

REQUIRED SOFTWARE

Radio hands-on sessions □ (AIPS/CASA/DIFMAP):

1) AIPS: <http://www.aips.nrao.edu/>

Download: <http://www.aips.nrao.edu/dec09.shtml>

Cookbook: <http://www.aips.nrao.edu/cook.html>
<http://www.aips.nrao.edu/Mac.shtml>

Mac Users, see special note: [h](#)

2) CASA:

<http://casa.nrao.edu/>

Download: <http://casa.nrao.edu/betarelease.shtml>
<http://casa.nrao.edu/casatraining.shtml>

CASA training: <http://casa.nrao.edu/casatraining.shtml>

3) DIFMAP:

<ftp://ftp.astro.caltech.edu/pub/difmap/difmap.html>

Download: <ftp://ftp.astro.caltech.edu/pub/difmap/>

Cookbook: <ftp://ftp.astro.caltech.edu/pub/difmap/cookbook.ps.Z>

X-RAY

hands-on sessions (HEASOFT/CIAO/ISIS):

1) HEASOFT (full installation, XSPEC included): <http://heasarc.gsfc.nasa.gov/docs/software/lheasoft/>

Download: <http://heasarc.gsfc.nasa.gov/docs/software/lheasoft/download.html>

Download: <http://heasarc.gsfc.nasa.gov/docs/software/lheasoft/download.html>

2) ISIS:

<http://space.mit.edu/CXC/ISIS/>

Download:

<http://space.mit.edu/CXC/ISIS/download.html>

Need S-Lang: <http://www.jedsoft.org/slang/>

Nowak's

Please also note the additional

[ISIS Scripts](#)

*** For HEASOFT and ISIS see M. [installation guide](#) .***

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For an ISIS introduction see J. Wilms' [lecture on X-ray astronomy](#)

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3) CIAO:

<http://cxc.harvard.edu/ciao/>

Download: <http://cxc.harvard.edu/ciao/download/>

Caldb for Ciao: <http://cxc.harvard.edu/caldb/>

Ciao scripts: <http://cxc.harvard.edu/ciao/download/scripts/>

Instructions for installing

CIAO software include a set of tests that have to be run at the installation time. So if you installed CIAO, you should have also run the "smoketests" included with the installation.

4) FERMI : <http://fermi.gsfc.nasa.gov/ssc/data/analysis/>

Download: <http://fermi.gsfc.nasa.gov/ssc/data/analysis/software/>

VERY IMPORTANT : VNC client

Make sure your OS distribution include a VNC client (to access remote computers if needed).