

Next: [NAPS: NAncay Preprocessing Software](#)

This document is based on the on-line NAPS help file, written by P. Renaud. A manual (in french) is located in the folder `/home/renaud/naps/works` :

```
naps_userguide.doc    (Feb. 2007 version)
naps_userguide.pdf    ( " " " " )
```

- [NAPS Cookbook](#)
- [NAPS summary of commands](#)

The lines below date back to 2000. You should rather consider the above summary and cookbook pdf files, as in Feb. 2008.

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- [NAPS: NAncay Preprocessing Software \(written by Patrice Renaud\)](#)
 - [Definitions](#)
 - [What is NAPS doing ?](#)
 - [Commands summary \(with examples\)](#)
 - [SCAN \(observation number == raw data files\) selection](#)
 - [Data visualisation \(1D\)](#)
 - [2D Data display and processing](#)
 - [SCANs process](#)
 - [USING a MASK for estimating the TSYS](#)
 - [Suppress cycles/banks](#)
 - [Automatic removal of integrations](#)
 - [Automatic removal of 'bad' channels](#)
 - [Integration and creation of final spectra \(result files\)](#)
 - [Miscellaneous](#)
 - [About this document ...](#)

P. Colom, J-M. Martin - February 2002

P. Colom - March 2008

NAPS: NAncay Preprocessing Software (written by Patrice Renaud)

NRT autocorrelator data reduction, calibration, exportation in SIR and FITS formats. (Document prepared by Jean-Michel Martin & Pierre Colom (V1.0 2002/01/10 - LaTeX 27-FEB-2002)

This document is based on the on-line NAPS help file, written by P. Renaud. A manual (in french) is located in the folder `/home/renaud/naps/works` :

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 - [Automatic removal of 'bad' channels](#)
 - [Integration and creation of final spectra \(result files\)](#)
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P. Colom, J-M. Martin - February 2002

P. Colom - March 2008

MAIN NAPS (NANçay Pre-processing Software) COMMANDS

JMM, PC - 2007/10, 2008/02

1) Introduction

One observation (= one unique scan number) comprises one or several cycles.

One cycle is described by the map file, and most of the time it includes noise diode calibrations, one ON and one OFF phase, made of individual integrations, lasting between 1 and 32 sec.

Naps is intended to do:

- data calibration
- elimination of bad integrations, or more coarsely bad cycles
- averaging of integrations
- phase arithmetic; (ON-OFF)/OFF for example
- averaging cycles
- save (i.e. all correlator banks, or all filters) to SIR format (or FITS format, CLASS-compatible).

Calibration takes into account a correction factor to cope with mirrors inclination.

2) How to connect

The working machine is nrt.obs-nancay.fr

From telesto.obs-nancay.fr (local or NX users):

Type in the ASCII terminal:

Type: `ssh nrt -X -Y`

(same password as for telesto)

3) A short naps session

Then type `naps`

(wait for the prompt `NAPS>`)

`NAPS> set scan 113293`

the scan number of the file you want to look at and save after process.

`NAPS> proc scan`

`NAPS> show cycle n`

`NAPS> set result fits`

Selects only the FITS format output

`NAPS> save cycle`

each cycle is saved, much more fits file...

`NAPS> save`

`NAPS> exit`

Command	Explanation
set duic xxx	Sets the proper owner extension for file names. Should be automatically set for users'data.
set scan xxxxx	Select the data file to process set scan 110234-111444 takes all existing files set scan 110120 111440 111444 for specific files
show cycle x	Displays calibrated (ON-OFF)/OFF cycle number x
set dirdata	Changes raw data directory: set dirdata /data2/230/2007B/
set dirfits	Changes the FITS file directory: set dirfits /home/martin/fitsARP220
set result sir fits	Sets output file formats to fits plus Nançay sir (default: only sir format)
set result fits	Selects only the FITS output
proc scan	Calculates the rms in the bandpass for each cycle; takes clip and win into account
sup cycle x	Suppress cycle x manually
ena clip	Enables the clipping mode (if necessary): sets the clipping level to 50 (Jy, in default cal. Mode),
set clip 50	and does the clip on all banks
proc scan	
inte	Calculates the averaged of cal. (ON-OFF)/OFF
save	Same as inte, plus writes on disk
inte2d	Same as inte, plus interference elimination
save2d	Same as save, plus interference elimination
disp mode=x	2 dimension display of the data. See short manual
plot	Creates a PS file of the displayed data plot.
help	Displays the ascii help file (in french). Summary of all commands translated in the NRT support web site.
exit	Exit

