



Status of the GLAMEPS SMS scripts system

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The GLAMEPS SMS suite

General characteristics

- purpose: **launch** and **monitor** components of a GLAMEPS cycle
- configured for **2 cycles** each day (currently 00 and 12 UTC)
- linked to **time-critical** processes and **cron**-jobs at ECMWF
- different operation modes:
 - **production**
 - **development**
- **communication structure** for external access, and to facilitate distributed runs (**remote command set**)
- components to be **independent** of ECFS or MARS access (not 100% currently)



The GLAMEPS SMS suite

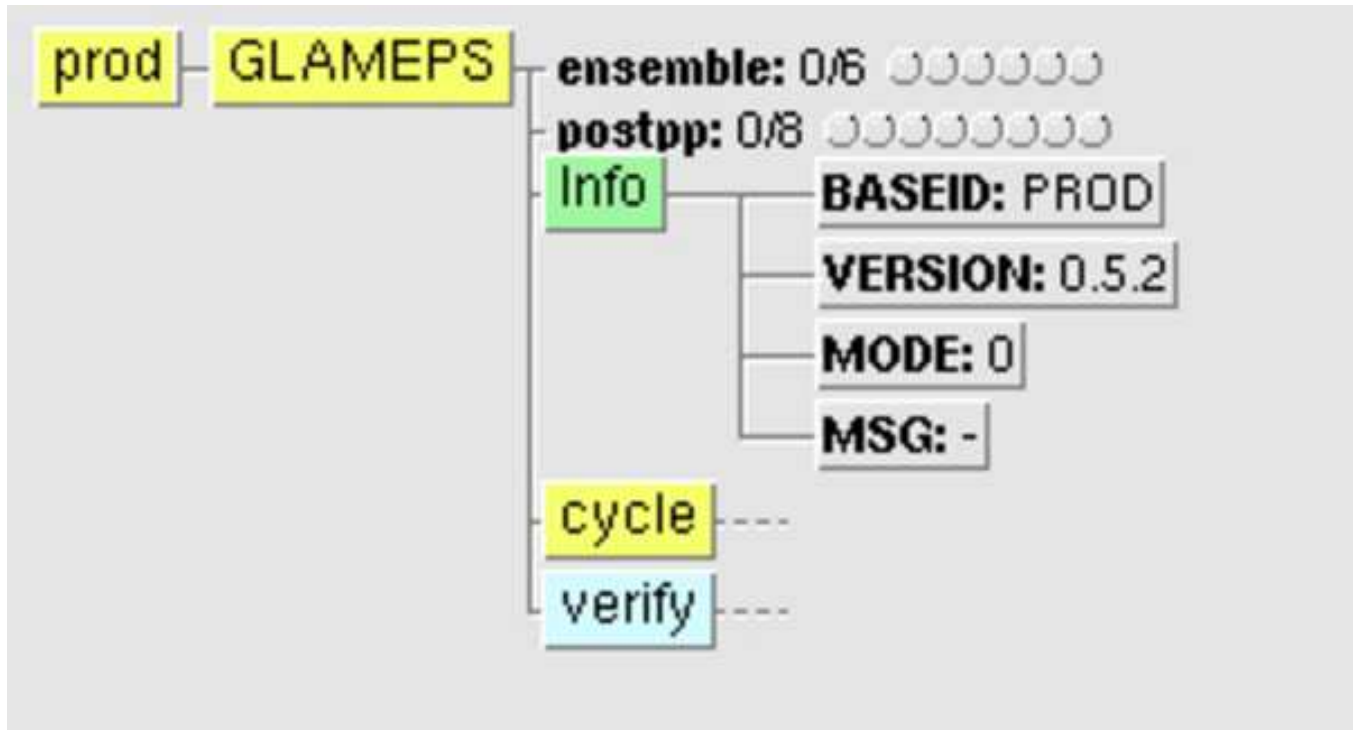
Components

- models in the current GLAMEPS system
 - EuroTEPS/EC-EPS (serves also as boundary model)
 - Aladin
 - Hirlam K
 - Hirlam S
- remote centre framework to facilitate distributed runs (in design phase)
- post-processing and product generation – Hppv
- ensemble calibration, e.g. BMA (to be included)
- distribution of products
 - <https://hirlam.org/portal/GLAMEPS/Products/GI.PROD.m52/index.html>
 - packed ZIP file
- verification Hppv/R-package (to be included)



