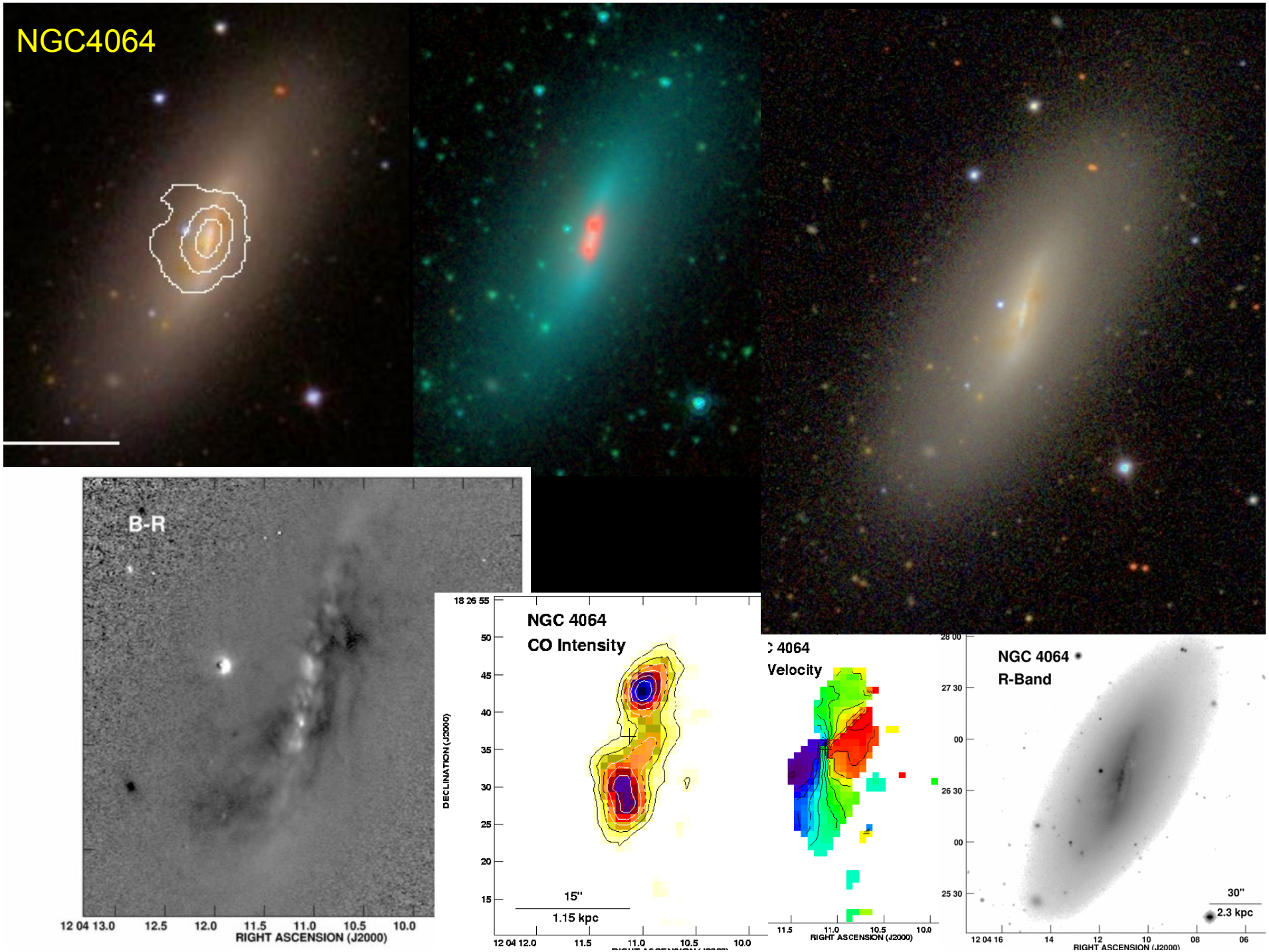

NGC4064
B-R
12 04 13.0
12.5
12.0
11.5
11.0
10.5
10.0
RIGHT ASCENSION (J2000)
NGC 4064
CO Intensity
DECLINATION (J2000)
18 26 55
50
45
40
35
30
25
20
15
15"
1.15 kpc
12 04 12.0
11.5
11.0
10.5
10.0
4064
Velocity
RIGHT ASCENSION (J2000)
NGC 4064
R-Band
28 00
27 30
00
26 30
00
25 30
30"
2.3 kpc
12 04 16
14
12
10
08
06
RIGHT ASCENSION (J2000)

NGC 4064

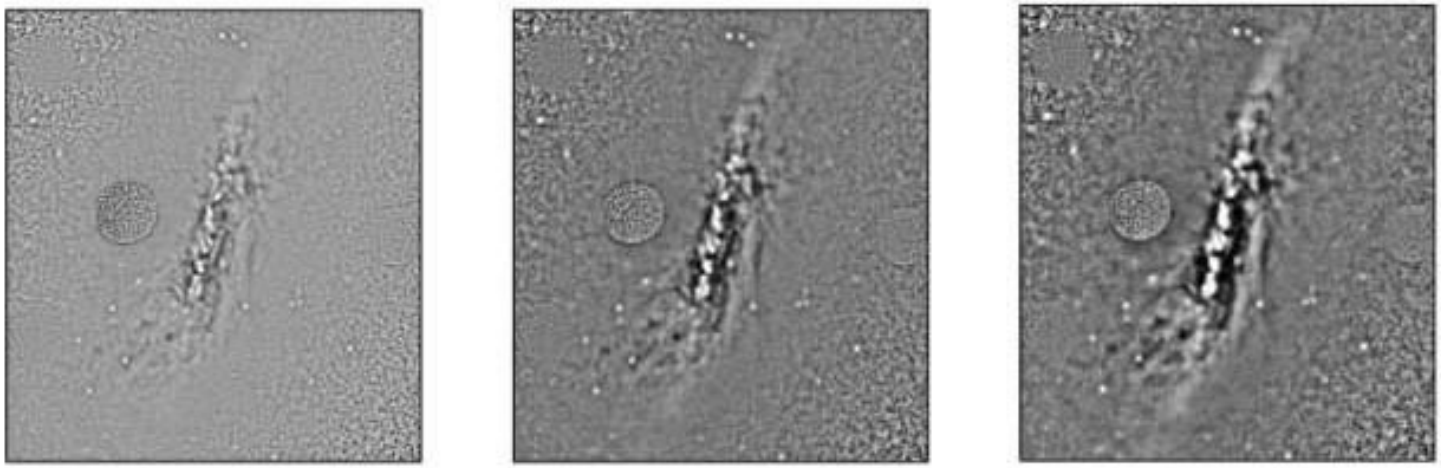
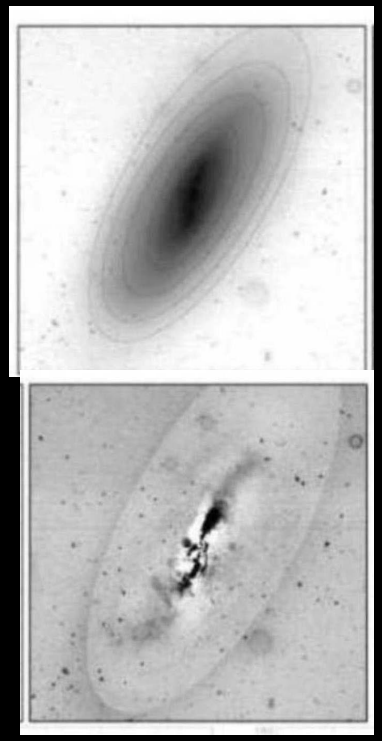


Fig. 1.- Unsharp masking with a gaussian kernel of 2, 4 and 6 pixels. Inner structures are revealed by dividing the original image with the convolved it one.



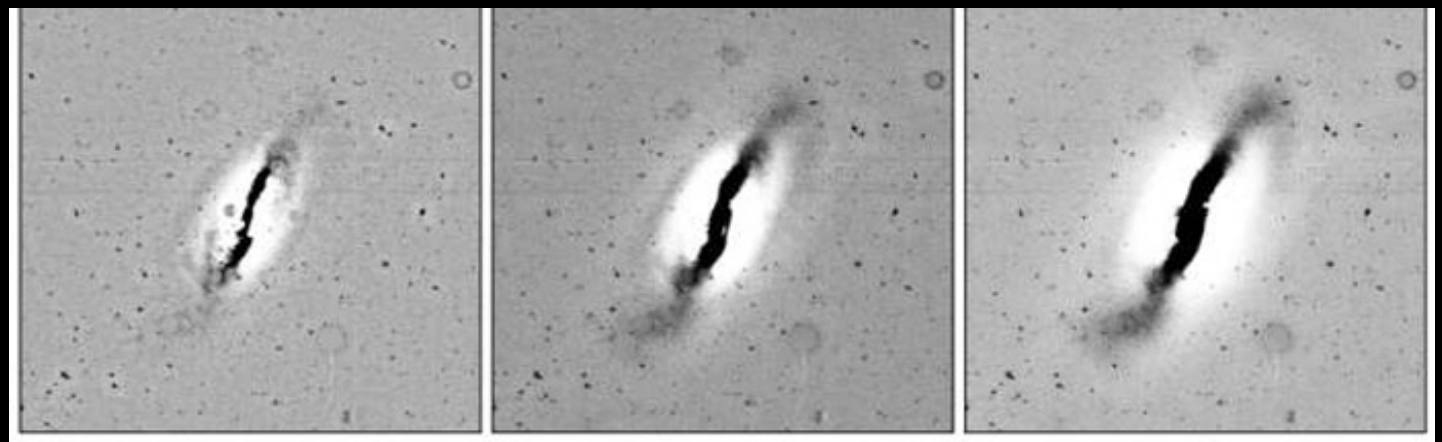
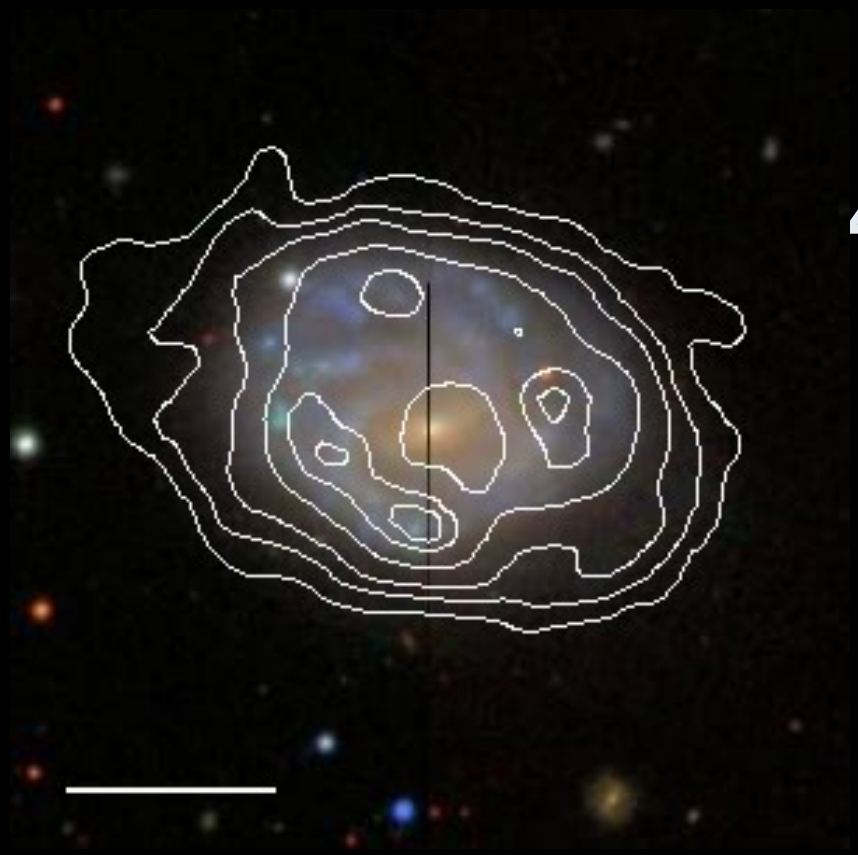
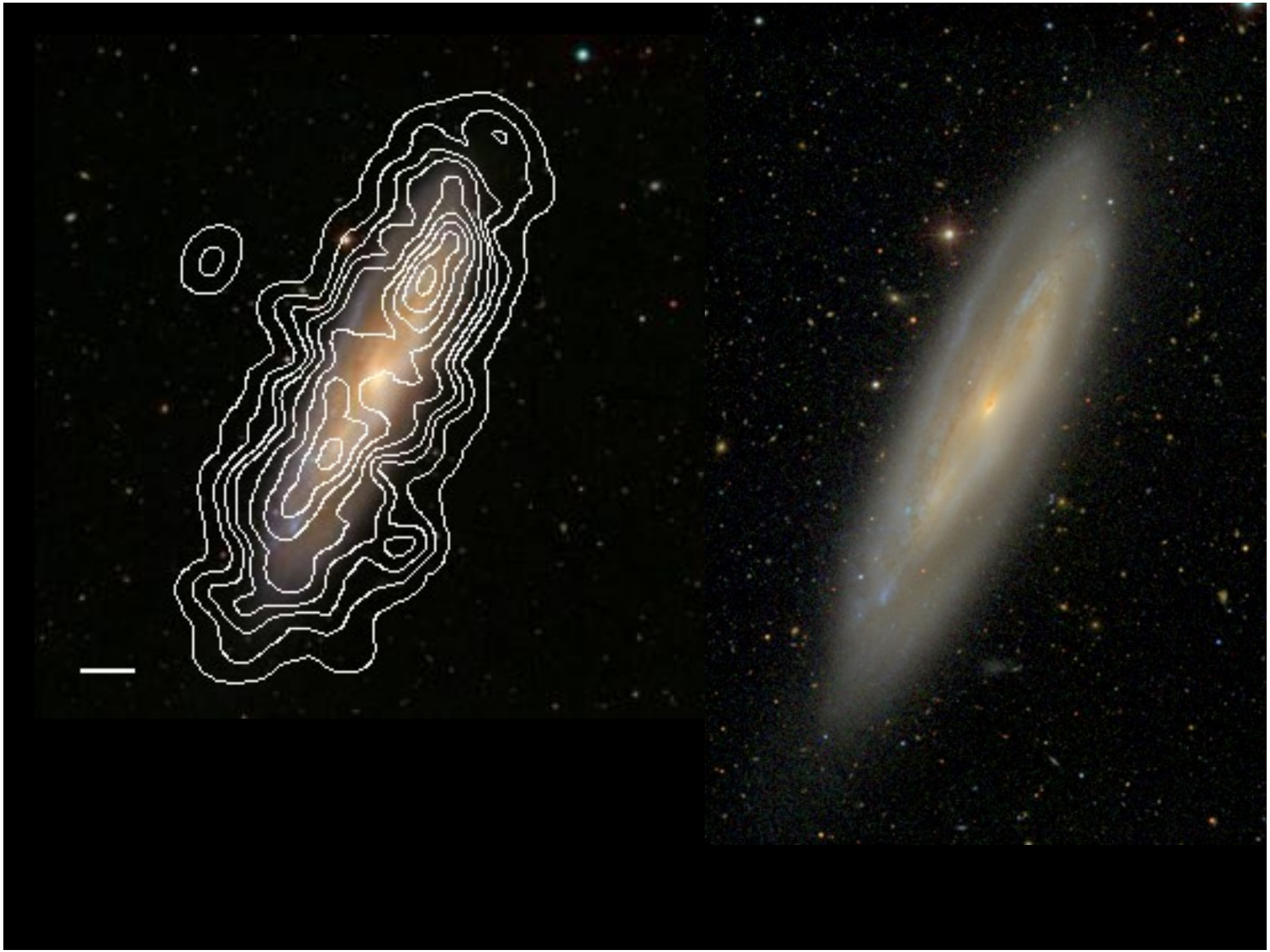


