

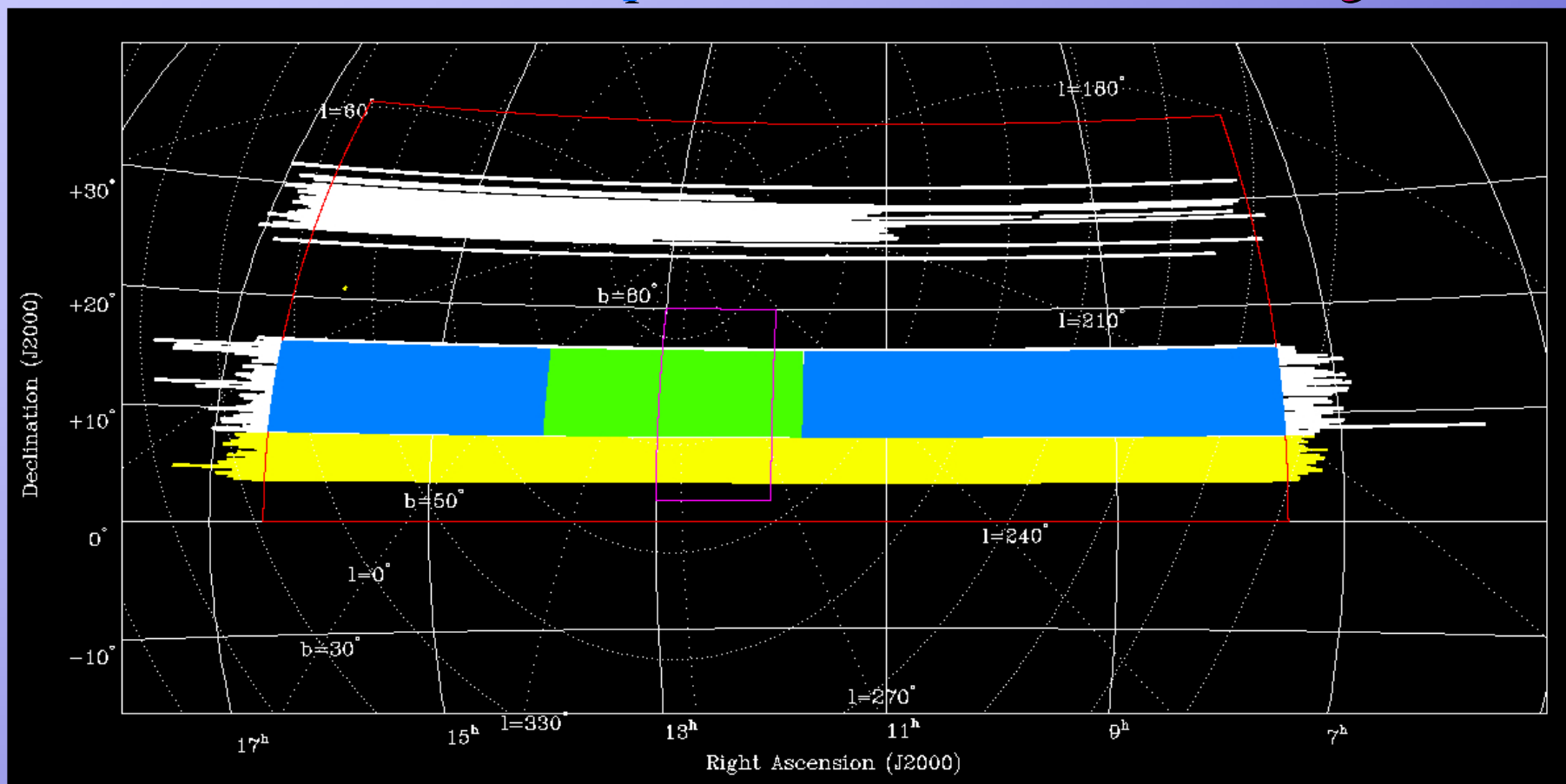
ALFALFA Gridding Scheme

Brian Kent

Survey results and status

- See Giovanelli et al. 2007, Kent et al. 2008 in preparation, Koopmann et al. 2008 in preparation, Stierwalt et al. 2008 in preparation

