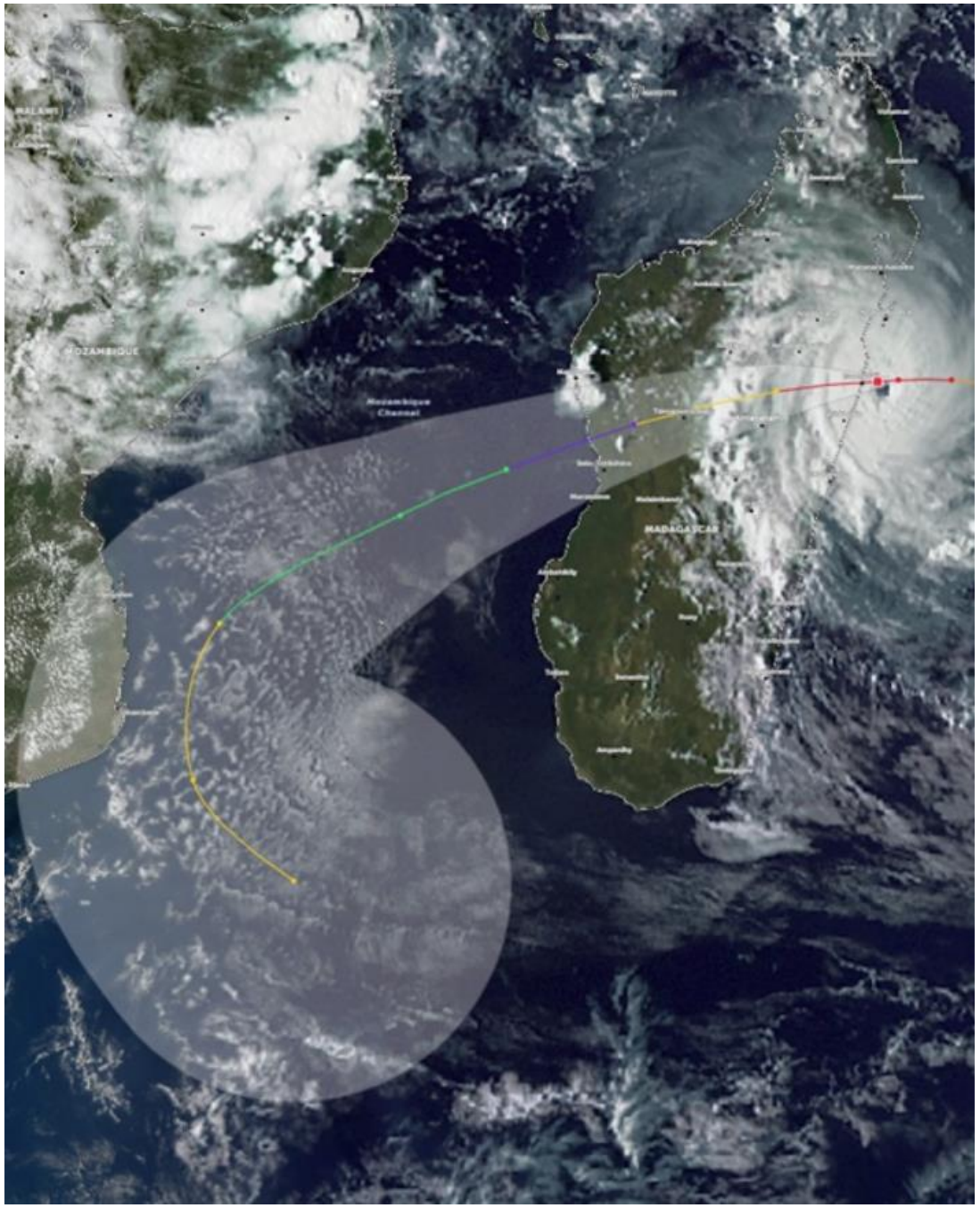


Disaster technology, data analysis and modelling by:

Dutch Disaster Risk Reduction & Surge Support (DRRS) programme

Near-Real Time Modelling Team
Cyclone Gezani
Madagascar Flood Forecasts, February 2026

