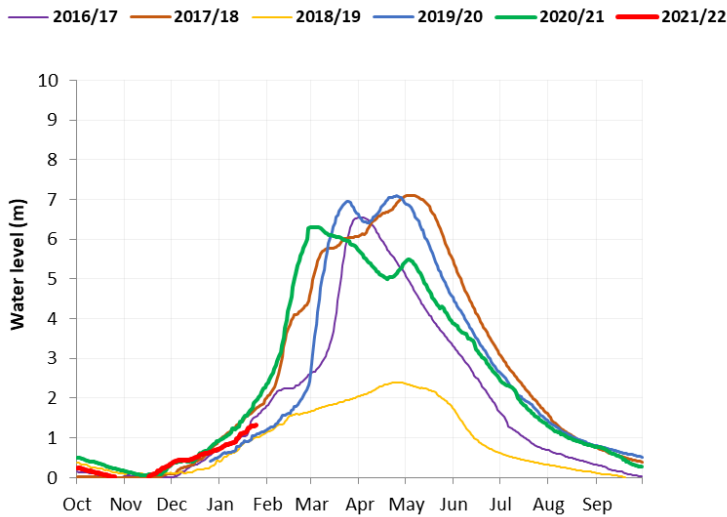
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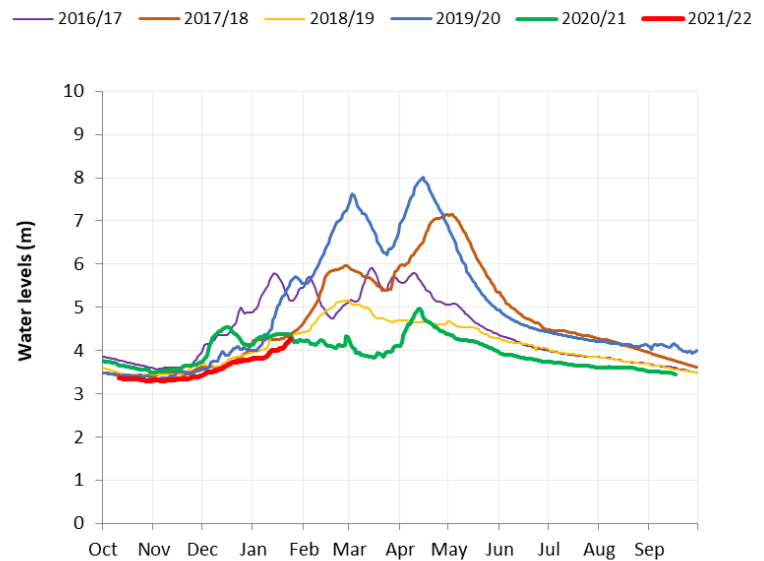
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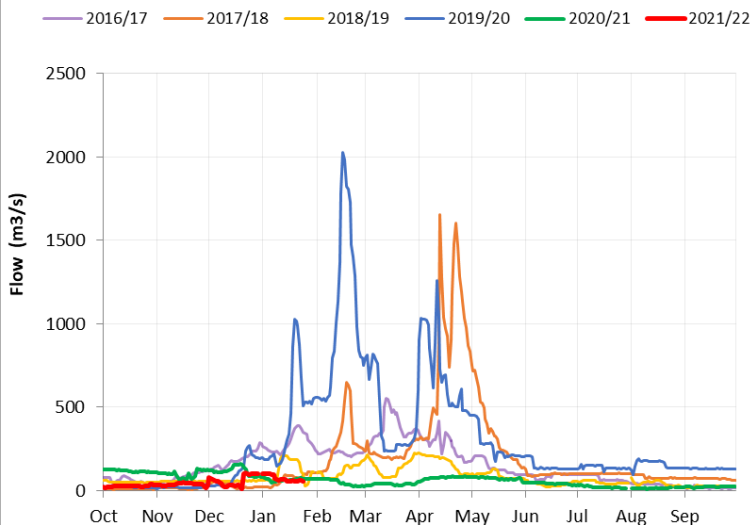
Zambezi River at Katima Mulilo



