

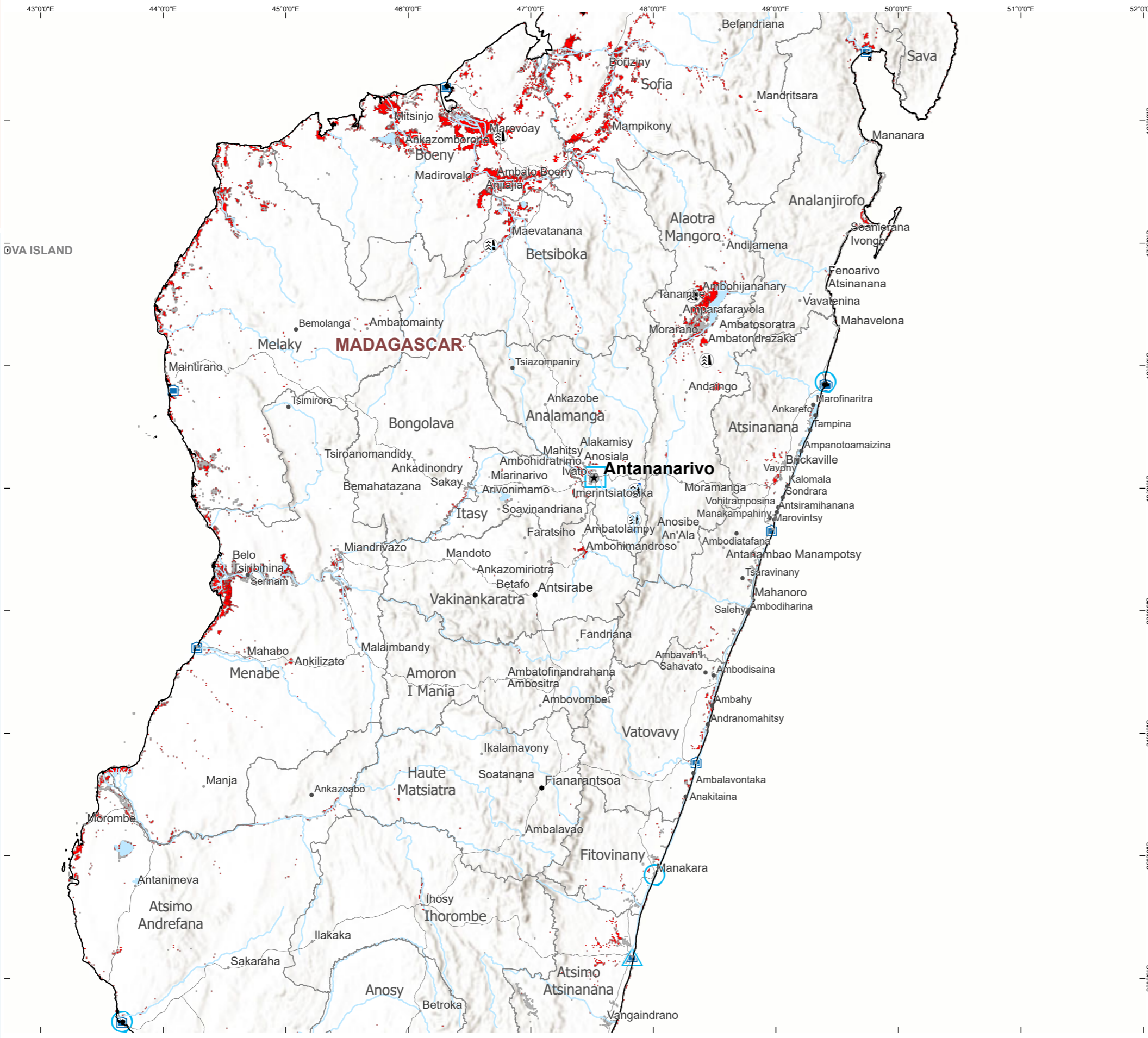
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Advanced Disaster Analysis & Mapping

