

ADAM

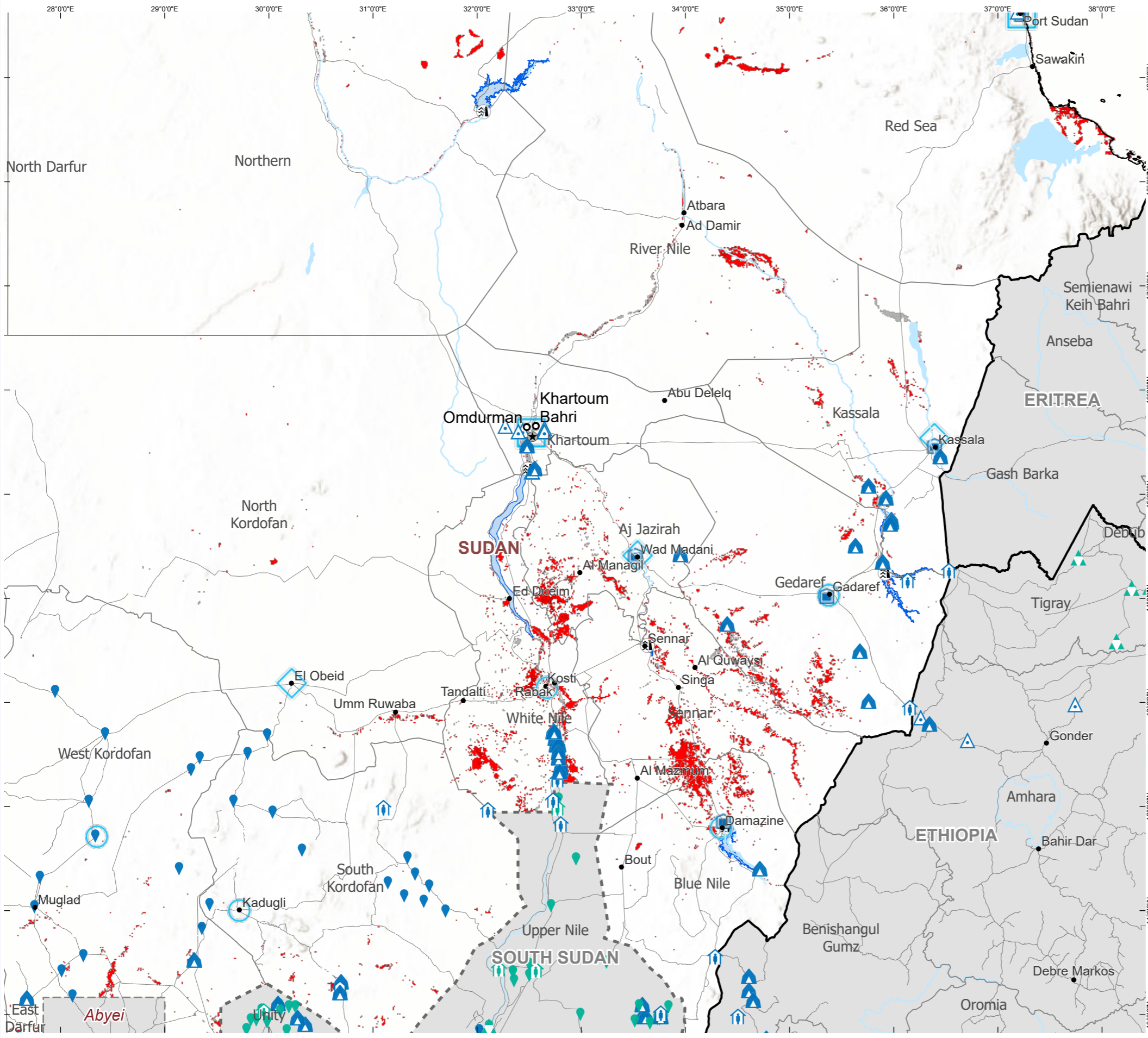
Advanced Disaster Analysis & Mapping

Flood Impact Analysis Sudan

Update #2

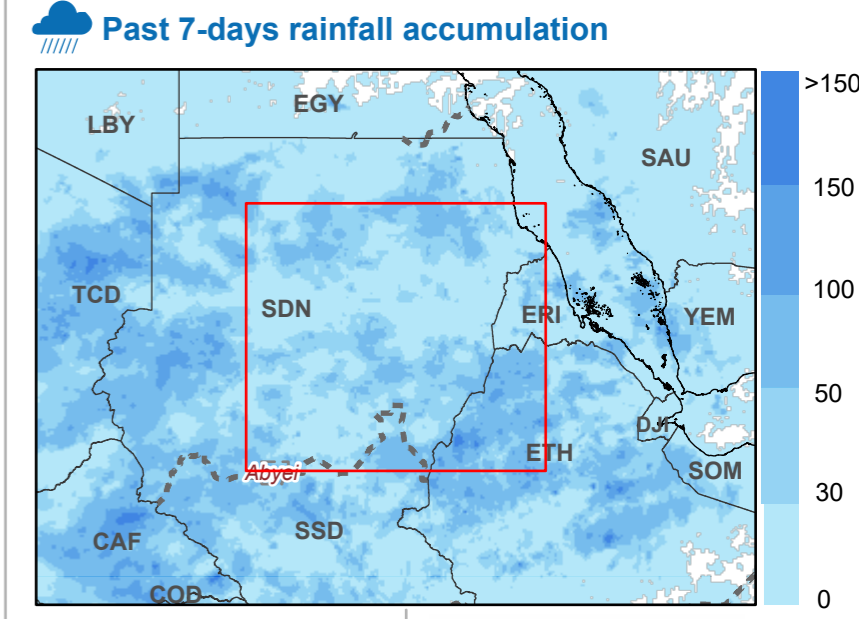
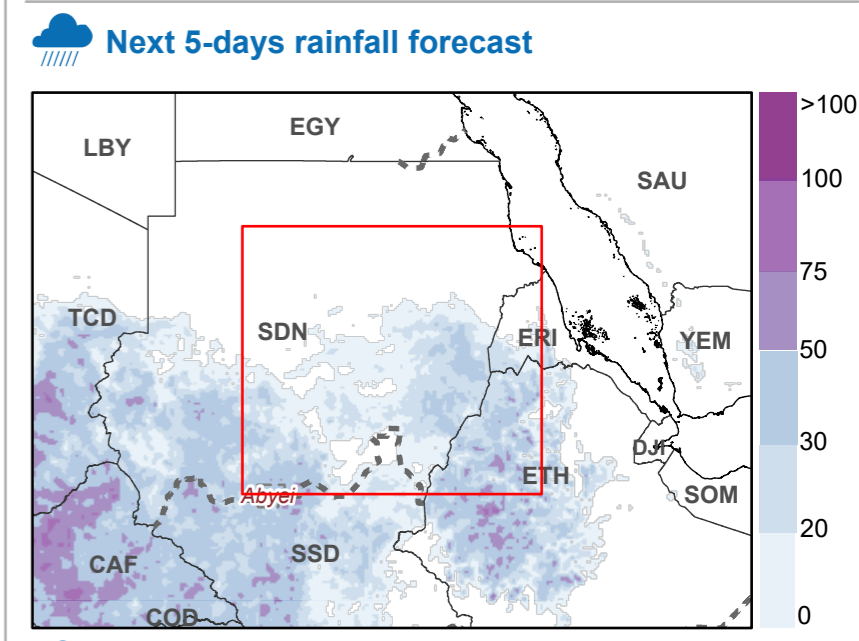
Maximum Flood Extent
02 September 2024





Rapid Flood Impact Summary

1,977,922 Total observed flooded or inundated area (hectares)	943,026 Total number of people living in the flooded pixel
1,039,536 Total flooded cropland areas	326,645 Total number of vulnerable population in the flooded area



