SWFDP-SARFFGS National Implementation Plan Workshop 16-21 JANUARY 2017 Mbabane, SWAZILAND

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PURPOSE

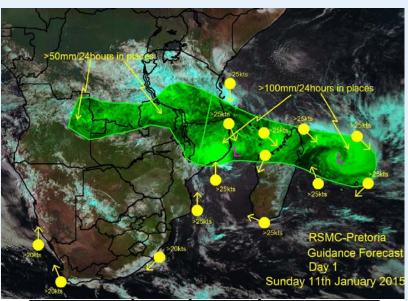
TO ILLUSTRATE THE POTENTIAL FOR SWFDP AND SARFFGS TO WORK TOGETHER – RSMC PRETORIA



CURRENT OPERATIONAL STATUS OF RSMC PRETORIA FOR SWFDP



CURRENT



TO SHARE WAS A	1		A 1975	1000	C 167 F.		1	The	
RISK	No risk	Low risk	Medium risk	High risk	No risk	Low risk	Medium risk	High risk	
Heavy Rain						Strong Winds			
Angola		NE			Х				
Botswana	X				Х				
DRC		S			Х				
Comoros				Х				Х	
Lesotho	Х				Х				
Madagascar	T			N				Х	
Malawi				Х	Х				
Mauritius				Х				Х	
Mozambique				N				Central + N	
								coasts	
Namibia	х							Ext S coast	
Seychelles	х							SW+SE isles	
South Africa	Х							W + E coasts	
Swaziland	Х				х				
Tanzania		S						Coast and isles	
Zambia			NE		Х				
Zimbabwe	Х				Х				

- Guidance for rainfall >50,
 100 and 150mm in 24hours
- Surface winds >20kts
- Total seas > 2m
- Severe thunderstorms
- Extreme temperatures (too high/too low)
- Guidance issued for up to
 5days ahead

FOR SWFDP



FUTURE

- QPF from RSMC to input into SARFFGS
- 6 Hourly QPF for first 1.5 days
- Threshold to be decided
- 12:00Z-18:00Z, 18:00Z-24:00Z, 00:00Z-06:00Z and 06:00Z-12:00Z
- Days 2-5 to remain as currently
- Provision for other SWFDP parameters (wind, waves, snow and temperatures)

Developments needed

- forecaster tool
- Upgrade of the current RSMC website to accommodate new products
- Development and/or improvement for archiving of products.

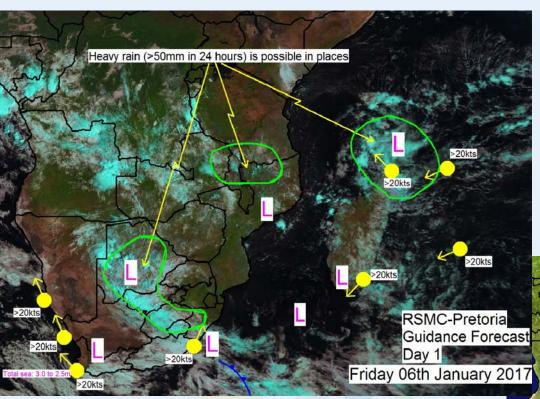
Case of 06 January 2017

- A combination of a tropical and westerly lows brought widespread rains over southern parts of the sub-continent from 5 January
- Heavy rains continued over E RSA and S Botswana for the whole weekend
- This lead to flooding n places over these countries