Flood Impact Analysis Madagascar

19 February 2024





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

***Satellite Observed Water Extent**

- Observed Flooded Area
- Historical Maximum Flood Extent MODIS 2000 - 2018

Source: DFO and Cloud2Street

**Data displays the maximum combined NOAA VIIRS and Floodscan flood extent detection on the date specified on the map*

- Population of Concern (UNHCR)**
- ⦿ Unknown, Unknown
 - ⚙ Unknown, accommodation
 - 📍 Unknown, arrangement (hosted or rental)
 - ⚙ Unknown, planned settlement
 - 🏠 Unknown, centre
 - ⚙ Asylum-seeker, accommodation
 - 📍 Asylum-seeker, spontaneous location
 - ⚙ Asylum-seeker, unplanned settlement

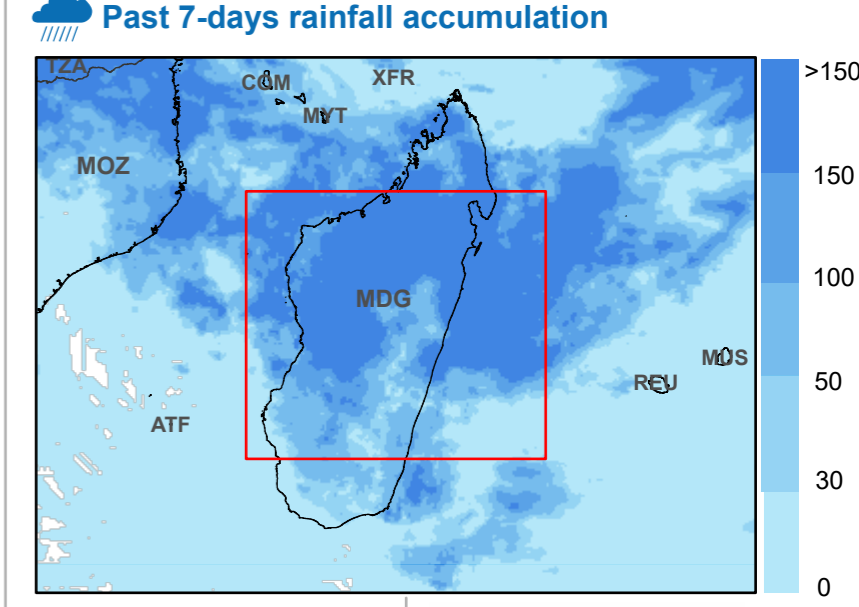
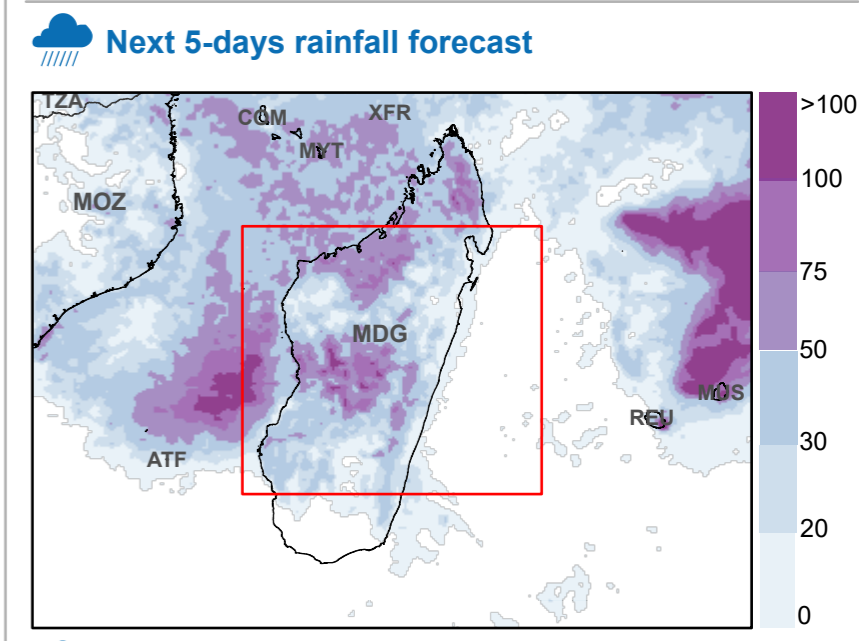
Rapid Flood Impact Summary

457,372
Total observed flooded or inundated area (hectares)