ALFALFA In Prep Source Ext. Level I Virgo

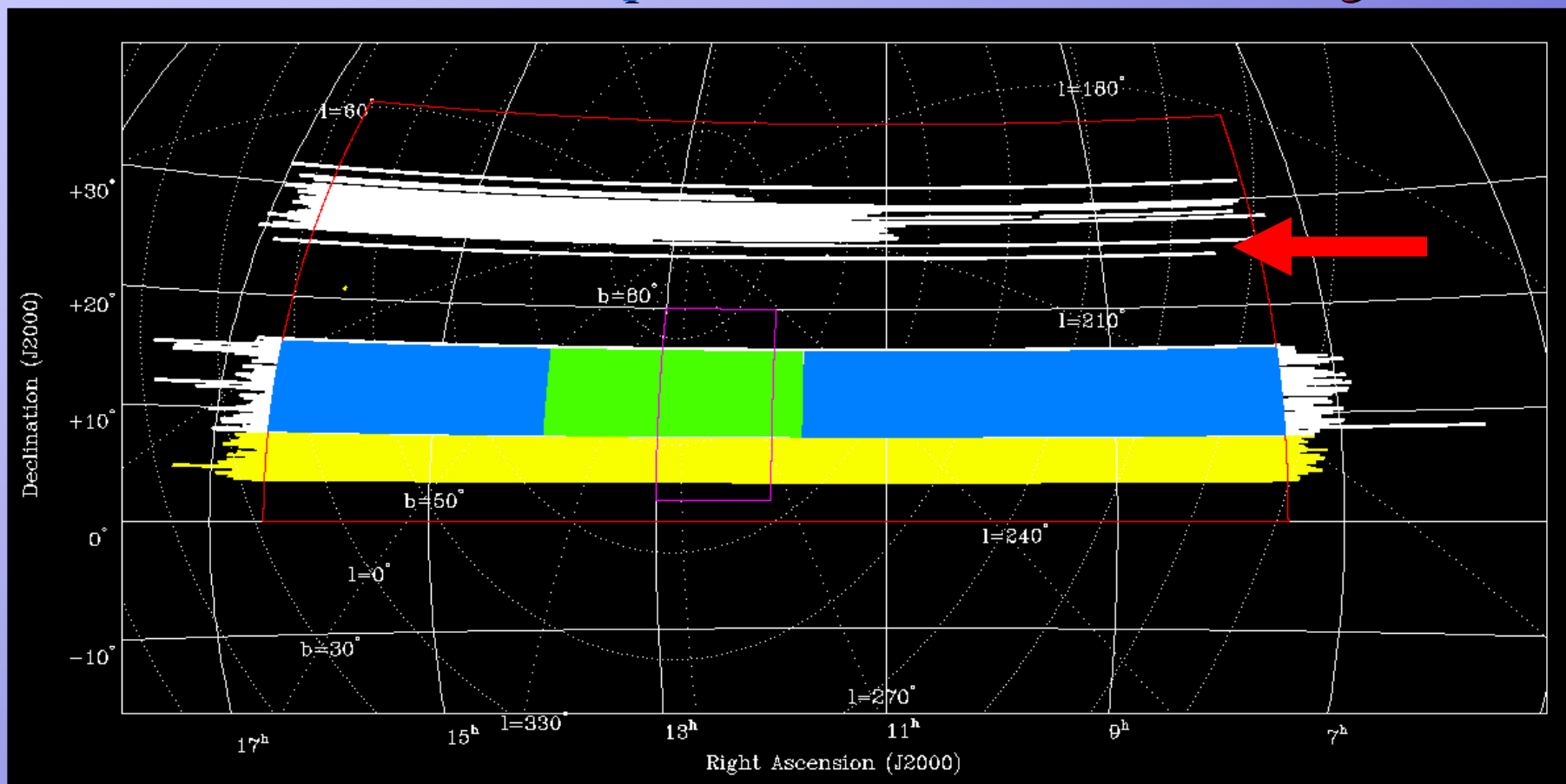


Survey status available at <http://egg.astro.cornell.edu/alfalfa/>

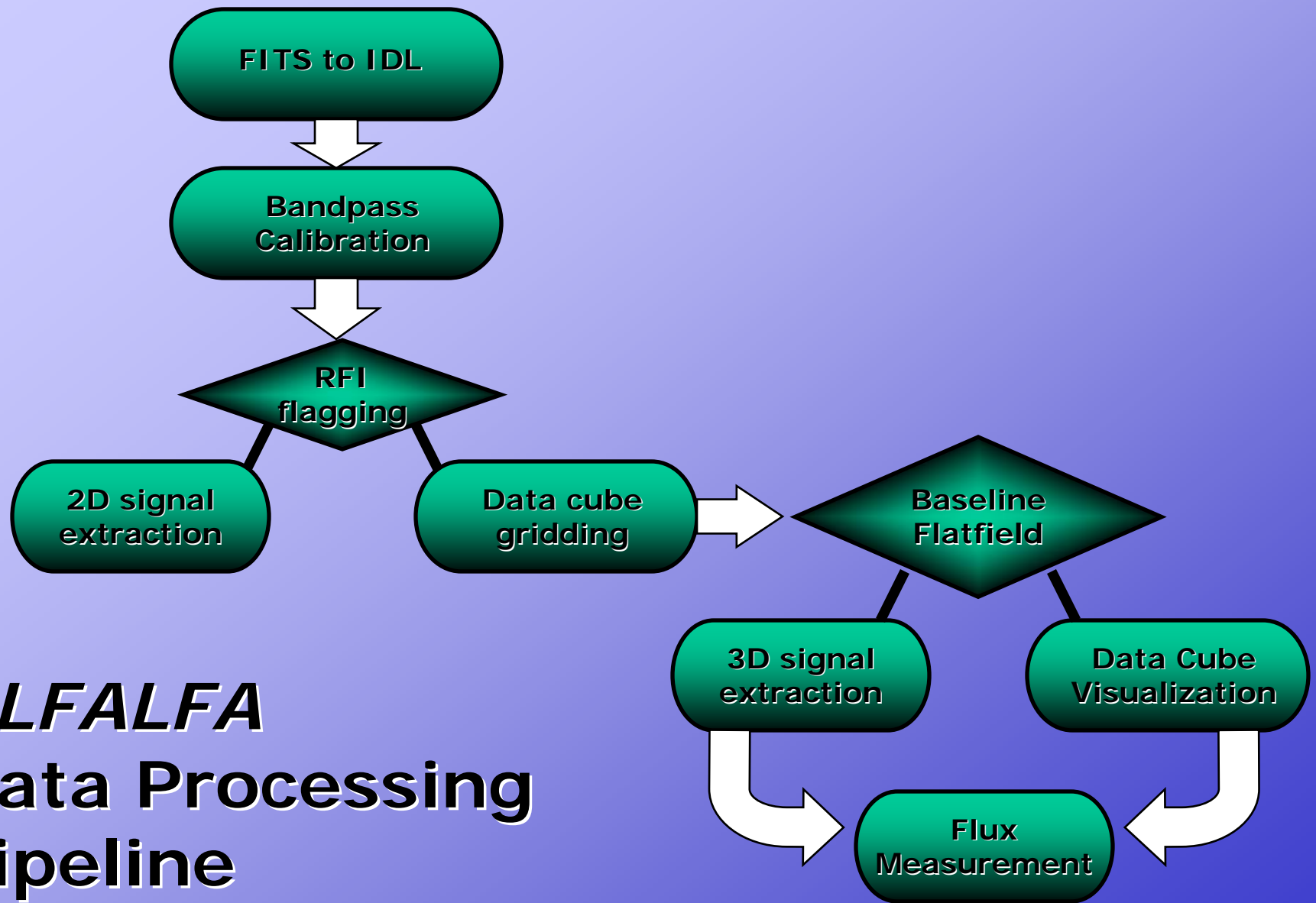
Survey results and status

- See Giovanelli et al. 2007, Kent et al. 2008 in preparation, Koopmann et al. 2008 in preparation, Stierwalt et al. 2008 in preparation)

ALFALFA In Prep Source Ext. Level I Virgo



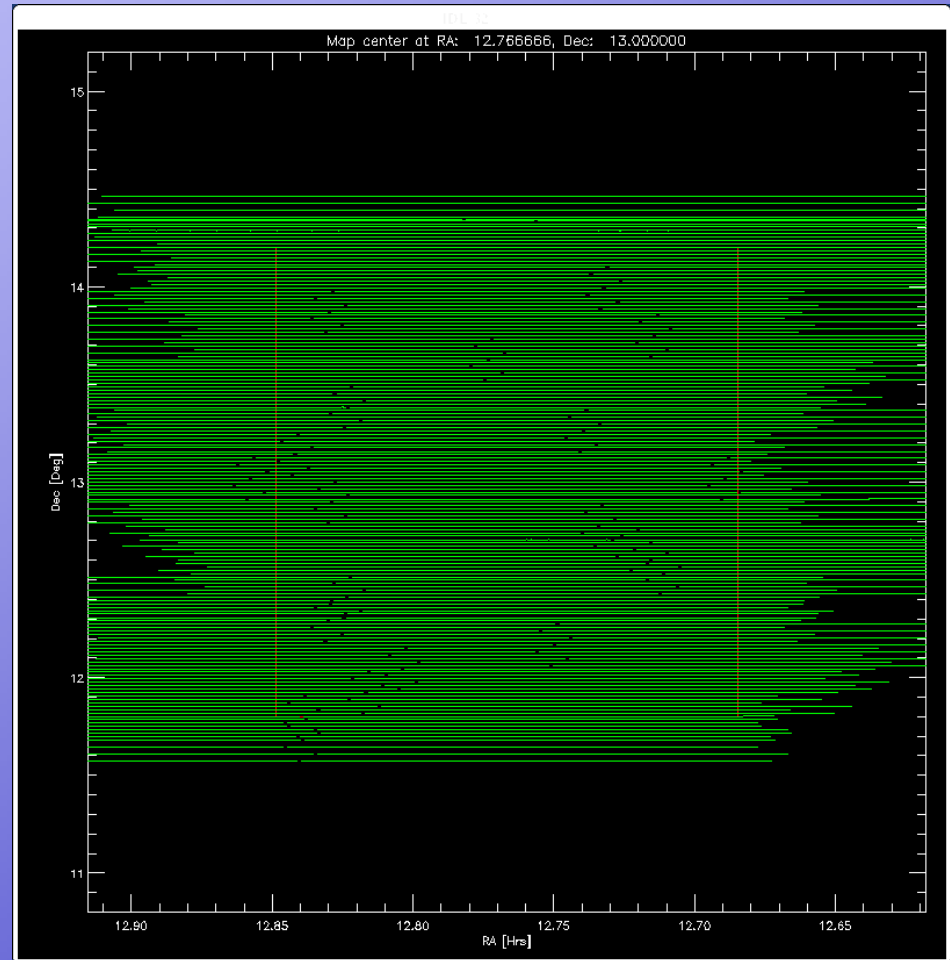
Survey status available at <http://egg.astro.cornell.edu/alfalfa/>