The GLAMEPS SMS suite

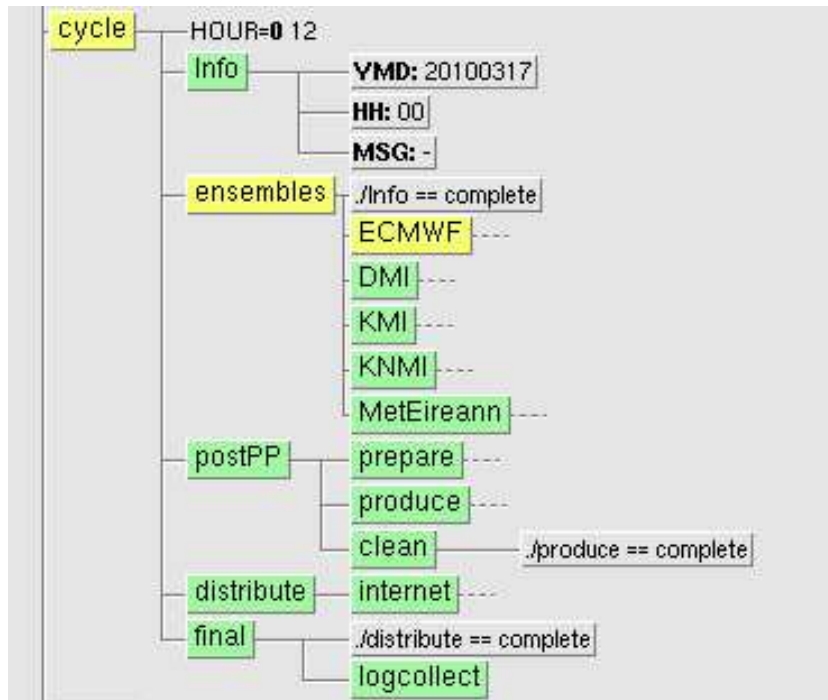
General information on the suite setup





The GLAMEPS SMS suite

