

Monitoring GOFS quick ref.

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(A.1) – At 9 am

🔍 Check that:

- we received message: "YYYYMMDD – ZEUS Ocean products successfully produced and ready for the upload to ENI ftp"

✔ Message present! – Go on with the next step...

✖ **Message missing!** – probably Athena is down!

📌 This check is for hourly data, files that must be sent to ENI. These files can be found on Zeus, under the path /work/opa/gofs/products/GlobEni.

(A.2) – At 9 am

✉ Check that:

1. we received the email with topic "[ZEUS GOFS-OP][YYYYMMDD]" that communicates the end of the production;

✔ Email present! – We can go on with the next step...

✖ **Email missing!** – probably Athena is down!

2. the size of data produced is coherent with the expected size (both are reported in the email).

✔ Sizes are coherent with the expectations.

✖ **Sizes are incoherent.** What to do?

📌 This check is for daily data, less critical than A.1.

(A.3) – At 9 am

✉ Check that:

1. we received an email for each of the file produced. Topic of these emails should be "[ZEUS-GOFS-OP][YYYYMMDD]NEMO Completed";

✔ 8 emails are present!


✖ **At least an email is missing!** What to do?

2. in each message check that the elapsed time is ≈ 1600 s.

✔ Every time interval is close to 1600 s.

✖ **At least one is noticeably smaller/higher!** What to do?

(B) – At 9 am

Fill the **Google Drive**  row of the current day, reporting:

- col. C: Who is carrying out the monitoring operations.
- col. D: If the production ended successfully (✔) or not (✖).
- col. E: Comments about issues (if any).
- col. F: Causes of the issues (if known).
- col. H: Start/end of regional files.

col. I: Clean of regional files.

col. J: Comments on regional data.

col. K: General comments.

Note 1: if we used NOAA backup data, report "NOAA Backup" in column E. We are using backup data, if yesterday around 8 pm we received an email with topic "[eni_oce][YYYYMMDD]: NOAA backup data available" (date of yesterday). Instead, original data (i.e. non-backup) is available if we received "[eni_oce][YYYYMMDD]: NOAA original data available for GOFS production".

Note 2: report WRF Backup in column E if we invoked the backup procedure. Adding comments in column F would be great.

(D) – 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!

(E) – Around 11.50 am

🔍 Check if upload ended successfully. If we received a Telegram message with: "PD=YYYYMMDD – ENI-OCEAN PRODS PROCESS EXECUTED.", everything is alright.

✔ Received – Put ✔ in col. G of the **Google Drive**  doc.

✖ **Not received** – Put ✖ in col. G of the **Google Drive**  document.

Final remarks

- Telegram messages contains more information than emails. Nonetheless, these systems are complementary to each other.
- Important information about errors can be found on Zeus, under /work/opa/gofs/gofs_working/logs/YYYYMMDD/
- Outcome of the elaboration is in /data/products/GOFS. Folder globEni_Zeus contains data that should be transferred to ENI. globNative_Zeus contains daily data written by NEMO. globWeb contains file related to the rebuild of hourly data.
- More information is available in the **GOFS16 Simplified Manual** 