Okavango River at Rundu



Kunene River at Ruacana



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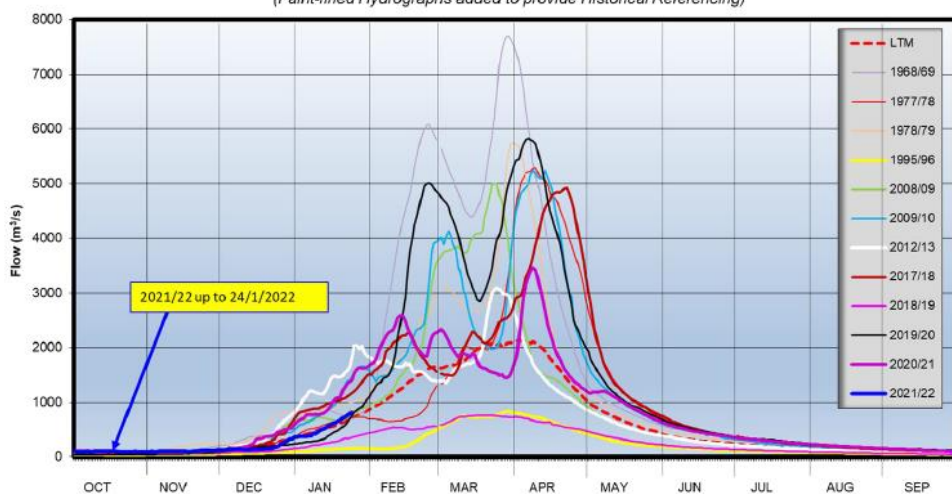
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Zambezi River Daily Flow Hydrographs

CHAVUMA MISSION STATION

(Faint-lined Hydrographs added to provide Historical Referencing)

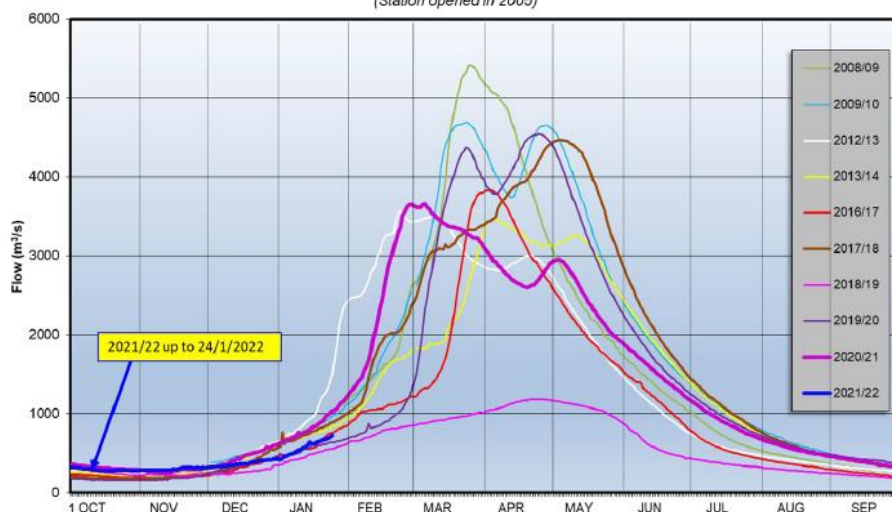


Courtesy of Zambezi River Authority - Daily Hydrological Bulletin (24/01/2022)