Table 1. Short reminder of main commands.

One of the powerful tools of the NAPS software is the automatic channel elimination. The following commands disp mode=x displays the (flagged) data in time-frequency images.

Command	Explanation
disp mode=1	Displays all basic integrations (i.e. Spectra, including calibration data ; no phase arithmetics)
disp mode=2	Same, but flags channels which are polluted by interferences
disp mode=3	Displays basic integrations in (ON-OFF) mode. Polluted channels are flagged.
disp mode=4	Same + bottom 1-D plots displays cleaned spectra and the percentage of flagged data per channel
disp mode=5	Displays each cycle, after (ON-OFF) calculus.

Table 2. 2D display and bad channels elimination.

For more explanations, see short manual : naps_summary.tex (.pdf)

1 NAPS: NAncay Preprocessing Software (written by Patrice Renaud)

NRT autocorrelator data reduction, calibration, exportation in SIR and FITS formats. (Document prepared by Jean-Michel Martin & Pierre Colom (V2 2008/03/26 - LaTeX 26-MAR-2008)) This document is based on the on-line NAPS help file, written by P. Renaud. A manual (in french) is located in the folder `/home/renaud/naps/works` :

```
naps_userguide.doc    (Feb. 2007 version)
naps_userguide.pdf    (      "      "      )
```

1.1 Definitions

- **SCAN** : raw observation of a source.
Data written in `nnnXXXXX.UIC` files, with :
`nnn` backend type (nco, fil...)
`XXXXX` SCAN NUMBER
`UIC` TELESCOPE USER ID

A SCAN includes some headers and one or several CYCLES.

- **CYCLE** : Includes several PHASEs. A classical observation in position-switch mode would involve four phases :
 - one calibration phase (on source),
 - one ON source acquisition phase,
 - one calibration phase (off source),
 - one OFF source acquisition phase.Some peculiar telescope setup files may involve more phases.
Each PHASE is made of several INTEGRATIONS (1 2 4 8 16 or 32 sec).
Each INTEGRATION contains 2 to 8 spectra, as the receiver may observe up to 4 frequencies, 1 to 4 polarization parameters

1.1.1 What is NAPS doing ?

Shortly, once a SCAN is selected, the software :

- eliminates bad integrations (in the acquisition phases) - if required
- averages all integrations for each acquisition phase
- performs the phase arithmetic (for instance ON-OFF/OFF) for each cycle
- performs the flux density scale calibration
- averages the cycles
- displays and saves the result on disk (if required) in FITS format or in the NRT SIR data processing specific format.

1.2 Commands summary (with examples)

(NAPS commands may be typed in upper case or lower case characters.)

When entering in NAPS, your .configdep file is read; see Miscellaneous section.

1.2.1 SCAN (observation number == raw data files) selection

```
-- LIST SCAN      Lists the available scan numbers
-- SET DUIC       Selects the user ID of the scans to be processed
                   SET DUIC 171
-- SET SCAN       Selects the scan numbers to be processed
                   SET SCAN 10210 11222-11320
                   SET SCAN *
-- SET SOU, SET COMP, SET REF  selects the phase numbers for the
                                ON, OFF and REFERENCE phases.
                                (ON-OFF)/OFF is calculated for each cycle.
-- SET NOSOU, SET NOCOMP, SET NOREF
                                after SET NOREF, NAPS calculates only (ON-OFF)
                                for each cycle.
                                after SET NOSOU (and SET NOREF), the OFF phase is
                                kept for each cycle.
-- SHOW SESSION   Shows session parameters
-- SET DIRDATA, SET DIRSIR, SET DIRFITS  selects working directories
                   SET DIRDATA /data1/guest3
                   SET DIRDATA /data2/calib   (for raw test or cal. data)
-- SHOW SESSION   Shows session parameters
```