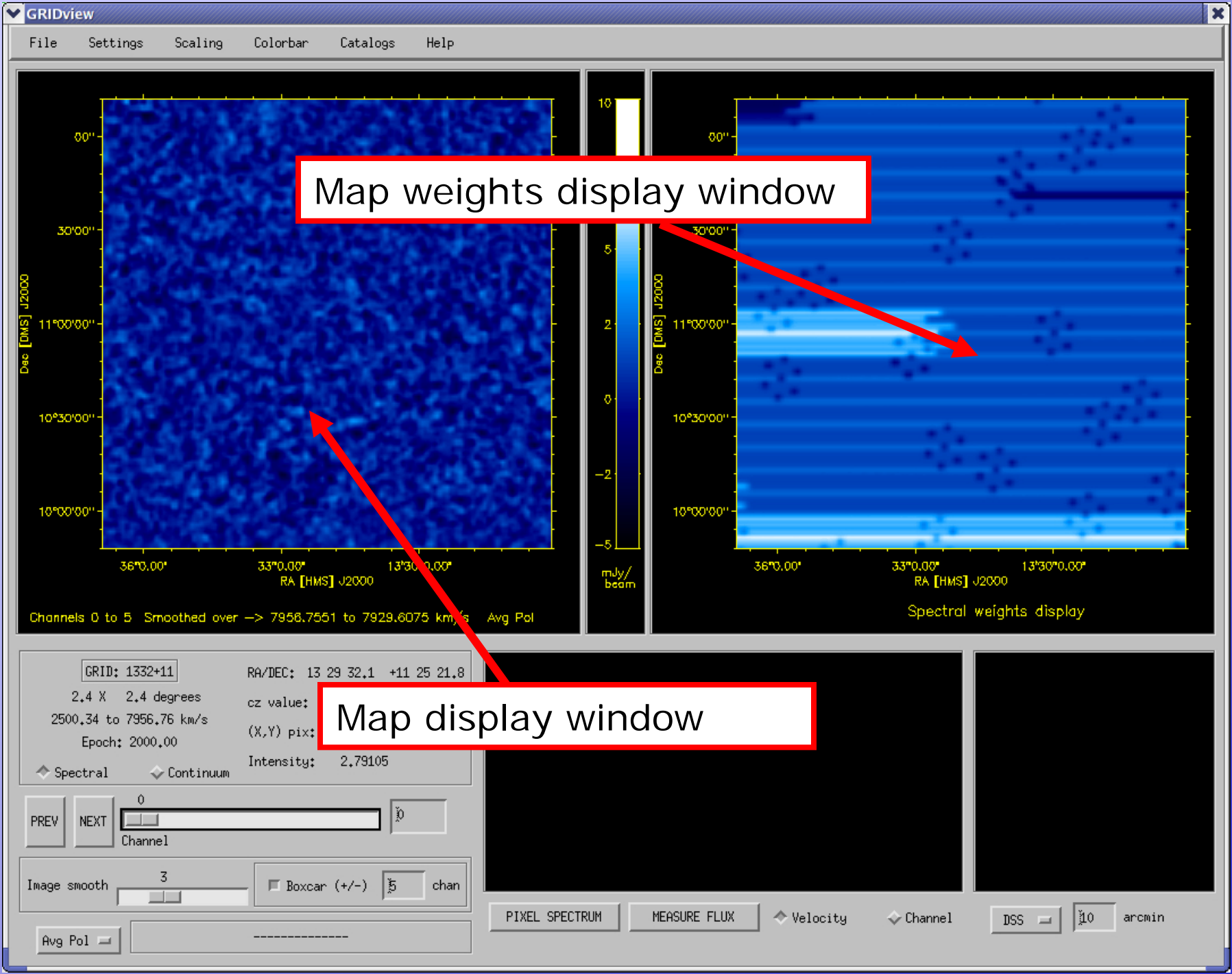


ALFALFA
**Data Processing
Pipeline**

Gridding data cubes

- $2.4^\circ \times 2.4^\circ \times 5400$ km/s data cubes are created via:
 - Examining which drifts scans fit into the requested cube
 - Every grid element has a record that describes which files contribute flux to that point
 - Weights are computed with the gridding weight function and proximity to the grid point
 - The weighted contribution of a drift is added to the correct flux bins for each grid point to which a drift file contributes.
 - Signal Extraction performed on the grids in the Fourier domain using a matched filter system (Saintonge 2007)





Map weights display window

Map display window

GRIDview

File Settings Scaling Colorbar Catalogs Help

Dec [DMS] J2000

RA [HMS] J2000

mJy/beam

Channels 0 to 5 Smoothed over -> 7958.7551 to 7929.6075 km/s Avg P

Grid header and coordinate information

GRID: 1332+11 RA/DEC: 13 29 32.1 +11 25 21.8
 2.4 X 2.4 degrees cz value: 7956.7551
 2500.34 to 7956.76 km/s (X,Y) pix: 35 97
 Epoch: 2000.00 Intensity: 2.79105

Spectral Continuum

PREV NEXT Channel 0

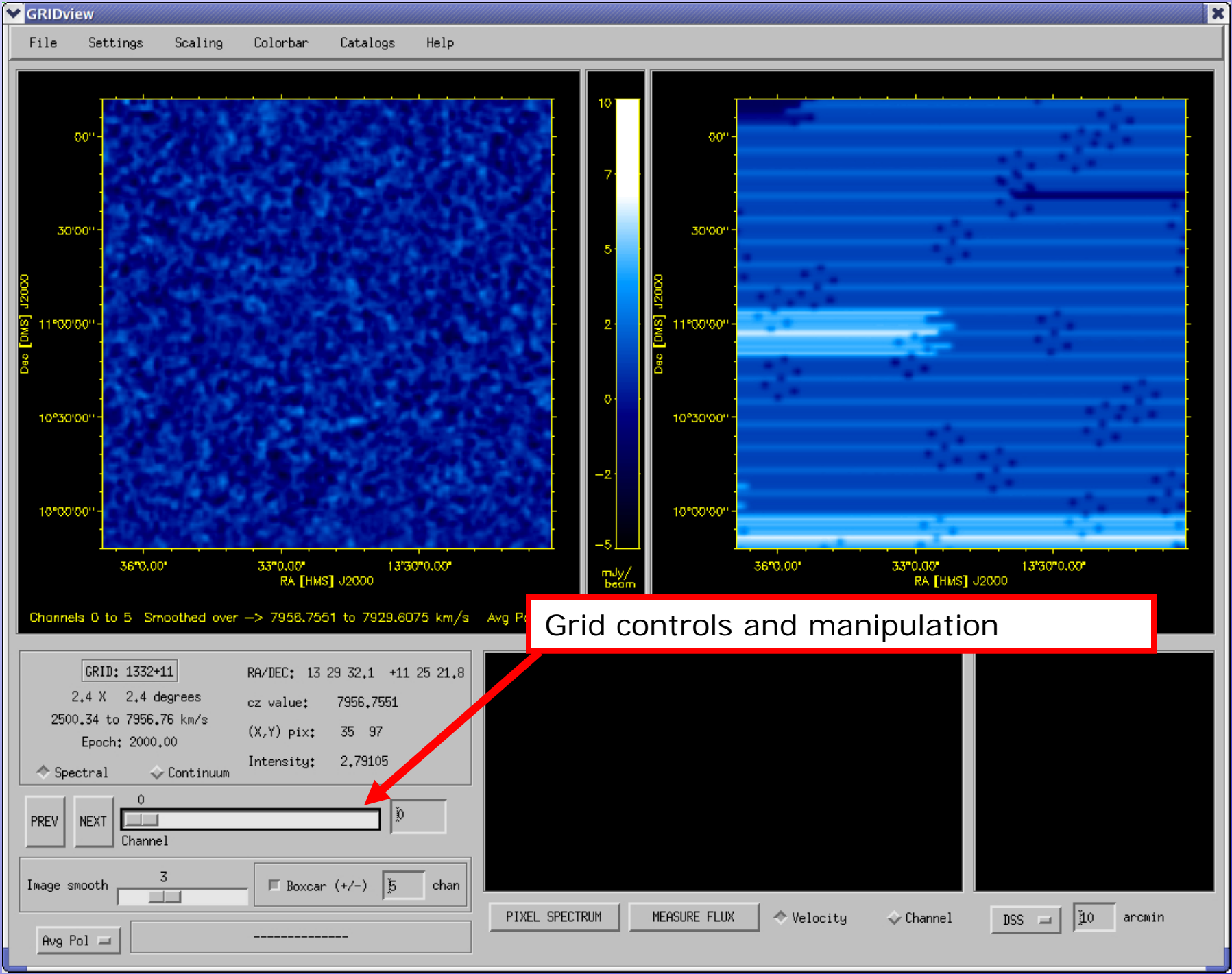
Image smooth 3 Boxcar (+/-) 5 chan

Avg Pol

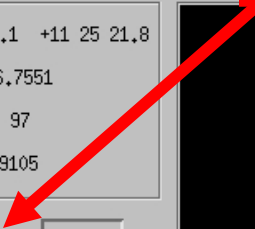
PIXEL SPECTRUM MEASURE FLUX Velocity Channel DSS 10 arcmin

