



# Development of Portable Verification Package

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4<sup>th</sup> International verification methods  
workshop, Helsinki, 8-10 June

**Sponsored by WMO**

Mainmenu

View Data

Plot Data

old version

OBS Against <input checked="" type="radio"/> DMO <input type="radio"/> MOS	MType 28	Sattions 40437 40582 40650 40875 41024 41030 41150 41170 41184	Variable type <input checked="" type="radio"/> Continuous <input type="radio"/> Categorical <input type="checkbox"/> Same Query	Variable List T_2M TD_2M TMAX_2M TMIN_2M FF_10M DD_10M PS	STAT Type Hit_Rate Bias RMSE	Y 2008 2009 2010 2011 2012 2013 2014 2015	M 05 06 07 08 09 10 11 12	Obs 00 03 06 09 12 15 18 21	Selected Y/M 200901_00 200902_00 200812_00	FRange 00 12 24 36 48
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Verify

Verification Log:

Clear Log

print log

```

*****
Verification of the OBSERVATIONS against DMO using the BEST REPRESENTATIVE SCHEME
Model Type:28
Station With Hite difference < 100 m
Station List: 41024,41030,41150,
Variable Type: Continus Variable, Variable Name: T_2M
Statistic Type: RMSE
Year List: 2001,
Months List: 01,02,12,
OBS time:00 UTC
Forecast Range: 24 h
First Guess Quality Check is Enabled
*****

STARTING Verify_Click START PUTING DATA INTO OBS_FCT ARRAY AND grid_xy

STARTING RMSE SCORE
Sum (FCT-OBS)^2 for Month( 1)= 0, Number of Cases : 0
RMSE for month ( 1) Can't be calculated, Number of cases=0
Sum (FCT-OBS)^2 for Month( 2)= 0, Number of Cases : 0
  
```

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OBS Against

 DMO  
 MOS

MType

28

Height Diff.

 < 100m  
 >= 100m

Sattions

40437  
40582  
40650  
40875  
41024  
41030  
41150  
41170  
41184

Variable type

 Continuous  
 **Categorical**  
 Same Query

Variable List

Categorical Variables

CLCL

< 0

And

< 0

STAT Type

Y M Obs

Hit Rate	2001	01	00
POD	2002	02	03
FAR	2003	03	06
TS	2004	04	09
FB	2005	05	12
HSS	2006	06	15
	2007	07	18
	2008	08	21

Selected Y/M

FRange

200901_00	00
200902_00	12
200812_00	24
	36
	48

Verify

Verification Log:   print log

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<b>OBS Against</b> <input checked="" type="radio"/> DMO <input type="radio"/> MOS	<b>MType</b> 28	<b>Sattions</b> 40437 40582 40650 40875 41024 41030 41150 41170 41184	<b>Variable type</b> <input type="radio"/> Continuous <input checked="" type="radio"/> <b>Categorical</b> <input type="checkbox"/> Same Query	<b>Variable List</b> Categorical Variables CLCL < 0 And < 0	<b>STAT Type</b> Hit Rate POD FAR TS FB HSS	<b>Y</b> 2001 2002 2003 2004 2005 2006 2007 2008	<b>M</b> 01 02 03 04 05 06 07 08	<b>Obs</b> 00 03 06 09 12 15 18 21	<b>Selected Y/M</b> 200901_00 200902_00 200812_00	<b>FRange</b> 00 12 24 36 48
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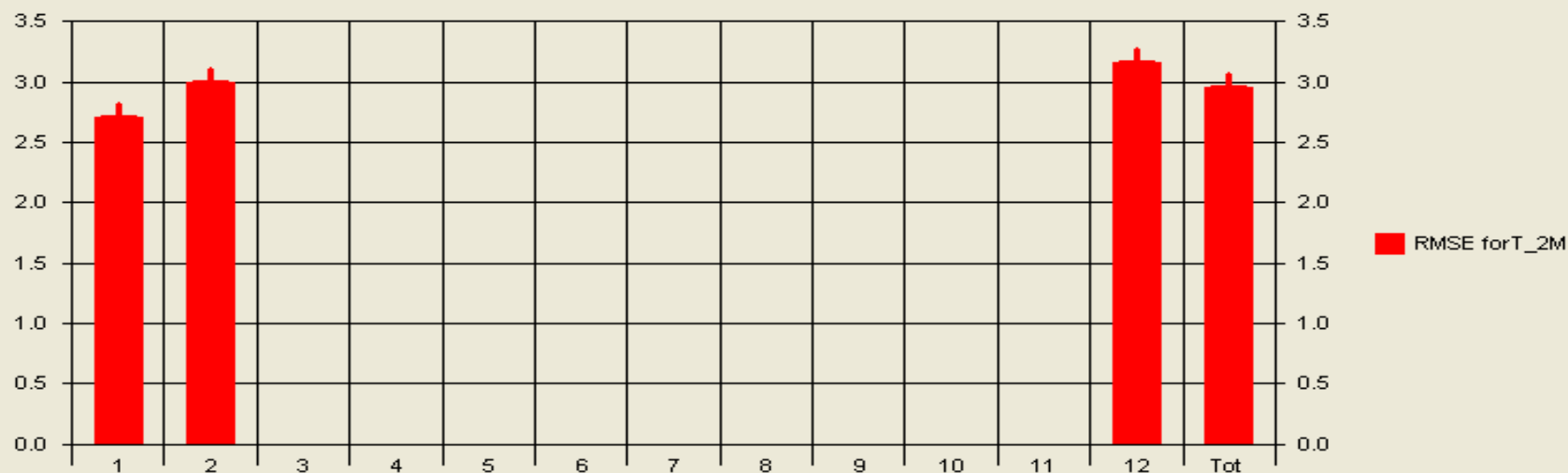