<ul style="list-style-type: none"> Country Office Field Office Sub Office Warehouse National Capital Major City City 	<ul style="list-style-type: none"> River Road International Boundary Administrative Boundary 1 Special boundary line; Armistice, undetermined or administrative line; Autonomous region boundary; Other; Sovereign base limit Permanent Water Bodies Dam / Reservoir 	<p>*Satellite Observed Water Extent</p> <ul style="list-style-type: none"> Observed Flooded Area Historical Maximum Flood Extent MODIS 2000 - 2018 Source: DFO and Cloud2Street <p>*Data displays the maximum combined NOAA VIIRS and Floodscan flood extent detection on the date specified on the map</p>	<p>Population of Concern (UNHCR)</p> <ul style="list-style-type: none"> Refugee, formal settlement Refugee, informal settlement Refugee, spontaneous location Refugee, centre Refugee, collective centre Refugee, individual accommodation in communities Refugee, unknown IDP, formal settlement IDP, informal settlement IDP, spontaneous location IDP, centre IDP, collective centre IDP, individual accommodation in communities IDP, unknown
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Advanced Disaster Analysis and Mapping

FloodList
Atmospheric and Environmental Research

Joint Research Centre
European Commission

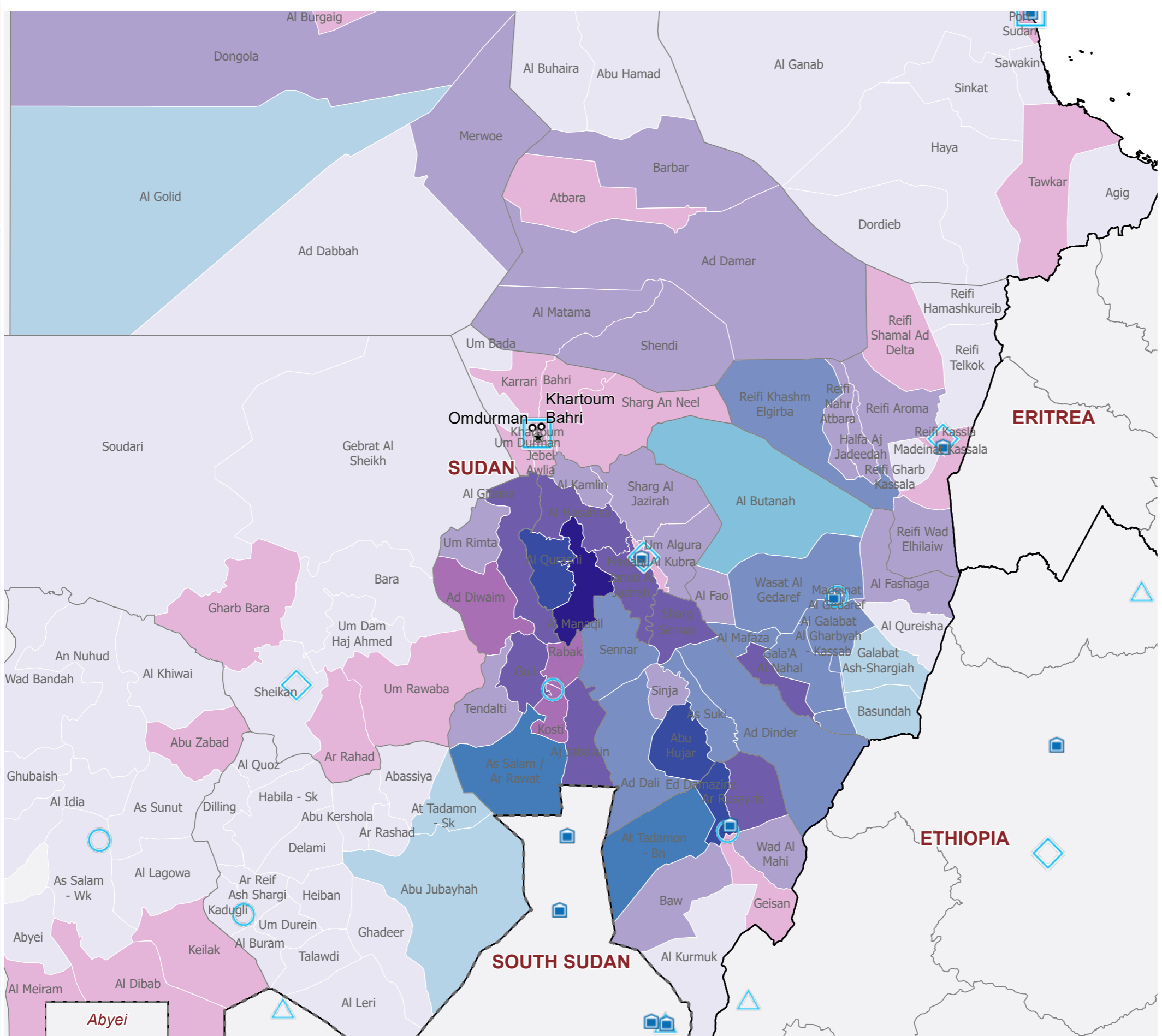
The designations employed and the presentation of material in the map(s) do not imply the expression of any opinion on the part of WFP concerning the legal or constitutional status of any country, territory, city or sea, or concerning the delimitation of its frontiers or boundaries.