1.2.2 Data visualisation (1D)

```
-- SHOW CYCLE     Displays one cycle (from one to all correlator banks)
                   SHOW CYCLE 1
                   SHOW CYCLE 1-10           (use NEXT to display the cycles 2-10)
                   SHOW CYCLE 2, BATT=3      (third correlator bank -- BATTerie
                                               in french)
-- NEXT           Displays the next cycle
-- SHOW SPECTRE   Displays the integrations (elementary spectra)
                   SHOW SPECTRE CYCLE=1, PHASE=2, INTE=3
                   SHSPEX 1,2,3             (shortcut)
-- SHOW FILTRE    Displays the broad band filter data
                   SHOW FILTRE 1             (all filters, CYCLE 1)
                   SHOW FILTRE 1,4          (filter number 4, CYCLE 1)
-- SET X          Sets the units for the abscissa axis
                   Arguments are : CHAN (channels)
                                FREQ (frequencies)
                                VEL  (velocity)
```

```

                SET X VEL
-- SET YPR      Sets the Y Plot Range
                SET YPR 3  (range = +/- 3 sigmas)
-- ENA VISU, DISA VISU  enables or disables the graphic display
-- ENA WNEW      a new graphic window is created for each plot
-- DISA WNEW     disables the WNEW mode
-- SET PSYM      selects the symbol used for the plots
-- PLOT          writes the plot in a POSTSCRIPT file

```

1.2.3 2D Data display and processing

(2D time frequency display of each correlator bank.)

```

-- DISP MODE=1  Displays all cal. and acquisition integrations
-- DISP MODE=2  Displays the acquisition integrations and marks the
                channels which show radio interferences
-- DISP MODE=3  Displays the acquisition integrations using an ON-OFF
                algorithm (cleans the 'OFF' which is subtracted to
                each integration)
-- DISP MODE=4  Same, displays a cleaned ON-OFF spectrum and the percentage
                of removed data for each channel.
-- DISP MODE=5  Displays all cycles after ON-OFF arithmetics.
                DISP MODE=1, BATT=1
-- ENA/DISA CLR Enables/disables the RFI detection algorithm
-- INTE2D       Same as command INTE, with RFI cleaning algorithm working
                in each cycle
-- SAVE2D       Same as command SAVE, with RFI cleaning algorithm working
                in each cycle
-- SET YPR      Curve min and max fixed, below each 2D image

```

1.2.4 SCANs process

```

-- PROC SCAN    Scan processing (Tsys are shown at the end)
                CLIP, WIN and ILR constraints are used
-- DUMP MAP, DUMP SOU, DUMP SCAN, DUMP TABCAL, LIST TABCAL
-- DISA/ENA BREAK Save all the selected SCANs, with one SAVE command.
                ENA BREAK (default)

```

1.2.5 USING a MASK for estimating the TSYS

```

-- SET MASK     SET MASK 100-200, BATT=1-4
                channels 100 to 200, in spectra type 1 to 4
-- ENA MASK     Enables MASK, necessary after MASK definition
-- DISA MASK    Disables MASK
-- SET DEFMASK  Back to default mask: 5 first and last points
-- SET NOMASK   Deletes the default mask

