# Monitoring GOFS quick ref.

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## (A.0) – At 8 pm

Check (✉) that input data is available through the emails:

- `[eni_oce] [YYYYMMDD-Zeus]: NCEP original data available for GOFS production`
- `[eni_oce] [YYYYMMDD]: NOAA original data available for GOFS production` (around 6.30 pm daylight saving time or 7.pm solar time).

  - ✅ Message present! – the workflow can start...
  - ❌ **Message missing!** – *a bakcup procedure will start. We will receive around 8 pm an email with subject:* `"[eni_oce] [YYYYMMDD]: NOAA backup data available"` *(date of yesteday).*

## (A.1) – At 8.30 pm

Check (✉) that production is started through the email with topic: `"[ZEUS-GOFS-OP][YYYYMMDD]"` or (✈) with the message `"GOFS-ZEUS production cycle for YYYYMMDD is going to start ..."`.

- ✅ Message/email present! – the workflow has started!...
- ❌ **Message/email missing!** – Production hasn't started! What to do?

## (A.2) – At 10 pm

Check (✈) that production is proceeding with: *"ZEUS-NEMO run for YYYYMMDD has been completed in X secs"*. Email (✉) with topic `"[ZEUS-GOFS-OP][YYYYMMDD]NEMO Completed"` should also arrive.

- ✅ Message/email present! – Let's go out to celebrate!
- ❌ **Message/email missing!** – Problems! What to do?

## (B.0) – 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!

ℹ *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`.

## (B.1) – 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?

ℹ *This check is for daily data, less critical than B.0.*

## (B.2) – 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 $\approx$ 1600 s.

   - ✅ Every time interval is close to 1600 s.
   - ❌ **At least one is noticeably smaller/higher!** What to do?

## (C) – 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 (see box A.0), report "NOAA Backup" in column E.

**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 allright.

- ✅ Received – Put ✔ in col. G of the **Google Drive** doc.
- ❌ **Not received** – Put ✖ in col. G of the **Google Drive** document.

**Last update:** September 22, 2020