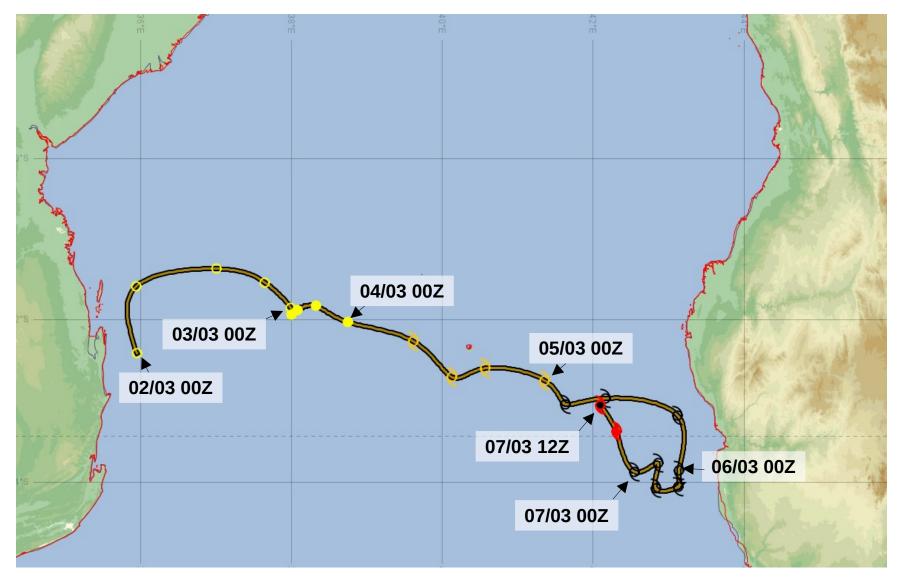


Exercise RSMC Forecast : FREDDY 07/03 12UTC

Tarik Kriat / Sébastien Langlade / Adrien Colomb RA I Training Course on Tropical Cyclones – 11th session September 2023