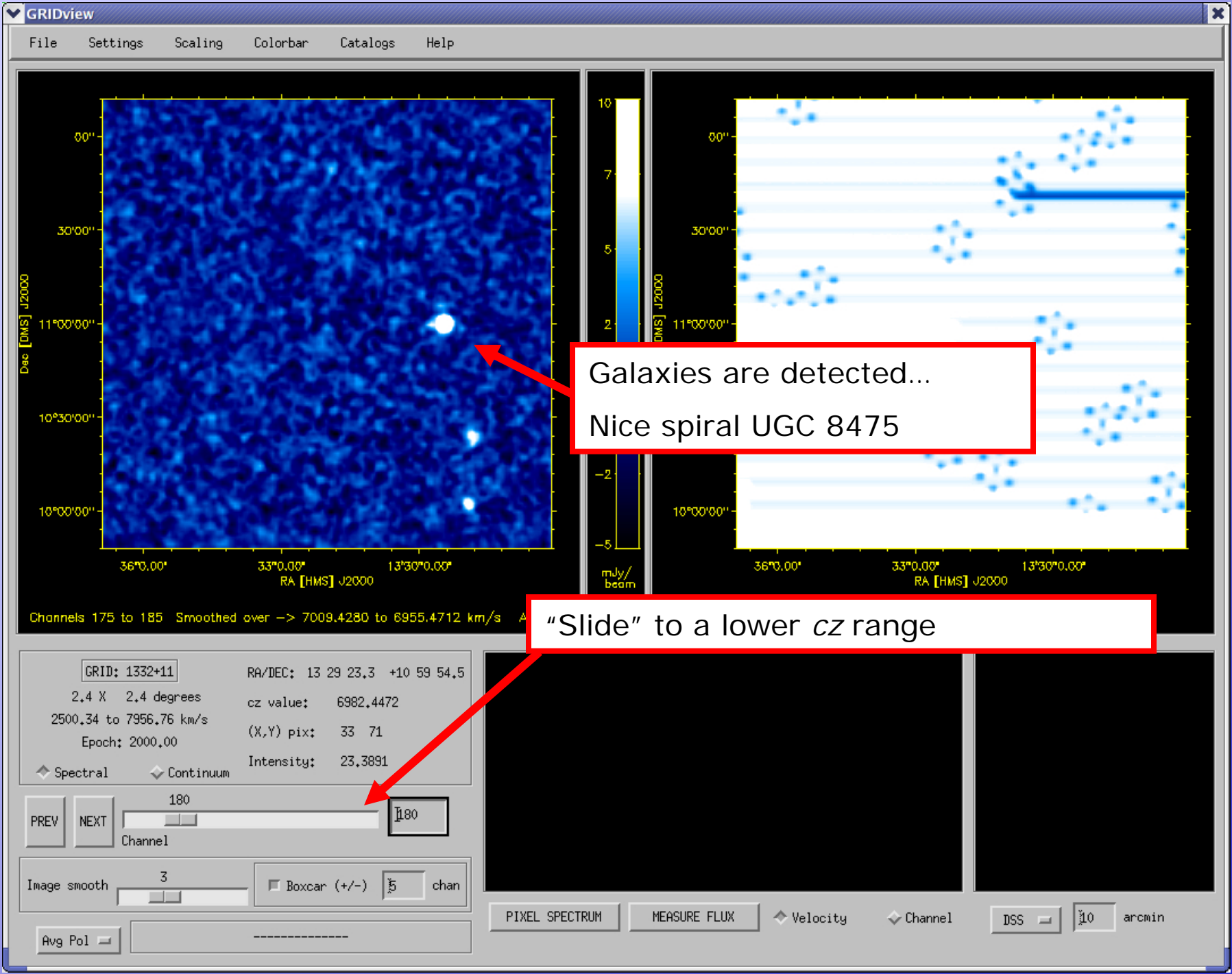
Grid header and coordinate information





Grid controls and manipulation





GRIDview

File Settings Scaling Colorbar Catalogs Help

Dec [DMS] J2000

RA [HMS] J2000

Channels 175 to 185 Smoothed over -> 7009.4280 to 6955.4712 km/s Avg Pol

10

7

5

2

-5

mJy/beam

Dec [DMS] J2000

RA [HMS] J2000

Spectral weights display

Overlay catalogs from various sources...

GRID: 1332+11 RA/DEC: ----

2.4 X 2.4 degrees cz value: 6982,4472

2500,34 to 7956,76 km/s (X,Y) pix: -----

Epoch: 2000,00 Intensity: ----

Spectral Continuum

PREV NEXT Channel: 180

Image smooth: 3 Boxcar (+/-) 5 chan

Avg Pol AGC Information Displayed Here

PIXEL SPECTRUM MEASURE FLUX Velocity Channel DSS 10 arcmin

GRIDview

File Settings Scaling Colorbar Catalogs Help

Dec [DMS] J2000

RA [HMS] J2000

Continuum Avg Pol

Continuum weights display

GRID: 1332+11 RA/DEC: ---
2.4 X 2.4 degrees cz value: 5362,4472
2500,34 to 7956,76 km/s (X,Y) Pix: ---
Epoch: 2000,00 Intensity: ---

Spectral Continuum

PREV NEXT Channel 180

Image smooth 3 Boxcar (+/-) 5 chan

Avg Pol

PIXEL SPECTRUM MEASURE FLUX Velocity Channel NWSS 20 arcmin

Examine continuum maps...

GRIDview

File Settings Scaling Colorbar Catalogs Help

+ (5-50) + (50-100) △ (100-200) △ (200-300) □ (>300) mJy/beam

Dec [DMS] J2000

RA [HMS] J2000

Continuum Avg Pol

Dec [DMS] J2000

RA [HMS] J2000

Continuum weights display

Overlay NVSS catalogs...

GRID: 1332+11 RA/DEC: ----

2.4 X 2.4 degrees cz value: 6982,4472

2500,34 to 7956,76 km/s (X,Y) pix: -----

Epoch: 2000,00 Intensity: ----

◊ Spectral ◊ Continuum

PREV NEXT Channel 180

Image smooth 3 Boxcar (+/-) 5 chan

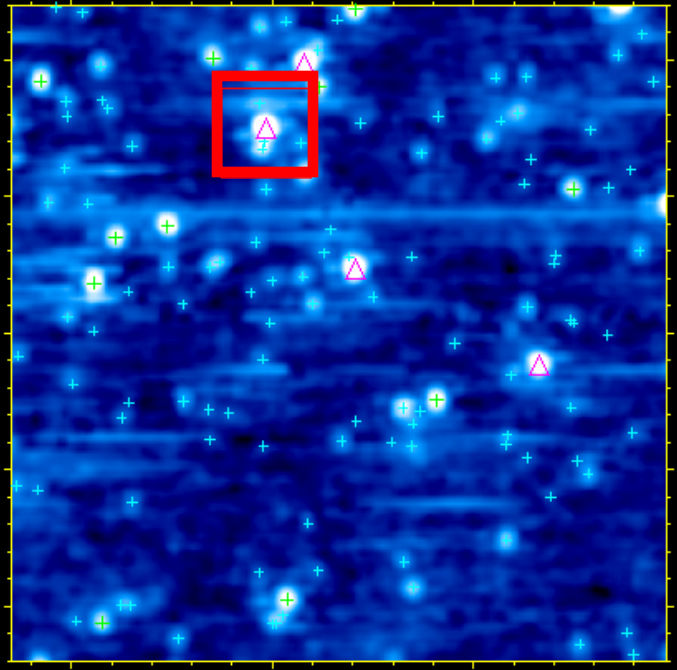
Avg Pol

PIXEL SPECTRUM MEASURE FLUX ◊ Velocity ◊ Channel NVSS 20 arcmin

GRIDview

File Settings Scaling Colorbar Catalogs Help

+ (5-50) + (50-100) Δ (100-200) Δ (200-300) □ (>300) mJy/beam




Dec [DMS] J2000

RA [HMS] J2000

Continuum Avg Pol

20
16
13
10
6
3
0



Dec [DMS] J2000

RA [HMS] J2000

Continuum weights display

Fetch NVSS images...

GRID: 1332+11 RA/DEC: --- ---
 2.4 X 2.4 degrees cz value: 6982,4472
 2500,34 to 7956,76 km/s (X,Y) pix: -----
 Epoch: 2000,00 Intensity: ---

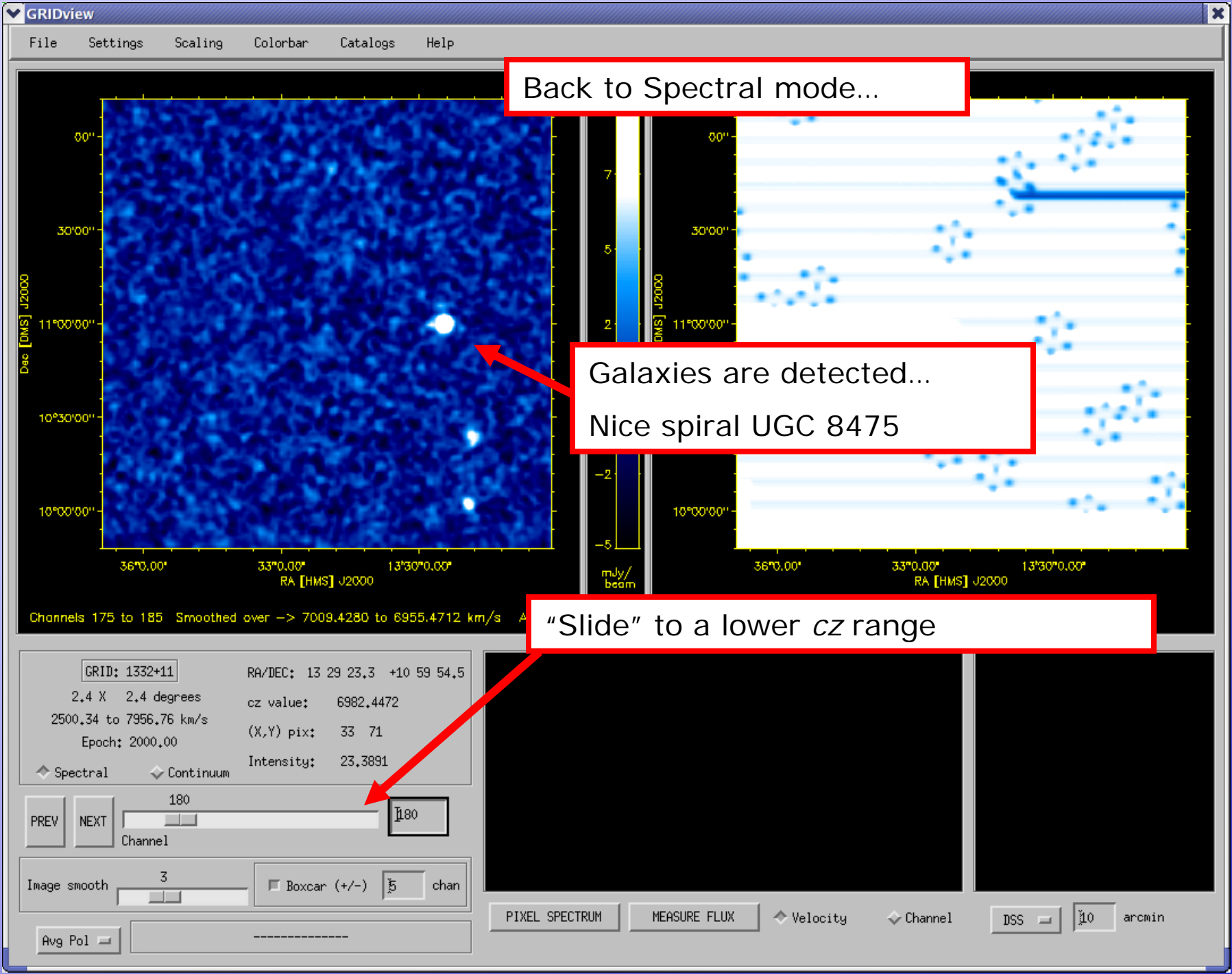
◊ Spectral ◊ Continuum

PREV NEXT Channel 180

Image smooth 3 Boxcar (+/-) 5 chan

Avg Pol

PIXEL SPECTRUM MEASURE FLUX ◊ Velocity ◊ Channel NVSS 20 arcmin



Back to Spectral mode...

