STATUS OF THE REGIONAL SUBPROJECT

PERIOD: June 2007 to August 2007
NMS:

1. HIGHLIGHTS OVER THE PERIOD (June – July – August)
This period represents the winter season. Heavy rains occurred at the end of July.

2. OVERVIEW OF PRODUCTS

a. <u>Usefulness of RSMC-Pretoria guidance</u>

The Rsmc – Pretoria Guidances are operating and using now in our region on large scale rainfall baring system., and   when severe weather events like heavy precipitation or strong winds due to the convection.occure The guidances help the forecasters . However, the guidance sometimes has its little shortcomings such as in picking up the areas of localized regions of heavy rains or strong winds.

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

The SWFDP NWP/EPS products received from the global center are useful because the products guide the forecasters to localize areas of severe weather events in the short or long range.
During this period NWC was using Rsmc UM-SA 12 products and there are not useful at all for local areas.

3) PROJECT EVALUATION AGAINST SWFDP GOALS

SWFDP GOAL	PROGRESS AGAINST GOALS
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 identify gaps and areas for improvements.	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.
To improve the skill of products from Global Centre through feedback from NMCs	Feedback from NMCs will be provided regularly through evaluation form from which the performance of each model will be shown

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. Before, because the forecast is issued 5 days before During, because warnings are sent directly to the DMCPA After them the DMCPA has to give their feedback to the NMC

4) EVALUATION OF WEATHER WARNINGS (feedback from customer Standardized questions to disaster authorities).

No feedback from customers because no warnings were issued.

5) SUMMARY (general comments, challenges, etc

- The NMC ability to forecast severe event (heavy precipitation) was improved.
- It remains a challenge to forecast local strong wind from convection.
- More training is needed to forecasters to improve their skills : CD system is not sufficient, more practises are useful (to interpret the products)

6- **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
Dd/mm/yy **June 2007 to August 2007**		Mesoscale rainfall or synoptic scale rainfall or strong winds (covective 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		
02/06/07		Synoptic scale rainfall	Toamasina	54.1		2	RSMC UM-SA 12, ECMWF, Met-Office NCEP	2 4 3 3	Not issued	No
28/07/07		Synoptic scale rainfall	Sainte Marie	88.7		3	RSMC UM-SA 12, ECMWF, Met-Office NCEP	3 4 3 3	Not issued	No
06/08/07		Synoptic scale rainfall	Toamasina	67.8		3	RSMC UM-SA 12, ECMWF, Met-Office NCEP	3 4 3 3	Not issued	No
10/08/07		Synoptic scale rainfall	Toamasina	65.0		2	RSMC UM-SA 12, ECMWF, Met-Office NCEP	2 4 3 3	Not issued	No