Bestrack



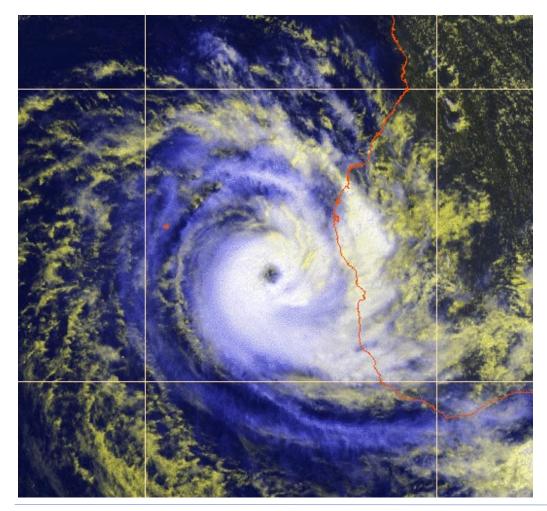


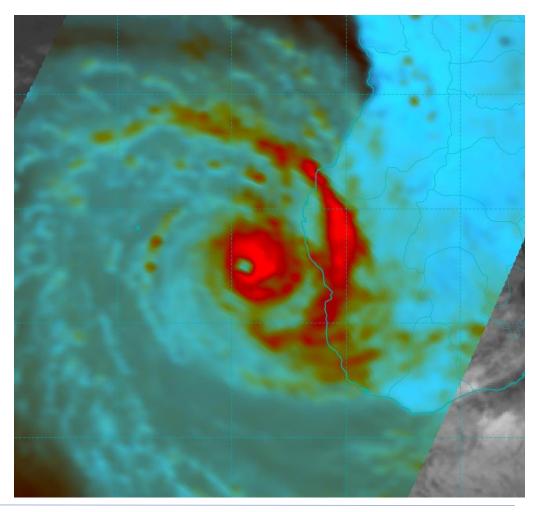
Analysis

Tropical Cyclone FREDDY 965hPa 75kt moving NW 4kt at 12Z

IR+HRV MSG2 10Z

GPM Color 1016Z

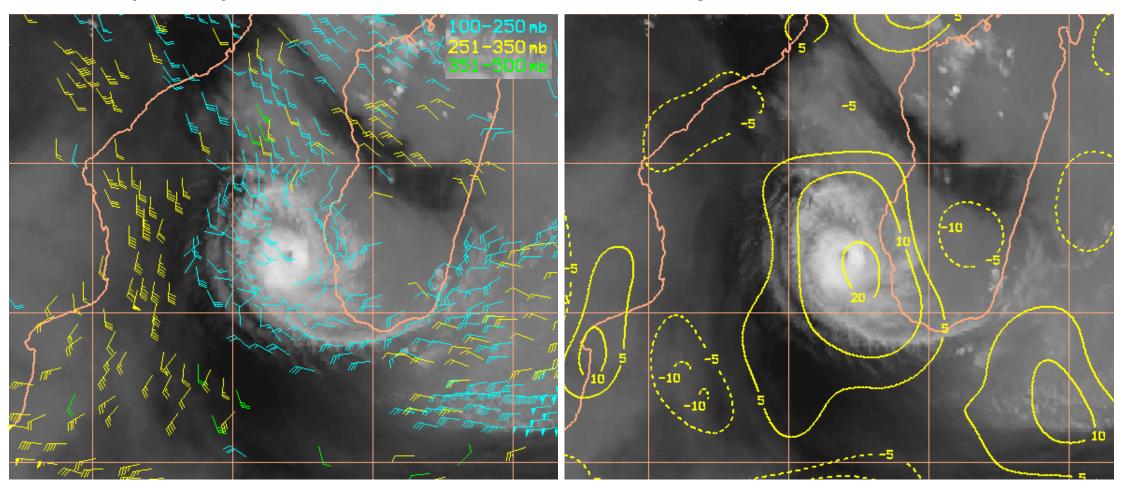






Analysis

Tropical Cyclone FREDDY 965hPa 75kt moving NW 4kt at 12Z



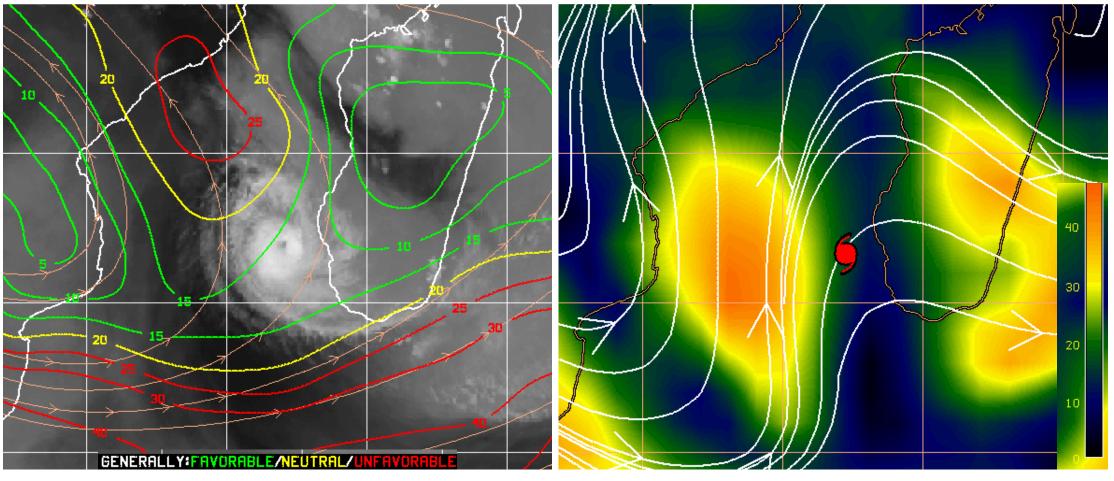
Upper winds

Upper Divergence



Analysis

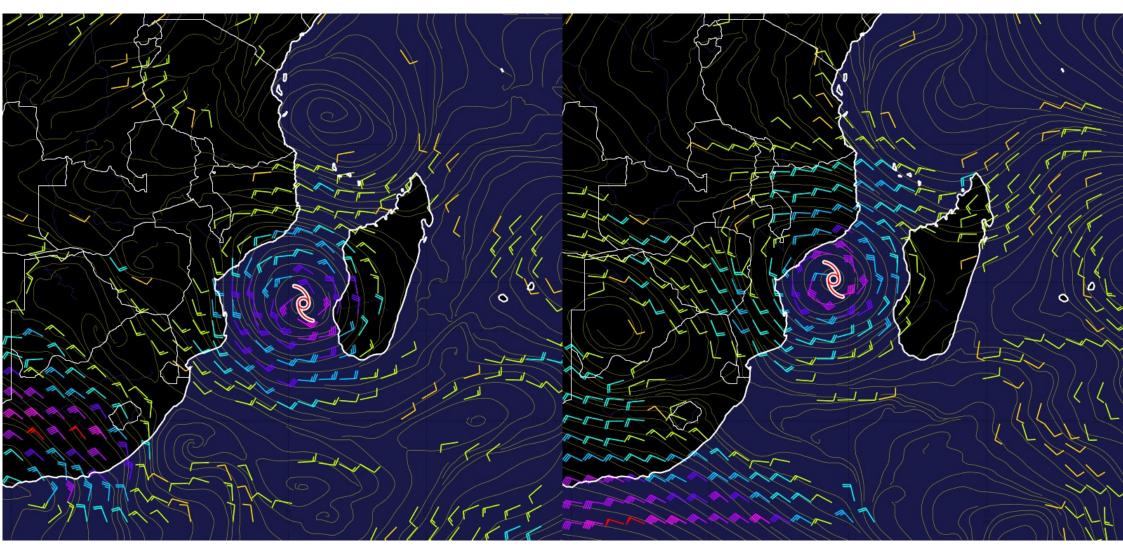
Tropical Cyclone FREDDY 965hPa 75kt moving NW 4kt at 12Z



Deep Shear (kt)

Mid Shear (kt)

