

## STATUS OF THE REGIONAL SUBPROJECT

PERIOD: September 2007 to November 2007  
 NMS: Madagascar

### 1. HIGHLIGHTS OVER THE PERIOD ( September – October – November)

During the third decade of October and November heavy rains due to convection occurred in Madagascar especially in the center, the eastern part of the center, and in the Northwestern of Malagasy coast

#### **.OVERVIEW OF PRODUCTS**

##### a. Usefulness of RSMC-Pretoria guidance

. The guidance helps the forecasters as well as public forecasting weather. However, the guidance fails sometimes in finding t areas of localized regions where heavy rains occur.

##### b. Usefulness of SWFDP NWP/EPS Products received from each global center and RSMC UM-SA12

The SWFDP NWP/EPS products received from the global center and Rsmc UM-SA 12 are useful because they give forecasts for short and medium range

### 2. PROJECT EVALUATION AGAINST SWFDP GOALS

SWFDP GOAL	IMPACT
To improve the ability of NMCs to forecast severe weather events	The NMCs have got more tools to forecast severe weather events. These products are different from the others because they give information to the region ,consequently, their ability to forecast severe weather event is improved
To improve the lead time of alerting these events	The forecast is now available beyond five days with confidence. SWFDP Products are reliable so the forecasters do not hesitate to issue a warning or advisory.
To improve the interaction of NMCs with Disaster Management and Civil Protection authorities before, during and after severe weather events	This project reinforces the interaction of the NMC with the DMPCA. <u>Before</u> , because the forecast is issued 5 days before <u>During</u> , because warnings are sent directly to the DMCPA <u>After</u> them the DMCPA has to give their feedback to the NMC.
To identify gaps and areas for improvements	Feedback from NMCs will be provided regularly through evaluation form from which the performance of each model will be shown
To improve the skill of products from Global Centers through feedback from NMCs	At the beginning, it was not easy to work with so many products at once, but with time, the forecasters succeed to find the best way how to work with them.

3. **EVALUATION OF WEATHER WARNINGS** (feedback from customer?, standardized questions to disaster authorities?)
4. **SUMMARY** (general comments, challenges, etc, details in Annex 1)
5. **CASE STUDY** (PowerPoint Presentation to include guidance products (RSMC and NWP), satellite imagery, warnings issued, impact evidence etc)

## ANNEX VI.1

**Evaluation Table**

DATE	SWFDP Evaluation Form Event Nr (If Applicable)	Weather Type	Location	Observed amount (rainfall or wind speed)	RSMC Guidance		Which NWP/EPS forecast product(s) used by NMC	Local Warnings issued	Impact	
					Amount predicted	Usefulness (1-4) 4 is best				
Dd/mm/yy September 2007 to November 2007		Mesoscale rainfall or synoptic scale rainfall or strong winds (convective or synoptic)		(mm/24h)	Amount predicted	Usefulness (1-4) 4 is best	(RSMC UM-SA 12, ECMWF, Met-Office, NCEP)	Usefulness from 1 to 4 1- Misleading 2- Not useful 3- Useful 4- Very useful		
14/09/07		Synoptic scale rainfall	Toamasina	65.0		2	RSMC UM-SA 12, ECMWF, Met-Office NCEP	2 3 3 3	Not issued	No
17/10/07		Synoptic scale rainfall	Besalampy	54.0		2	RSMC UM-SA 12, ECMWF, Met-Office NCEP	2 3 3 3	Not issued	No
22/10/07		Synoptic scale rainfall	Ambohitsilaozana	54.2		4	RSMC UM-SA 12, ECMWF, Met-Office NCEP	4 3 3 3	Not issued	No
29/11/07		Synoptic scale rainfall	Ivato	93.6		3	RSMC UM-SA 12, ECMWF, Met-Office NCEP	3 4 3 3	Not issued	Flooding
29/11/07		Synoptic scale rainfall	Mahajanga	77.6		3	RSMC UM-SA 12, ECMWF, Met-Office NCEP	3 4 3 3	Not issued	No