

HYDROLOGICAL SERVICES NAMIBIA

DAILY FLOOD BULLETIN

23 February 2022

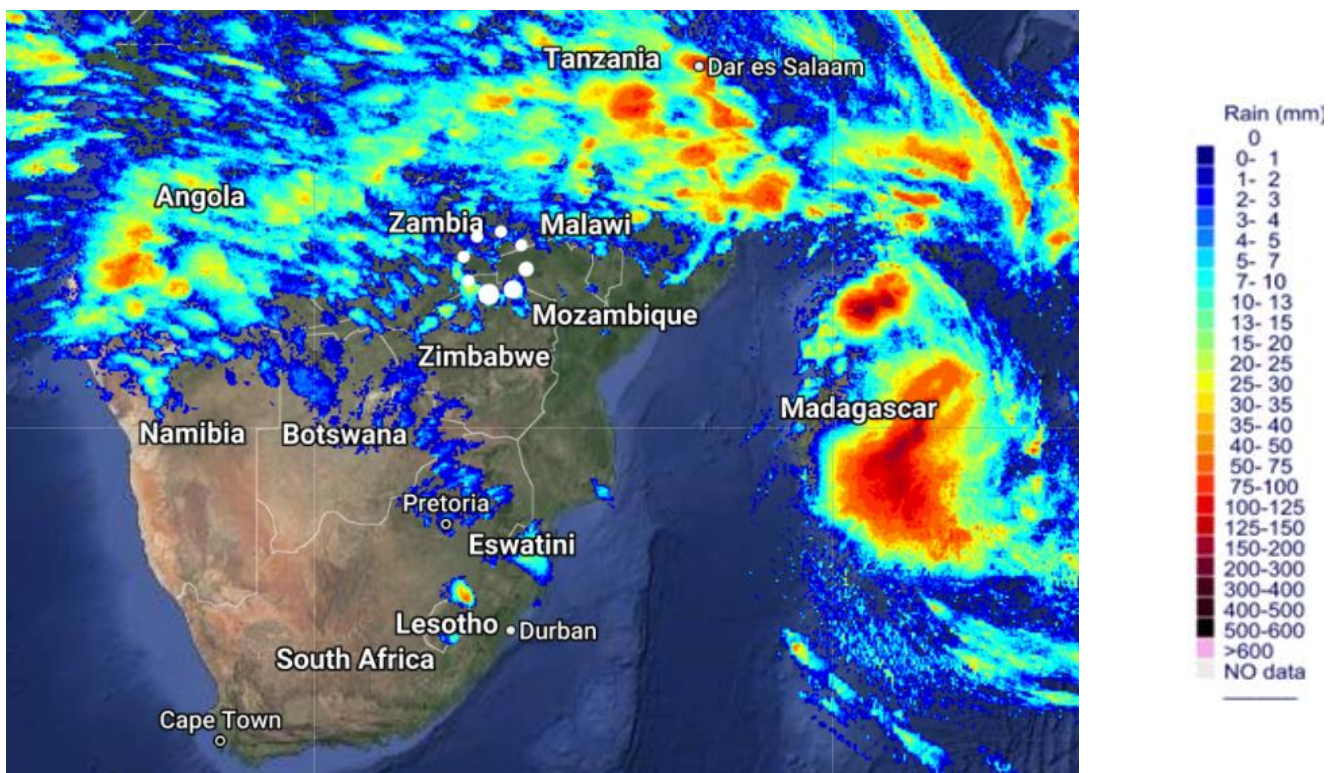
Private Bag 13184, Ministry of Agriculture, Water and Land Reform, Government Office Park, Namibia

Rainfall

Satellite images over the past 24 hours isolated rains over the northwestern and north-central areas of Namibia.