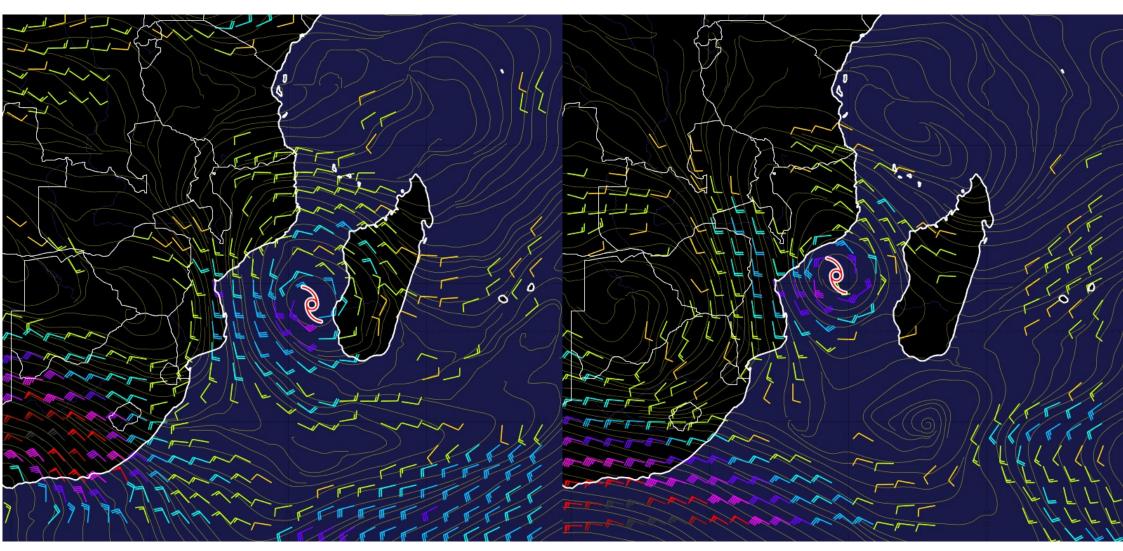




Steering flow 700hPa at 08/03 00Z

Steering flow 700hPa at 09/03 12Z



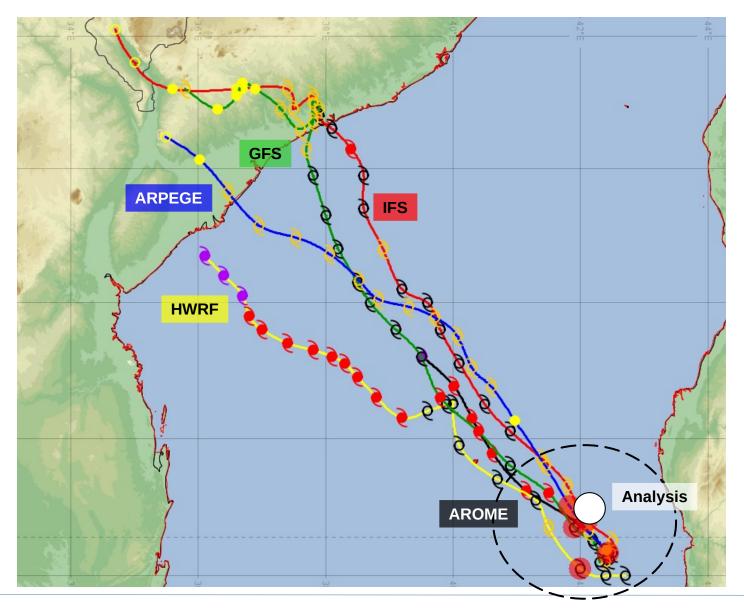


Steering flow 500hPa at 08/03 00Z

Steering flow 500hPa at 09/03 12Z

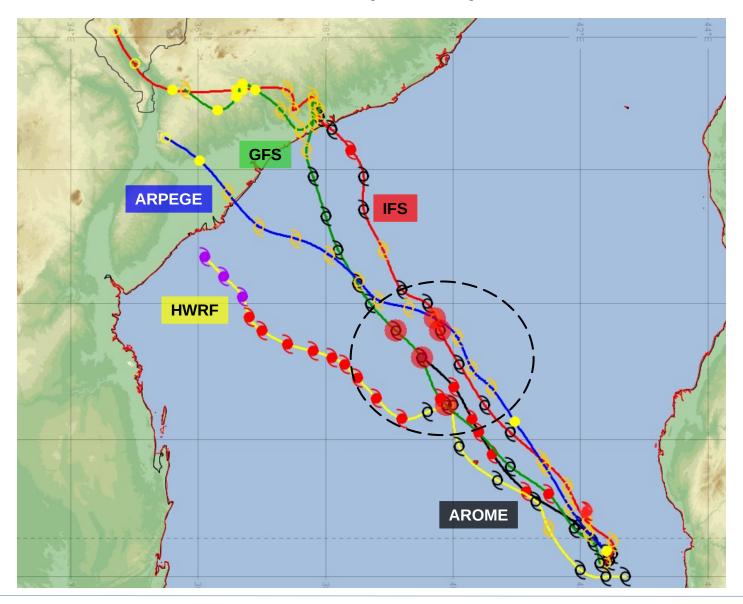


Forecast tracks + Position (red dots) at 07/03 12Z / 00h



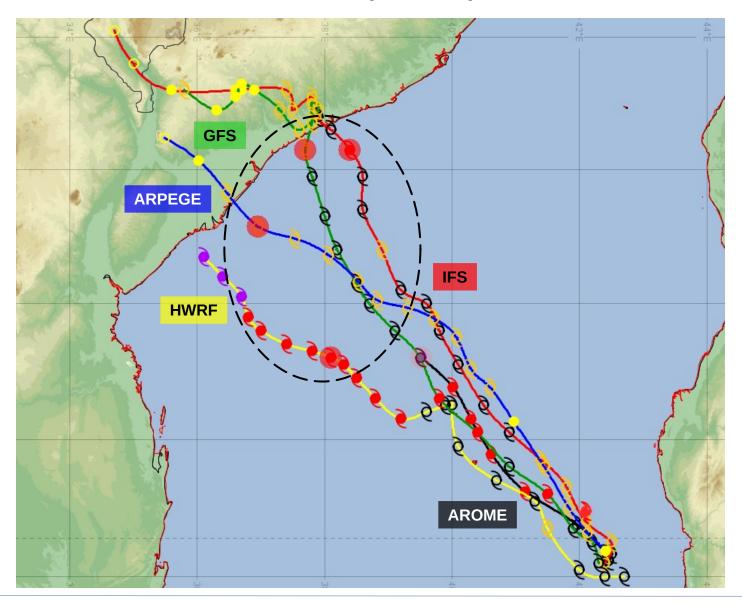