Galaxies are detected...
Nice spiral UGC 8475

"Slide" to a lower cz range

GRID: 1332+11
2.4 X 2.4 degrees
2500.34 to 7956.76 km/s
Epoch: 2000.00
RA/DEC: 13 29 23.3 +10 59 54.5
cz value: 6982.4472
(X,Y) pix: 33 71
Intensity: 23.3891

Spectral Continuum
PREV NEXT Channel 180

Image smooth 3 Boxcar (+/-) 5 chan

PIXEL SPECTRUM MEASURE FLUX Velocity Channel DSS 10 arcmin

GRIDview

File Settings Scaling Colorbar Catalogs Help

Dec [DMS] J2000

RA [HMS] J2000

Channels 175 to 185 Smoothed over -> 7009.4280 to 6955.4712 km/s Avg Pol

mJy/beam

Dec [DMS] J2000

RA [HMS] J2000

Spectral weights display

Zoom in to focus on galaxies

GRID: 1332+11 RA/DEC: ---- ----

2.4 X 2.4 degrees cz value: 6982,4472

2500,34 to 7956,76 km/s (X,Y) pix: -----

Epoch: 2000,00 Intensity: ----

Spectral Continuum

PREV NEXT Channel: 180

Image smooth: 3 Boxcar (+/-) 5 chan

Avg Pol

PIXEL SPECTRUM MEASURE FLUX Velocity Channel DSS 10 arcmin

GRIDview

File Settings Scaling Colorbar Catalogs Help

Dec [DMS] J2000

RA [HMS] J2000

Channels 175 to 185 Smoothed over -> 7009.4280 to 6955.4712 km/s Avg Pol

mJy/beam

Spectral weights display

GRID: 1332+11

RA/DEC: ----

2.4 X 2.4 degrees

cz value: 6982,4472

2500,34 to 7956,76 km/s

(X,Y) pix: -----

Epoch: 2000,00

Intensity: ----

Spectral Continuum

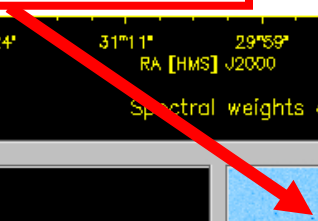
PREV NEXT Channel 180

Image smooth 3 Boxcar (+/-) 5 chan

Avg Pol

PIXEL SPECTRUM MEASURE FLUX Velocity Channel DSS 10 arcmin

Fetch images from DSS and Sloan



GRIDview

File Settings Scaling Colorbar Catalogs Help

Dec [DMS] J2000

RA [HMS] J2000

Channels 175 to 185 Smoothed over -> 7009.4280 to 6955.4712 km/s Avg Pol

Dec [DMS] J2000

RA [HMS] J2000

Spectral weights display

Grab spectrum from a single pixel in the data cube.

GRID: 1332+11

2.4 X 2.4 degrees

2500.34 to 7956.76 km/s

Epoch: 2000.00

RA/DEC: ---

cz value: 6982.4472

(X,Y) pix: -----

Intensity: ---

Spectral Continuum

PREV NEXT Channel

Image smooth Boxcar (+/-) chan

Avg Pol

Flux Density [mJy/beam]

Velocity [km/s]

PIXEL SPECTRUM MEASURE FLUX Velocity Channel

DSS arcmin

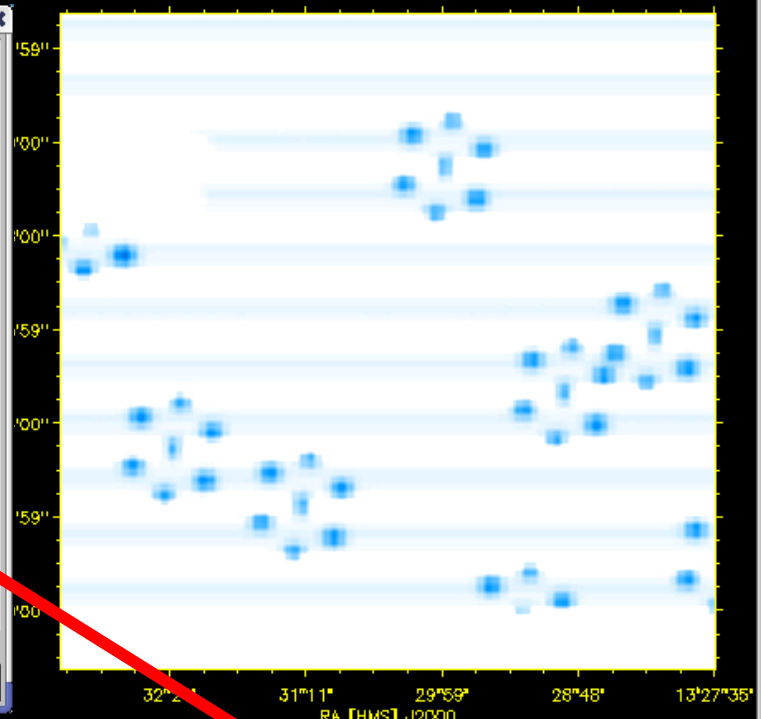
GRIDview
 File Settings Scaling Colorbar Catalogs Help

Gridview NED Results

25 objects found in NED. (within 10,000 arcminutes)

Name	RA(J2000)	DEC(J2000)	TYPE	VEL	Z	SKY DIST(arcmin)
*NGC 5175	13h29m26.2s	+10d59m43s	*	...	...	0.40
SDSS J132923.69+105930.5	13h29m23.7s	+10d59m31s	G	24469	0.081619	0.47
*NGC 5162	13h29m25.9s	+11d00m28s	G	6839	0.022812	0.62
SDSS J132910.04+105926.7	13h29m10.0s	+10d59m27s	G	>30000	0.333727	3.66
NVSS J132941+110023	13h29m41.9s	+11d00m23s	RadioS	...	...	4.23
MAPS-NGP 0_498_1231603	13h29m10.5s	+10d57m29s	G	...	...	4.26
SDSS J132936.79+105643.1	13h29m36.8s	+10d56m43s	G	>30000	0.101264	4.35
SDSS J132933.54+110455.2	13h29m33.5s	+11d04m55s	G	>30000	0.123089	5.44
NVSS J132911+110539	13h29m11.7s	+11d05m40s	RadioS	...	...	6.59
SDSS J132902.44+105455.8	13h29m02.4s	+10d54m56s	G	7118	0.023742	7.41
NVSS J132937+105224	13h29m37.2s	+10d52m25s	RadioS	...	...	8.09
SDSS J132945.76+105317.4	13h29m45.7s	+10d53m17s	G	>30000	0.116687	8.38
2MASX J13295633+1056182	13h29m56.3s	+10d56m18s	G	29784	0.099349	8.54
MAPS-NGP 0_498_1149966	13h29m36.1s	+11d08m02s	G	...	...	8.59
1WGA J1329.8+1054	13h29m51.4s	+10d54m03s	XrayS	...	...	8.77
SDSS J132953.61+110514.2	13h29m53.6s	+11d05m14s	G	>30000	0.122185	8.85
*SDSS J132901.41+105304.9	13h29m01.4s	+10d53m05s	QSO	>30000	1.933120	8.92
UGC 08486	13h29m56.7s	+11d04m20s	G	6730	0.022449	8.99
1WGA J1329.8+1106	13h29m50.3s	+11d06m28s	XrayS	...	...	9.07
2MASX J13284866+1101572	13h28m48.6s	+11d01m57s	G	6152	0.020521	9.11
NVSS J132925+105039	13h29m26.0s	+10d50m40s	RadioS	...	...	9.25
SDSS J132905.17+105153.3	13h29m05.2s	+10d51m53s	QSO	>30000	1.218970	9.36
SDSS J132848.27+110258.9	13h28m48.3s	+11d02m59s	G	>30000	0.122094	9.47
SDSS J132929.96+105022.8	13h29m29.9s	+10d50m23s	G	>30000	0.263061	9.61
SDSS J132852.21+110549.2	13h28m52.2s	+11d05m49s	G	4273	0.014252	9.94