Jasper van der Werff ten Bosch, Bastian van den Bout
10/02/2026

Two scenarios:

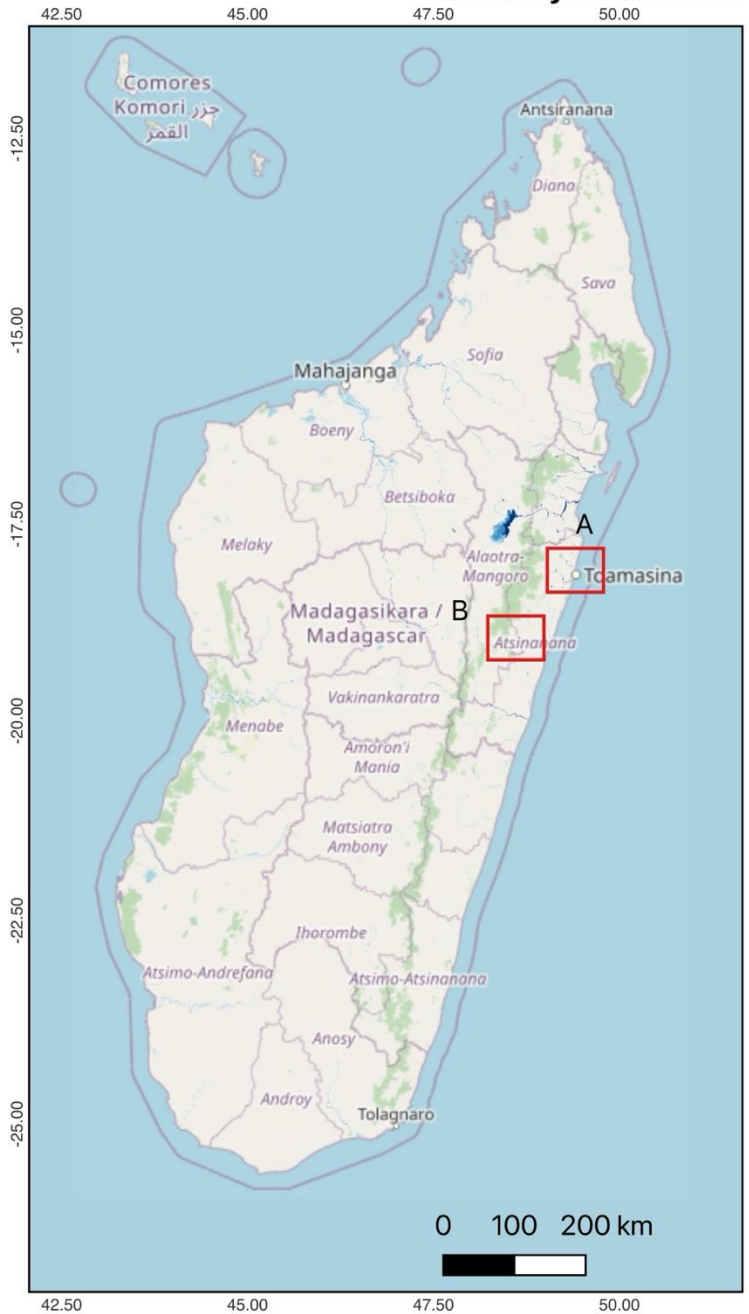
1. Normal: ECMF rainfall rescaled to get 100 mm/day at peak & normal infiltration
2. Extreme: rainfall at 100 mm/d & much lower infiltration