Data sources: WFP offices: WFP - Boundaries: UN Map, WFP - Roads: ©OpenStreetMap Contributors - Populated places: GeoNames - Accumulated rainfall: GPM - Weather forecast: ECMWF - Flood Detection: NOAA-VIIRS, MODIS NRT, ESA Sentinel 1 - IDP/Refugee Locations: UNHCR - Terrain: ESRI - Surface Water/Seasonality: JRC - Cropland Mask: NASA GFSAD30 - Population: WorldPop / GHSL - Maximum Flood Extent: NASA MODIS/DFO and C2S

Date Created: 02 Sep 2024 - Contact: wfp.adam@wfp.org

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Prepared by: HQ GIS Unit, WFP Emergencies



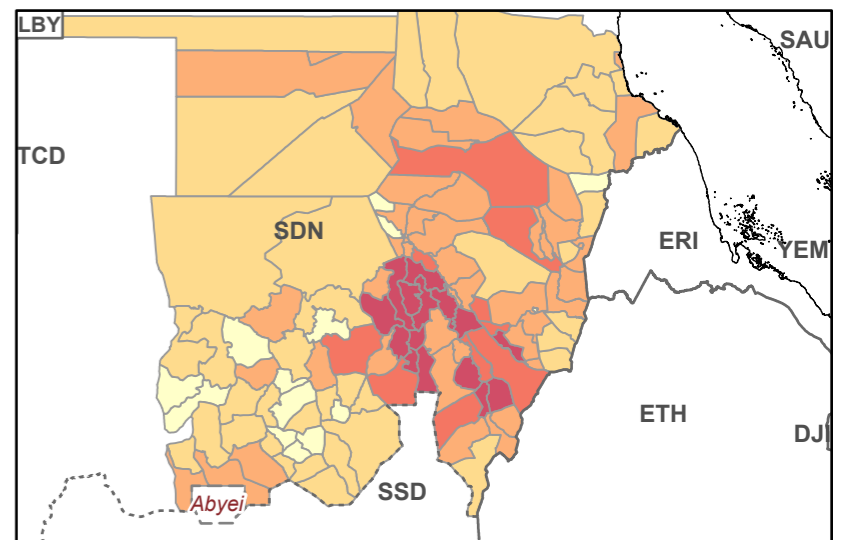
Flood Impact Data Aggregation

Derived data are summarized by administrative unit II (admin2). For any boundary related concerns, please write to wfp.adam@wfp.org. This aggregated information is indicative and for planning purposes only.

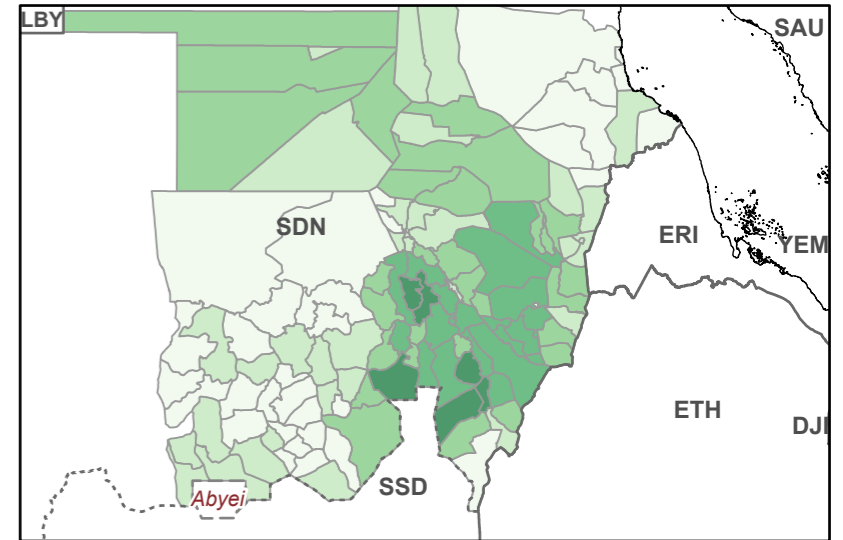
Global Data Sources:
Population - WorldPop 2022
Cropland Areas - NASA GFSAD30