Done



Fetch data from NASA Extragalactic database

Channels 175 to 185 Smoothed over -> 7009.4280 to 6955.4712 km/s Avg Pol

GRID: 1332+11 RA/DEC: ---

2.4 X 2.4 degrees cz value: 6982.4472

2500.34 to 7956.76 km/s (X,Y) pix: ---

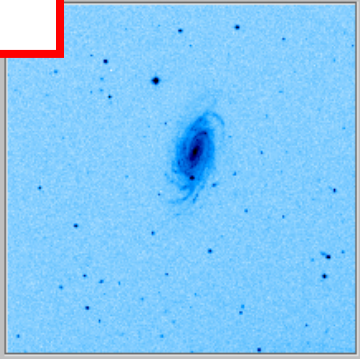
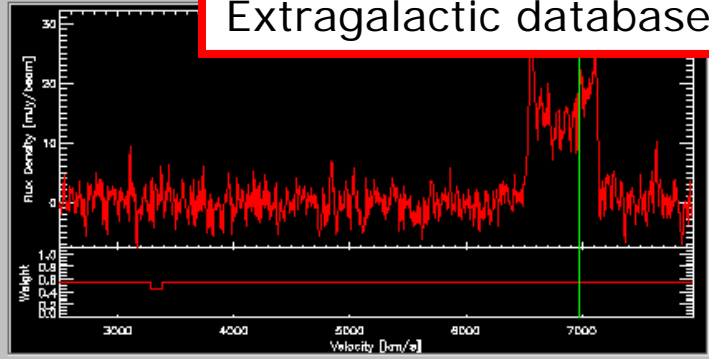
Epoch: 2000.00 Intensity: ---

Spectral Continuum

PREV NEXT Channel 180

Image smooth 3 Boxcar (+/-) 5 chan

Avg Pol



PIXEL SPECTRUM MEASURE FLUX Velocity Channel DSS 10 arcmin

GRIDview

File Settings Scaling Colorbar Catalogs Help

Dec [DMS] J2000

11°59'00" 00'00" 48'00" 35'59" 24'00" 10°11'59" 10°30'00"

32°24' 31°11' 29°59' 28°48' 13°27'35"

RA [HMS] J2000

Channels 175 to 185 Smoothed over -> 7009.4280 to 6955.4712 km/s Avg Pol

GRID: 1332+11 RA/DEC: --- ---
2.4 X 2.4 degrees cz value: 6982.4472
2500.34 to 7956.76 km/s (X,Y) pix: --- ---
Epoch: 2000.00 Intensity: --- ---

Spectral Continuum

PREV NEXT Channel 180

Image smooth 3 Boxcar (+/-) 5 chan

Avg Pol

Weight 3000

R flux density [mJy/beam]

DSS VIEW

File Help

10,000000 arcmin optical image centered at 132924.7+105954.5

10 arcminute optical image centered at RA: 13.490218 hours, Dec: 10.998485 degrees

Decination [Dms]

11°00'00" 10°57'00"

29°38' 29°31' 29°24' 29°16' 13°29'09"

Right Ascension [hms]

DSS 2 Blue Left click image to recenter Image Size: 10,0000 arcminutes

PIXEL SPECTRUM WERSKE FLOW velocity Channel DSS 10 arcmin

Obtain a larger image and position

GRIDview File Settings Scaling Colorbar Catalogs Help

Dec [DMS] J2000
11°59"
00'00"
48'00"
35'59"
24'00"
10°11'59"
10°30'00"

RA [HMS] J2000
32°24' 31°11' 29°59' 28°48' 13°27'35"

Channels 175 to 185 Smoothed over -> 7009.4280 to 6955.4712 km/s Avg Pol

GRID: 1332+11 RA/DEC: --- ---
2.4 X 2.4 degrees cz value: 6982.4472
2500.34 to 7956.76 km/s (X,Y) pix: --- ---
Epoch: 2000.00 Intensity: --- ---

Spectral Continuum

PREV NEXT Channel 180

Image smooth 3 Boxcar (+/-) 5 chan

Avg Pol

Weight
3000

RADIAL PROFILE

DSS VIEW File Help

10,000000 arcmin optical image centered at 132924.7+105954.5

10 arcminute optical image centered at RA: 13.490218 hours, Dec: 10.998485 degrees

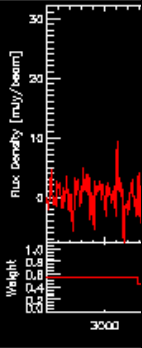
Dec [DMS]
03'00"
11°00'00"
10°57'00"

Right Ascension [hms]
29°38' 29°31' 29°24' 29°16' 13°29'09"

Sloan Left click image to recenter Image Size: 10,000 arcminutes

PIXEL SPECTRUM WISE FLOW velocity Channel DSS 10 arcmin

Sloan too!



GRIDview

File Settings Scaling Colorbar Catalogs Help

Dec [DMS] J2000

RA [HMS] J2000

mJy/beam

Dec [DMS] J2000

RA [HMS] J2000

Spectral weights display

Measure an integrated profile within a user defined box.

Channels 175 to 185 Smoothed over -> 7009.4280 to 6955.4712 km/s Avg Pol

GRID: 1332+11

2.4 X 2.4 degrees

2500.34 to 7956.76 km/s

Epoch: 2000.00

RA/DEC: ----

cz value: 6982.4472

(X,Y) pix: -----

Intensity: ----

Spectral Continuum

PREV NEXT Channel 180

Image smooth 3 Boxcar (+/-) 5 chan

Avg Pol

Flux Density [mJy/beam]

Velocity [km/s]

Weight

PIXEL SPECTRUM MEASURE FLUX

Velocity Channel

DSS 10 arcmin

GALflux File Settings Options Median Sky Imaging Help

Profile at the Half level

2 Peaks Fit

Weight

Map max flux= 14562.03 at pix(5,5)

Contour
 Half
 Quarter
 100
 200
 300
 500
 1000

Y pixel
 X pixel

Dec degrees
 RA hours

BASELINE MODE

LEFT-click the map to mark baselined regions.
 RIGHT-click to drag a zoom box.
 DRAG the slider to adjust the fit order.
 GALflux will fit a baseline when an even number of marks have been placed.
 LEFT-click existing markers and drag to the desired positions.
 Click the ISOPHOTE drop down menu to cycle through the various profiles, and examine the fits. Click the Remove Baselines Box when completed.
 Click Reset baseline to begin again.

Integrated profile created...

Xmin: 0 Xmax: 1023 Ymin: -20 Ymax: 30 Rescale

Channel: 593 Velocity: 4770.10 km/s Flux Density: 72.73 mJy

MODE: Hanning:

BASELINE: Fit order: 4 Remove Baseline?

ISOPHOTE: Modify all in isophote list?

Gaussian Width: 7 channels

MSR MODE:

Add an AGC entry Digital HI Archive entries

Do not add an AGC galaxy

233557

8475

8475 - click here for Archive data.

AGC8475 Type= Sc a x b= 3.70 x 2.00 arcminutes
 Other ID: N5174 Optical coords (J2000)= 132925.799+110028.00
 Ellipse fit compare: deltaRA= 0.64329 seconds
 deltaDEC= -2.00000 arcseconds
 Vopt= 6779 +/- 29 km/s Detcode= 1
 V21= 6826 km/s Width= 597 +/- 7 km/s

GALflux File Settings Options Median Sky Imaging Help

Profile at the Half level

2 Peaks Fit

BASELINE MODE

LEFT-click the map to mark baselined regions.
 RIGHT-click to drag a zoom box.
 DRAG the slider to adjust the fit order.
 GALflux will fit a baseline when an even number of marks have been placed.
 LEFT-click existing markers and drag to the desired positions.
 Click the ISOPHOTE drop down menu to cycle through the various profiles, and examine the fits. Click the Remove Baselines Box when completed.
 Click Reset baseline to begin again.

Choose mode Measure for the next step...

Xmin: 0 Xmax: 1023 Ymin: -20 Ymax: 30 Rescale

Channel: 593 Velocity: 4770.10 km/s Flux Density: 72.73 mJy

MODE: Hanning:

order: 4 Remove Baseline?

ISOPHOTE: Modify all in isophote list?

Gaussian Width: 7 channels

MSR MODE:

Add an AGC entry Digital HI Archive entries

Do not add an AGC galaxy

233557

8475

8475 - click here for Archive data.

AGC8475 Type= Sc a x b= 3.70 x 2.00 arcminutes
 Other ID: N5174 Optical coords (J2000)= 132925.799+110028.00
 Ellipse fit compare: deltaRA= 0.64329 seconds
 deltaDEC= -2.00000 arcseconds
 Vopt= 6779 +/- 29 km/s Detcode= 1
 V21= 6826 km/s Width= 597 +/- 7 km/s

Weight

Map max flux= 14562.03 at pix(5,5)

Contour

- Half
- Quarter
- 100
- 200
- 300
- 500
- 1000

Ellipses fit at various levels...

11.08
11.04
11.02
11.00
10.98
10.96
10.94

13.494 13.492 13.490 13.488 13.486

RA hours

GALflux File Settings Options Median Sky Imaging Help

Profile at the Half level

2 Peaks Fit

BASELINE MODE

LEFT-click the map to mark baselined regions.
 RIGHT-click to drag a zoom box.
 DRAG the slider to adjust the fit order.
 GALflux will fit a baseline when an even number of marks have been placed.
 LEFT-click existing markers and drag to the desired positions.
 Click the ISOPHOTE drop down menu to cycle through the various profiles, and examine the fits. Click the Remove Baselines Box when completed.
 Click Reset baseline to begin again.