507,888
Total number of people living in the flooded pixel

120,736
Total flooded cropland areas

160,586
Total number of vulnerable population in the flooded area



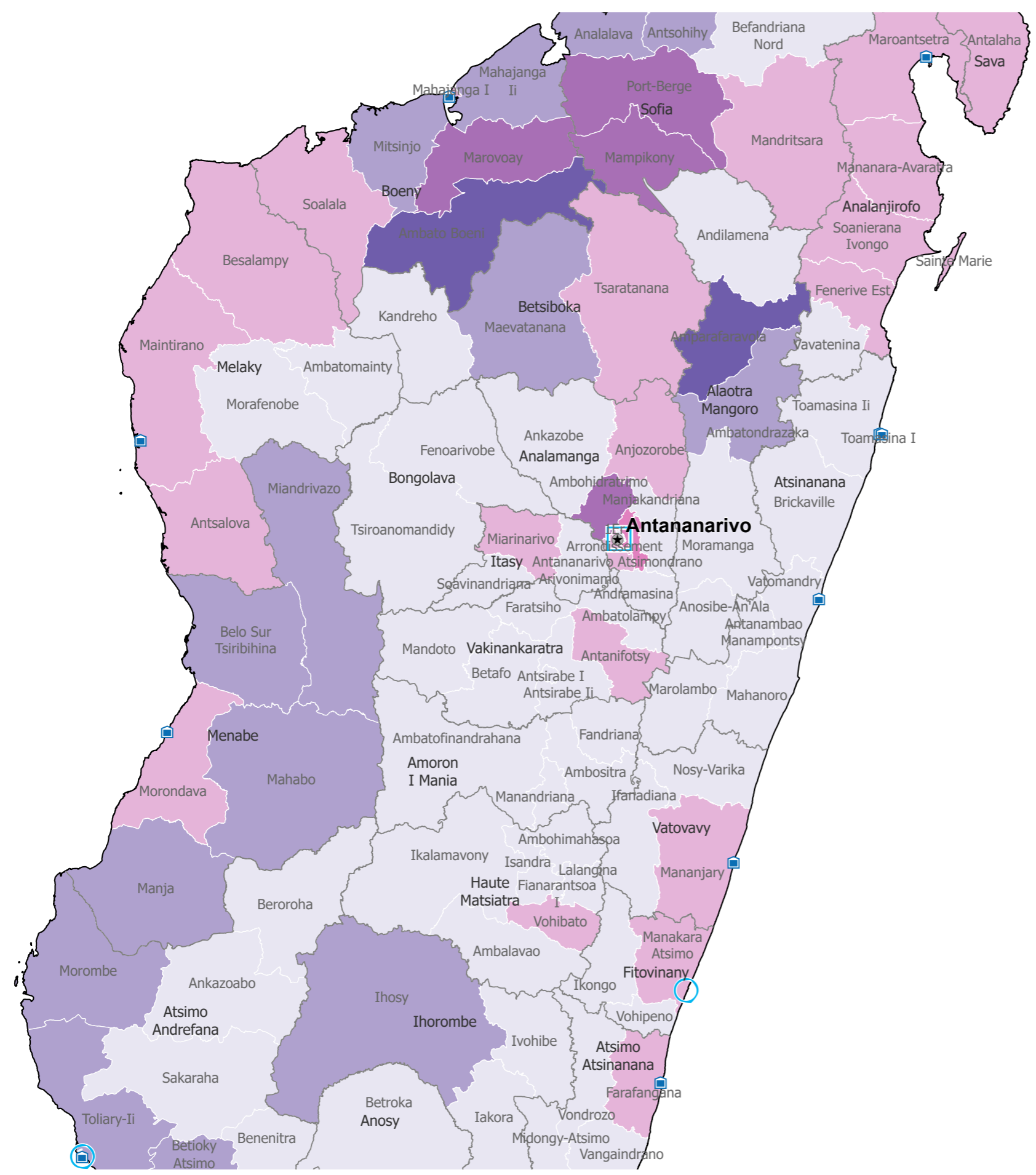
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FloodList