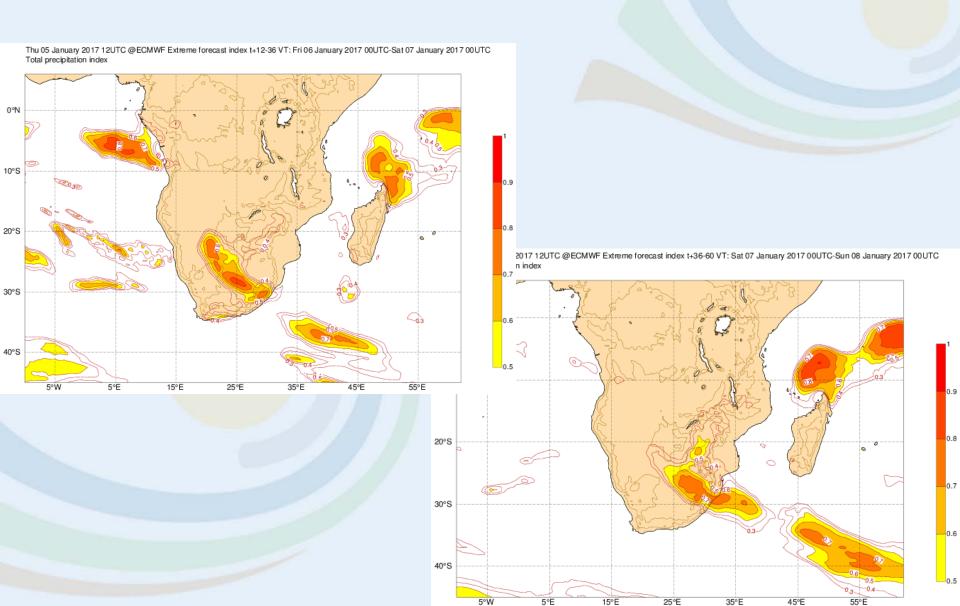


RSMC GUIDANCE

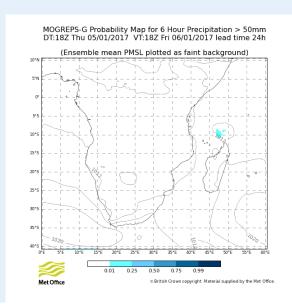




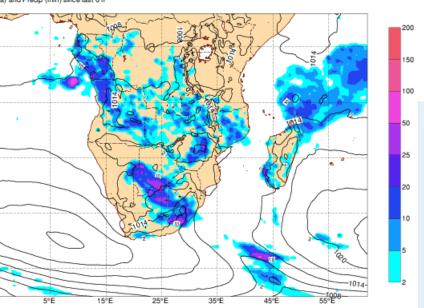
Overview of NWP

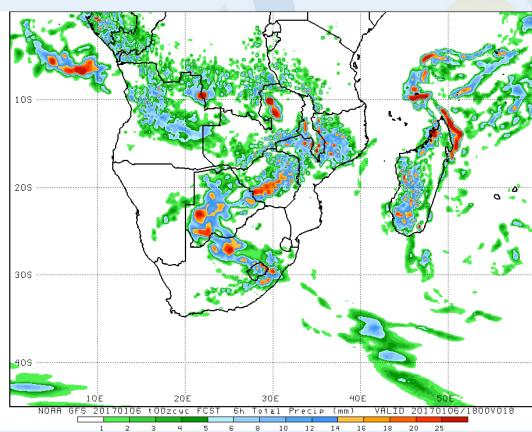


12:00Z - 18:00

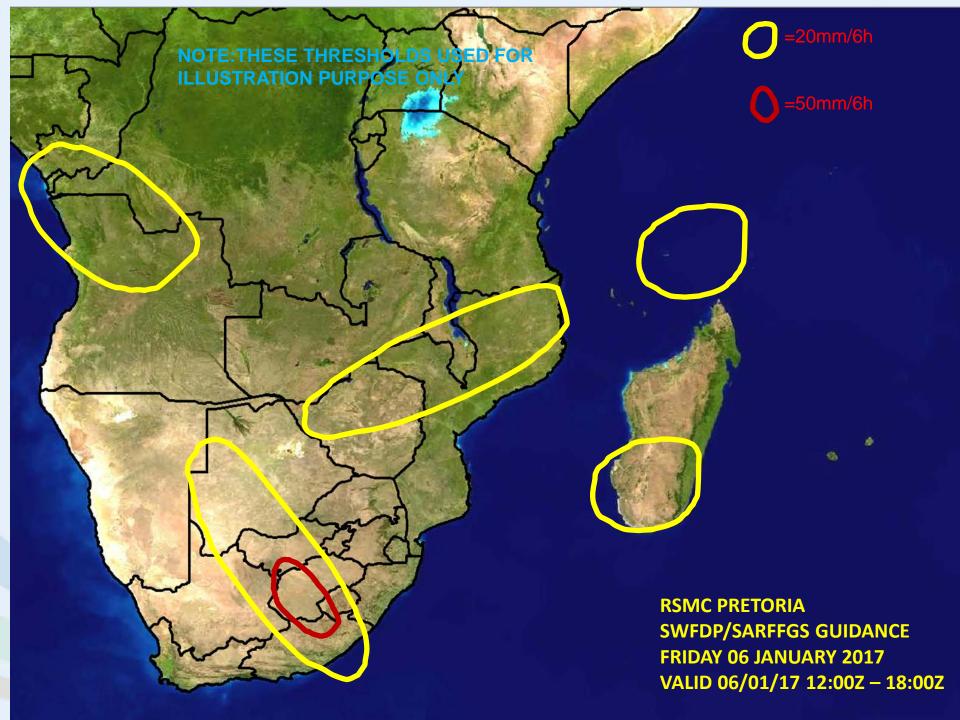


05 January 2017 1200 UTC ECMWF t+30 VT: Friday 06 January 2017 1800 UTC a) and Predip (mm) since last 6 h