Estimated population living within the flooded area (Admin Unit II)



Estimated crop lands within the flooded area (Admin Unit II)



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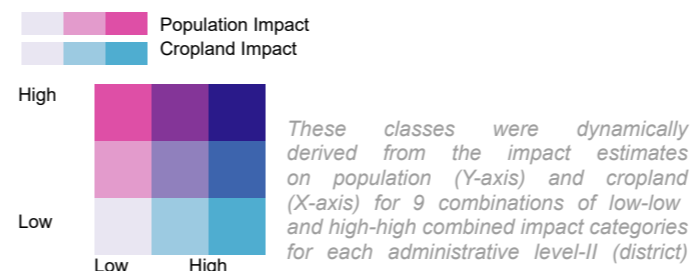
Advanced Disaster Analysis and Mapping

- Country Office
- Field Office
- Sub Office
- Warehouse
- National Capital
- Major City
- City

- International Boundary
- Administrative Boundary 1
- Special boundary line; Armistice, undetermined or administrative line; Autonomous region boundary; Other; Sovereign base limit

Potentially impacted population	Estimated flooded cropland (has)
0 - 1K	0 - 1K
1K - 10K	1K - 10K
10K - 20K	10K - 50K
20K - 50K	50K - 100K
>50K	>100K

Bi-variate color classification (Main Map Frame)



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Date Created: 02 Sep 2024 - Contact: hq.gis@wfp.org
Map Reference: ADAM_Floods_v4

Sudan Flooding

Rapid Flood Impact Analysis Breakdown

**estimated number of people living in the flooded areas with at least 100 people potentially affected per district. Vulnerable population within flooded area are estimates from WorldPop data.*

(Admin unit 1) Region	(Admin unit 2) District	Flooded Area (hectares)	Flooded Cropland (hectares)	Potentially Impacted Population*			
				Total in District	Children (0-9 y.o.)	Elderly (>60 y.o.)	
Aj Jazirah	Al Hasahisa	17,715	15,476	29,186	1,981	7,298	
	Al Kamlin	5,431	5,632	12,441	827	3,014	
	Al Manaqil	86,318	78,388	100,333	6,258	28,642	
	Al Qurashi	68,239	62,741	80,277	5,007	22,918	
	Janub Al Jazirah	25,376	24,896	31,406	2,334	7,477	
	Medani Al Kubra	816	676	8,680	573	1,874	
	Sharg Al Jazirah	1,416	1,185	3,475	238	973	
	Um Algura	3,628	2,317	2,922	158	869	
	Blue Nile	Al Kurmuk	1,364	0	113	5	40
		Ar Rusayris	82,565	39,367	36,580	1,678	12,413
At Tadamon - Bn		107,906	96,023	12,538	685	3,916	
Baw		4,944	2,344	1,188	69	426	
Ed Damazine		86,026	62,532	67,869	3,413	20,405	
Geisan		2,127	303	2,664	148	920	
Wad Al Mahi		9,478	2,214	2,991	137	1,015	
Gedaref		Al Butanah	29,587	20,813	716	24	252
		Al Fao	9,680	8,787	10,714	552	3,204
		Al Fashaga	10,846	8,075	5,667	317	1,771
	Al Galabat Al Gharbyah - Kassab	13,918	11,115	1,734	120	533	
	Al Mafaza	19,687	16,395	11,562	620	4,136	
	Ar Rahad	52,545	39,221	28,804	1,545	10,304	
	Basundah	3,563	1,515	310	18	108	
	Gala'A Al Nahal	52,113	47,426	7,749	553	2,533	
Galabat Ash-Shargiah	3,555	3,426	468	27	163		
Wasat Al Gedaref	23,634	23,621	1,263	77	357		