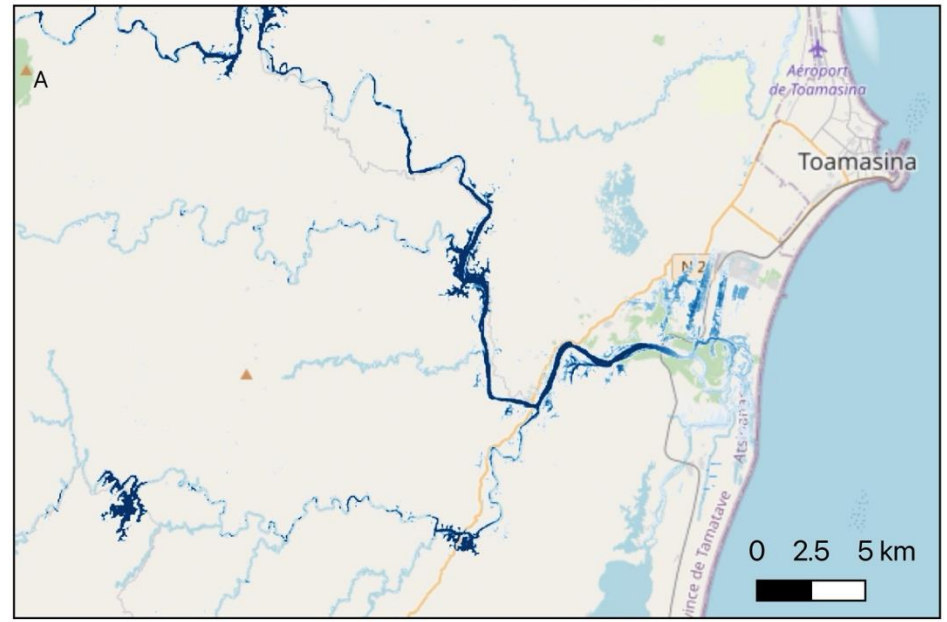
Results and impacts for period Feb 11 – Feb 16, 2026
Note: preliminary findings, to be refined

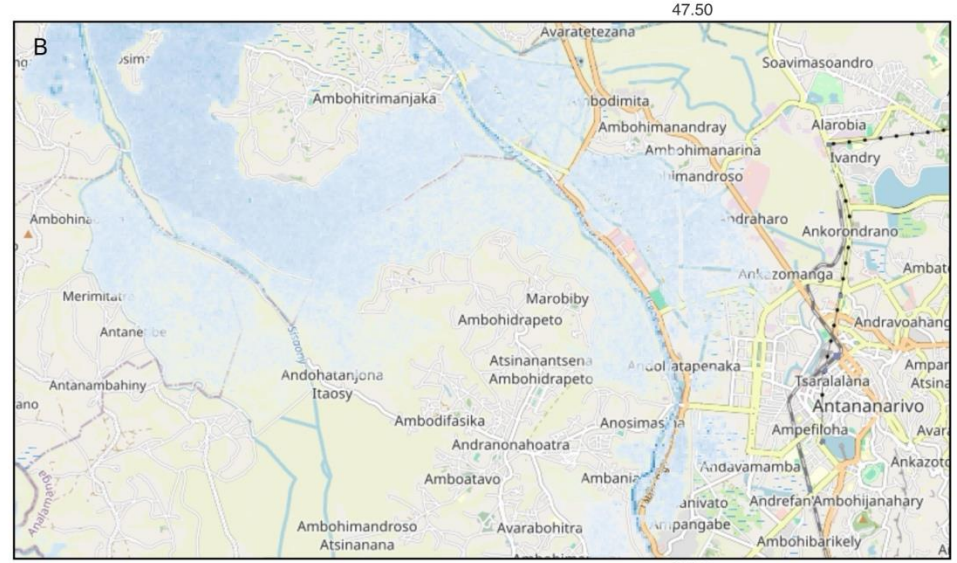
Flood depth

Region Toamasina upper right
Region Antanarivo lower right

Potentially inundated areas in Madagascar: Cyclone Gezani-26 (Forecast Scenario)