CHRS iRain-rainfall accumulation for the past 24 hours preceding 08h00 on 23.02.2022

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



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

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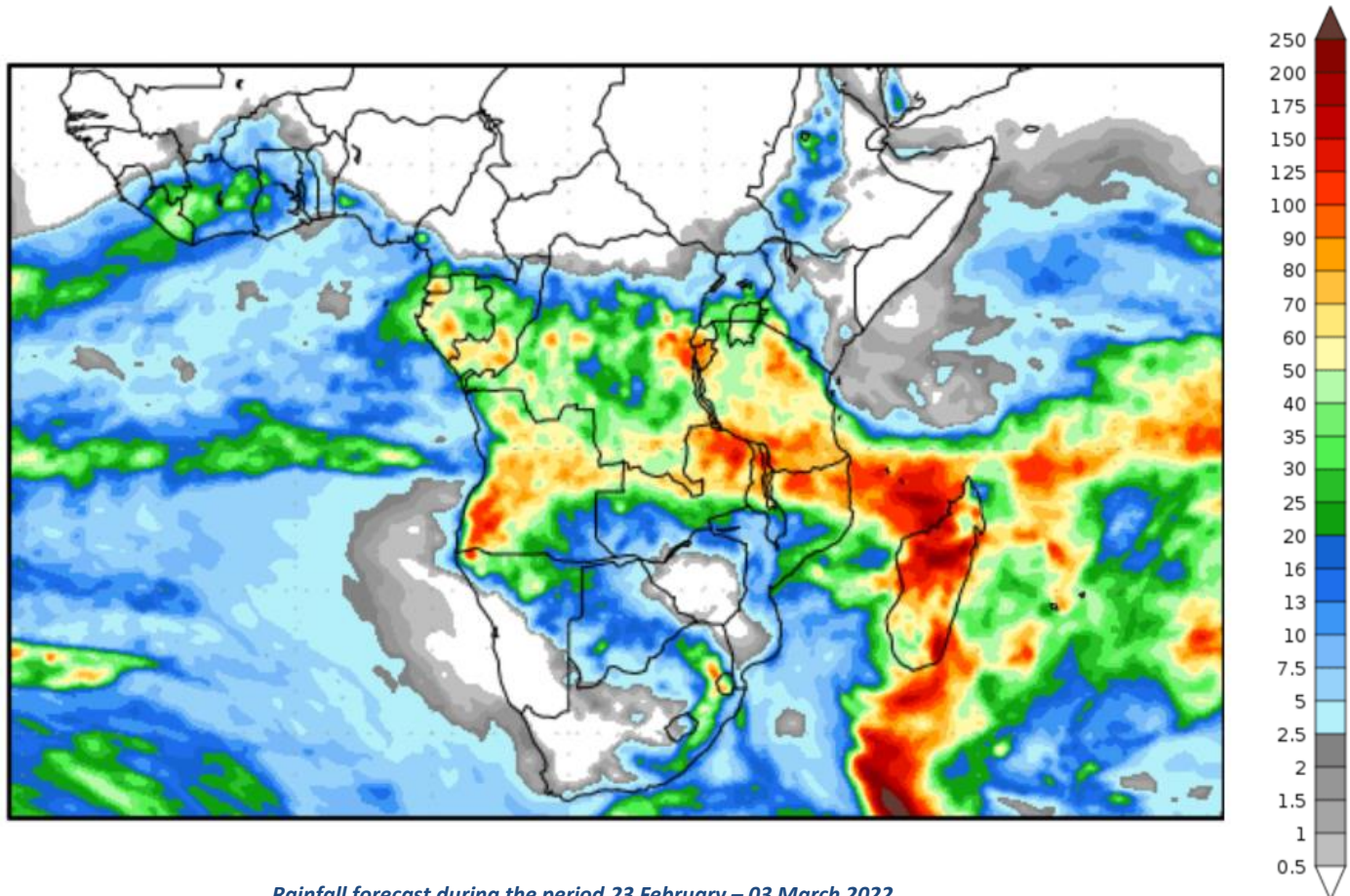
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Observe rainfall forecast in the figure below from the National Centers for Environmental Prediction, Outlook for Africa-GrADS/COLA, 23 February – 03 March 2022.



Rainfall forecast during the period 23 February – 03 March 2022



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River Updates

Flows were observed and reported in some of the country's west, northwest and south flowing rivers due to persistent rains received in their catchment areas over the past few weeks.

West Flowing Rivers:

The Kuiseb River recorded 0.40 m at Gobabeb Research Station yesterday morning.

The Orange - Fish River:

The Fish River at Seeheim recorded 0.76 m yesterday morning; Tses recorded approximately 0.62 m on 21 February 2022; Ai-Ais recorded 1.32 m this afternoon at 14h25.