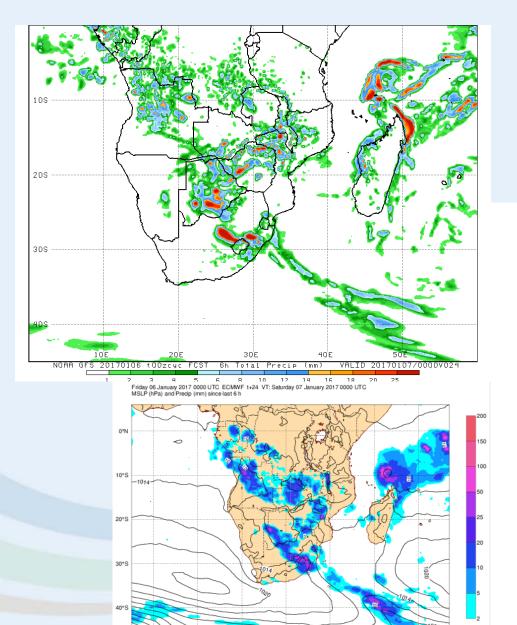




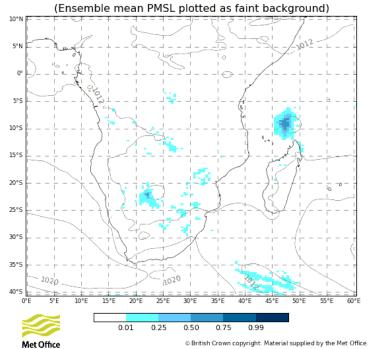


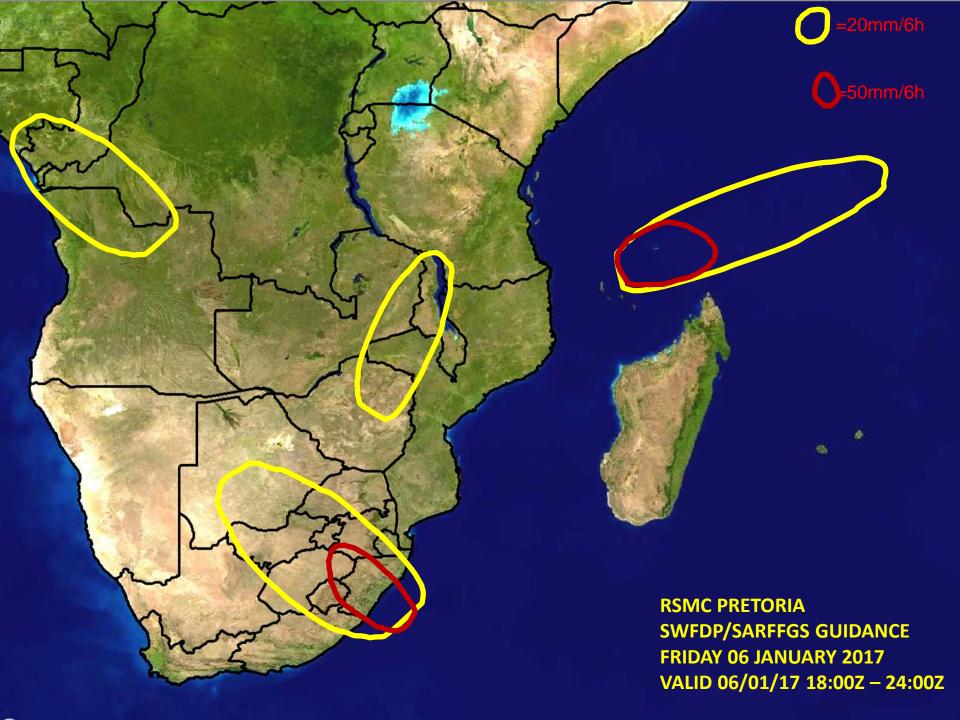


18:00Z - 24:00Z

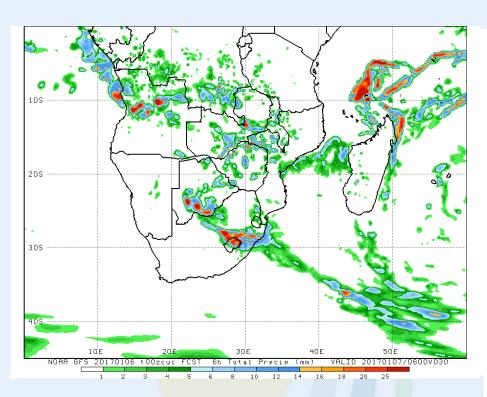


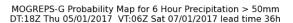
MOGREPS-G Probability Map for 6 Hour Precipitation > 25 mm DT:00Z Fri 06/01/2017 VT:00Z Sat 07/01/2017 lead time 24h