```

1.2.6 Suppress cycles/banks

```
-- SUP CYCLE      (shortcut SUPC) suppress cycles
                   SUP CYCLE 2-3 4,batt=4
                   SUPC 2-3 4,0,0,4
-- SET CLIP       Sets a limit for the cycles'Tsys.
                   SET CLIP 100             (for all banks)
                   SET CLIP 100 150 100 200 (for each bank)
-- ENA/DISA CLIP  Enables/disables the CLIPping
                   DISA CLIP (default)
-- SET WIN        Sets a Tsys window, in order to reject cycles
                   in units of rms (rms of the cycle's Tsys)
                   SET WIN -2 2
                   The CLIP action is done before the WIN rejection.
-- ENA/DISA WIN   Enables/disables the WINDow-based selection.
                   DISA WIN (default)
```

1.2.7 Automatic removal of integrations

(use with care : this algorithm deletes always a certain percentage of integrations in every phases/cycles)

```
-- SET ILR        Sets the ILR (Integration Limit Rms)
                   SET ILR 1.2
-- ENA/DISA ILR   Enables/disables this mode. 'Worst integrations'
                   removal is performed by the command PROC SCAN
                   DISA ILR (default)
-- DUMP SCAN      Displays the flag array for all the integrations
-- RESET          Resets flagged integrations
-- RESET ALL      Resets all cycles
```

1.2.8 Automatic removal of 'bad' channels

(see also the DISP, INTE2D and SAVE2D commands)

```
-- SET CLR        Sets the CLR (Channel Limit Rms)
-- ENA/DISA CLR   Enables/disables this mode.
                   ENA CLR (default)
```

1.2.9 Integration and creation of final spectra (result files)

```
-- INTE          Averages cycles (possibly after PROC SCAN) + display
-- INTE2D        Averages cycles using the 2D cleaning algorithm + display
-- SAVE          INTE + creation of a disk file (FITS or SIR format)
-- SAVE2D        INTE2D + creation of a disk file (FITS or SIR format)
-- SAVE CYCLE    Saves each cycle on disk (FITS or SIR format)
-- SAVE INTE     Saves each integration on disk (FITS or SIR format)
```



```

                                (Be careful : you may create hundreds of disk files!)
-- GO                            Next scan

```

1.2.10 Miscellaneous

NAPS can work with script files. The script file names must include the extension .naps.

```

-- CALL myscriptfile
-- SET IDENT          Changes the default NAPS identification of the final
                      result file (for SIR format outputs only)
-- ENA/DISA CAL       Enables/disables the K-Jy calibration.
-- ENA/DISA EFFI      Takes into account (default) or not the radio telescope
                      efficiency variation on declination in the calibration
                      calculus.
-- ENA/DISA TABCAL    Prints the attenuation and Noise Diode values used
                      by PROC SCAN
-- ENA/DISA RHO       Prints the rho(0) (first point of the autocorrelation
                      function) values used by PROC SCAN.
-- DUMP FREQ          Prints the receiver's frequency setups.
-- ENA/DISA FREQ       Writes in addition the spectra with FREQUENCY axis
                      (usefull for SIR format outputs) in the same SIR
                      result files.

```

Example of a .configdep file. (one line only !)

```

/data2/171/2008A/ /home/colom/sir/resultat/def/
/home/colom/sir/sorties/ /ps /ps /home/colom/fitsdata/

```

This file can be edited with a standard editor, or with the FIP tool.

1.3 More explanations Start of a Reference Manual

LIST SCAN Lists the scan numbers which are in the selected folder. This folder may be selected via the file .configdep, located in the user's home directory, or with the command SET DIRDATA. The file .configdep is created by the FIP software, and can be modified by the user.

Example for user dupont with the data on /data2/uic/2008A/ (holds on one line):

```

/data2/uic/2008A/ /home/dupont/sir/resultat/groupe1/
/home/dupont/sir/sorties/ /ps /ps /home/dupont/fitsdata/

```

where uic is the id 3 digits number of user dupont, and 2008A the semester of the observations. Do not forget the last / sign in the definitions.

SET DUIC Selects the user ID of the scan to process. The default DUIC is the standard UNIX/NRT user ID.

SET SCAN Selects the scan numbers to be processed. The character * selects all the scans available in the raw data folder. Example :

NAPS> SET SCAN 1435 10-20

The scan number 1435 and the scans with numbers between 10 and 20 will be processed successively. The first valid scan is selected and the system temperatures of the scan are typed.