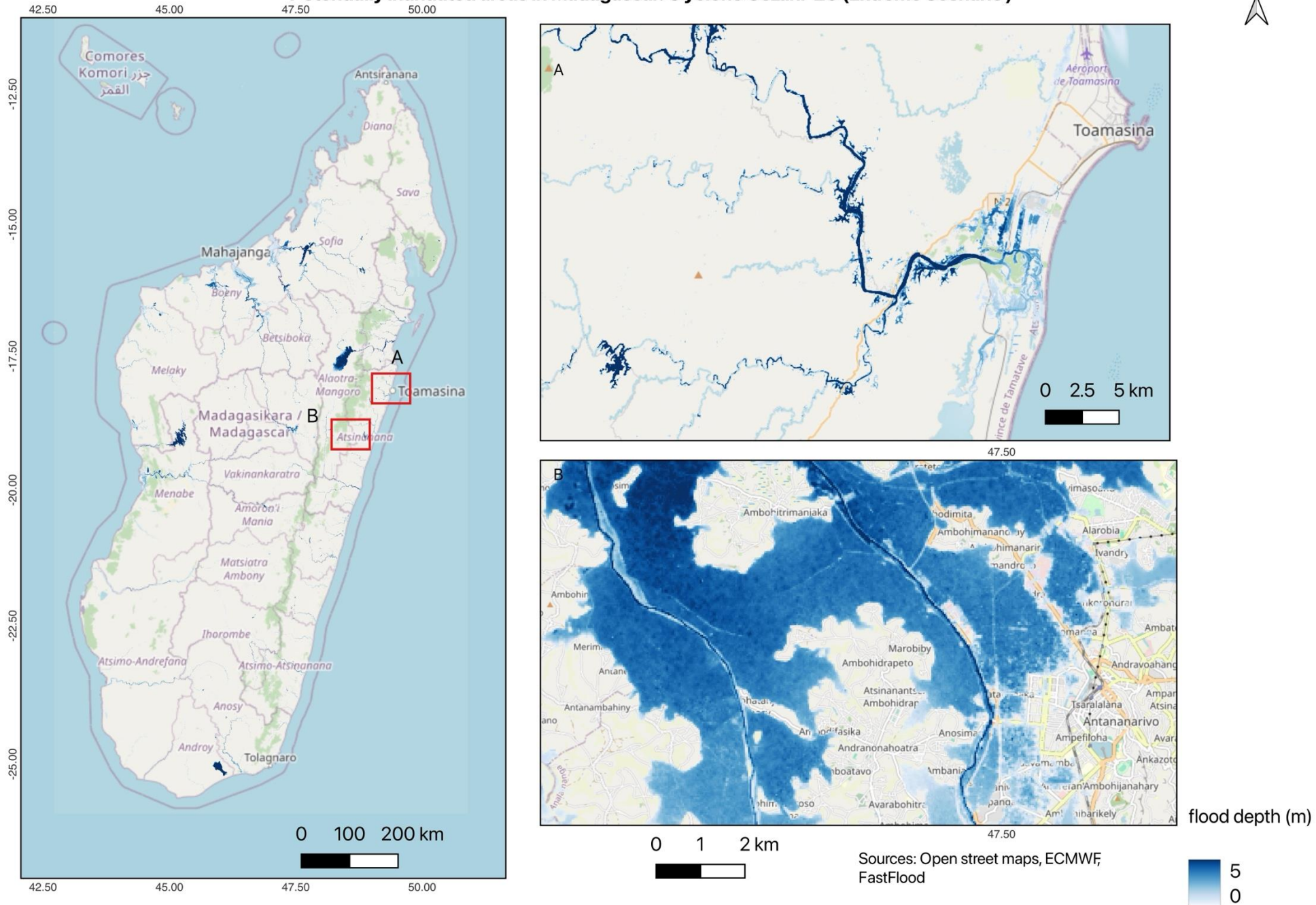


0 1 2 km

Sources: Open street