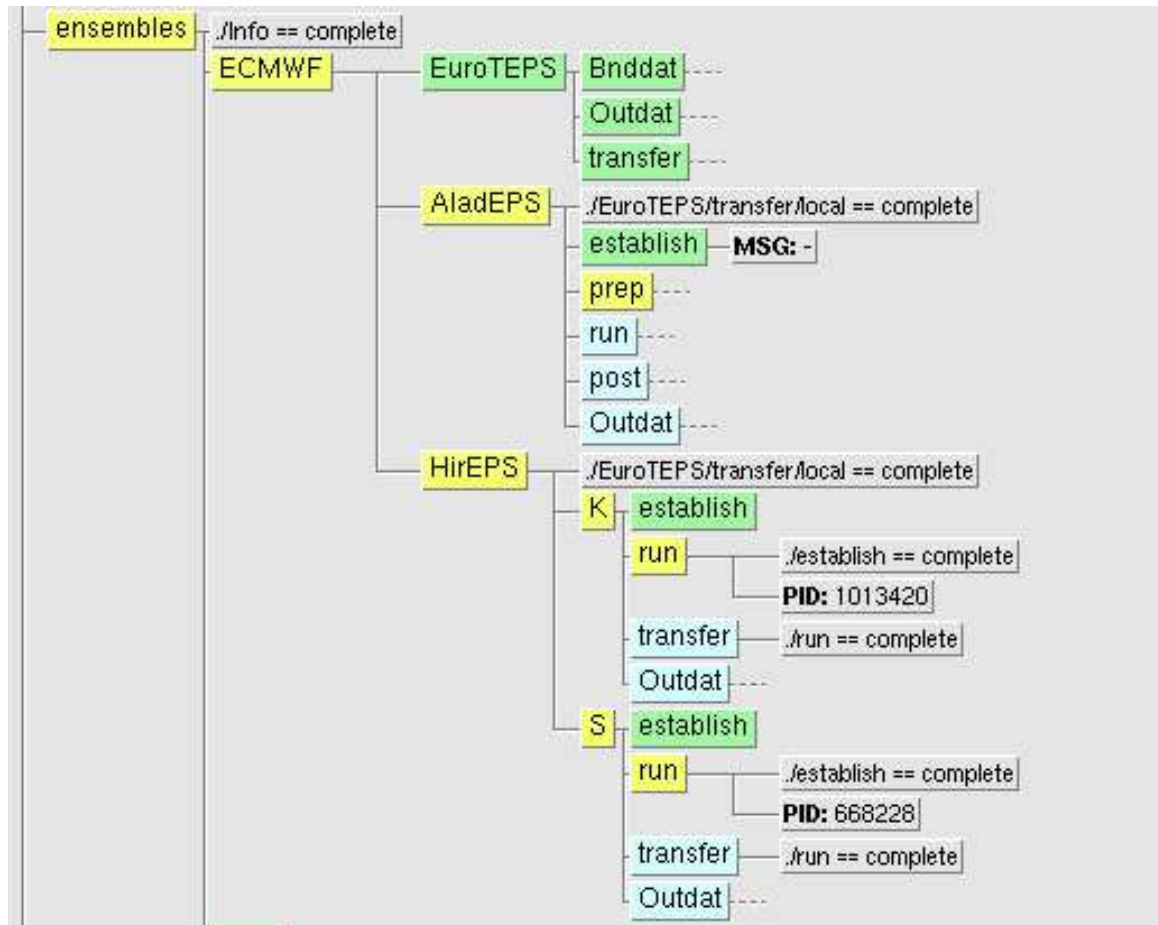
The cycle family





The GLAMEPS SMS suite

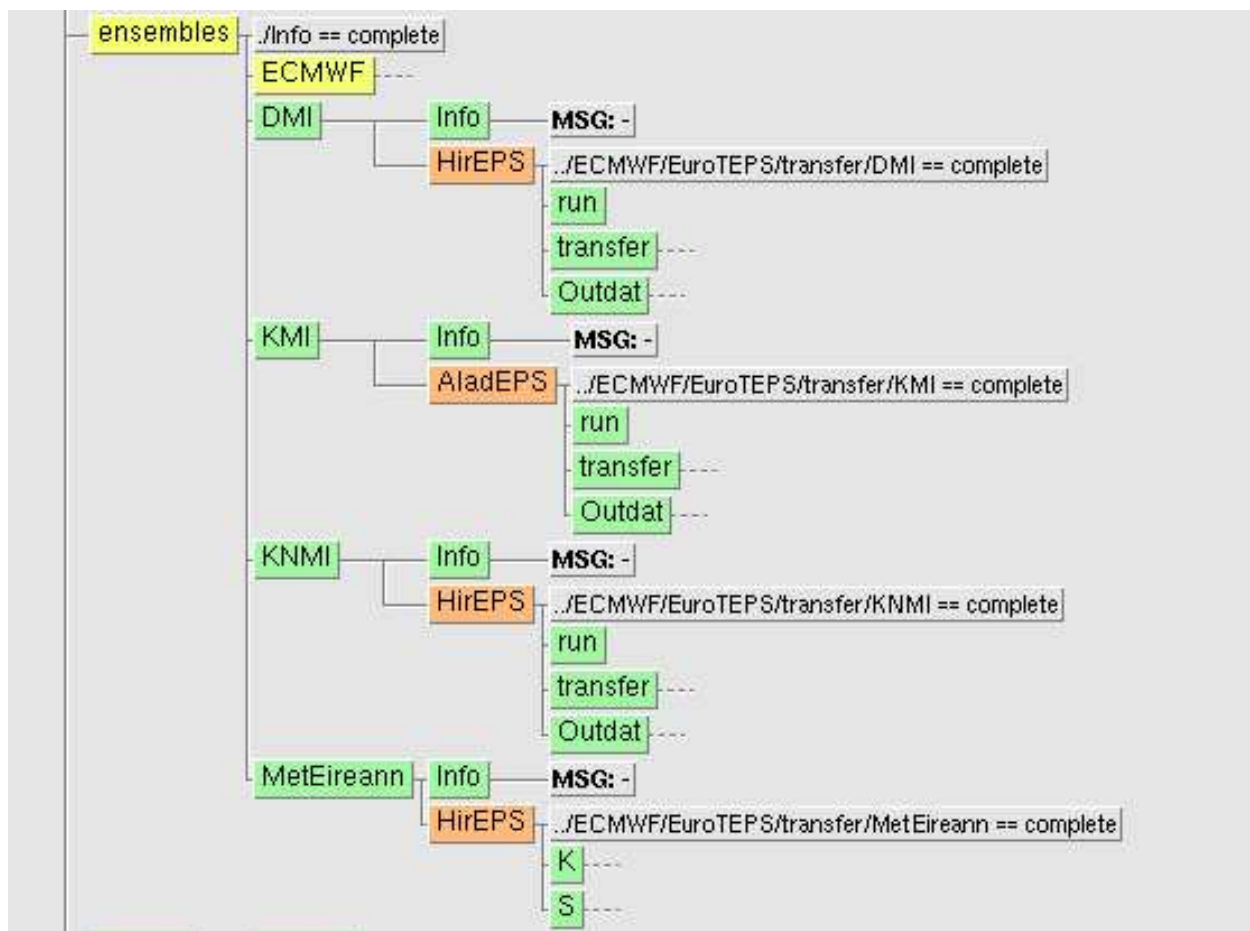
EPS model families