NAPS applies a calibration (Jy) on the autocorrelator *and* the filter data, using calibration data obtained from systematic observations of series of standard radio sources.

Since November 13th 2000, the noise diode calibration sequences are recorded with both the autocorrelator and the filter bank. Each noise diode sequence is stored as three autocorrelator integrations of 1 second each (and three filter bank data points as well). With these integrations, it is possible to calibrate all polarisation setups, including the cross-polar ones like EW, EW*, using the $\rho(0)$ power which is written after each spectrum.

Definitions

- **SCAN** : raw observation of a source.

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`nnn` backend type (sao, nco, fil...)

`XXXXX` SCAN NUMBER

`UIC` TELESCOPE USER ID

A SCAN includes some headers and several CYCLES.

- **CYCLE** : Includes several PHASEs. A classical observation in position-switch mode would involve four phases :
 - one calibration phase (on source),
 - one ON source acquisition phase,
 - one calibration phase (off source),
 - one OFF source acquisition phase.

Some peculiar telescope setup files may involve more phases.

Each PHASE is made of several INTEGRATIONS.

Each INTEGRATION contains 2 to 8 spectra, as the receiver may observe up to 4 frequencies, 1 to 4 polarization parameters

-
- [What is NAPS doing ?](#)
-

What is NAPS doing ?

Shortly, once a SCAN is selected, the software :

- eliminates bad integrations (in the acquisition phases) - if required
- averages all integrations for each acquisition phase
- performs the phase arithmetic (for instance ON-OFF/OFF) for each cycle
- performs the flux density scale calibration
- averages the cycles
- displays and saves the result on disk (if required) in FITS format or in the NRT SIR data processing specific format.

Next: [SCAN \(observation number ==](#) **Up:** [NAPS: NAncay Preprocessing Software](#) **Previous:** [What is NAPS doing](#)

Commands summary (with examples)

(NAPS commands may be typed in upper case or lower case characters.)

-
- [SCAN \(observation number == raw data files\) selection](#)
 - [Data visualisation \(1D\)](#)
 - [2D Data display and processing](#)
 - [SCANs process](#)
 - [USING a MASK for estimating the TSYS](#)
 - [Suppress cycles/banks](#)
 - [Automatic removal of integrations](#)
 - [Automatic removal of 'bad' channels](#)
 - [Integration and creation of final spectra \(result files\)](#)
 - [Miscellaneous](#)
-

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Next: [Data visualisation \(1D\)](#) **Up:** [Commands summary \(with examples\)](#) **Previous:** [Commands summary \(with examples\)](#)

SCAN (observation number == raw data files) selection

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-- SET DUIC       Selects the user ID of the scans to be processed
                   SET DUIC 171
-- SET SCAN       Selects the scan numbers to be processed
                   SET SCAN 10210 11222-11320
                   SET SCAN *
-- SET SOU, SET COMP, SET REF selects the phase numbers for the
                   ON, OFF and REFERENCE phases.
                   (ON-OFF)/OFF is calculated for each cycle.
-- SET NOSOU, SET NOCOMP, SET NOREF
                   after SET NOREF, NAPS calculates only (ON-OFF)
                   for each cycle.
                   after SET NOSOU (and SET NOREF), the OFF phase is
                   kept for each cycle.
-- SHOW SESSION   Shows session parameters
-- SET DIRDATA, SET DIRSIR, SET DIRFITS selects working directories
                   SET DIRDATA /data1/guest3
                   SET DIRDATA /data2/calib (for raw test or cal. data)
-- SHOW SESSION   Shows session parameters
```

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Next: [2D Data display and Up: Commands summary \(with examples\)](#) **Previous:** [SCAN \(observation number ==](#)

Data visualisation (1D)