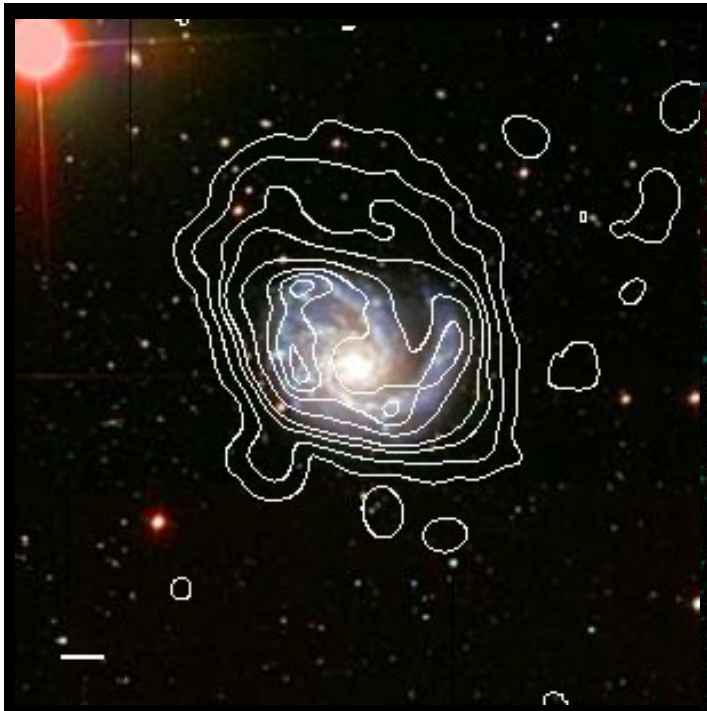
Fig. 2.- Unsharp masking with a median kernel of 101, 201, and 301 pixels. Outer faint structures are revealed by substracting to the original image, the median filtered one.

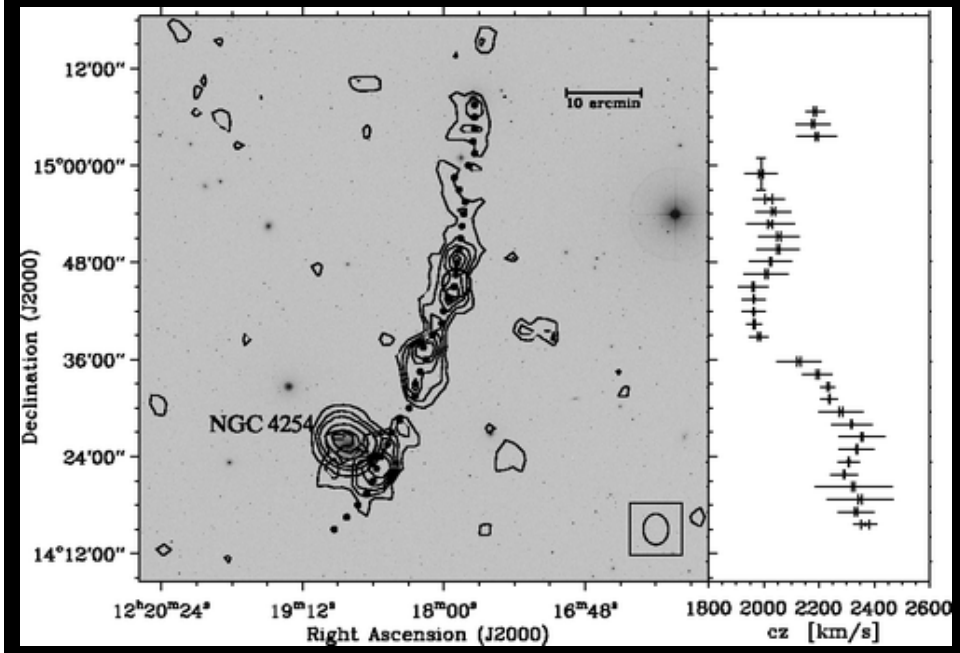


4189




NGC 4216




12'00"
15°00'00"
48'00"
36'00"
24'00"
14°12'00"
Declination (J2000)
10 arcmin
NGC 4254
12h20m24s
19m12s
18m00s
16m48s
Right Ascension (J2000)
1800 2000 2200 2400 2600
cz [km/s]

NGC 4293

2,6,8 pixels

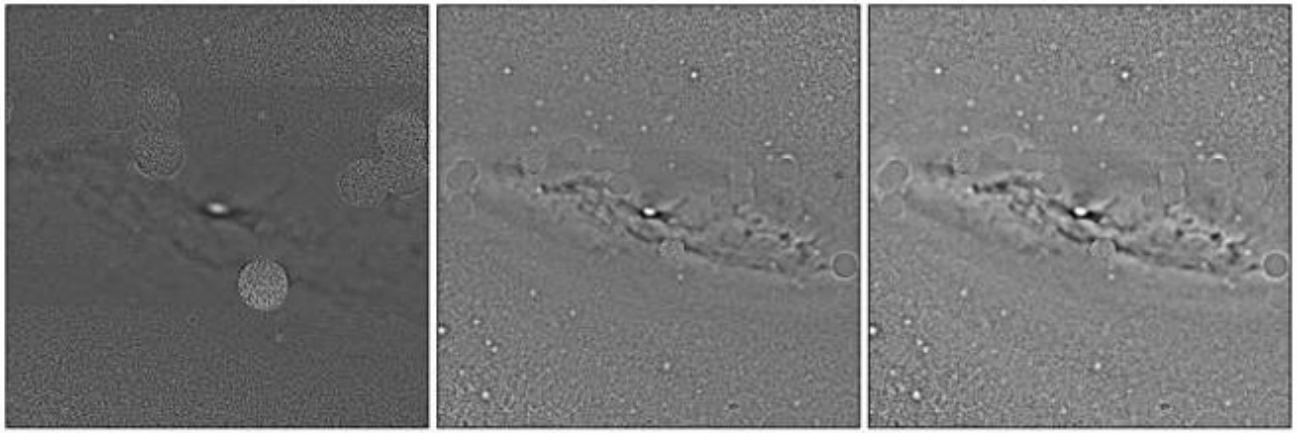
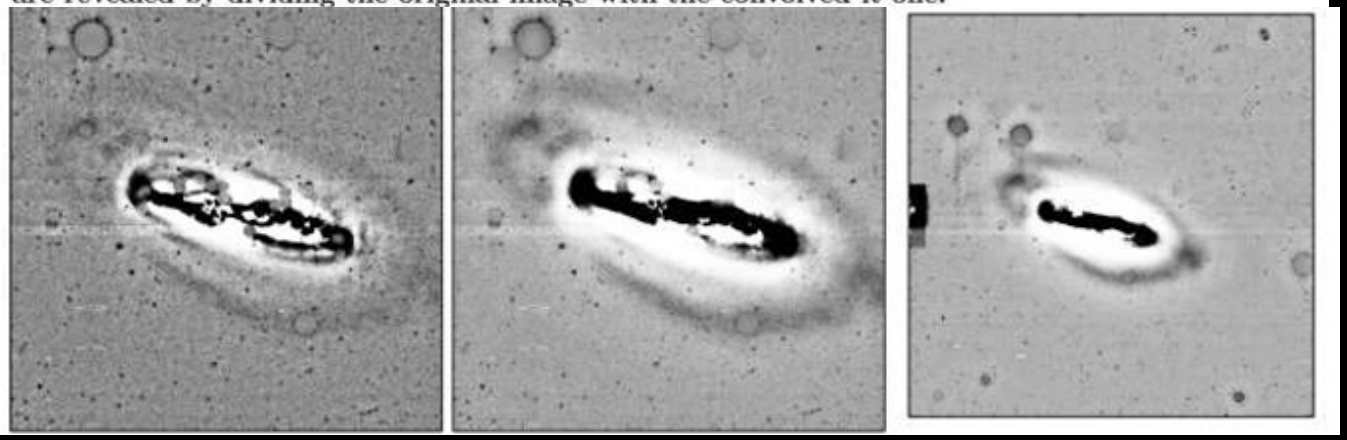
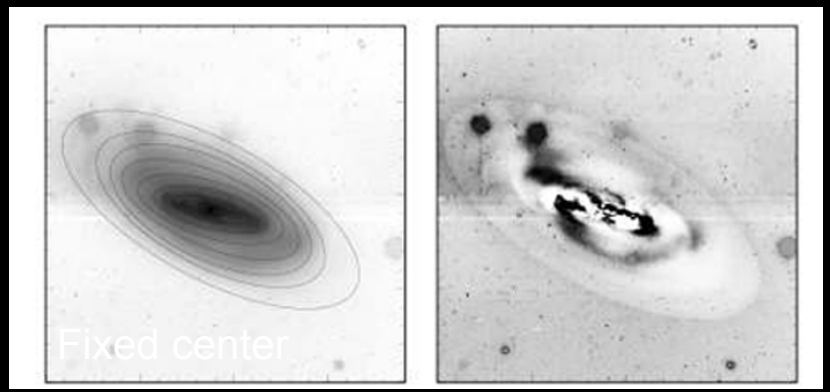
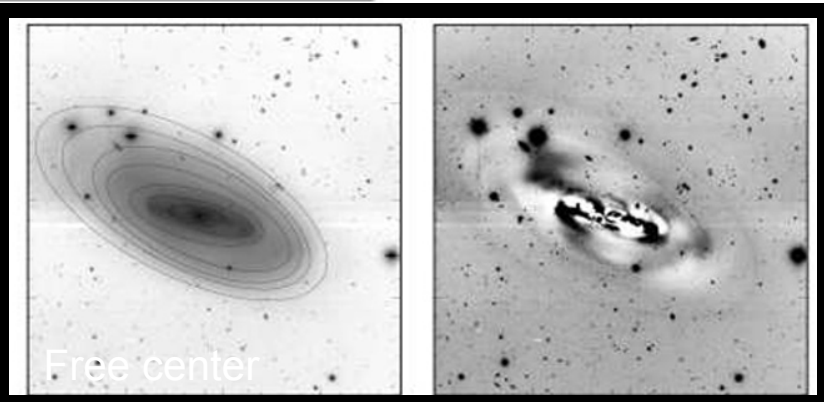


Fig. 1.- Unsharp masking with a gaussian kernel of 2, 6 and 8 pixels. Inner structures are revealed by dividing the original image with the convolved it one.