The GLAMEPS SMS suite

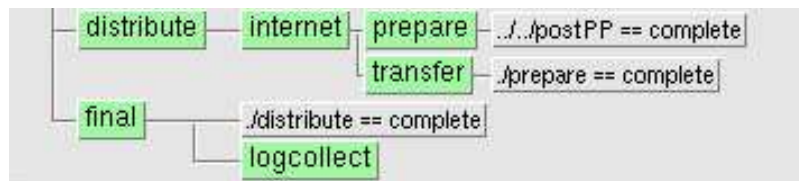
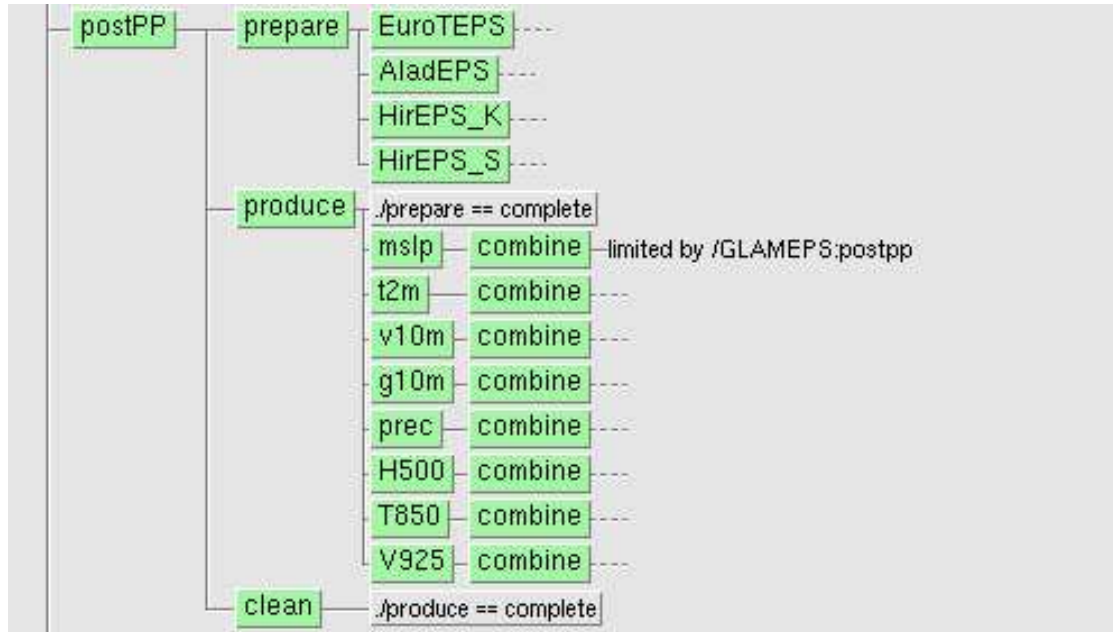
Remote EPS model families (draft!)