maps, ECMWF, FastFlood

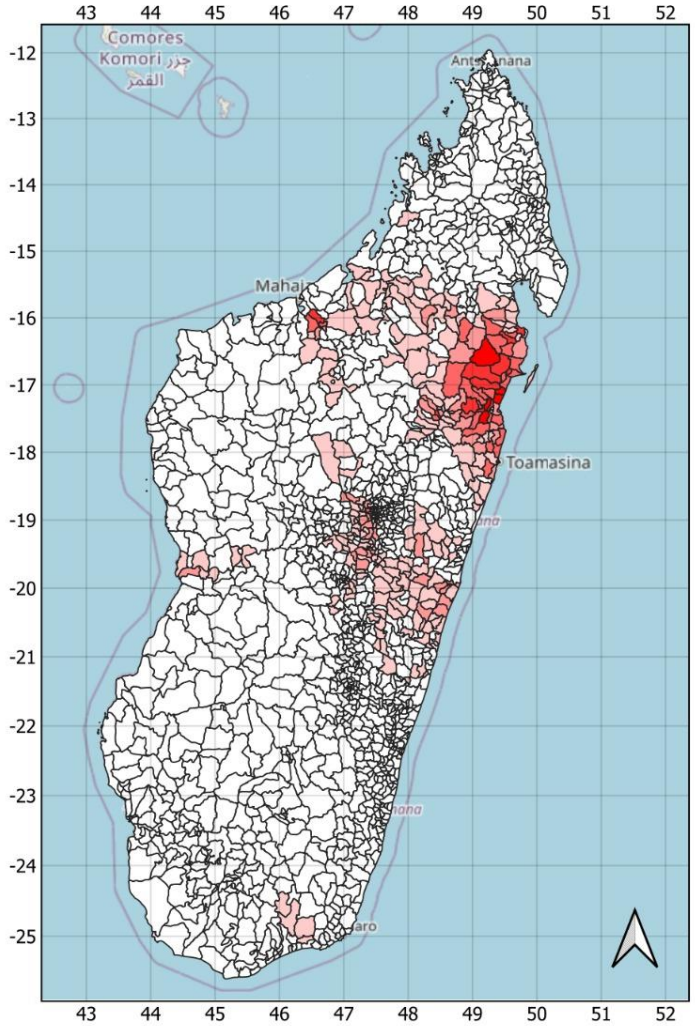
flood depth (m)

