

release_note_2010_patch2.txt

Release notes for SAFNWC/PPS version 2010-patch2

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0) About this patch

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This is patch n:o 2 for version 2010 of the SAFNWC/PPS software package. It contains two sub-packages packed in the following two tar-balls (versioning of the individual packages are CVS-release tags):

- ahamap-pps-2010-patches_r3.patch.gz
- acpg-pps-2010-patches_r7.patch.gz

Patch n:o 1 is supposed to be applied before this patch is applied.

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1) Summary of main changes since version 2010-patch1

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- Corrected a few bugs, valuable for the GAC-processing.
- Corrected a few bugs, concerning re-mapping functionality.

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2) Why you should care!

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If you do global processing of GAC-data (like CMSAF), this patch is needed to get correct results.

If you have experienced problems while doing re-mapping, this patch might help you.

For other users: This patch would have minimal impact on other types of processing.

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3) Unpacking, building and installing the AHAMAP package - quick

guide

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Download the patch and unpack it:

> gunzip ahamap-pps-2010-patches_r3.patch.gz

There are three options for applying patches depending on your starting point.

- A) If you have PPSv2010 with patch1 applied:
 - Go to where you have the source code.
 - >cd ahamap
 - >patch -p1 < /path/to/ahamap-pps-2010-patches_r3.patch

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B) If you have PPSv2010, but with no patches applied:
You need to apply `_first_patch1` and `_then_patch2`.

```
Go to where you have the source code.
>cd ahamap
>patch -p1 < /path/to/ahamap-pps-2010-patches_r2.patch
>patch -p1 < /path/to/ahamap-pps-2010-patches_r3.patch
```

C) If you do not have PPSv2010 yet:

Go to a place where you want to keep the source code, unpack v2010, then apply `_first_patch1` and `_then_patch2`.

```
> tar xvfz ahamap-r1_61.tgz
> cd ahamap-r1_61
> patch -p1 < /path/to/ahamap-pps-2010-patches_r2.patch
> patch -p1 < /path/to/ahamap-pps-2010-patches_r3.patch
```

Build and install the AHAMAP package: (No news for patch2)

Ex. (configure command in one line):

```
> ./configure --prefix=/local_disk/opt/AHAMAP/v2010-patch2
--with-proj=/opt/PROJ4/current/include,/opt/PROJ4/current/lib --with-python=yes
--with-aapp=/localdisk/opt/AAPP/6_12
--with-numpy=/usr/lib64/python2.5/site-packages/numpy/core/include/numpy
> make
> make check
> make install
```

It is recommended that you use AAPP of version 6.6 or later. Earlier it has been recommended to configure without AAPP, but now it is recommended to use AAPP. It is a necessity if you want PPS to run on global Metop!

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4) Unpacking, building and installing the ACPG package - quick guide
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Download the patch and unpack it:

```
> gunzip acpg-pps-2010-patches_r7.patch.gz
```

There are three options for applying patches depending on your starting point.

A) If you have PPSv2010 with patch1 applied:

```
Go to where you have the source code.
>cd acpg
>patch -p1 < /path/to/acpg-pps-2010-patches_r7.patch
```

B) If you have PPSv2010, but with no patches applied:

```
You need to apply _first_patch1 and _then_patch2.
Go to where you have the source code.
>cd acpg
>patch -p1 < /path/to/acpg-pps-2010-patches_r4.patch
>patch -p1 < /path/to/acpg-pps-2010-patches_r7.patch
```

C) If you do not have PPSv2010 yet:

Go to a place where you want to keep the source code, unpack v2010, then apply `_first_patch1` and `_then_patch2`.

```
> tar xvfz acpg-r2_32.tgz
> cd acpg-r2_32
> patch -p1 < /path/to/acpg-pps-2010-patches_r4.patch
> patch -p1 < /path/to/acpg-pps-2010-patches_r7.patch
```

Build and install the ACPG package: (No news for patch2)

Ex. (configure command in one line):

```
> ./configure --prefix=/local_disk/opt/ACPG/v2010-patch2
--with-proj=/usr/local/include,/usr/local/lib
--with-ahamap=/local_disk/opt/AHAMAP/v2010-patch1
```

```
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--with-hlhdf=/local_disk/opt/HLHDF/0_79
--with-grib_api=/local_disk/opt/GRIB_API/1_8_0
--with-aapp=/local_disk/opt/AAPP/6_12 --with-rttov=/local_disk/opt/RTTOV9/9_3
--with-numpy=/usr/lib64/python2.5/site-packages/numpy/core/include/numpy
--datadir=/local_disk/data/pps --sysconfdir=/local_disk/data/www --with-gac=no
> make
> make check
> make install
> make install-data
> make install-www
```

For obtaining GAC-configurations set --with-gac=yes.

Please be aware that in earlier versions of PPS you would configure the use of AAPP like this: '--with-aapp=/local_disk/opt/AAPP/6_12/AAPP' Now the trailing 'AAPP' should be omitted!

Installation of course provides you have the necessary 3rd-party software installed. See the software users manual!

You need hdf5 version 1.8.1, or later.
You need hl-hdf version 0.79, or later

While running the configure command, the files source_me and .profile_pps are build, from the content of the configure command.

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5) Bug corrections and improvements to AHAMAP and ACPG since PPS version 2010-patch1
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See change history in a separate document available on Helpdesk: SW packages&patches - the PPS-document page.

See the also summary above (section 1), or consult the list of SPRs/SMRS at the NWCSAF Help Desk.

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6) Documentation
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There are no documents updated since version 2010-patch1.