The GLAMEPS SMS suite

Post processing, product generation (Hppv) and distribution





The GLAMEPS SMS suite

ongoing and future changes or extensions

- change time **cycling** (from 0/12 to 06/18)
- a **suite definition template** for **remote centre** runs of EPS members
- **backups** (maybe within an extra suite)
 - **initial** data (obs, ARPEGE)
 - **boundary** data (Modlev, Surlev)
 - **output** data (Outdat)
- feasibility?**
- documentation and **manual pages**
- **verification** family
 - Hppv (Carlos Santos)
 - R-based package (Alex Deckmyn)
- ensemble **calibration**
 - BMA or alternatives (John Bjørnar Bremnes)



GLAMEPS SMS daily test production

setup

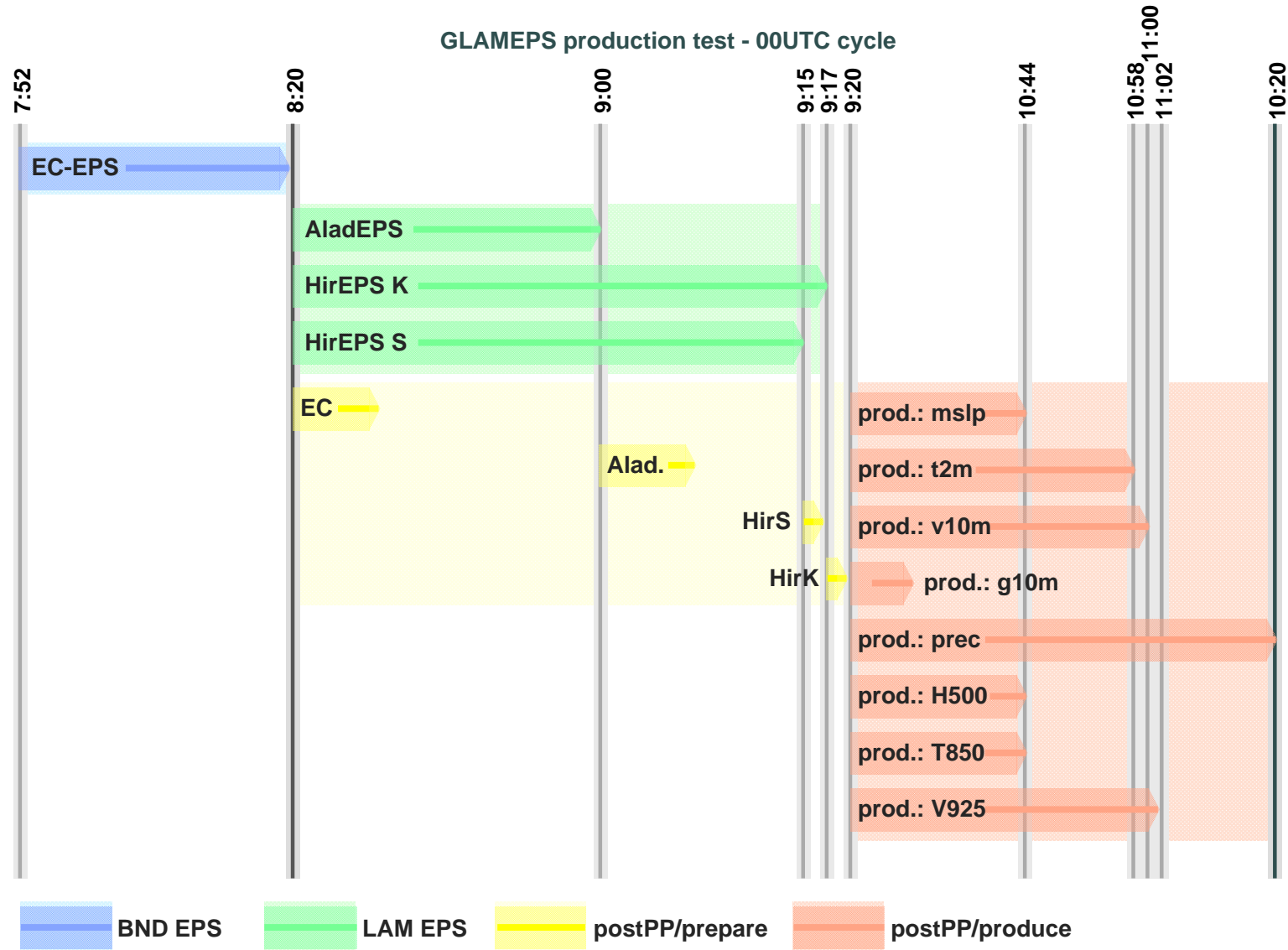
- currently **ECMWF-EPS** is boundary model (EuroTEPS not yet available)
- uses **time-critical** signals from ECMWF-EPS to launch a cycle
- first daily tests **launched** at 2010-02-11
- running in **real-time** from 2010-03-01 on
- products on **Hirlam** web page
<https://hirlam.org/portal/GLAMEPS/Products/GI.PROD.m52/index.html>
- several **major problems** since 2010-03-05
 - Hppv failure due to METVIEW
 - AladEPS fails in case of missing ARPEGE analysis data

daily test runs got stuck after only 5 days!