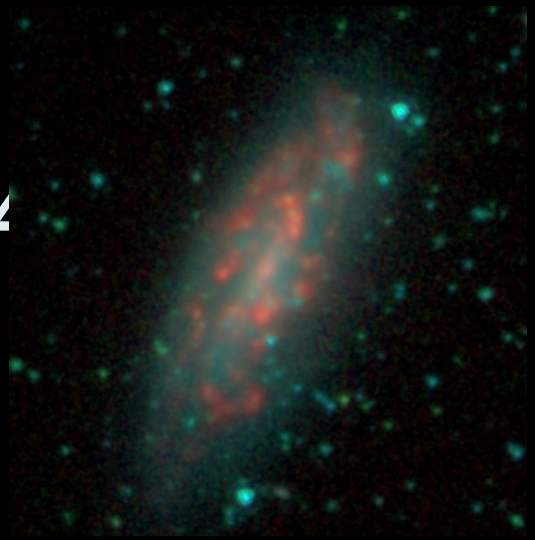
100,200,300 pixels

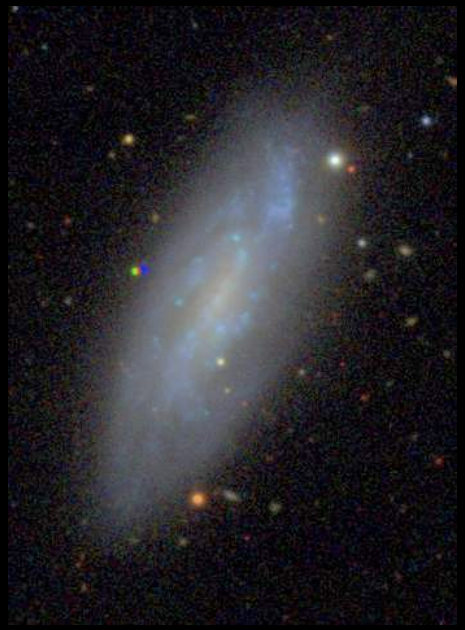


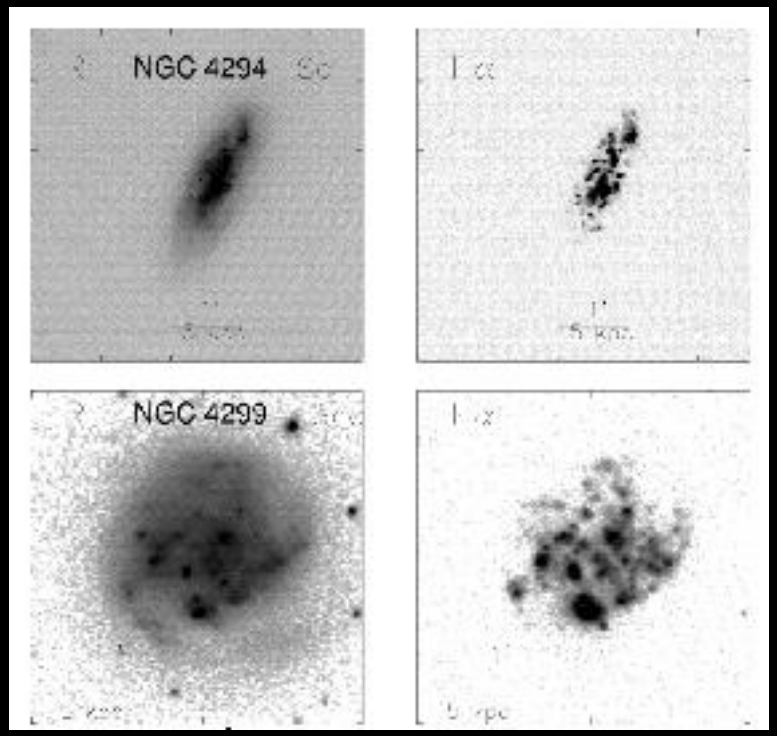


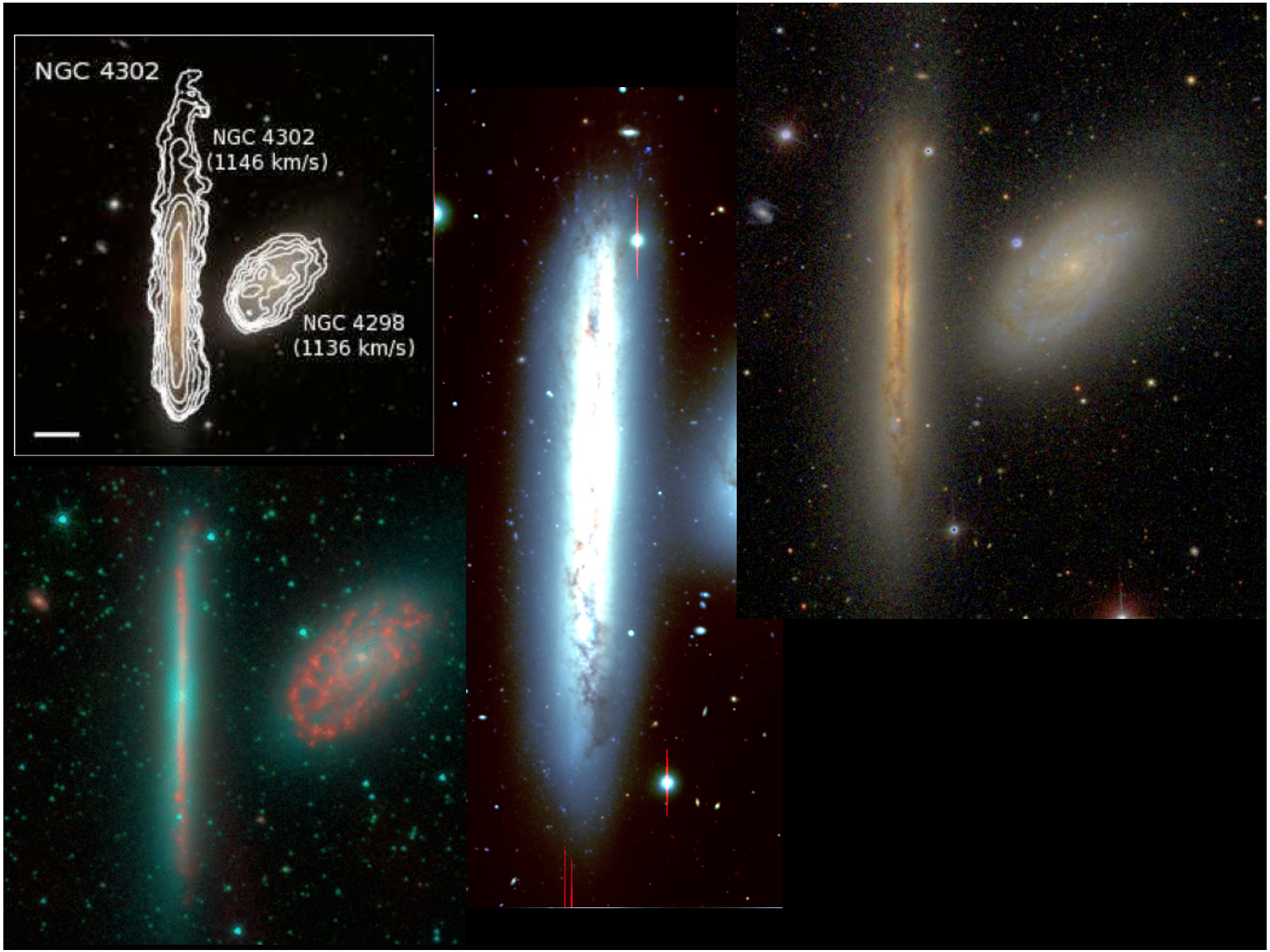