Kassala	Halfa Aj Jadeedah	2,773	2,596	4,589	298	1,101
	Madeinat Kassala	164	28	2,557	169	578
	Reifi Aroma	10,061	6,499	3,181	156	903
	Reifi Gharb Kassala	191	21	542	24	164
	Reifi Kassla	1,441	453	2,345	119	542
	Reifi Khashm Elgirba	34,702	17,849	11,201	612	2,929
	Reifi Nahr Atbara	4,505	1,904	2,739	177	756
	Reifi Shamal Ad Delta	19,082	688	5,716	245	1,376
	Reifi Wad Elhilaiw	3,344	1,246	2,753	161	858
Khartoum	Bahri	182	114	1,101	67	233
	Jebel Awlia	121	125	4,071	199	934
	Karrari	154	201	2,572	147	571
	Khartoum	50	133	7,828	541	1,314
	Sharg An Neel	496	179	1,235	66	291
	Um Durman	162	230	2,882	191	598
North Kordofan	Ar Rahad	9,215	166	6,407	418	2,104
	Gebirat Al Sheikh	5,444	0	246	13	77
	Gharb Bara	5,524	0	1,188	82	395
	Sheikan	953	41	433	27	119
	Soudari	5,305	0	393	26	117
	Um Rawaba	20,475	962	14,793	966	4,862
	Ad Dabbah	1,771	713	654	48	158
Northern	Al Burgaig	699	699	2,107	171	400
	Al Golid	2,061	1,122	382	30	78
	Delgo	4,383	1,283	861	89	182
	Dongola	32,900	3,454	3,770	270	852
	Merwoe	13,970	3,908	4,010	353	891
	Al Ganab	61,017	0	921	28	232
Red Sea	Dordieb	1,516	0	225	8	50
	Haya	710	0	103	4	23
	Port Sudan	26	0	1,109	62	222
River Nile	Tawkar	23,814	155	9,065	325	2,837
	Abu Hamad	4,606	728	544	37	130

	Ad Damar	82,913	7,930	10,863	695	2,867
	Al Buhaira	872	57	163	11	39
	Al Matama	1,800	2,449	3,157	267	742
	Atbara	413	422	1,735	136	357
	Barbar	5,797	1,467	2,358	223	510
	Shendi	2,797	2,042	2,238	166	513
Sennar	Abu Hujar	158,799	105,692	49,650	3,413	13,754
	Ad Dali	50,125	44,299	4,213	248	1,227
	Ad Dinder	105,593	39,058	19,213	972	6,535
	As Suki	17,039	15,547	13,389	763	3,948
	Sennar	17,433	14,904	9,341	588	2,470
	Sharg Sennar	25,180	22,338	26,402	1,773	7,739
	Sinja	10,691	9,522	6,652	435	1,786
South Kordofan	Abu Jubayhah	7,843	2,232	504	26	169
	Al Leri	17,649	17	978	57	331
	At Tadamon - Sk	2,765	2,416	256	13	86
	Ghadeer	10,526	0	440	26	149
	Talawdi	7,250	0	329	19	111
West Kordofan	Abu Zabad	983	115	1,021	63	334
	Abyei	7,314	17	624	28	213
	Al Dibab	48,222	594	5,686	263	1,862
	Al Lagowa	2,796	0	508	30	182
	Al Meiram	8,633	104	1,219	44	357
	An Nuhud	531	137	218	13	70
	As Salam - Wk	3,743	19	438	20	147
	As Sunut	2,420	0	475	28	171
	Keilak	13,792	90	1,510	66	526
White Nile	Ad Diwaim	13,765	7,129	24,032	1,481	6,902
	Aj Jabalain	93,356	26,618	49,306	1,912	14,348
	Al Gitaina	44,115	13,568	20,852	1,290	5,886
	As Salam / Ar Rawat	123,313	60,572	14,789	893	4,608
	Guli	43,036	19,964	49,776	3,114	13,566
	Kosti	17,094	6,905	27,096	1,694	7,386

Rabak
Tendalti
Um Rimta

11,248	6,812	22,563	1,439	6,144
14,934	2,334	4,142	281	1,285
5,203	3,901	2,190	134	585

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