GLAMEPS SMS daily test production

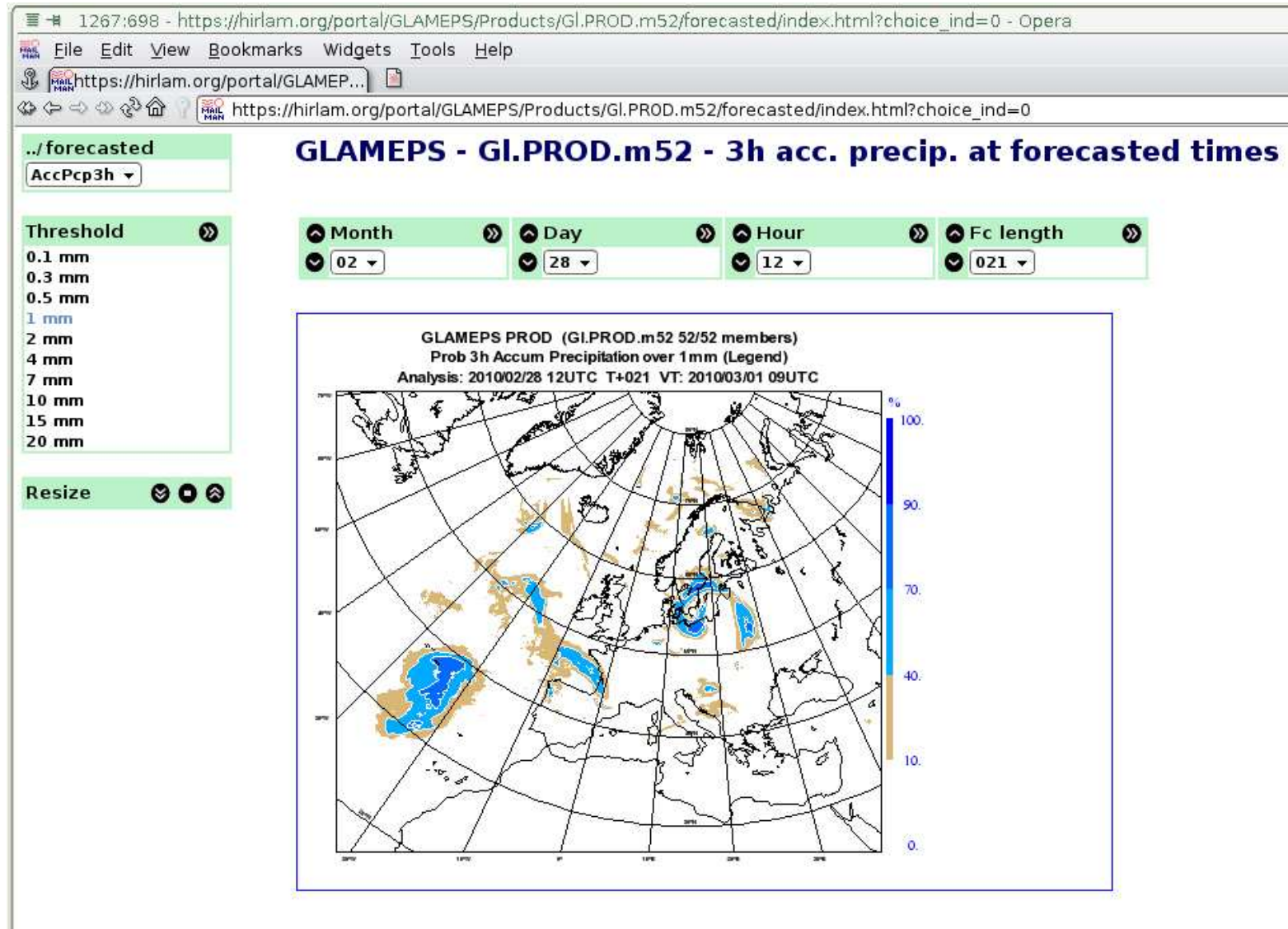
Timings of current daily test cycle





GLAMEPS SMS daily test production

Products on the internet





GLAMEPS SMS daily test production

Products on the internet