Forecast tracks + Position (red dots) at 09/03 00Z / 36h



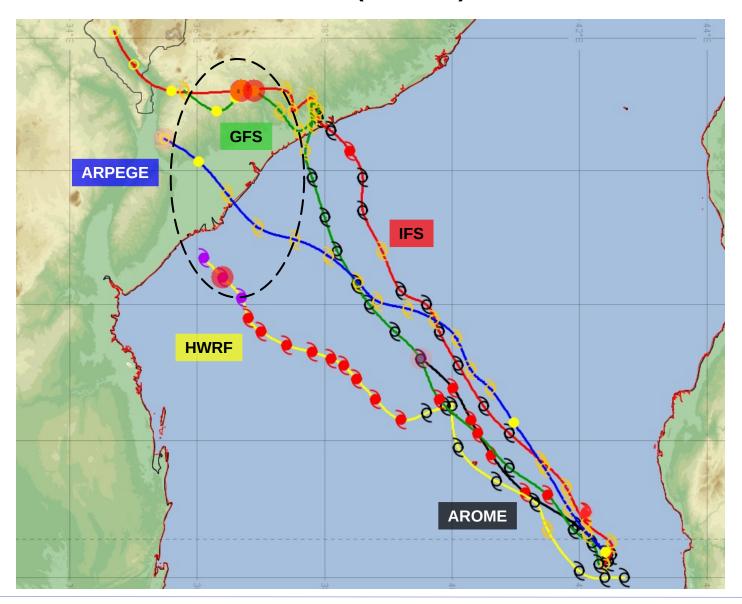


Forecast tracks + Position (red dots) at 10/03 12Z / 72h



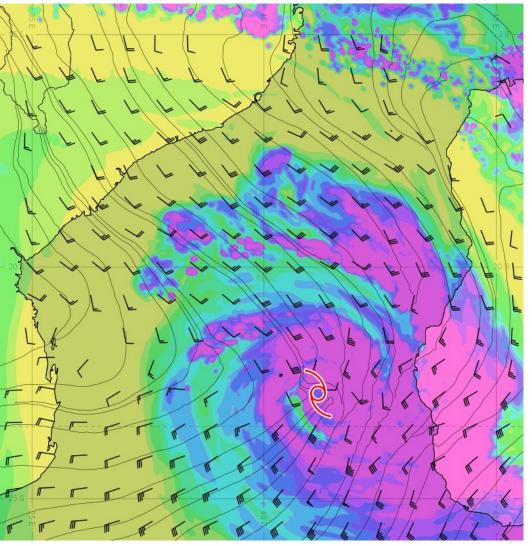


Forecast tracks + Position (red dots) at 12/03 00Z / 108h

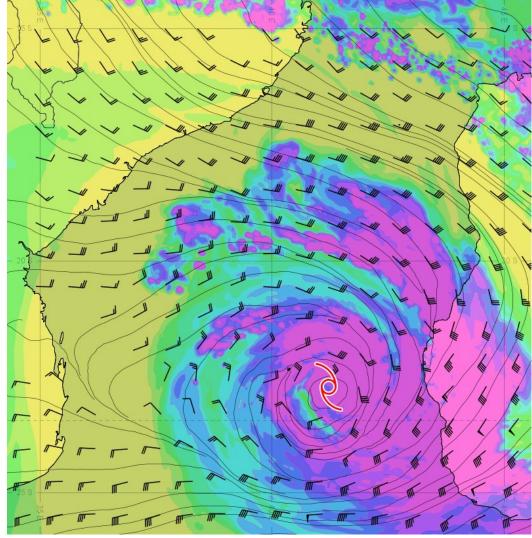




08/03 00Z with Arome

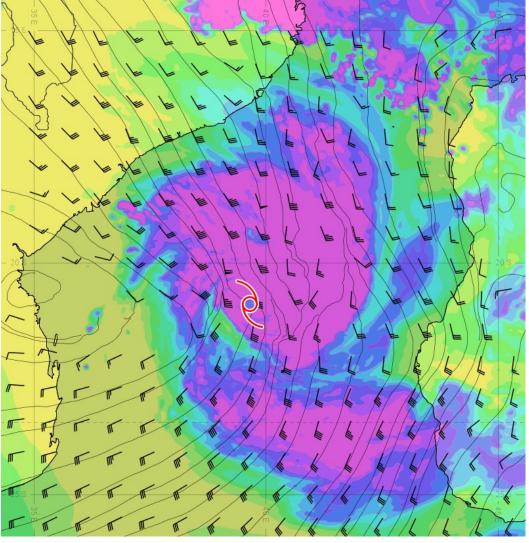