Choose mode Measure for the next step...

Xmin: 0 Xmax: 1023 Ymin: -20 Ymax: 30 Rescale

Channel: 593 Velocity: 4770.10 km/s Flux Density: 72.73 mJy

Optical image obtained...

Weight

Map max flux= 14562.03 at pix(5,5)

Contour

- Half
- Quarter
- 100
- 200
- 300
- 500
- 1000

8475
233557

anning: None Sys Err

BASELINE: Reset baseline Fit order: 4 Remove Baseline?

ISOPHOTE: Half Modify all in isophote list?

PEAKS fit PEAKS reset One peak Two peaks

GAUSS fit GAUSS reset Gaussian Width: 7 channels

MSR MODE: Gaussian Peaks

Add an AGC entry Digital HI Archive entries

Do not add an AGC galaxy

233557

8475

8475 - click here for Archive data.

AGC8475 Type= Sc a x b= 3.70 x 2.00 arcminutes
 Other ID: N5174 Optical coords (J2000)= 132925.799+110028.00
 Ellipse fit compare: deltaRA= 0.64329 seconds
 deltaDEC= -2.00000 arcseconds
 Vopt= 6779 +/- 29 km/s Detcode= 1
 V21= 6826 km/s Width= 597 +/- 7 km/s

GALflux

File Settings Options Median Sky Imaging Help

Profile at the Half level

2 Peaks Fit

Weight

Map max flux = 14562.03 at pix(5,5)

Contour
Half
Quarter
100
200
300
500
1000

X pixel Y pixel

Dec degre RA hours

Catalogs are queried, names resolved...

BASELINE MODE

LEFT-click the map to mark baselined regions.
RIGHT-click to drag a zoom box.
DRAG the slider to adjust the fit order.
GALflux will fit a baseline when an even number of marks have been placed.
LEFT-click existing markers and drag to the desired positions.
Click the ISOPHOTE drop down menu to cycle through the various profiles, and examine the fits. Click the Remove Baselines Box when completed.
Click Reset baseline to begin again.

Choose mode Measure for the next step...

Xmin: 0 Xmax: 1023 Ymin: -20 Ymax: 30 Rescale

Channel: 593 Velocity: 4770.10 km/s Flux Density: 72.73 mJy

MODE: Hanning:

BASELINE: Fit order: 4 Remove Baseline?

ISOPHOTE: Modify all in isophote list?

One peak Two peaks

Gaussian Width: 7 channels

MSR MODE: Gaussian Peaks

Add an AGC entry Digital HI Archive entries

Do not add an AGC galaxy

233557

8475

AGC8475 Type= Sc a x b= 3.70 x 2.00 arcminutes
Other ID: N5174 Optical coords (J2000)= 132925.799+110028.00
Ellipse fit compare: deltaRA= 0.64329 seconds
deltaDEC= -2.00000 arcseconds
Vopt= 6779 +/- 29 km/s Detcode= 1
V21= 6826 km/s Width= 597 +/- 7 km/s

GALflux File Settings Options Median Sky Imaging Help

Profile at the Half level

Flux Density [mJy]

Channel

2 Peaks Fit

Weight

Map max flux = 14562.03 at pix(5,5)

Y pixel

X pixel

Contour
Half
Quarter
100
200
300
500
1000

Dec degrees

RA hours

BASELINE MODE

LEFT-click the map to mark baselined regions.
RIGHT-click to drag a zoom box.
DRAG the slider to adjust the fit order.
GALflux will fit a baseline when an even number of marks have been placed.
LEFT-click existing markers and drag to the desired positions.
Click the ISOPHOTE drop down menu to cycle through the various profiles, and examine the fits. Click the Remove Baselines Box when completed.
Click Reset baseline to begin again.

Choose mode Measure for the next step...

Xmin: 0 Xmax: 1023 Ymin: -20 Ymax: 30 Rescale

Channel: 593 Velocity: 4770.10 km/s Flux Density: 72.73 mJy

MODE: Ellipse Baseline Measure Hanning: None Sys Err

BASELINE: Reset baseline Fit order: 4 Remove Baseline?

ISOPHOTE: Half

PEAKS fit PEAKS reset One peak Two peaks

GAUSS fit GAUSS reset Gaussian Width: 7 channels

MSR MODE: Gaussian Peaks

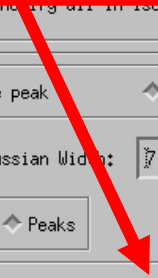
Add an AGC entry Digital HI Archive entries

Do not add an AGC galaxy 233557 8475

8475 - click here for Archive data.

AGC8475 Type= Sc a x b= 3.70 x 2.00 arcminutes
Other ID: N5174 Optical coords (J2000)= 132925.799+110028.00
Ellipse fit compare: deltaRA= 0.64329 seconds
deltaDEC= -2.00000 arcseconds
Vopt= 6779 +/- 29 km/s Detcode= 1
V21= 6826 km/s Width= 597 +/- 7 km/s

Query the Digital HI Archive, and...



GALflux
 File Settings Options Median Sky Imaging Help

Compare with the Digital HI Archive

AGC 8475 FWHM integrated profile

AGC 8475 Digital HI Archive entry

2 Peaks FIT RESULTS for FWHM isophote

```

Object: HI132925.2+110030
132925.2+110101 centroid
132925.2+110030 ellipse
V20 = 0.0 W20= 0.0+/- 0.0 km/s
V50 = 0.0 W50= 0.0+/- 0.0 km/s
Total Flux = 0.00+/-0.00 Jy km/s
Mean Flux Density = 0.00 mJy
rms = 0.00 mJy
S/N = 0.00 0.00 0.00 0.00
a_ell x b_ell = 4.9 x 4.0 arcminutes
iso(0) = 7281 mJy km/s npix= 16
Max flux in map =14562. Continuum = 11. mJy
*****
  
```

DIGITAL HI ARCHIVE DATA (Springob et al. 2005)

```

AGC 8475 Other ID: N5174
Coordinates (J2000): 132925.8+110028
a x b Optical size: 3.7 x 2.0 arcminutes
Morph. Type: 5
Observed Flux: 14.0700 Jy km/s
Corrected Flux: 15.1100 Jy km/s
Absorption corrected Flux: 16.2700 Jy km/s
EPSS: 1.71000 Jy km/s
RMS: 3.36000 mJy
SNR: 18.1000
VHELIO: 6827 km/s
WF50: 594 km/s
WM50: 633 km/s
WP50: 587 km/s
WP20: 641 km/s
W2P50: 597 km/s
WC: 569 km/s
EPSM: 9 km/s
Telescope: GB300
Bandwidth: 10000 kHz
Channels: 192
  
```

Compare with previous spectra...

mark baselined regions.
 zoom box.
 just the fit order.
 eline when an even number of marks have been placed.
 rkers and drag to the desired positions.
 p down menu to cycle through the various profiles, and
 Click the Remove Baselines Box when completed.
 o begin again.

the next step...

1023 Ymin: -20 Ymax: 50 Rescale

Baseline Measure Hanning: None Sys Err

line Fit order: 4 Remove Baseline?

Modify all in isophote list?

reset One peak Two peaks

reset Gaussian Width: 7 channels

Peaks

Digital HI Archive entries
 8475 - click here for Archive data.

AGC8475 Type= Sc a x b= 3.70 x 2.00 arcminutes
 Other ID: N5174 Optical coords (J2000)= 132925.799+110028.00
 Ellipse fit compare: deltaRA= 0.64329 seconds
 deltaDEC= -2.00000 arcseconds
 Vopt= 6779 +/- 29 km/s Detcode= 1
 V21= 6826 km/s Width= 597 +/- 7 km/s

ALFALFA Catalog creator

File Imaging

- HI132722,2+111530_1332+11b.src
- HI132730,1+110157_1332+11b.src
- HI132732,3+114341_1332+11b.src
- HI132801,6+101530_1332+11c.src
- HI132827,8+120015_1332+11d.src
- HI132829,7+104249_1332+11b.src
- HI132846,1+105719_1332+11a.src
- HI132848,9+102306_1332+11b.src
- HI132852,6+114518_1332+11b.src
- HI132854,0+110521_1332+11b.src
- HI132854,6+100230_1332+11b.src
- HI132906,1+101520_1332+11b.src
- HI132918,6+112050_1332+11d.src
- HI132925,5+110023_1332+11b.src
- HI132931,3+114442_1332+11c.src
- HI132933,1+114219_1332+11b.src
- HI132943,9+095637_1332+11b.src
- HI132946,4+102535_1332+11b.src
- HI132953,9+112111_1332+11b.src