5
0

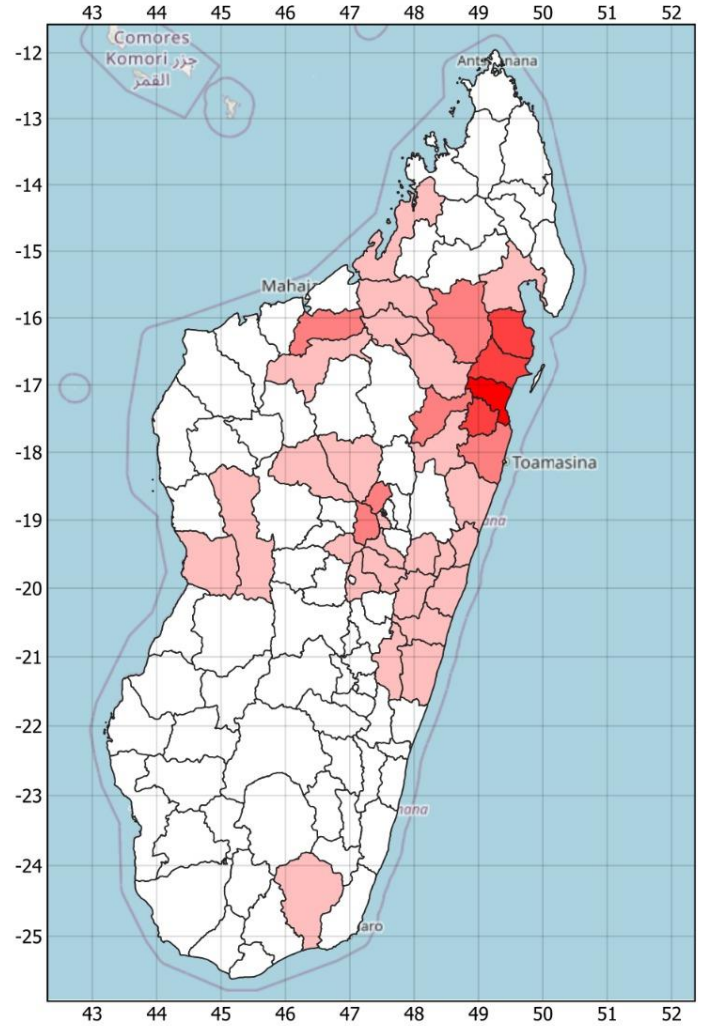

Potentially inundated areas in Madagascar: Cyclone Gezani-26 (Extreme Scenario)
42.50
45.00
47.50
50.00
-12.50
-15.00
-17.50
-20.00
-22.50
-25.00
Comores
Komori جزر
القمر
Antsiranana
Diana
Sava
Sofia
Mahajanga
Boeny
Betsiboka
Melaky
Alaotra-Mangoro
Toamasina
A
B
Madagasikara / Madagascar
Atsinanana
Vakinankaratra
Menabe
Amoron'i Mania
Matsiatra Ambony
Ihorombe
Atsimo-Andrefana
Atsimo-Atsinanana
Anosy
Androy
Tolagnaro
0 100 200 km
A
Aéroport de Toamasina
Toamasina
0 2.5 5 km
47.50
B
Ambohitrimaniaka
Ambohimanano
Alarobia
Ivandry
Marobiby
Ambohidrapeto
Antanambahiny
Tsaralalana
Antananarivo
Ampefiloha
Andranonahoatra
Anosim
Ambohijanahary
Avarabohitra
0 1 2 km
47.50
Sources: Open street maps, ECMWF, FastFlood
flood depth (m)
5
0

Impact

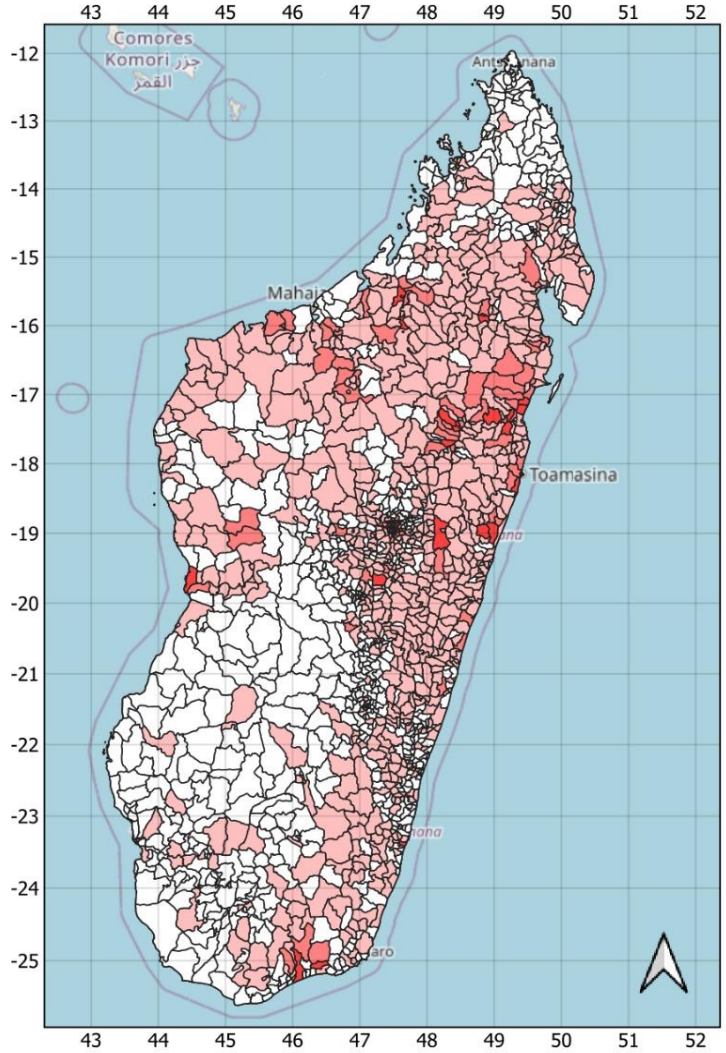
Affected people where expected flood depths are greater than 0.25m
Admin levels 3 and 2