400-850hPa Shear and 500hPa humidity



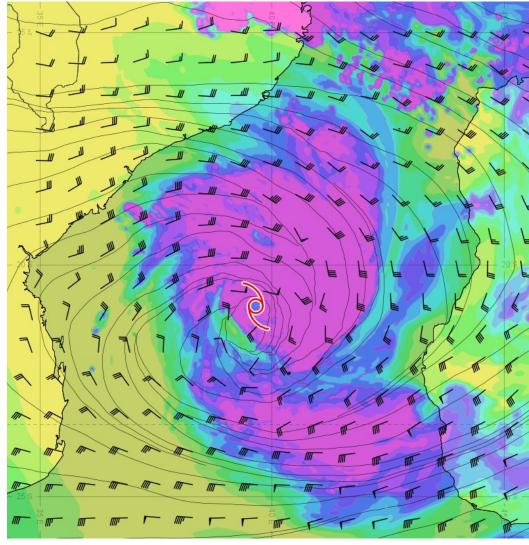
200-850hPa Shear and 500hPa humidity





400-850hPa Shear and 500hPa humidity

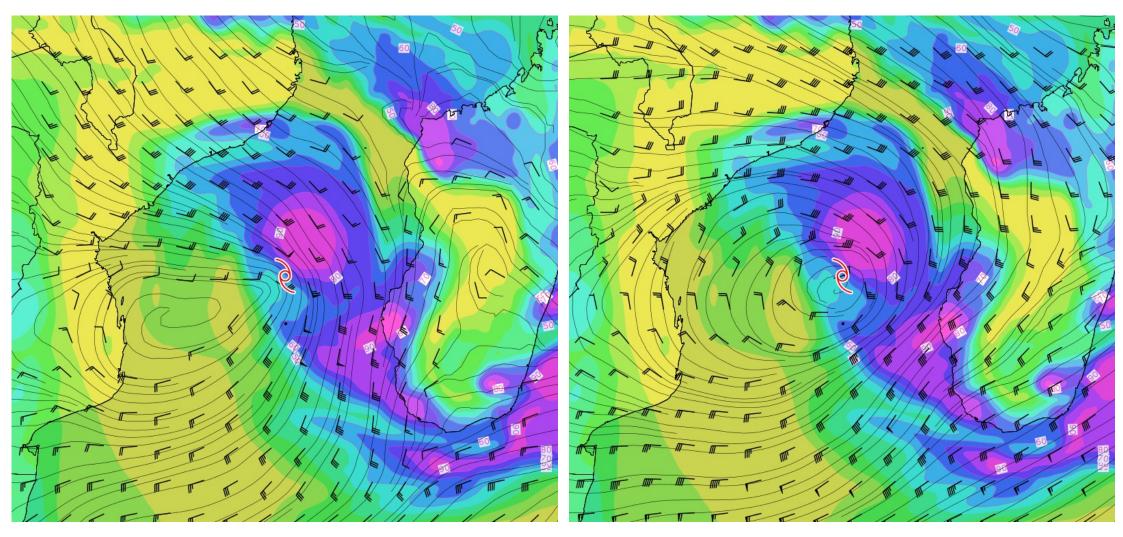
09/03 00Z with Arome



200-850hPa Shear and 500hPa humidity



08/03 12Z with ARPEGE

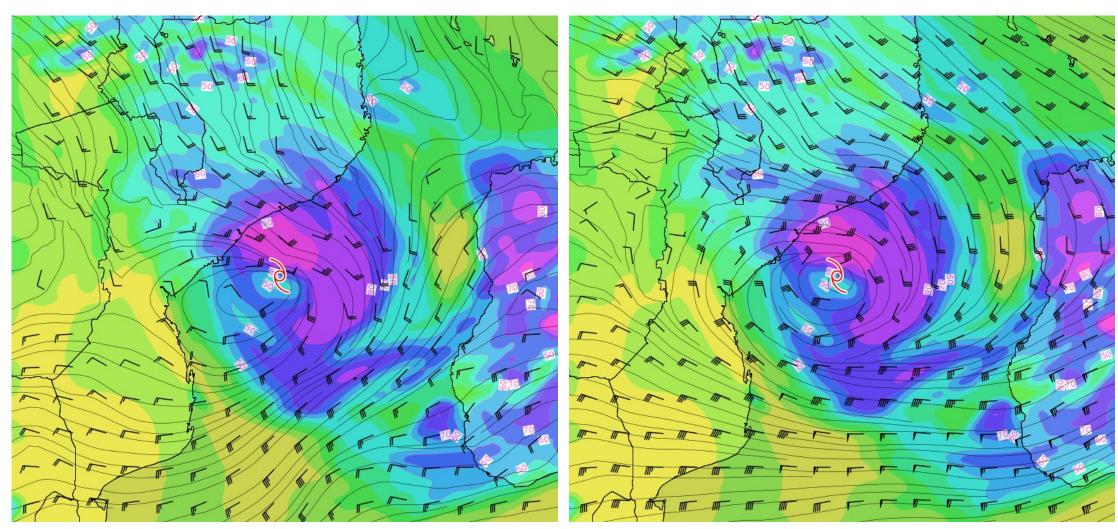


400-850hPa Shear and 500hPa humidity