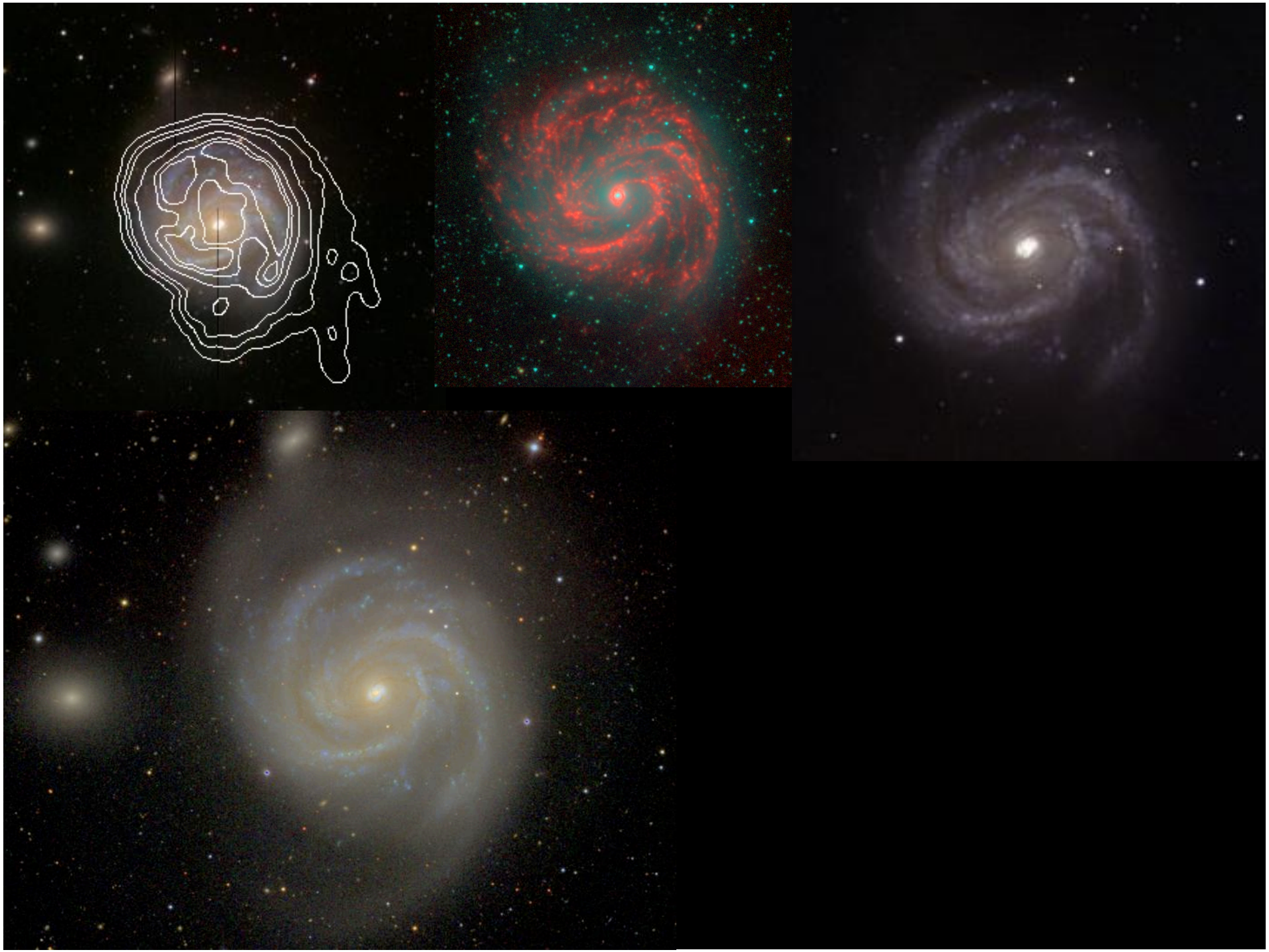
gC4

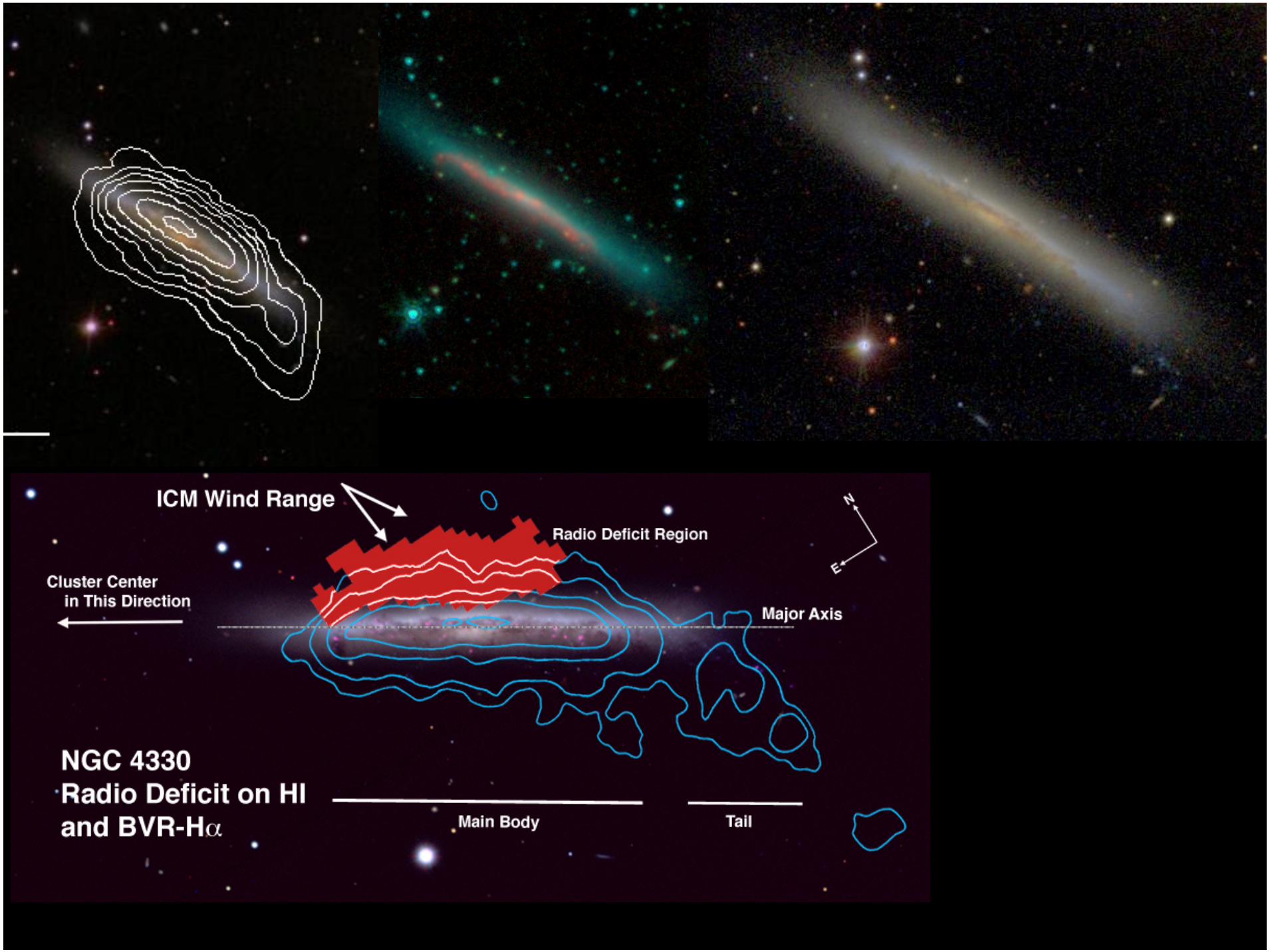


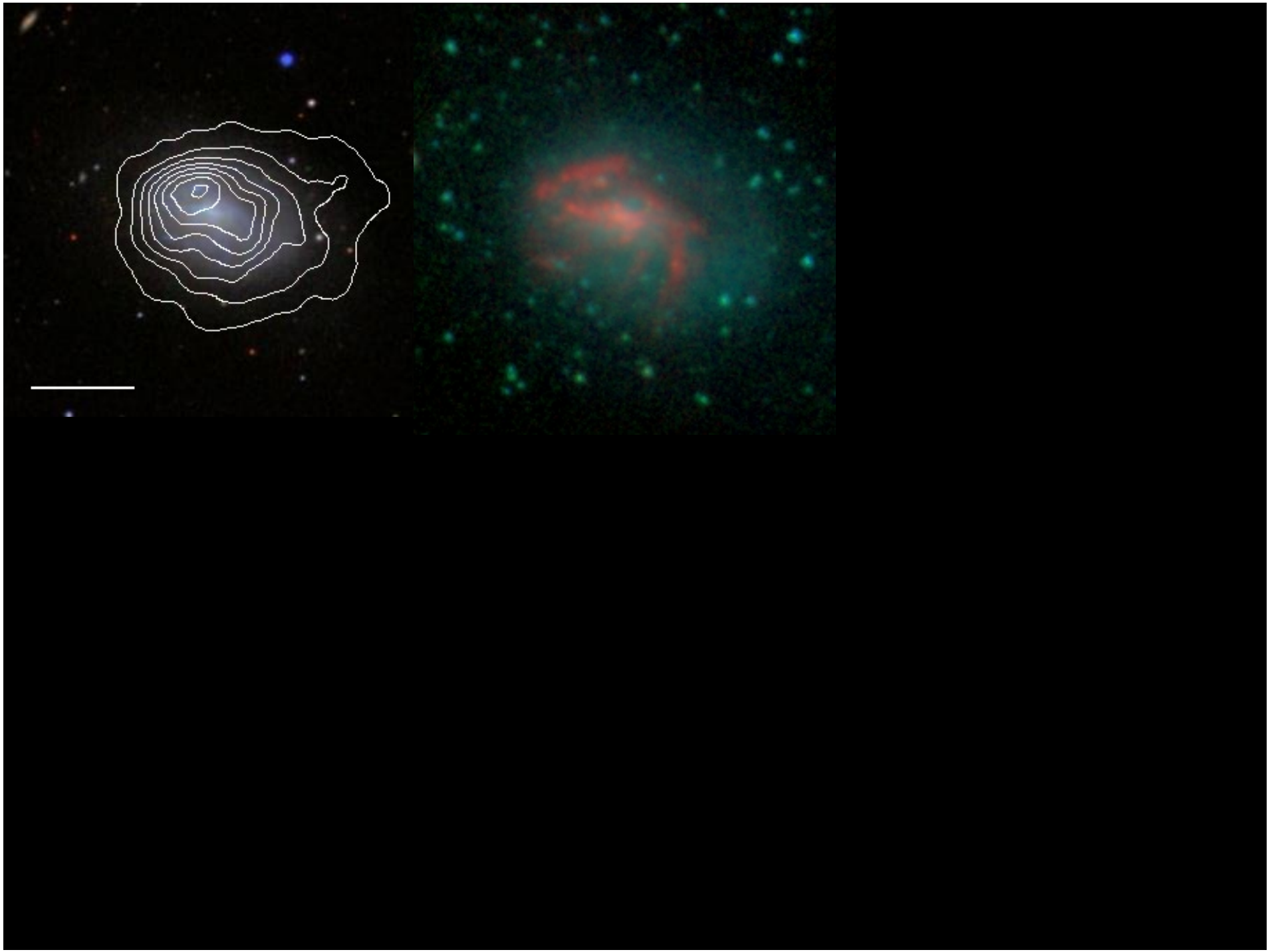




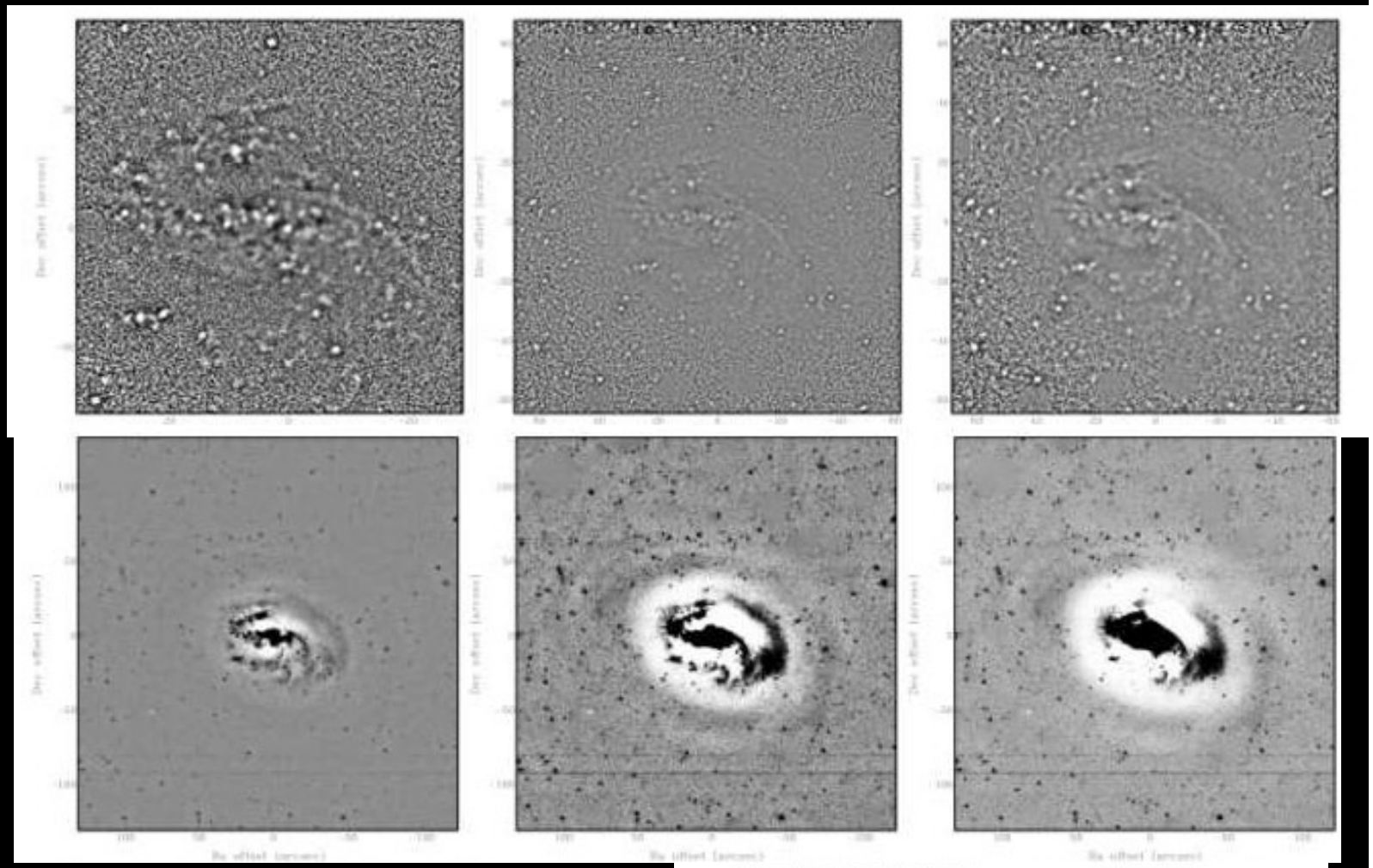

NGC 4302
NGC 4302
(1146 km/s)
NGC 4298
(1136 km/s)

