

# Monitoring WRF quick ref.

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## (A) – Before 8.45 am

On telegram "WRF Messages" we can receive one of the following messages (\$DP: production date as YYYYMMDD):

- ✔ Il 16° dei venti di oggi (\$DP) è andato!
- ✖ Il 16° dei venti di oggi (\$DP) ci ha lasciati! La cosa è grave

In case of error see **Recover A**.

## (Recover A) – Before 10 am

1. Open **Luigi** and check the process WindToENI, to get information from the red bullets.
2. Connect to Athena:

```
$ ssh gofs@athena01.cmcc.scc
```

3. Check that files \${area}\_1.16.XXX.grib are present:

```
$ area="Angola Arctic Australia Britain  
Caribbean Caspian.Sea China.Sea Guinea  
Gulf.Mex Med. Central Med. East Med. West  
Mozambique Red. Sea OMANXX"  
$ for i in ${area}; do echo ${i}; ls /work/  
tessa_gpfs2/wrf/output/${i}_1.16_*.grib  
| wc -l; done
```

Two options:

- ✔ Files are 157 for every region
- ✖ One or more regions have less than 157 files

In case of error see **Recover B** and **Recover C**.

## (Recover B) – Before 10 am

Check which regions are incomplete:

- If **Red sea** or **Arctic**: since this data is produced by the Greeks, we can immediately send the email (see below)
- Else, the problem is on our side. Before sending the email, check that the problem is not due to available space! Check with `df -h` on `das@oceanos.cmcc.scc`. At least 3.5 TB should be available. Otherwise, **we don't send the email**.

Write an email to ENI.ATM ✉:

**Oggetto:** [eni\_atm] [WRF] lack of some outputs

**Testo:**

Dear all,

this mail is to inform you that into the folder of WRF today's production (/work/tessa\_gpfs2/wrf/output/) there were some missing outputs:

– *list of missing outputs*

Could you please check the encountered issues and provide a description of them for internal tracking purposes?

Thanks a lot.

Best Regards

## (Recover C) – Before 11 am

When files are missing, we have to provide our backup data. So:

1. Open **Luigi** and go to **Workers**, then kill the process SubmitWindToEni (generally shown at the end of the page)
2. Connect to Athena and kill job EniWnd16:

```
$ ssh gofs@athena01.cmcc.scc  
$ bkill -J EniWnd16
```

3. Check that backup files are present (DP is set to yesterday):

```
$ DP=YYYYMMDD  
$ area="Angola Arctic Australia Britain  
Caribbean Caspian.Sea South.China Guinea  
Gulf.Mex Med. Central Med. East Med. West  
Mozambique Red. Sea OMANXX"  
$ for i in ${area}; do echo ${i}; ls /work/  
tessa_gpfs2/archive/rolling/raw/atmos/  
NCEP/GFS025/1.0 forecast/6h/${DP}/backup/  
${i}_1.16_*.grib | wc -l; done
```

After the last command, we have two options:

- ✔ Files are 121 for every region
- ✖ One or more regions have less than 121 files

If no error occurred, then:

```
$ cd /users/home/gofs/wrf  
$ nohup runEniWindBKP.sh &
```

In case of error see **Recover D**.

## (Recover D) – Before 11 am

If backup files are also missing:

1. Connect to zeus:

```
$ ssh das@oceanos.cmcc.scc
```

2. Run:

```
$ sh /users/home/tessa_gpfs1/das/NCEP/post-  
proc/script/copy/process_ENI_good.sh
```

then, go back to **Recover C**, point 3.

## (E) – Before 11.30 am

Disable upload if files are missing:

- Connect to zeus and open crontab:

```
$ ssh gofs@zeus01.cmcc.scc  
$ EDITOR=nano crontab -e
```

- Comment the following line:

```
30 11 * * * /users_home/opa/gofs/gofs_op/..
```

**NOTE:** please remember to uncomment it after 11.30!