200-850hPa Shear and 500hPa humidity



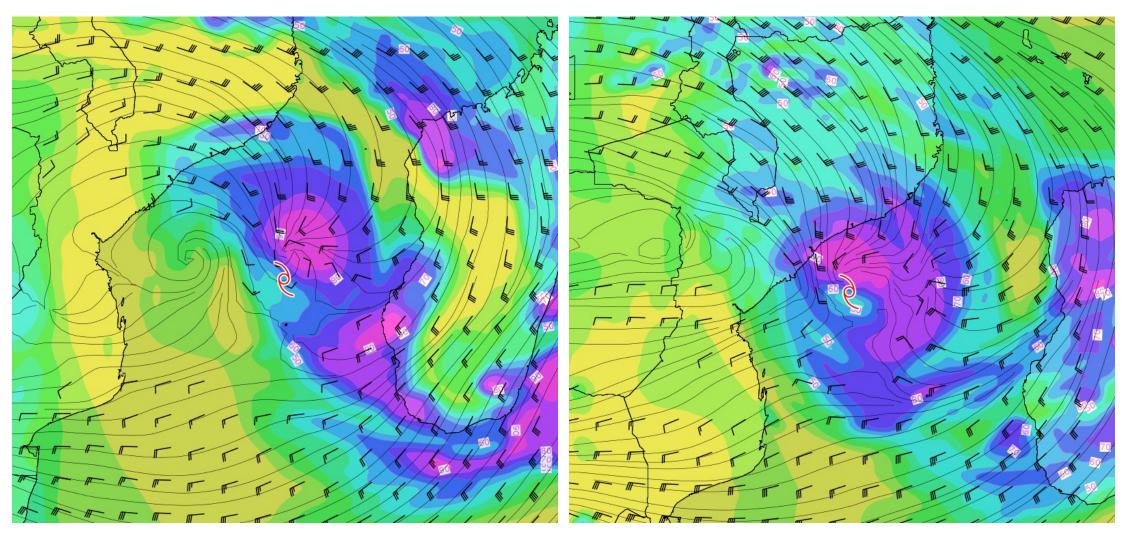
10/03 00Z with ARPEGE



400-850hPa Shear and 500hPa humidity

200-850hPa Shear and 500hPa humidity



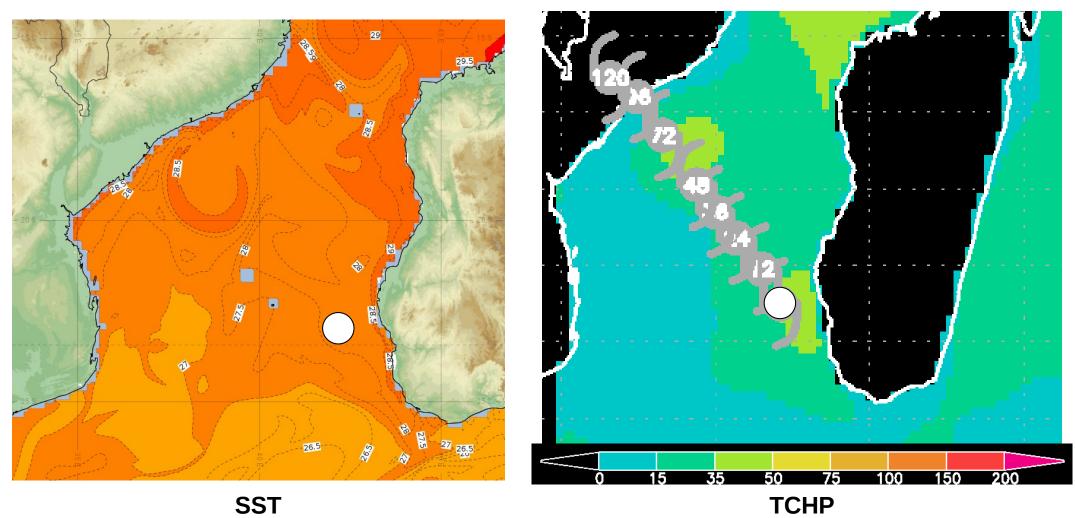


150hPa wind (upper divergence) 08/03 12Z

150hPa wind (upper divergence) 10/03 00Z

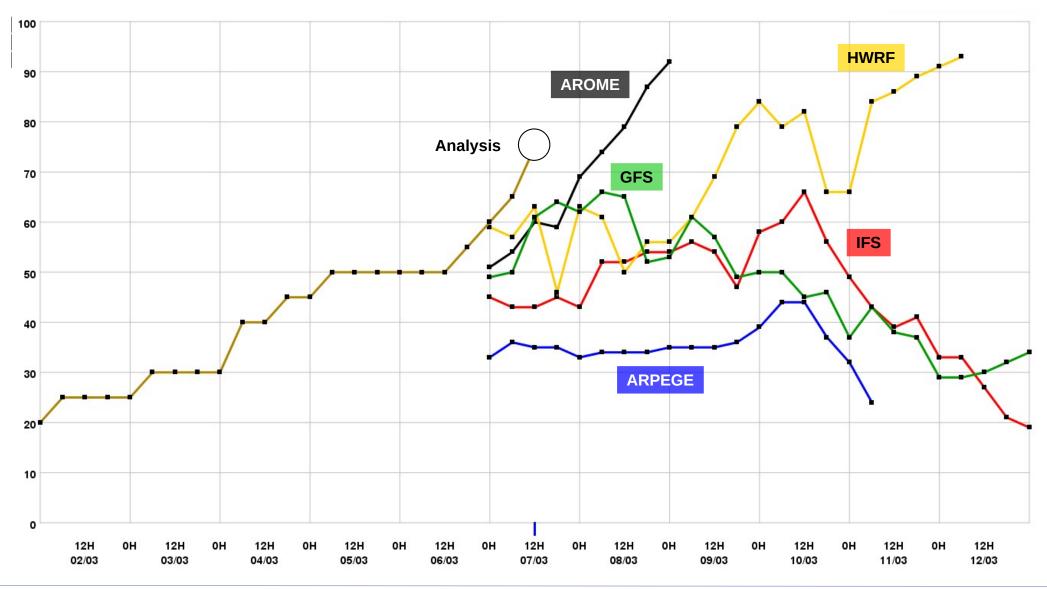


Tropical Cyclone FREDDY 965hPa 75kt moving NW 4kt at 12Z