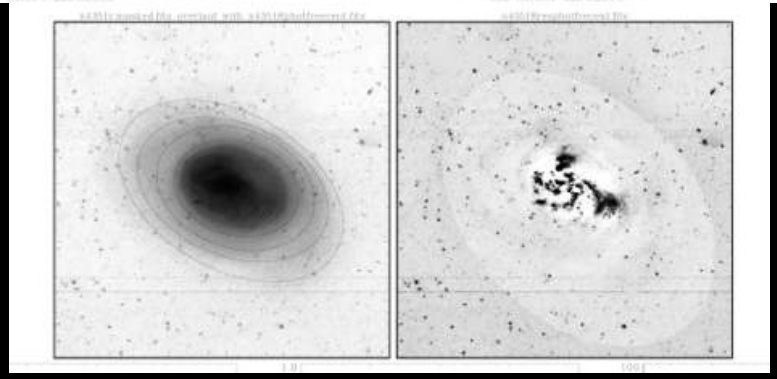


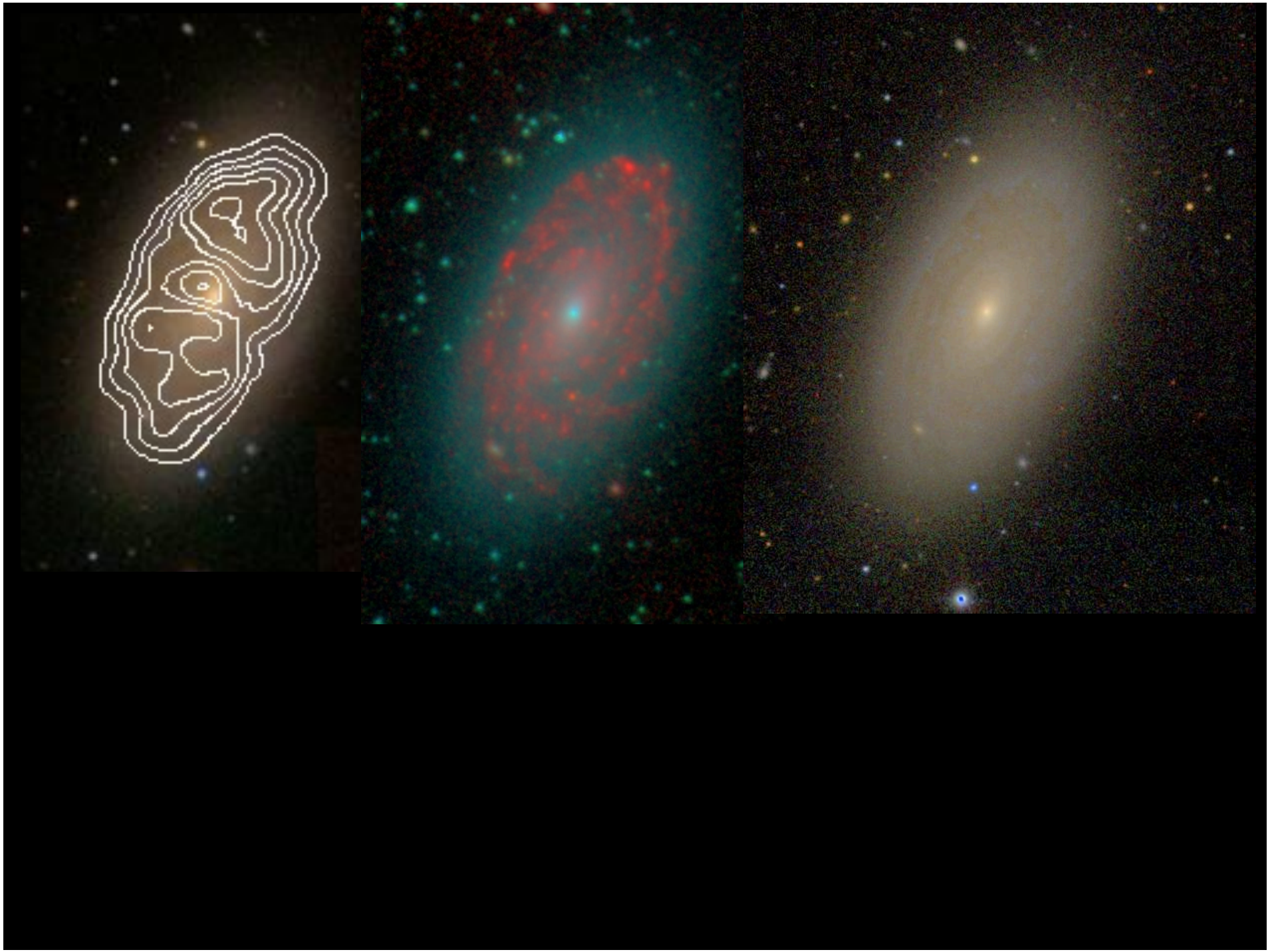

ICM Wind Range
Radio Deficit Region
N
E
Cluster Center
in This Direction
Major Axis
NGC 4330
Radio Deficit on HI
and BVR-Hα
Main Body
Tail