```
-- SHOW CYCLE      Displays one cycle (from one to all correlator banks)
                   SHOW CYCLE 1
                   SHOW CYCLE 1-10      (use NEXT to display the cycles 2-10)
                   SHOW CYCLE 2, BATT=3  (third correlator bank -- BATTerie
                                         in french)
-- NEXT            Displays the next cycle
-- SHOW SPECTRE    Displays the integrations (elementary spectra)
                   SHOW SPECTRE CYCLE=1, PHASE=2, INTE=3
                   SHSPEC 1,2,3        (shortcut)
-- SHOW FILTRE     Displays the broad band filter data
                   SHOW FILTRE 1       (all filters, CYCLE 1)
                   SHOW FILTRE 1,4     (filter number 4, CYCLE 1)
-- SET X           Sets the units for the abscissa axis
                   Arguments are : CHAN (channels)
                                FREQ (frequencies)
                                VEL  (velocity)
                   SET X VEL
-- ENA VISU, DISA  VISU  enables or disables the graphic display
-- ENA WNEW        a new graphic window is created for each plot
-- DISA WNEW       disables the WNEW mode
-- SET PSYM        selects the symbol used for the plots
-- PLOT            writes the plot in a POSTSCRIPT file
```

2D Data display and processing

(2D time frequency display of each correlator bank.)

```
-- DISP MODE=1      Displays all cal. and acquisition integrations
-- DISP MODE=2      Displays the acquisition integrations and marks the
                    channels which show radio interferences
-- DISP MODE=3      Displays the acquisition integrations using an ON-OFF
                    algorithm (cleans the 'OFF' which is subtracted to
                    each integration)
-- DISP MODE=4      Same, displays a cleaned ON-OFF spectrum and the percentage
                    of removed data for each channel.
-- DISP MODE=5      Displays all cycles after ON-OFF arithmetics.
                    DISP MODE=1, BATT=1
-- ENA/DISA CLR     Enables/disables the RFI detection algorithm
-- INTE2D           Same as command INTE, with RFI cleaning algorithm working
                    in each cycle
-- SAVE2D           Same as command SAVE, with RFI cleaning algorithm working
                    in each cycle
-- SET YPR          Curve min and max fixed, below each 2D image
```


SCANs process

```
-- DISP MODE=1      Displays all cal. and acquisition integrations
-- DISP MODE=2      Displays the acquisition integrations and marks the
                    channels which show radio interferences
-- DISP MODE=3      Displays the acquisition integrations using an ON-OFF
                    algorithm (cleans the 'OFF' which is substracted to
                    each integration)
-- DISP MODE=4      Same, displays a cleaned ON-OFF spectrum and the percentage
                    of removed data for each channel.
-- DISP MODE=5      Displays all cycles after ON-OFF arithmetics.
                    DISP MODE=1, BATT=1
-- ENA/DISA CLR      Enables/disables the RFI detection algorithm
-- INTE2D           Same as command INTE, with RFI cleaning algorithm working
                    in each cycle
-- SAVE2D           Same as command SAVE, with RFI cleaning algorithm working
-- PROC SCAN        Scan processing (Tsys are shown at the end)
                    CLIP, WIN and ILR constraints are used
-- DUMP MAP, DUMP SOU, DUMP SCAN, DUMP TABCAL, LIST TABCAL
-- DISA/ENA BREAK   Save all the selected SCANs, with one SAVE command.
                    ENA BREAK (default)
```

Next: [Suppress cycles/banks](#) **Up:** [Commands summary \(with examples\)](#) **Previous:** [SCANs process](#)

USING a MASK for estimating the TSYS

```
-- SET MASK          SET MASK 100-200, BATT=1-4
                      channels 100 to 200, in spectra type 1 to 4
-- ENA MASK          Enables MASK, necessary after MASK definition
-- DISA MASK          Disables MASK
-- SET DEFMASK        Back to default mask: 5 first and last points
-- SET NOMASK         Deletes the default mask
```

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Suppress cycles/banks