- STATUS
- ◆ No status
 - ◆ Detection
 - ◆ Prior
 - ◆ Marginal
 - ◆ Low StN

HI132933,1+114219

V50,M50:	6549.8	117.3+/- 14.1	km/s	Cent_ell:	132933.1+114219	[2000]
V20,M20:	6542.8	144.3+/- 14.1	km/s	Opt pos:	132935.5+114150	[2000]
Vcen:	6578.5+/-	7.0	km/s	dRA:	2.37883	sec
V,w Gauss:	0.0	0.0+/- 0.0	km/s	dDec:	-29.09	arcsec
Stot(profile, P):	0.83+/-	0.09	Jy km/s	Ellipse:	4.5 x 3.0	PA= 41.
Stot(profile, G):	0.00+/-	0.00	Jy km/s	Isophote:	415.	mJy km/s
Map Stot:	0.83+/-	0.00	Jy km/s	Map Smax:	830.	mJy km/s
meanS, peakS:	3.2	11.1	mJy	rms:	2.50	mJy
S/N P:	4.7	1.3	4.5	9.0		
S/N G:	0.0	0.0	0.0	0.0		
Cont:	11.	mJy		AGC230367		
Status Code:	0					

MODIFY PARAMETERS

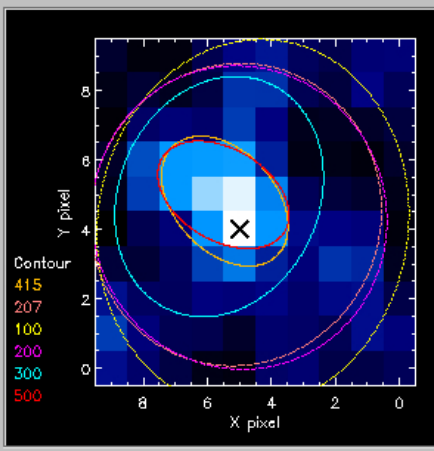
Optical Coordinates

Signal/Noise

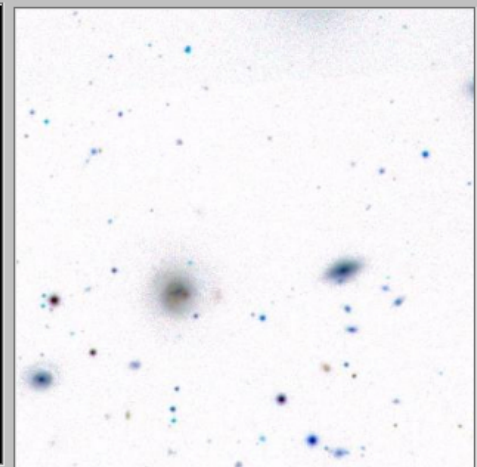
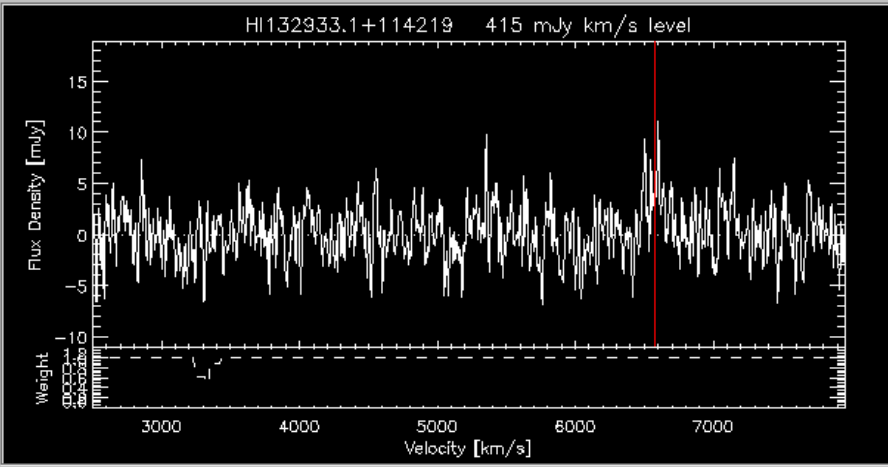
Velocity Err Stat/Sys /

Width Err Stat/Sys /

Matches with HI Archive,
but there is another galaxy there too!



Select Isophote:



-
-
-

ALFALFA Catalog creator

File Imaging

- HI132852,6+114518_1332+11b.src
- HI132854,0+110521_1332+11b.src
- HI132854,6+100230_1332+11b.src
- HI132906,1+101520_1332+11b.src
- HI132918,6+112050_1332+11d.src
- HI132925,5+110023_1332+11b.src
- HI132931,3+114442_1332+11c.src
- HI132933,1+114219_1332+11b.src
- HI132943,9+095637_1332+11b.src
- HI132946,4+102535_1332+11b.src
- HI132953,9+112111_1332+11b.src
- HI132954,4+110400_1332+11b.src**
- HI133003,1+121030_1332+11d.src
- HI133015,2+113310_1332+11b.src
- HI133039,6+113550_1332+11b.src
- HI133049,7+110449_1332+11d.src
- HI133103,3+110245_1332+11b.src
- HI133111,8+113134_1332+11b.src
- HI133118,6+104050_1332+11b.src

- STATUS
- ◆ No status
 - ◆ Detection
 - ◆ Prior
 - ◆ Marginal
 - ◆ Low StN

HI132954,4+110400

V50, M50:	6752.5	258.0+/- 13.8	km/s	Cent_ell:	132954,4+110400	[2000]
V20, M20:	6758.5	283.2+/- 13.8	km/s	Opt pos:	132956,8+110419	[2000]
Vcen:	6752.2+/-	6.9	km/s	dRA:	2.44013	sec
V, W Gauss:	0.0	0.0+/- 0.0	km/s	dDec:	19.00	arcsec
Stot(profile, P):	1.67+/-	0.09	Jy km/s	Ellipse:	6.2 x 4.4	PA=-130.
Stot(profile, G):	0.00+/-	0.00	Jy km/s	Isophote:	811.	mJy km/s
Map Stot:	1.42+/-	0.00	Jy km/s	Map Smax:	1621.	mJy km/s
meanS, peakS:	4.6	9.5	mJy	rms:	2.14	mJy
S/N P:	8.7	2.1	4.4	17.7		
S/N G:	0.0	0.0	0.0	0.0		
Cont:	3.	mJy		AGC8486		
Status Code:	0					

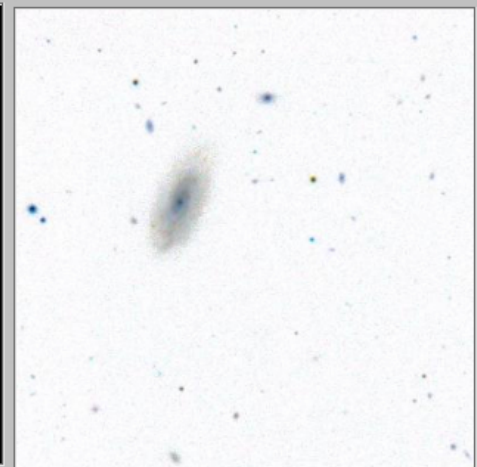
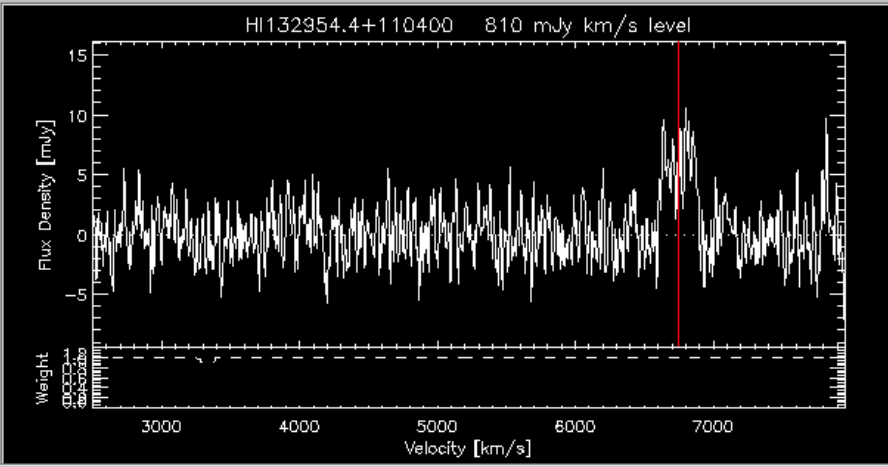
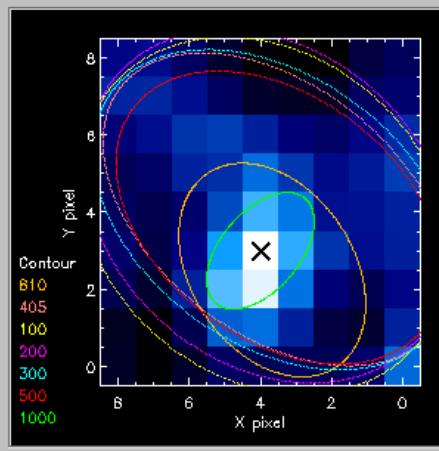
MODIFY PARAMETERS

Optical Coordinates:

Signal/Noise:

Velocity Err Stat/Sys: /

Width Err Stat/Sys: /



Select Isophote:

-
-
-