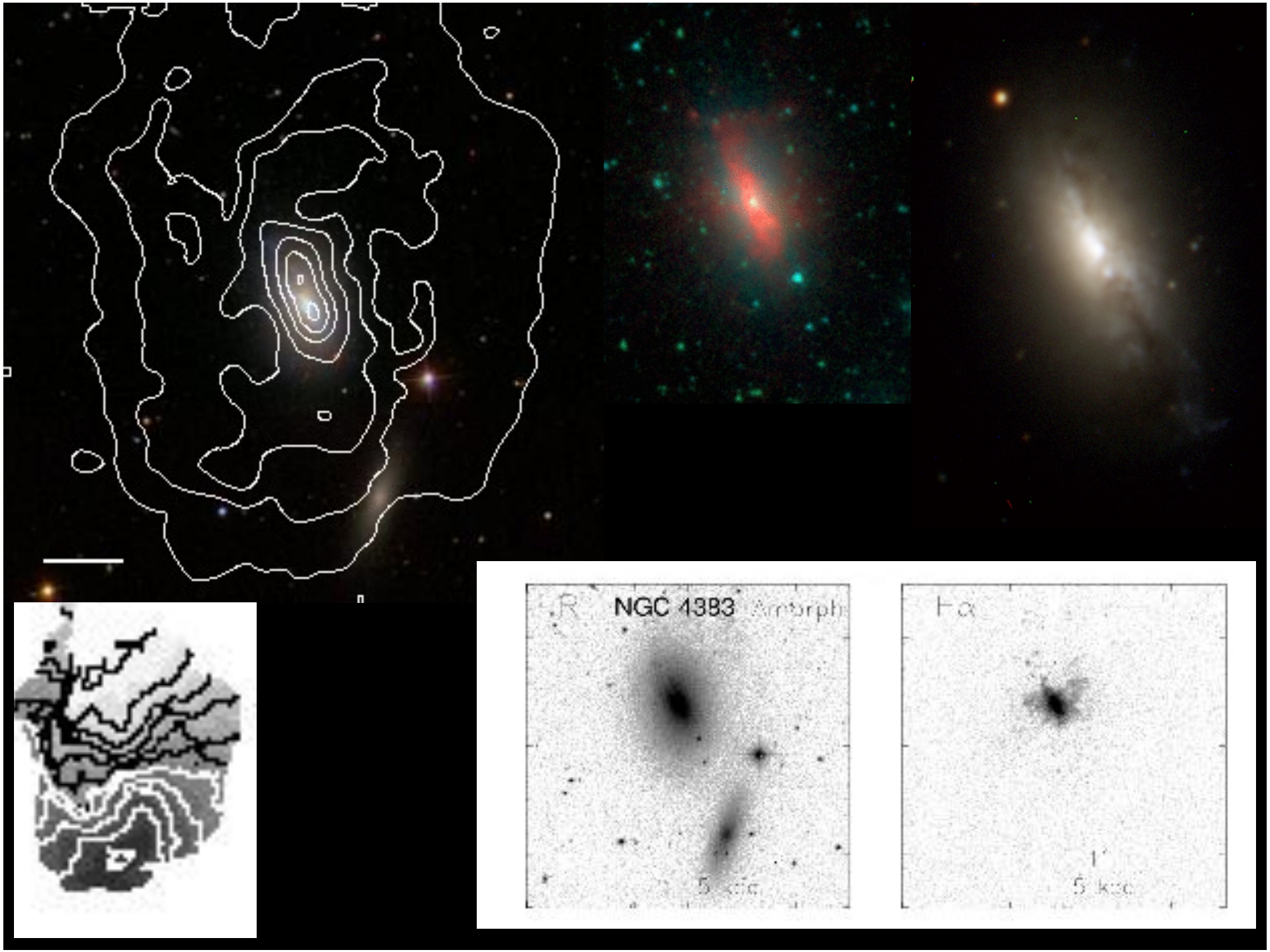


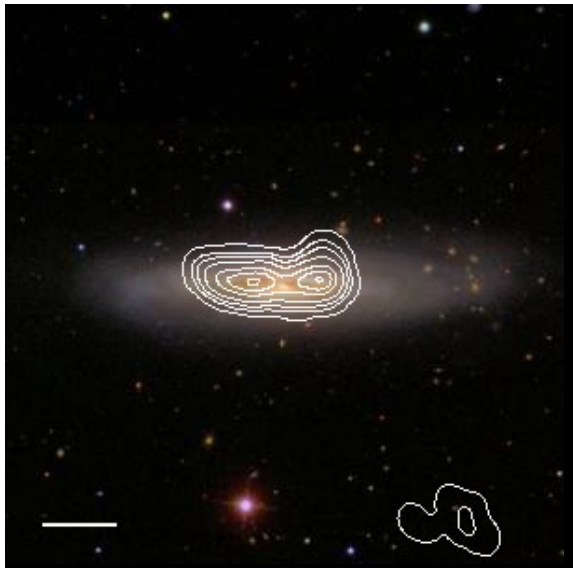
NGC 4351



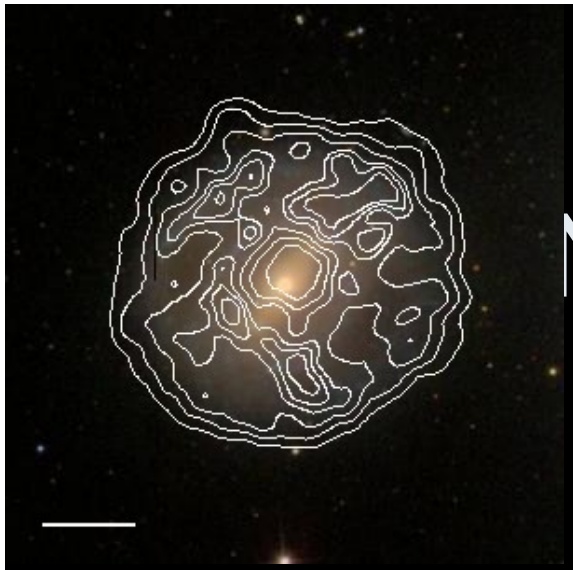




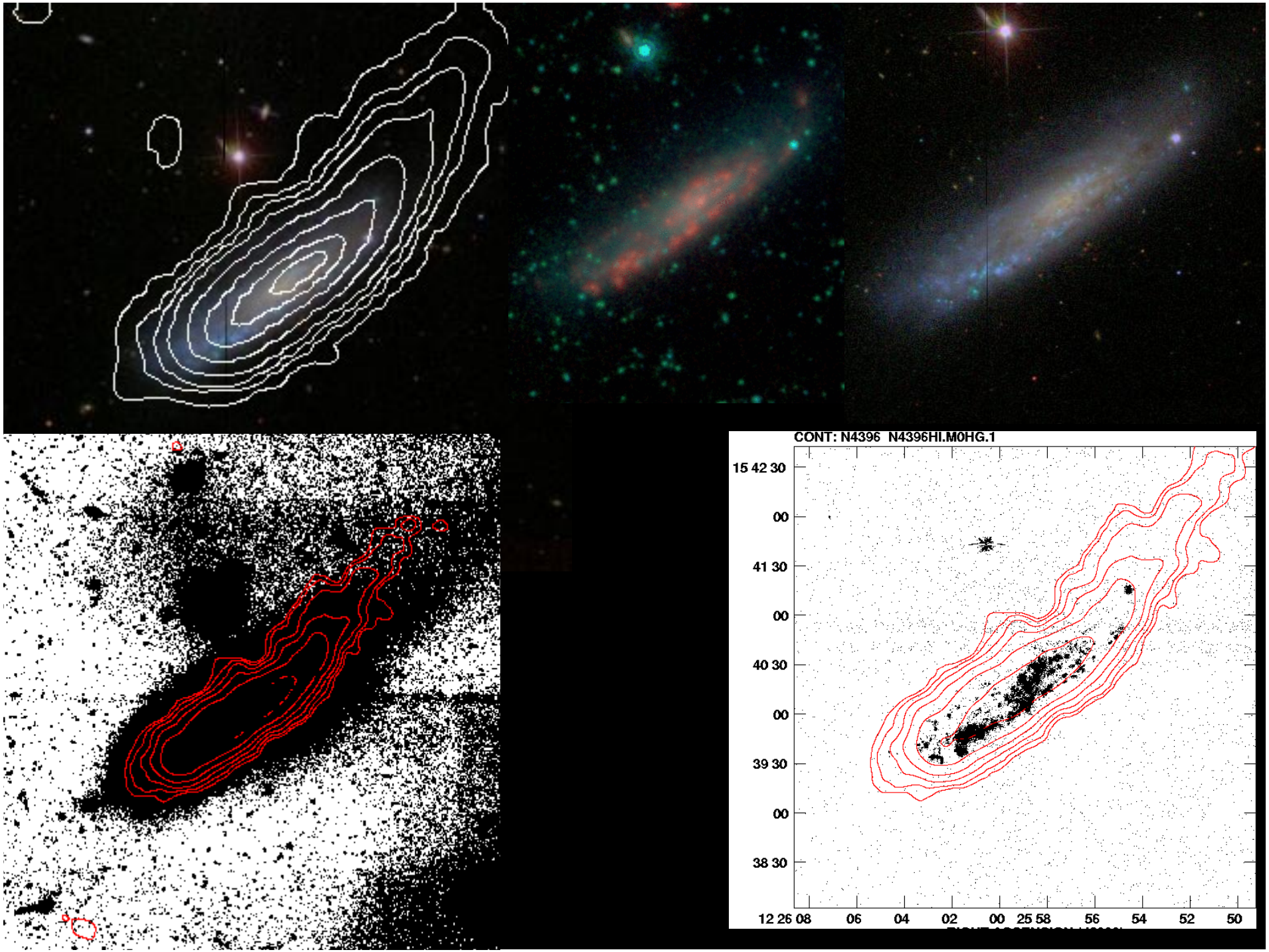

NGC 4383
Hα
5 kpc
5 kpc

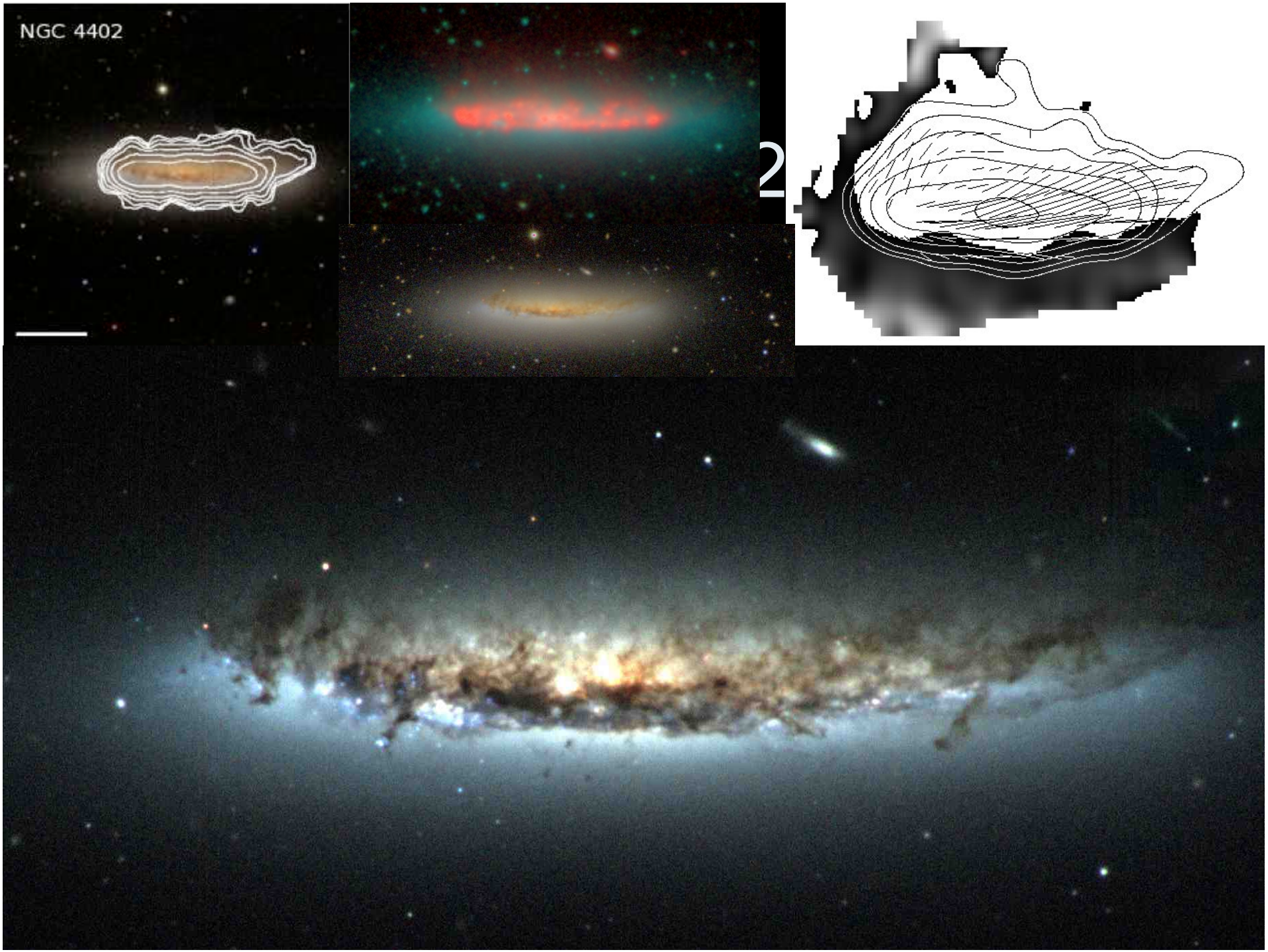


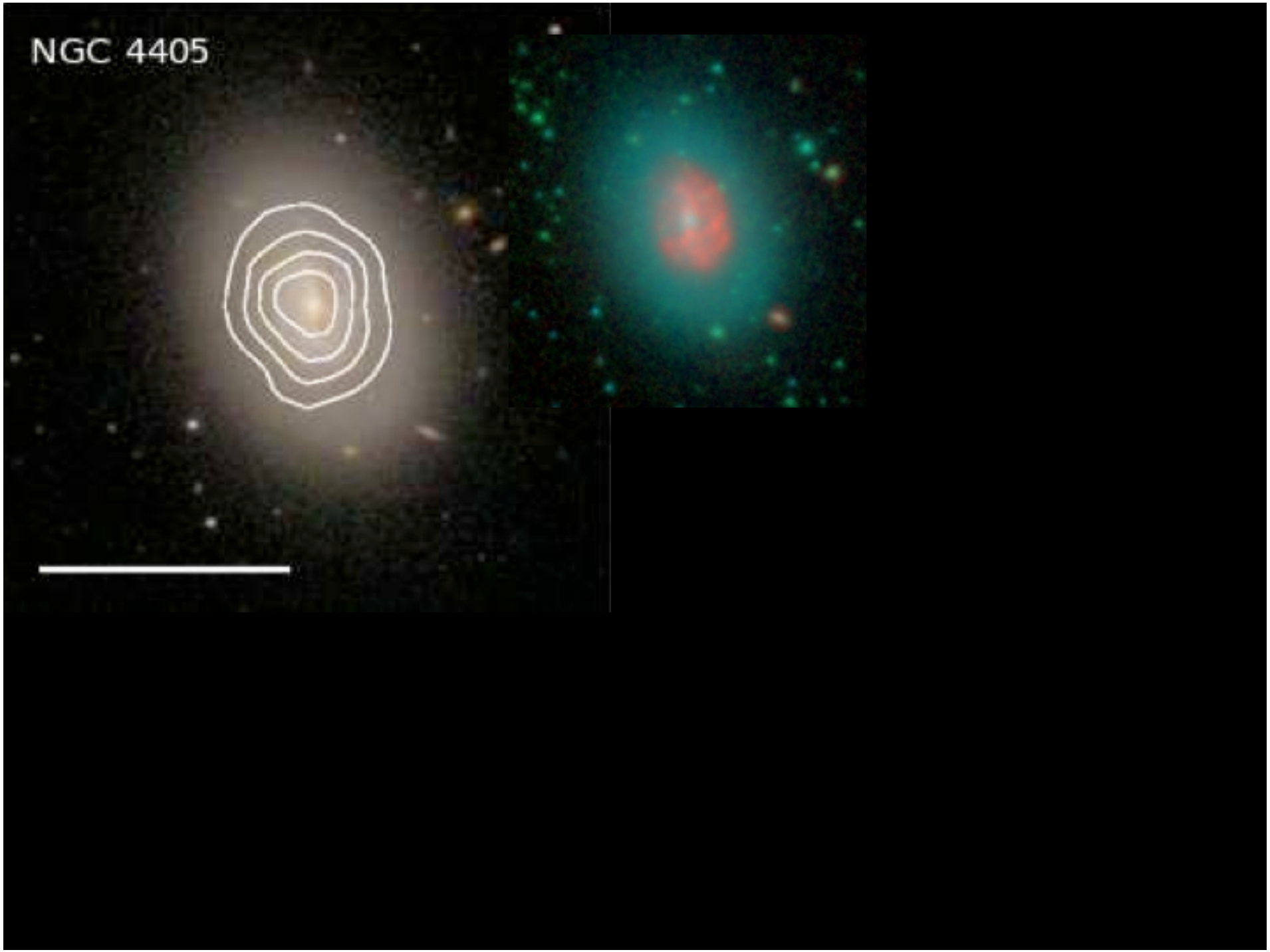
Ngc4388



NGC4394

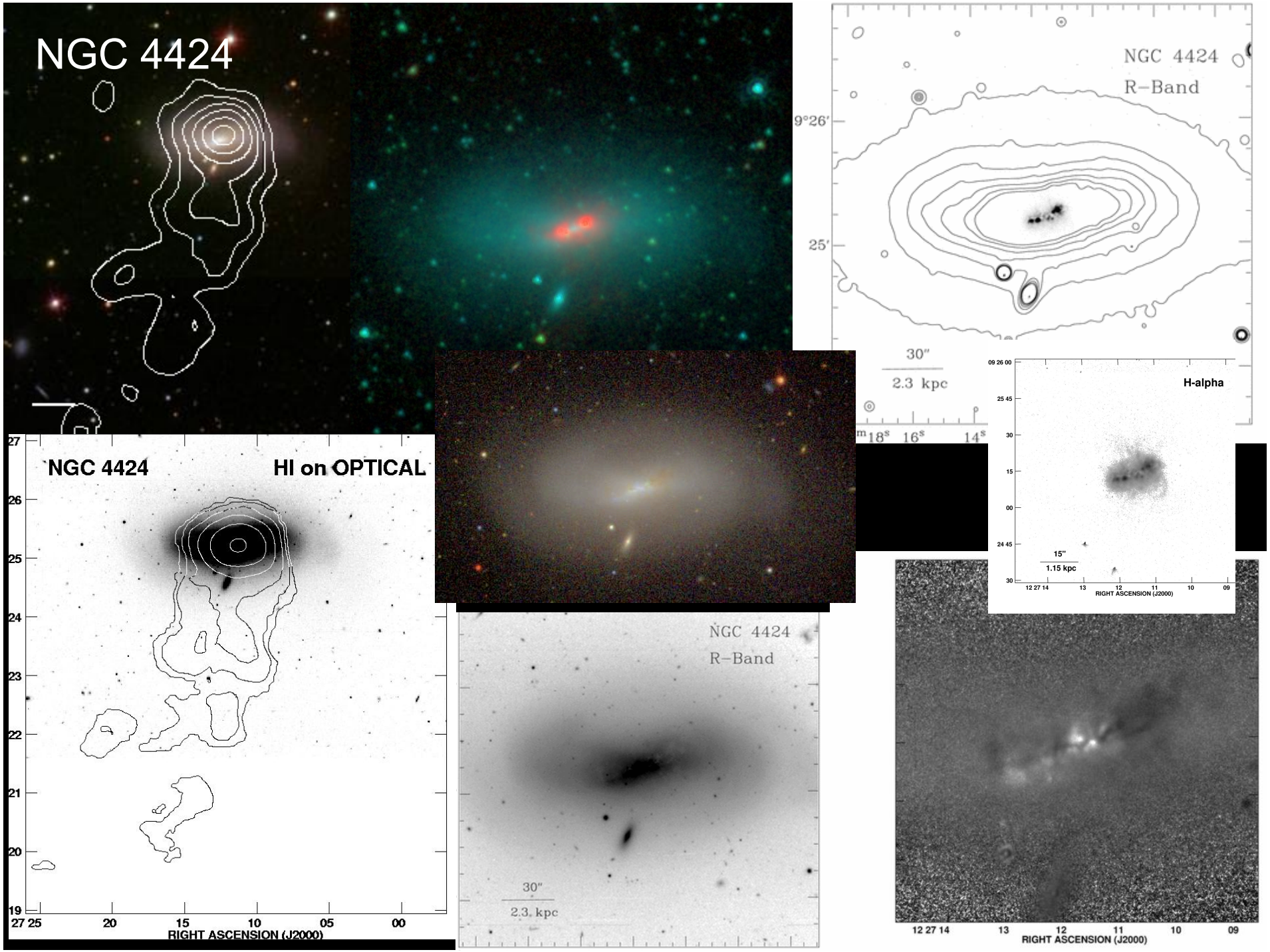

CONT: N4396 N4396HI.M0HG.1
15 42 30
00
41 30
00
40 30
00
39 30
00
38 30
12 26 08
06
04
02
00
25 58
56
54
52
50


NGC 4402
2

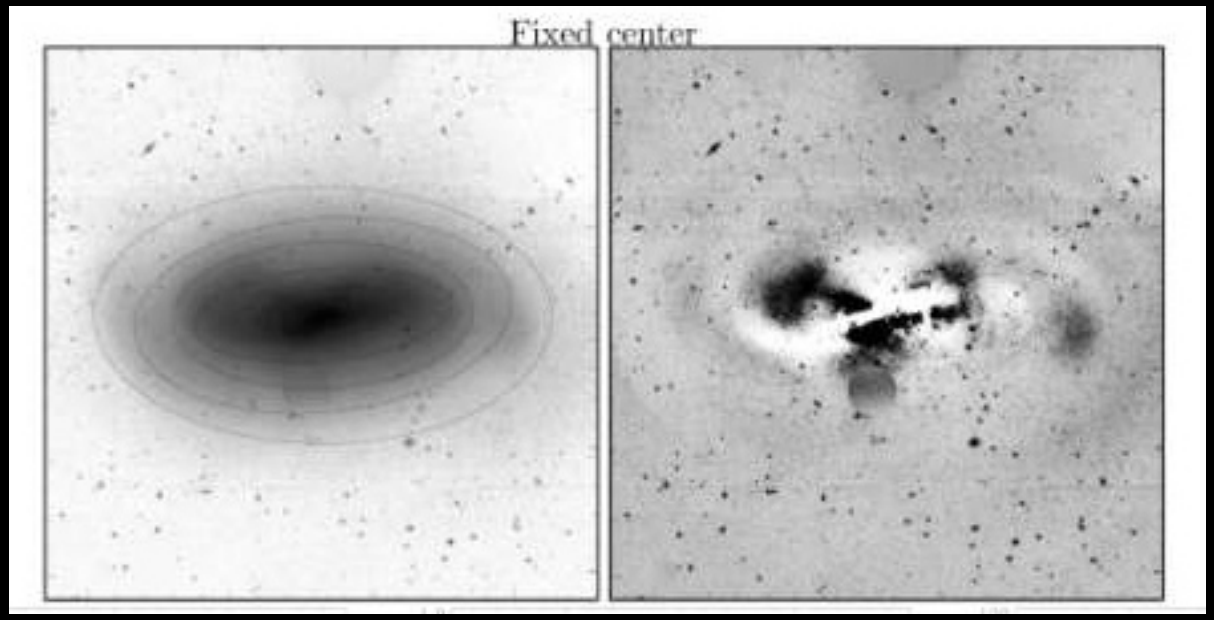

NGC 4405

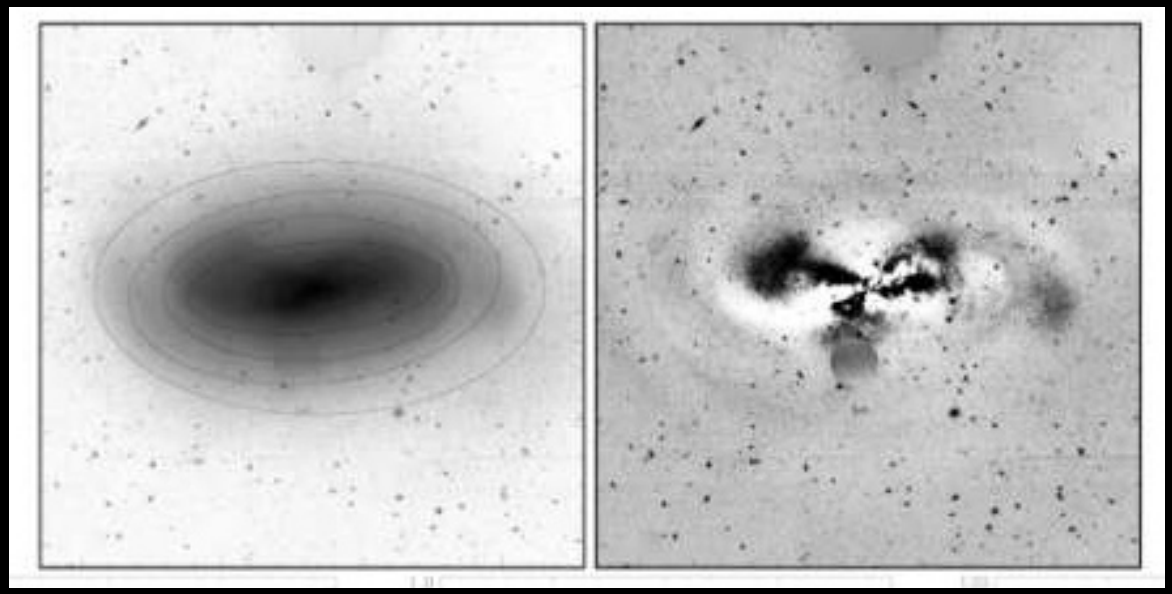
NGC4413

NGC4293