Atmospheric and Environmental Research

European Commission
Joint Research Centre

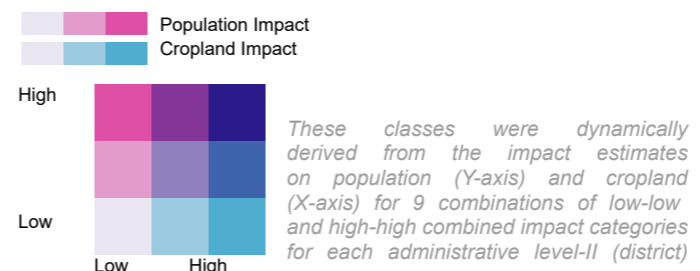


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Potentially impacted population	Estimated flooded cropland (has)
0 - 1K	0 - 1K
1K - 10K	1K - 10K
10K - 20K	10K - 50K
20K - 50K	50K - 100K
>50K	>100K

Bi-variate color classification (Main Map Frame)



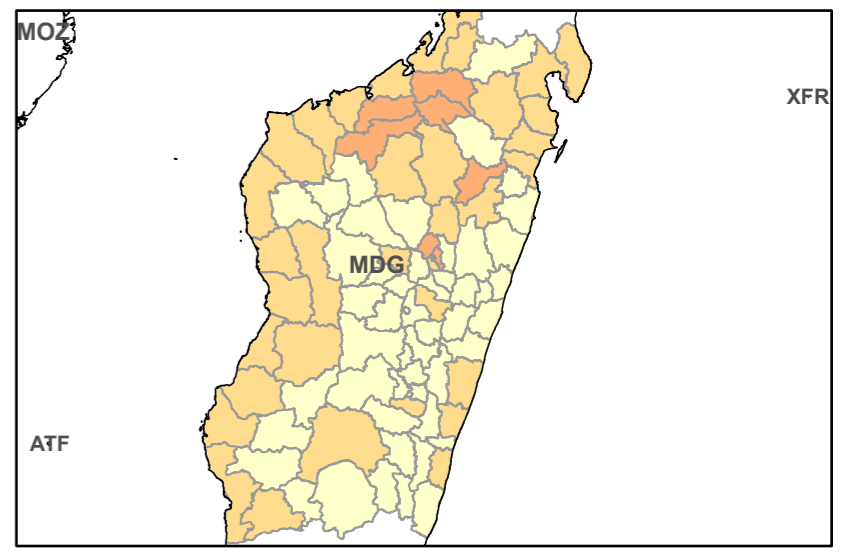
Flood Impact Data Aggregation

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.

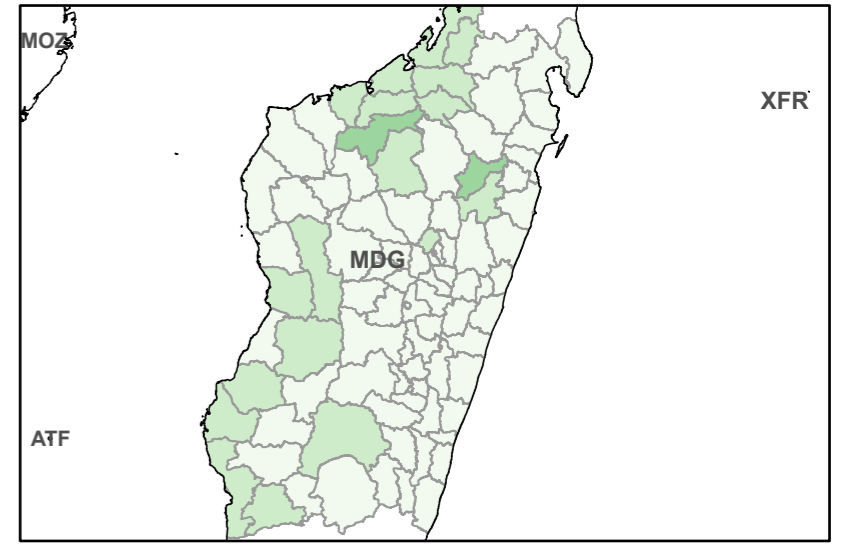
Global Data Sources:
Population - WorldPop 2022
Cropland Areas - NASA GFSAD30



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



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



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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

