Release Notes for SAFNWC/PPS version 2014-patch20160525
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25 May 2016   .

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0) About this release
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This is release v2014-patch20160525 of the SAFNWC/PPS
software package.

Alternative 1

It contains two packages:
     - pps_nwp_v2014_incl_patch20160525.tar
     - acpg_v2014_patch20160525.patch
It is supposed to be installed on top of:
PPS v2014-patch20151201. But pps_nwp replaces its old version.

Alternative 2

An alternative is to obtain the whole acpg, including the
patch. There are two packages:
     - pps_nwp_v2014_incl_patch20160525.tar
     - acpg_v2014_incl_patch_20160525.tar
It is supposed to replace any earlier installation of
pps_nwp and acpg.
It is to be used together with PPS v2014-patch20151201, in
terms of the other PPS packages (ahamap, cpp).

PPS v2014-patch20160525 is not delivered as binaries.

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1) Why you should care!
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This patch is relevant:
* if you use OSISAF icemaps
or:
* if you use NWP-data on pressure levels; where your levels
  differ from the levels PPS prefer.

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2) Description of PPS v2014-patch20160525
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There are two main changes:
 icemaps (acpg)
 nwp-data (pps_nwp)

Icemaps

The OSISAF ice concentration maps, delivered by the EUMETCast
service will change name, in early June 2016. (The old
product will be discontinued June 8.)

Old names:
    S-OSI_-NOR_-MULT-GL_NH_CONC__-201605231200Z.grb.gz
New names:
    S-OSI_-DMI_-MULT-GL_NH_CONC__-201605231200Z.grb.gz

The purpose of this PPS-patch is to handle this change.

Is is now configurable which of these names you want PPS to
ingest. In pps_basic_configure.py there is a new parameter:
ICEMAP_NAME_PREFIX. Default setting is the new name type:
    ICEMAP_NAME_PREFIX = "S-OSI_-DMI_-MULT-GL"
You can chose the old name type:
    ICEMAP_NAME_PREFIX = "S-OSI_-NOR_-MULT-GL"
You can as well chose a setting to accept both name types:
    ICEMAP_NAME_PREFIX = "S-OSI*MULT-GL"

PPS can also handle icemaps from the OSISAF archive, with
names like: ice_conc_nh_polstere-100_multi_201605231200.nc or
ice_conc_nh_201605231200.grb. That functionallity is not
changed by this patch.

PPS can, as usual, also run without any icemap as indata.

nwp-data

There is a bug in pps_nwp v2014-patch201512101, which now has
been corrected. The bug occurs if PPS ingests NWP-files with
data on pressure levels, and where the pressure levels are
others than those that PPS prefers (500, 700, 850 and
950 hPa).

For other types of NWP-data, this patch will make no
difference.

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3) Installation
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Alternative 1

If you use the patch package:

> gunzip pps_v2014_patch20160525.tar.gz

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```
> tar xvf pps_v2014_patch20160525.tar

> tar xvf pps_nwp_v2014_incl_patch20160525.tar

> cd acpg_v2014
> patch -p1 < path_to_the_patch/acpg_v2014_patch20160525.patch
```

Unpacking pps_nwp creates the dir.: pps_nwp-0.4.10-8-g34ff

Afterwards, install pps_nwp and reinstall acpg, see
Installation_Notes_PPS_v2014_patch20150327.pdf.

Alternative 2

If you use the package with a full acpg distribution:

```
> gunzip pps_v2014_incl_patch20160525.tar.gz
> tar xvf pps_v2014_incl_patch20160525.tar

> tar xvf pps_nwp_v2014_incl_patch20160525.tar

> tar xvf acpg_v2014_incl_patch20160525.tar
```

Unpacking pps_nwp creates the dir.: pps_nwp-0.4.10-8-g34ff
Unpacking acpg creates the directory: acpg_v2014

Afterwards, install pps_nwp and acpg, see
Installation_Notes_PPS_v2014_patch20150327.pdf.

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4) Documentation
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A few the documents (SW/UM/2 and SW/ICD/1) have been updated
for v2014-patch20160525. You will find the most recent
versions on the NWCSAF Help Desk.

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