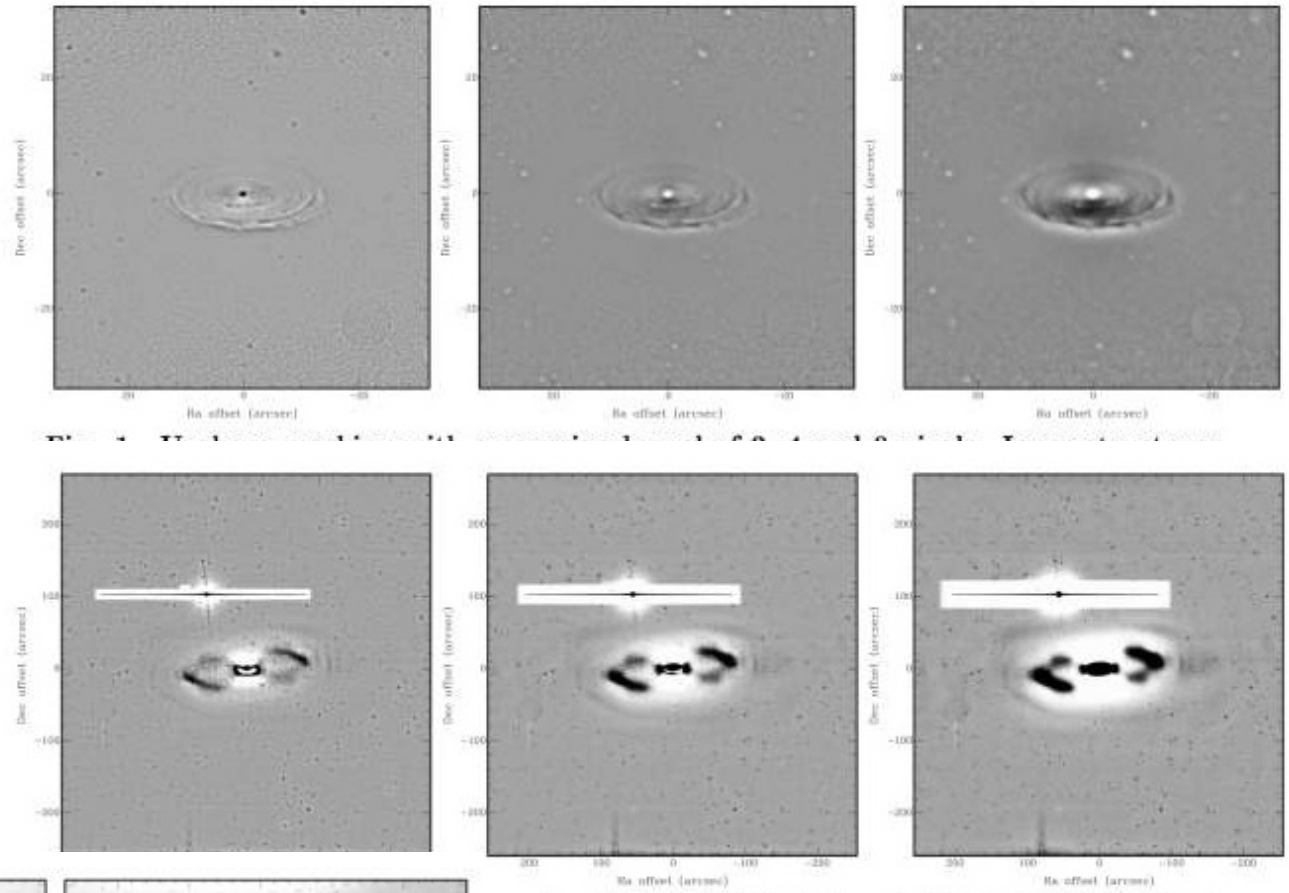

NGC 4424
NGC 4424
R-Band
9°26′
25′
30″
2.3 kpc
18s
16s
14s
NGC 4424
HI on OPTICAL
27
26
25
24
23
22
21
20
19
27 25
20
15
10
05
00
RIGHT ASCENSION (J2000)
H-alpha
15″
1.15 kpc
12 27 14
13
12
11
10
09
RIGHT ASCENSION (J2000)
NGC 4424
R-Band
30″
2.3 kpc

NGC 4424

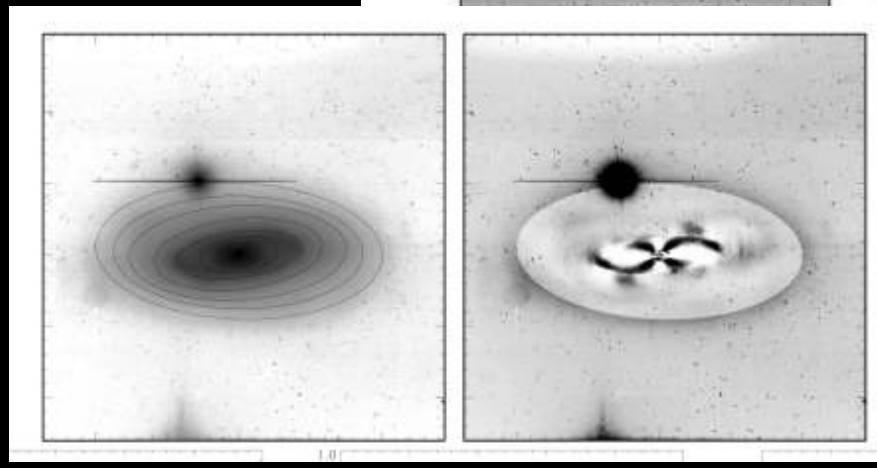




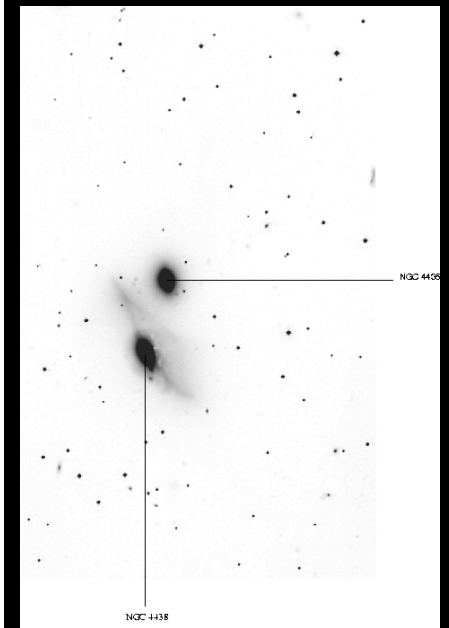
NGC 4429

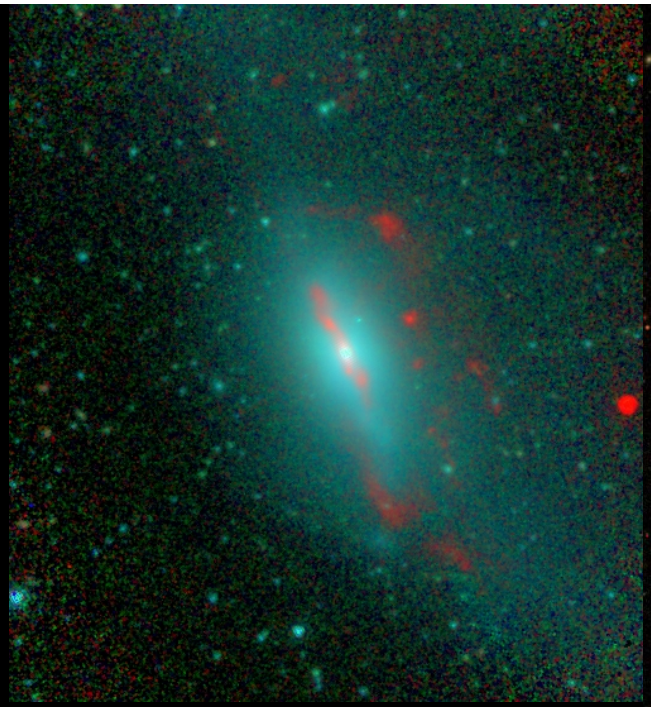


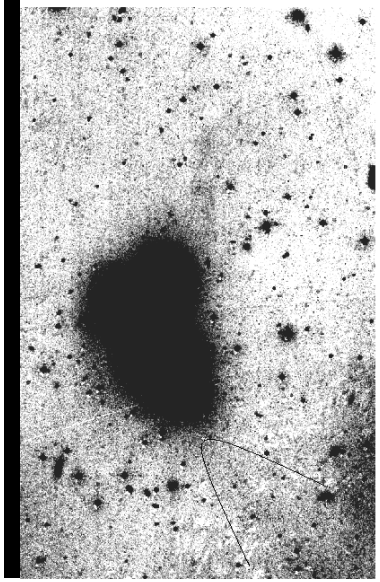
median kernel of 101, 191, and 271 pixels. Outer faint
ing to the original image, the median filtered one.