The Orange River at Sendelingsdrift recorded 2.53 m yesterday afternoon; the water level at Blouputs further dropped to 2.05 m this morning.



Orange River at Sendelingsdrift at 13h30, 22 February 2022 - Picture taken by Mr Alfeus Moses – NHS Field Team

Northern Border Rivers:

Zambezi River at Katima Mulilo continues with its steady rise, and the water level recorded this morning was 2.51 m and above normal.

Okavango River at Rundu rose to 5.29 m this morning, and the water level is relatively higher compared to the same period last year.

Kunene River level is very low and was flowing at 46.8 m³/s this morning.



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Flood contingency plans for flood prone areas, such as the Kuiseb Catchment, Omaruru Catchment, Eastern Zambezi Floodplains, close to the banks of the Okavango River, Cuvelai System, Lower Orange, Town of Mariental and Kunene River are advised to be activated.

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	One day before	Today	Last Year	Normal for
		16-Feb-22	22-Feb-22	23-Feb-22	23-Feb-21	23-Feb
Zambezi	Katima Mulilo (*)	2.31	2.49	2.51	5.69	2.49
Chobe	Chobe Water Villa	-	-	-	3.80	-
	Ngoma Gate	-	-	-	1.09	-
Kwando	Kongola	2.48	2.45	2.47	2.27	-
Okavango	Nkurenkuru	-	-	-	1.58	-
	Rundu (*)	5.00	5.27	5.29	4.12	-
	Divundu	-	-	-	3.03	-
Kuiseb	Gobabeb	1.10	0.40	-	-	-
	Schlesien	-	-	-	-	-
Gaub	Greytingshof	-	-	-	-	-
Fish/Orange	Seeheim	-	0.76	-	-	-
	Tses	-	-	-	-	-
	Ai-Ais	-	-	1.32	-	-
	Blouputs (#)	2.86	2.19	2.05	-	-
	Sendelingsdrift	-	2.53	-	-	-
Cuvelai	Shanalumono	-	-	-	-	-
	Endola	-	-	-	-	-
	Shahaingu	-	-	-	-	-
	Shanaimbwengedje	-	-	-	-	-
Kunene	Ruacana Flows (m ³ /s) (=)	48.90	47.00	46.80	28.60	-