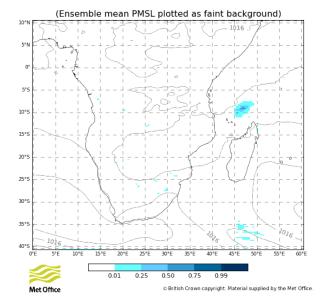


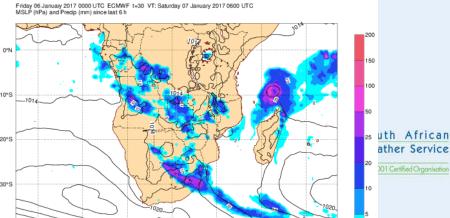


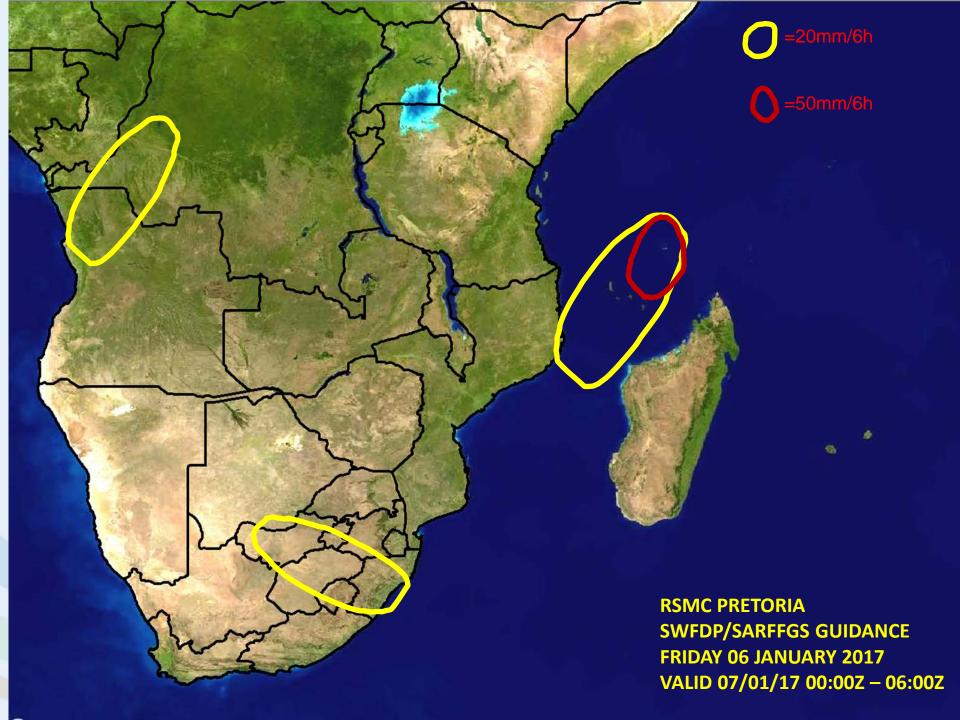
00:00Z - 06:00Z





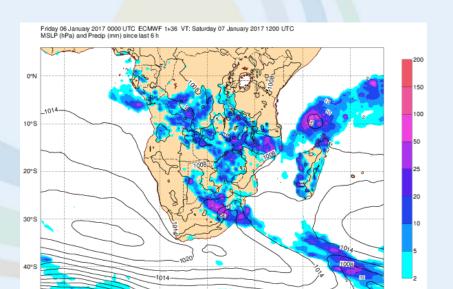


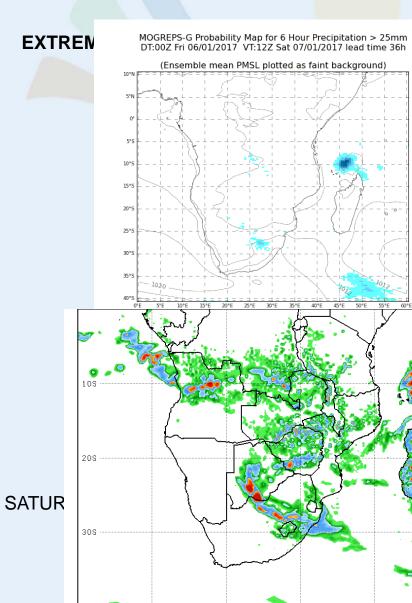