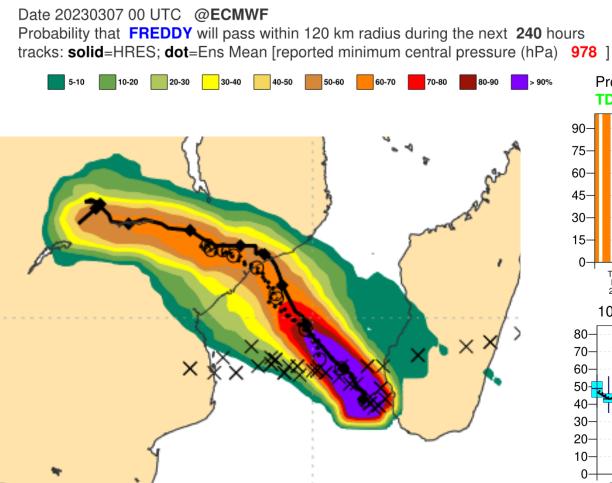


Forecast intensities (kt)



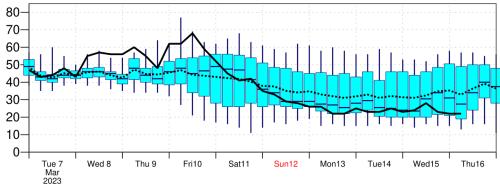


ECMWF EPS Forecast 07/03 00Z



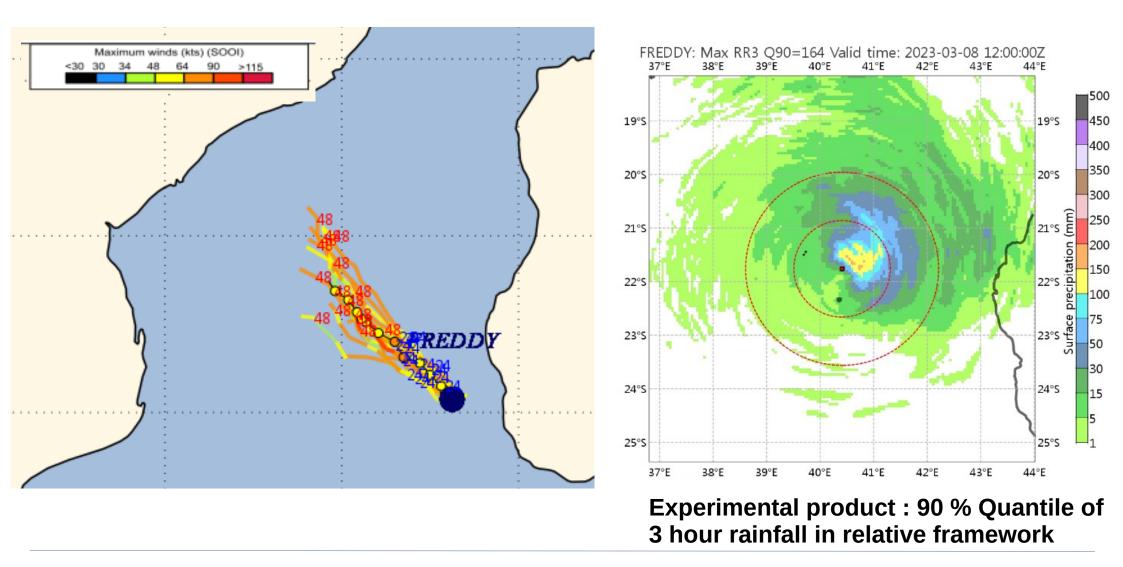
Probability (%) of Tropical Cyclone Intensity falling in each category TD[up to 33] TS [34-63] HR1[64-82] HR2 [83-95] HR3 [> 95 kt] 90-75-60-45-30-15- 0- 15-15-