(-) no reading/ station down/negative reading

(*) information by courtesy NamWater

(=) information by courtesy

NamPower (#) information by courtesy DWS- South Africa



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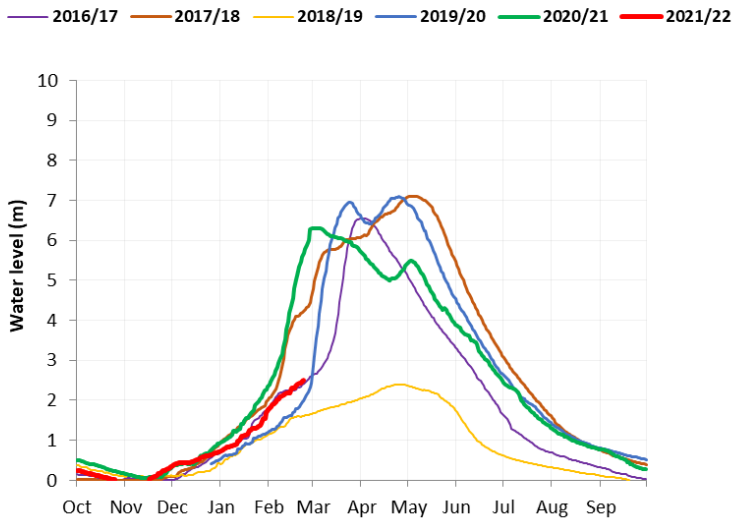
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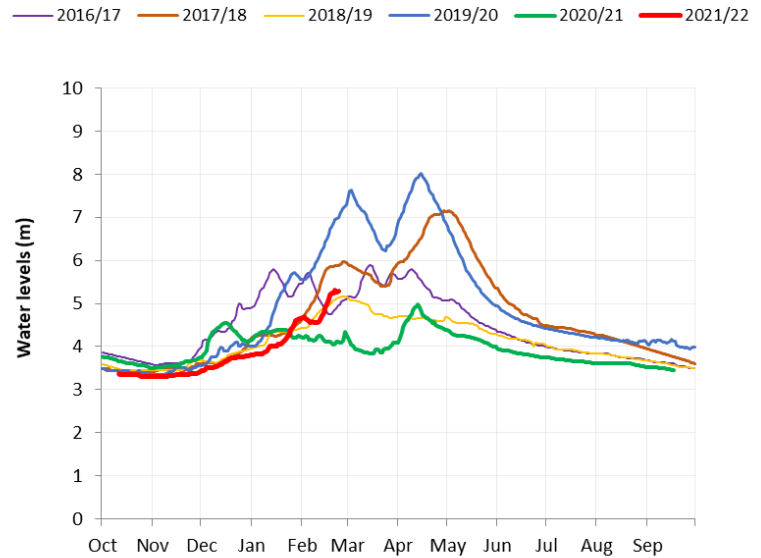
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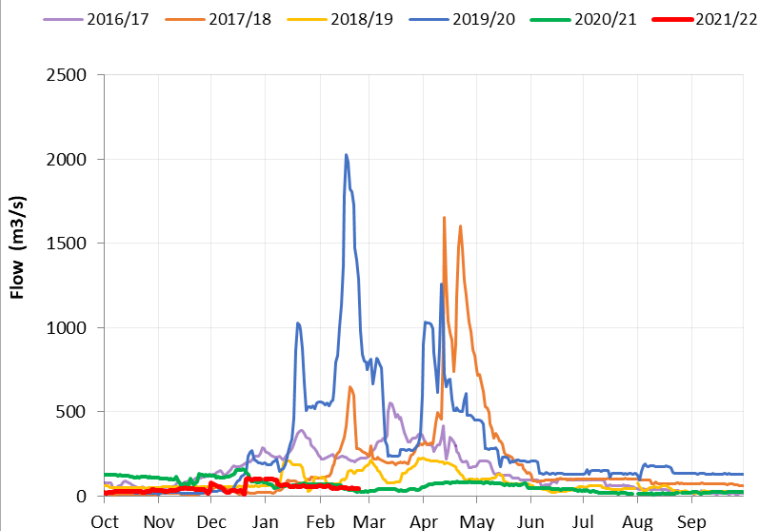
Zambezi River at Katima Mulilo



Okavango River at Rundu



Kunene River at Ruacana



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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 stood at 93.8% on 21 February 2022. **Dam operators are advised to upscale flood control management for flood risk mitigation and issue timely early warnings to communities living downstream.**

The total content of the country's major water supply dams stood at 85.9 % on 21 February 2022.

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

Date	Total Dam Content %
21 February 2022	85.9
22 February 2021	88.4
24 February 2020	35.0

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

Name of Reservoir	Name of River	Full Supply Capacity (Mm ³)	Last Season 22/02/2021 (% Full Capacity)	Last week 14/02/2022 (% Full Capacity)	This week on 21/02/2022 (% Full Capacity)
Swakoppoort Dam	Swakop	63.489	99.6	90.0	98.1
Von Bach Dam	Swakop	47.525	87.1	50.7	52.9
Omatako Dam	Omatako	43.499	100.3	41.5	41.1
Friedenau Dam	Kuiseb	6.723	99.6	92.8	95.7
Otjivero Main Dam	White Nossob	9.808	59.1	40.8	40.1
Otjivero Silt Dam	White Nossob	7.795	14.8	4.1	4.1
Tilda Viljoen Dam	Pump Storage	1.224	80.4	41.9	41.0
Daan Viljoen Dam	Black Nossob	0.429	100.0	61.3	60.2
Hardap Dam	Fish	294.593	73.5	69.5	73.0
Neckartal Dam	Fish	857.000	100.0	102.0	101.4
Naute Dam	Loewen	83.58	103.4	103.8	108.0
Oanob Dam	Oanob	34.505	100.3	78.3	86.0
Dreihuk Dam	Hom	15.493	44.4	16.7	16.4
Bondels Dam	Satco	1.103	46.6	4.5	4.3.4
Olushandja Dam	Pump storage dam from Calueque	45.641	15.0	14.6	14.6
Omatjenne Dam	Omatjenne	5.063	0.9	0.0	0.0



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