```
-- SUP CYCLE      (shortcut SUPC) suppress cycles
                  SUP CYCLE 2-3 4,batt=4
                  SUPC 2-3 4,0,0,4
-- SET CLIP       Sets a limit for the cycles'Tsys.
                  SET CLIP 100          (for all banks)
                  SET CLIP 100 150 100 200 (for each bank)
-- ENA/DISA CLIP  Enables/disables the CLIPping
-- SET WIN        Sets a Tsys window, in order to reject cycles
                  in units of rms (rms of the cycle's Tsys)
                  SET WIN -2 2
                  The CLIP action is done berfore the WIN rejection.
-- ENA/DISA WIN   Enables/disables the WINdow-based selection.
```

Automatic removal of integrations

(use with care : this algorithm deletes always a certain percentage of integrations in every phases/cycles)

```
-- SET ILR          Sets the ILR (Integration Limit Rms)
                    SET ILR 1.2
-- ENA/DISA ILR     Enables/disables this mode. 'Worst integrations'
                    removal is performed by the command PROC SCAN
-- DUMP SCAN        Displays the flag array for all the integrations
-- RESET            Resets flagged integrations
-- RESET ALL        Resets all cycles
```

P. Colom, J-M. Martin - February 2002

Next: [Integration and creation of Up: \[Commands summary \\(with examples\\)\]\(#\) Previous: \[Automatic removal of integrations\]\(#\)](#)

Automatic removal of `bad' channels

```
(see also the DISP, INTE2D and SAVE2D commands)
-- SET CLR          Sets the CLR (Channel Limit Rms)
-- ENA/DISA CLR     Enables/disables this mode.
```

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Next: [Miscellaneous](#) Up: [Commands summary \(with examples\)](#) Previous: [Automatic removal of `bad'](#)

Integration and creation of final spectra (FITS files & result files)

```
-- INTE          Averages cycles (possibly after PROC SCAN) + display
-- INTE2D        Averages cycles using the 2D cleaning algorithm+disp.
-- SAVE          INTE + creation of a disk file (FITS or SIR format)
-- SAVE2D        INTE2D + creation of a disk file (FITS or SIR format)
-- SAVEINTE      Saves each integration on disk (FITS or SIR format)
                  (Be careful : you may create hundreds of disk files!)
-- GO            Next scan
```

---- output fits format : ---- SET DIRFITS fitspath/ override the FITS default path (see .configdep) ---- SET
RESULT FITS spectra will be saved in FITS format ---- output Nancay specific format : ---- SET DIRSIR
sirpath/ default path ---- SET RESULT SIR spectra will be saved in SIR format

P. Colom, J-M. Martin - July 15, 2002

Next: [About this document](#) **Up:** [Commands summary \(with examples\)](#) **Previous:** [Integration and creation of](#)

Miscellaneous

NAPS can work with script files. The script file names must include the extension .naps.

```
-- CALL myscriptfile
-- SET IDENT          Changes the default NAPS identification of the final
                      result file (for SIR format outputs only)
-- ENA/DISA CAL       Enables/disables the K-Jy calibration.
-- ENA/DISA EFFI      Takes into account (def.) or not the radiotelescope
                      efficiency variation on declination in the calibra
                      tion calculus.

-- DISA EFFI
-- ENA/DISA TABCAL    Prints the attenuation and Noise Diode values used
                      by PROC SCAN
-- ENA/DISA RHO       Prints the rho(0) (first point of the autocorrelation
                      function) values used by PROC SCAN.
-- DUMP FREQ          Prints the receiver's frequency setups.
-- ENA/DISA FREQ       Writes in addition the spectra with FREQuency axis
                      (usefull for SIR format outputs) in the same SIR
                      result files.
```

Example of a .configdep file. (one line only !)

```
/data1/theureau/TEST/ /usr/users/martin/jmm/sir/resultat/def/
/usr/users/martin/sir/sorties/ /ps /ps /usr/users/martin/jmm/fitsdata/
```

This file can be edited with a standard editor, or with the FIP tool.

Up: [No Title](#) Previous: [Miscellaneous](#)

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