10m Wind Speed (kt) solid=HRES; dot=Ens Mean



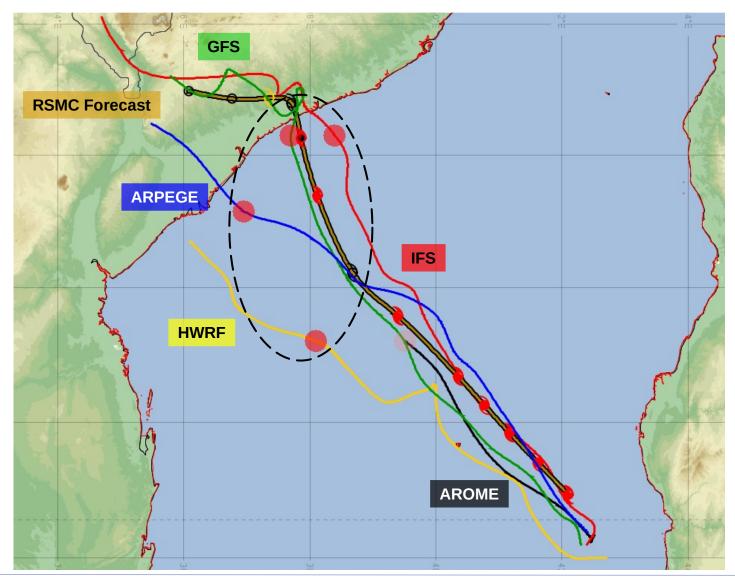


PEARO Forecast 07/03 00Z





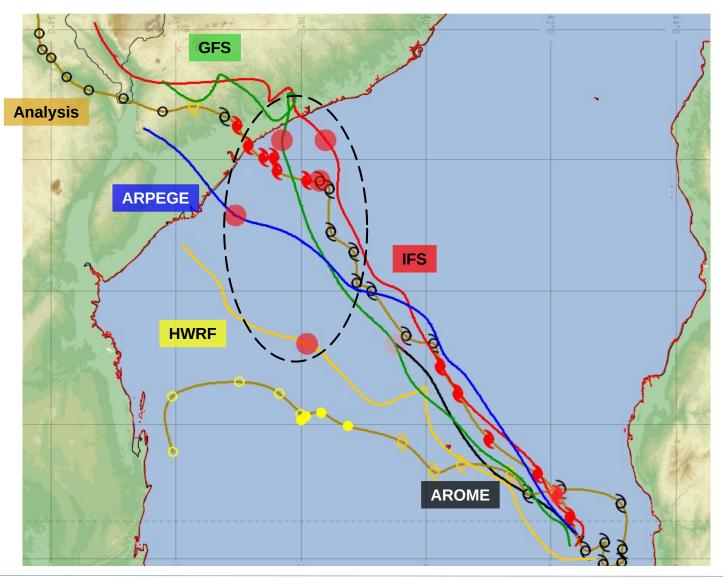
Official forecast Forecast tracks + positions (red dots) at 10/03 12Z / 72h





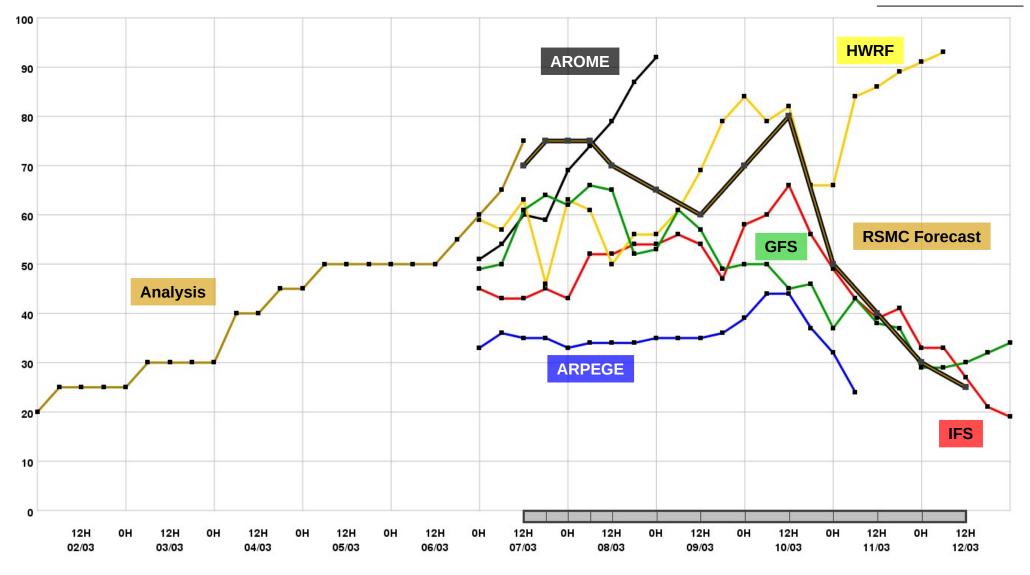
In reality

Forecast tracks + positions (red dots) at 10/03 12Z / 72h





Official forecast





In reality