Date Created: 19 Feb 2024 - Contact: hq.gis@wfp.org
Map Reference: ADAM_Floods



Madagascar Flooding

Rapid 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.)
Alaotra Mangoro	Ambatondrazaka	3,698	1,752	2,605	108	679
	Amparafaravola	24,444	18,583	25,517	1,055	6,648
	Andilamena	535	8	110	5	29
Amaron I Mania	Ambatofinandrahana	543	450	447	23	133
	Fandriana	223	26	362	18	107
Analamanga	6E Arrondissement	9	12	1,344	78	296
	Ambohidratrimo	2,136	1,999	88,466	5,137	19,499
	Anjozorobe	808	702	1,186	69	261
Antananarivo	Atsimondrano	514	356	9,547	553	2,111
	Avaradrano	515	499	56,478	3,279	12,448
	Fenerive Est	1,142	66	2,857	155	781
	Mananara-Avaratra	654	89	3,824	207	1,045
	Maroantsetra	3,842	538	5,388	292	1,473
Analanjirifo	Sainte Marie	2,161	10	5,284	287	1,445
	Soanierana Ivongo	1,178	71	1,891	103	517
	Vavatenina	320	3	149	8	41
	Betroka	1,567	148	345	21	105
Anosy	Ankazoabo	3,404	116	441	26	147
	Benenitra	770	34	213	12	71
	Beroroa	4,898	265	777	45	258
	Betioky Atsimo	7,003	1,347	7,167	417	2,385
	Morombe	29,914	3,487	7,773	453	2,587
Atsimo Andrefana	Sakaraha	1,122	211	577	34	192
	Toliary-li	16,309	3,997	19,677	1,146	6,548
	Farafangana	181	60	1,294	58	426
Atsimo Atsinanana						

	Vangaindrano	143	90	418	19	138
Atsinanana	Brickville	896	31	192	10	45
	Mahanoro	275	38	367	19	85
	Toamasina I	100	5	1,328	71	309
	Toamasina li	515	15	971	52	226
	Vatomandry	419	29	316	17	73
Betsiboka	Kandreho	1,576	124	246	10	69
	Maevatanana	23,081	7,847	14,449	587	4,060
	Tsaratana	3,891	720	1,621	66	455
Boeny	Ambato Boeni	60,538	27,820	70,379	3,211	18,942
	Mahajanga I	291	85	1,914	87	515
	Mahajanga li	9,203	1,297	3,432	157	924
	Marovoay	17,886	6,813	24,028	1,097	6,466
	Mitsinjo	26,078	3,136	3,991	182	1,074
	Soalala	4,351	244	1,373	62	370
Bongolava	Fenoarivobe	559	2	154	7	43
	Tsiroanomandidy	648	105	436	20	121
Fitovinany	Ikongo	91	0	180	7	57
	Manakara Atsimo	1,231	119	3,066	124	970
	Vohipeno	273	37	681	27	215
Haute Matsiatra	Ambohimahaso	235	85	682	31	217
	Lalangina	171	46	154	7	49
	Vohibato	206	97	1,820	84	580
Ihorombe	Ihosy	3,769	2,984	2,903	103	921
	Ivohibe	725	45	344	12	109
Itasy	Arivonimamo	162	144	562	24	163
	Miarinarivo	516	296	1,494	64	435
	Soavinandriana	343	90	471	20	137
Melaky	Ambatomainy	2,119	326	443	18	126
	Antsalova	7,615	208	1,208	49	343
	Besalampy	22,491	207	3,884	157	1,103
	Maintirano	20,146	334	7,095	286	2,014
	Morafenobe	3,635	0	199	8	56

Menabe	Belo Sur Tsiribihina	14,219	2,107	12,892	718	3,814
	Mahabo	10,336	2,957	7,028	392	2,079
	Manja	12,140	1,898	2,490	139	739
	Miandrivazo	6,756	1,569	2,794	156	827
	Morondava	9,793	395	5,746	320	1,700
Sava	Antalaha	3,783	358	6,481	356	1,817
Sofia	Analava	14,619	1,417	5,059	215	1,489
	Antsohihy	7,078	2,094	5,099	217	1,501
	Befandriana Nord	753	70	563	24	166
	Mampikony	22,913	8,986	23,068	982	6,781
	Mandritsara	1,735	704	1,658	71	488
	Port-Berge	25,828	8,757	35,497	1,510	10,447
Vakinankaratra	Antanifotsy	1,019	665	1,515	71	433
	Antsirabe li	211	172	440	20	126
Vatovavy	Ifanadiana	78	0	143	6	45
	Mananjary	952	150	1,365	55	432
	Nosy-Varika	573	33	697	28	221

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