Verification Log:

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print log

RMSE Score for 00UTC OBS, and FRange:24 For 2008, Mtype=28(OBS x DMO)



Stations List: 41024,41030,41150,



Mainmenu



View Data



Plot Data

## Table Viewer

FCT  Select Model  Select Date   
 Select Run   More FCT Search Options

More FCT Options

 Colsest Grid  Surrounding Grids

 Station  FRange 

Print Grid to Excel



Search

Records 

FDate	FRange	Mtype	Mrun	T_2m	TMAX_2t	TMIN_2n	TD_2m	PS	FF_10M	DD_10M	TOT_PRCF	CLCL	X	Y
2009060100	0	28	0	28.77	NULL	NULL	0.69	1006.5	5.82	303	NULL	0	40	71
2009060100	24	28	0	27.24	NULL	NULL	1.09	1006.26	3.88	309	0	0	40	71
2009060100	48	28	0	26.7	NULL	NULL	4.35	1005.57	3.88	309	0	0	40	71
2009060100	72	28	0	26.5	NULL	NULL	2.38	1004.87	3.88	289	0	0	40	71
2009060103	3	28	0	26.63	NULL	NULL	0.9	1006.76	1.94	344	NULL	0	40	71
2009060103	27	28	0	25.88	NULL	NULL	-1.04	1006.65	3.88	303	NULL	0	40	71
2009060103	51	28	0	25	NULL	NULL	1.45	1005.36	3.88	300	NULL	0	40	71
2009060103	75	28	0	24.38	NULL	NULL	-0.72	1005.49	3.88	300	NULL	0	40	71
2009060106	6	28	0	32.8	NULL	26.61	1.52	1007.13	1.94	102	NULL	0	40	71
2009060106	30	28	0	32.64	NULL	25.87	0.55	1006.51	1.94	48	NULL	0	40	71
2009060106	54	28	0	31.78	NULL	25	2.3	1004.88	3.88	292	NULL	0	40	71
2009060106	78	28	0	30.95	NULL	24.35	0.39	1006.14	1.94	348	NULL	0	40	71
2009060109	9	28	0	39.64	NULL	NULL	-6.62	1005.33	1.94	314	NULL	0	40	71
2009060109	33	28	0	39.84	NULL	NULL	-5.03	1004.36	1.94	316	NULL	0	40	71
2009060109	57	28	0	39.37	NULL	NULL	-1.74	1003.24	3.88	288	NULL	0	40	71
2009060112	12	28	0	42.21	NULL	NULL	-4.78	1003.26	7.76	275	NULL	0	40	71
2009060112	36	28	0	42.83	NULL	NULL	-4.34	1002.17	5.82	274	NULL	0	40	71
2009060112	60	28	0	42.35	NULL	NULL	-2.94	1001.2	7.76	289	NULL	0	40	71
2009060115	15	28	0	39.29	NULL	NULL	-1.01	1002.96	9.7	260	NULL	0	40	71
2009060115	39	28	0	39.99	NULL	NULL	-0.96	1001.92	7.76	265	NULL	0	40	71
2009060115	63	28	0	39.62	NULL	NULL	-1.01	1001.32	7.76	296	NULL	0	40	71
2009060118	18	28	0	31.37	42.21	NULL	3.08	1005.06	5.82	247	NULL	0	40	71
2009060118	42	28	0	31.91	42.83	NULL	7.8	1004.31	5.82	254	NULL	0	40	71
2009060118	66	28	0	31.62	42.35	NULL	1.23	1004.04	5.82	278	NULL	0	40	71



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2009060100	48	28	0	26.7	NULL	NULL	4.35	1005.57	3.88	309	0	0	40	71
2009060100	72	28	0	26.5	NULL	NULL	2.38	1004.87	3.88	289	0	0	40	71
2009060103	3	28	0	26.63	NULL	NULL	0.9	1006.76	1.94	344	NULL	0	40	71
2009060103	27	28	0	25.88	NULL	NULL	-1.04	1006.65	3.88	303	NULL	0	40	71
2009060103	51	28	0	25	NULL	NULL	1.45	1005.36	3.88	300	NULL	0	40	71
2009060103	75	28	0	24.38	NULL	NULL	-0.72	1005.49	3.88	300	NULL	0	40	71
2009060106	6	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060106	30	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060106	54	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060106	78	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060109	9	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060109	33	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060109	57	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060112	12	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060112	36	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060112	60	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060115	15	28	0	28.8	NULL	NULL	1.58	1007.18	1.94	188	NULL	0	40	71
2009060115	39	28	0	39.99	NULL	NULL	-0.96	1001.92	7.76	265	NULL	0	40	71
2009060115	63	28	0	39.62	NULL	NULL	-1.01	1001.32	7.76	296	NULL	0	40	71
2009060118	18	28	0	31.37	42.21	NULL	3.08	1005.06	5.82	247	NULL	0	40	71
2009060118	42	28	0	31.91	42.83	NULL	7.8	1004.31	5.82	254	NULL	0	40	71
2009060118	66	28	0	31.62	42.35	NULL	1.23	1004.04	5.82	278	NULL	0	40	71

- Use of Relational Database.
- friendly GUI
- Calculate many Statistics
- Recent Development: Wind Speed/Direction verification