Zambezi River Daily Flow Hydrographs

NGONYE RAPIDS (Sioma Falls) STATION

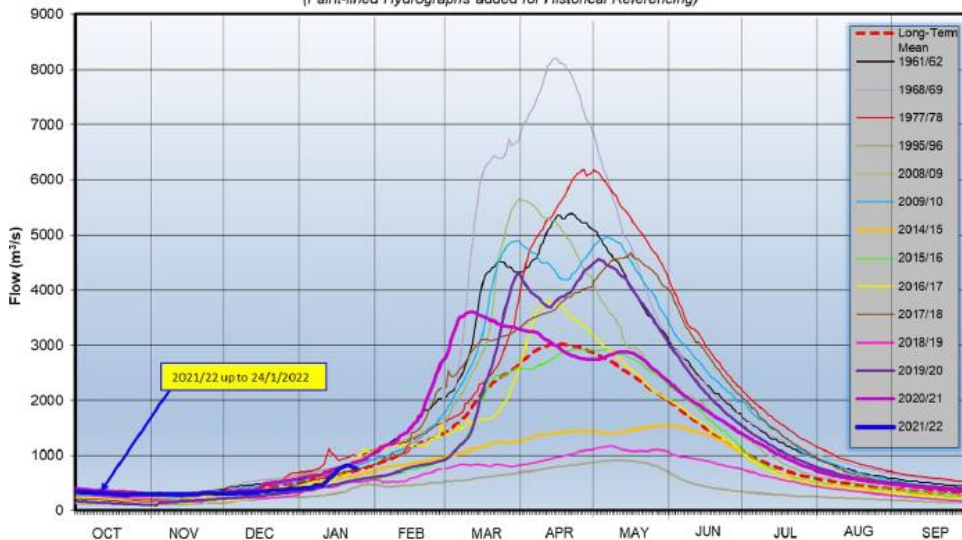
(Station opened in 2005)



Zambezi River Daily Flow Hydrographs

VICTORIA FALLS/BIG TREE STATION

(Faint-lined Hydrographs added for Historical Referencing)



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Dam Levels

The country's major dams received significant inflow due to heavy rains and floods in their catchment areas over the past few weeks. The total content of the major water supply dams in the southern part of the country is relatively high and currently **stands at 91%. Dam operators are advised to upscale flood control management for flood risk mitigation and early warning to communities living downstream.**

The total content of the country major water supply dams stood at 82.4 % this morning.

Comparison of the total dam content for the two previous rainy seasons:

Date	Total Dam Content %
24 January 2022	82.4
25 January 2021	87.9
20 January 2020	20.4

Neckartal Dam volume stood at 863.6 Mm³ this morning, which is equivalent to 100.72 % of its capacity and started spilling today, partly due to releases from Hardap Dam.

Namwater made releases at Naute and Hardap dams over the weekend.

Naute dam's content stood at 101.8% this morning.

Hardap Dam stood at 71.3 % this afternoon.



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See the latest dam levels provided in the table below, information courtesy of Namwater.

Name of Reservoir	Full Supply Capacity (Mm ³)	Last Season 25/01/2021 (% Full Capacity)	Last week 17/01/2022 (% Full Capacity)	This week on 24/01/2022 (% Full Capacity)
Swakoppoort Dam	63.489	100.4	74.9	79.3
Von Bach Dam	47.525	89.1	46.5	46.7
Omatako Dam	43.499	86.8	39.4	39.1
Friedenau Dam	6.723	100.5	76.7	87.4
Otjivero Main Dam	9.808	53.5	41.0	41.2
Otjivero Silt Dam	7.795	25.2		4.1
Tilda Viljoen Dam	1.224	84.1	44.3	43.4
Daan Viljoen Dam	0.429	92.2	49.4	48.0
Hardap Dam	294.593	71.3	47.7	71.3
Neckartal Dam	857.000	100.3	92.5	100.7
Naute Dam	83.58	97.4	104.5	101.8
Oanob Dam	34.505	101.5	74.8	76.6
Dreihuk Dam	15.493	47.6	17.8	18.1
Bondels Dam	1.103	54.1	0.0	4.7
Olushandja Dam	45.641	17.3	15.0	15.0
Omatjenne Dam	5.063	3.2	0.0	0.0



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