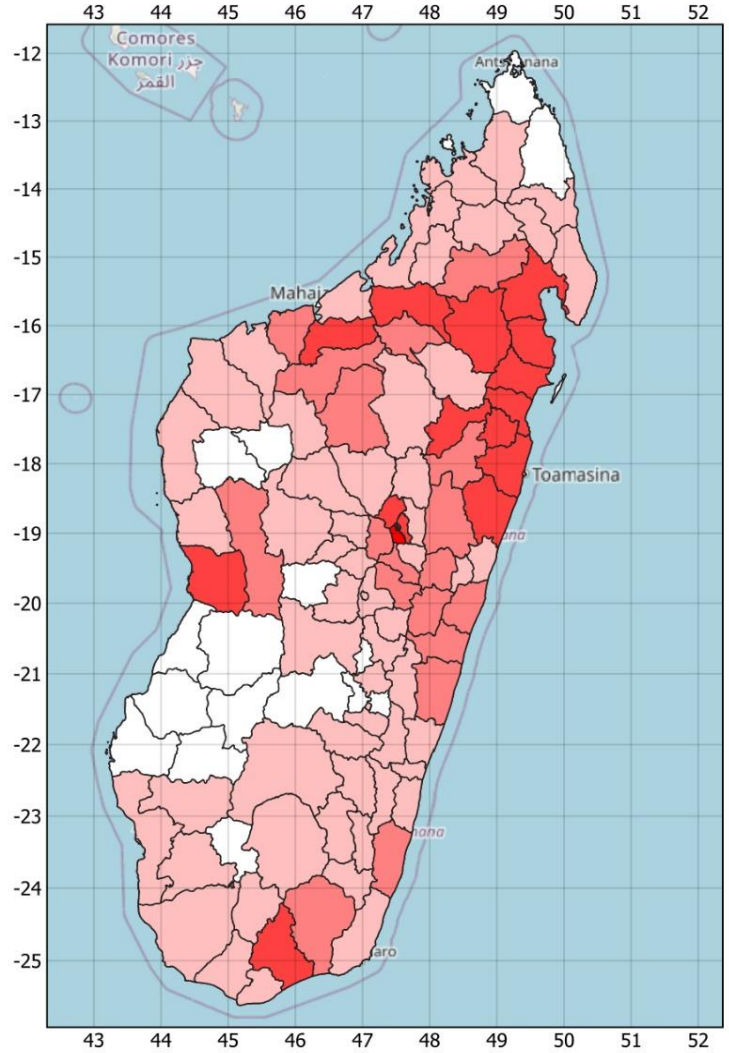
ECMWF input forecast impact scenario affected people
Flood depth > 0.25m, admin level 3
Cylone Gezani
0 - 23
23 - 333
333 - 815
815 - 1915
1915 - 3770
3770 - 6716
OpenStreetMap



ECMWF input forecast impact scenario affected people
Flood depth > 0.25m, admin level 2
Cylone Gezani
0 - 226
226 - 2685
2685 - 8674
8674 - 19401
19401 - 26638
OpenStreetMap



Extreme impact scenario affected people
Flood depth > 0.25m, admin level 3
Cylone Gezani
0 - 200
200 - 2506
2506 - 5659
5659 - 71865
71865 - 110698
OpenStreetMap



Extreme impact scenario affected people
Flood depth > 0.25m, admin level 2
Cylone Gezani
0 - 1000
1000 - 10642
10642 - 20655
20655 - 82700
82700 - 116246
OpenStreetMap

Depth (m)	Affected people (normal scenario)	Affected people (extreme scenario)
0.1	197,783	1,911,743
0.25	141,698	1,594,292
0.5	100,628	1,331,213
1	66,159	1,020,073
2	40,533	637,608

Disclaimer

These findings are preliminary, based on initial computations with FastFlood and can be refined over the next days.

No rights can be derived from these preliminary findings. While they have been compiled with all due care, RVO DRRS accepts no liability for damages resulting from any inaccuracies and/or implementation or use based on the presented contents.