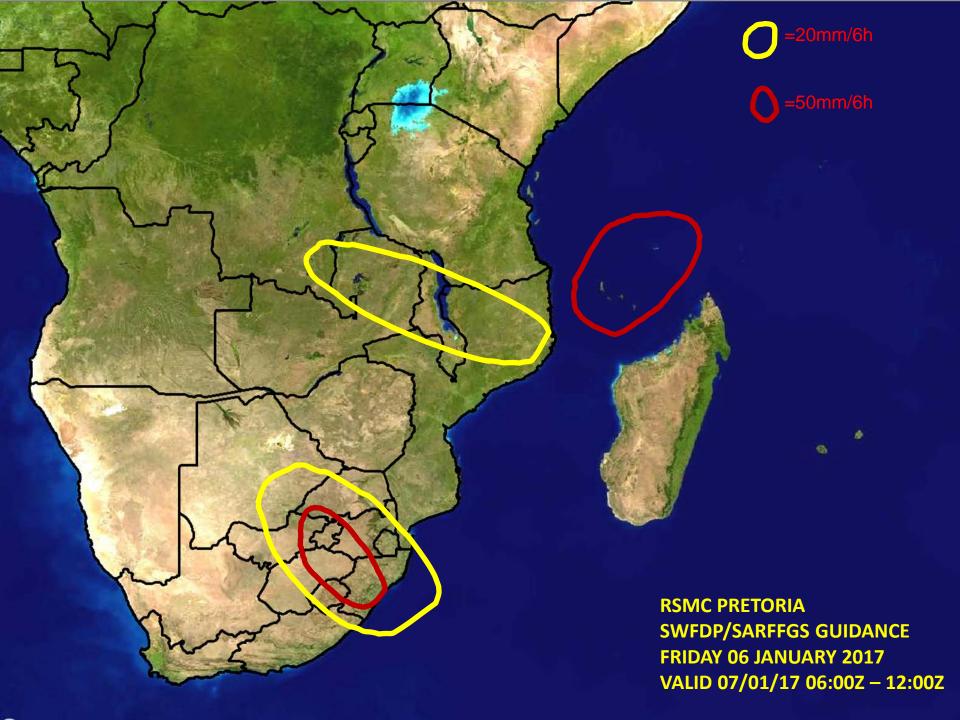


06:00Z - 12:00Z

FRIDAY







Conclusions

- SWFDP and SARFFGS can be twinned
- Some developments needed in order to use SWFDP output as input into SARFFGS
- Will also benefits SWFDP countries not participating in SARFFGS

END