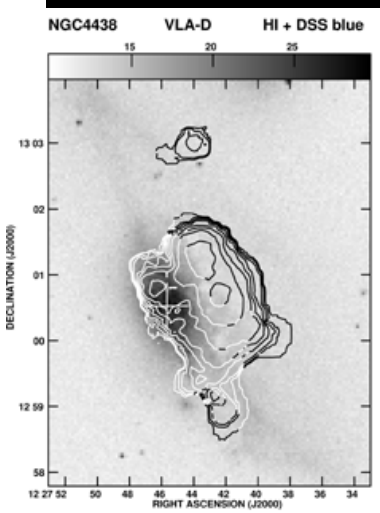


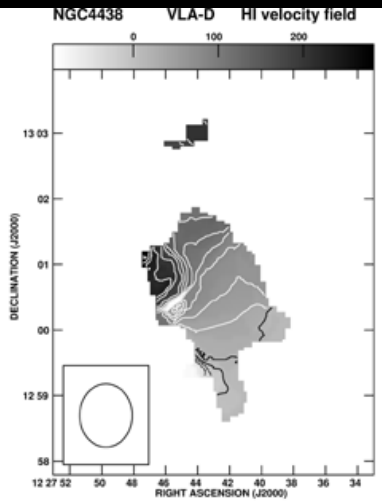
NGC 4438

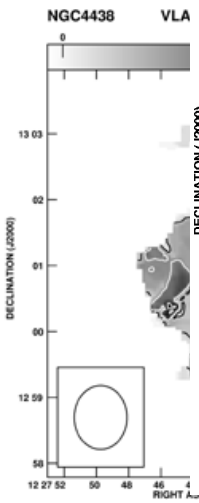

NGC 4438

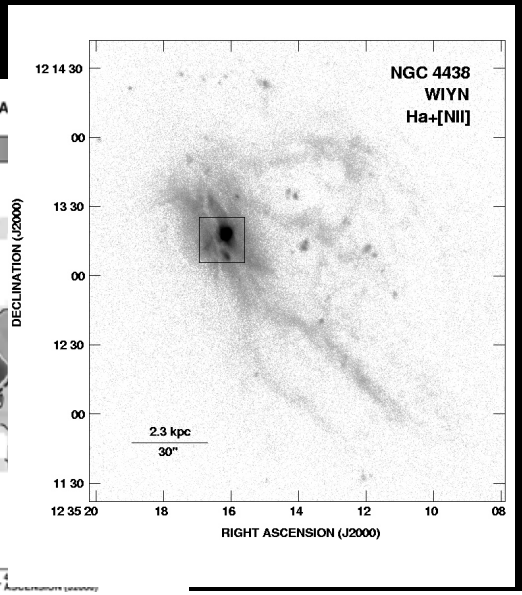




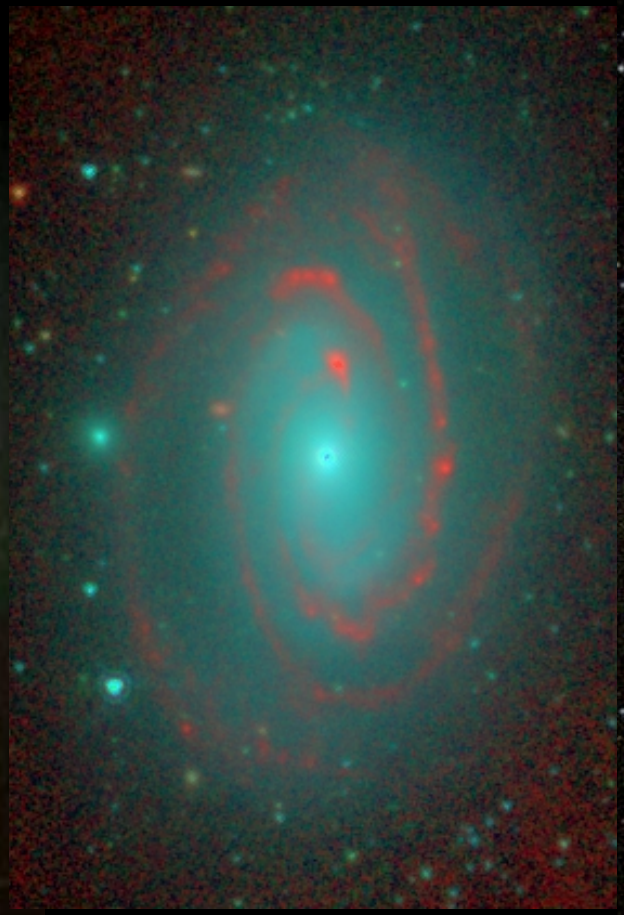

NGC4438
VLA-D
HI + DSS blue
15
20
25
DECLINATION (J2000)
RIGHT ASCENSION (J2000)


NGC4438
VLA-D
HI velocity field
0
100
200
DECLINATION (J2000)
RIGHT ASCENSION (J2000)

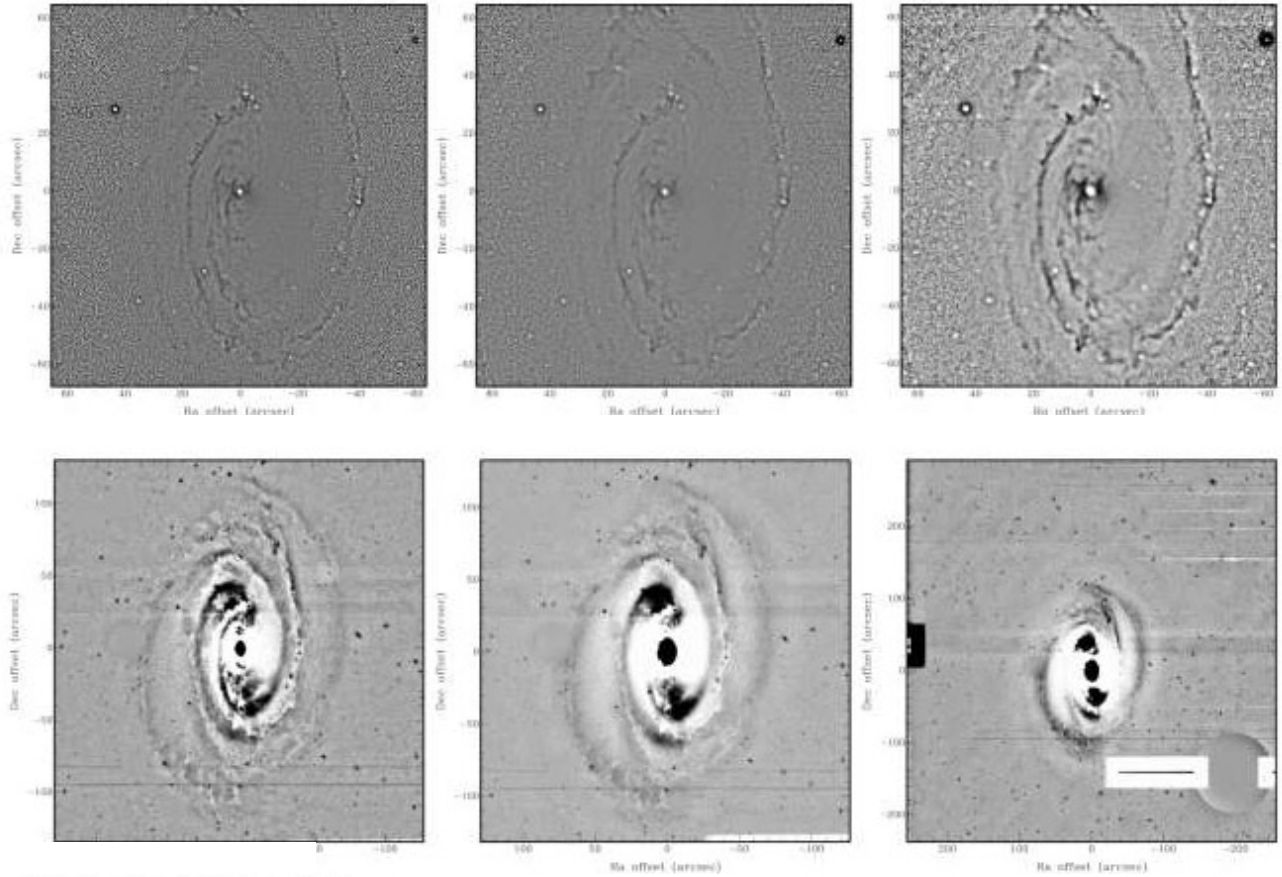

NGC4438
DECLINATION (J2000)

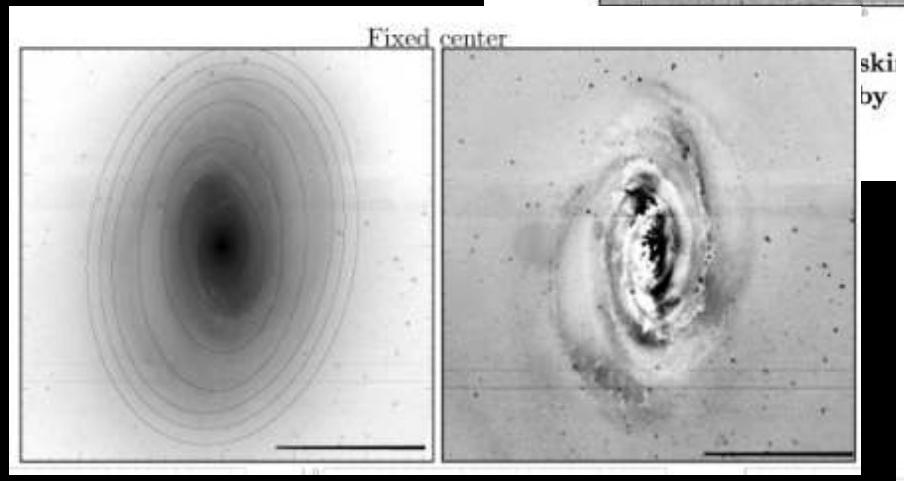

NGC 4438
WIYN
Ha+[NII]
2.3 kpc
30"
DECLINATION (J2000)
RIGHT ASCENSION (J2000)

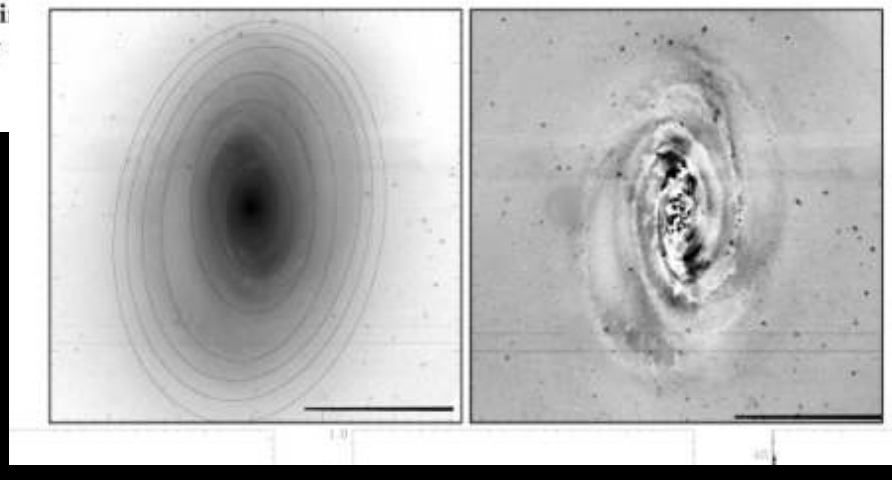
NGC 4450



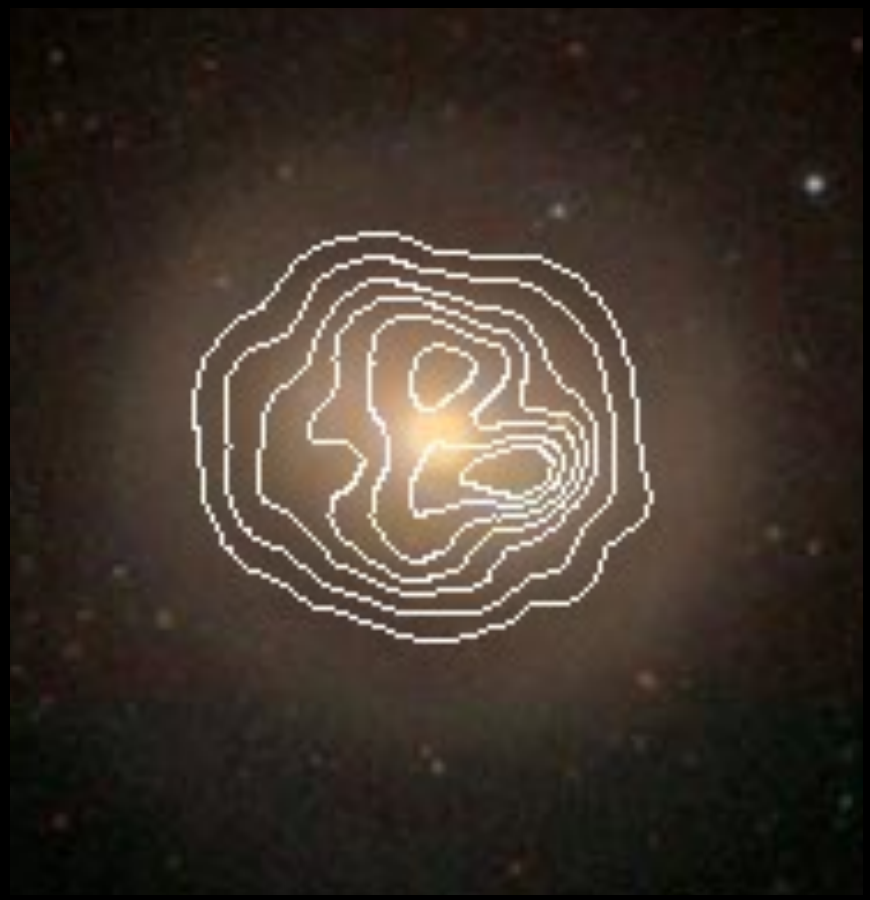
NGC 4450



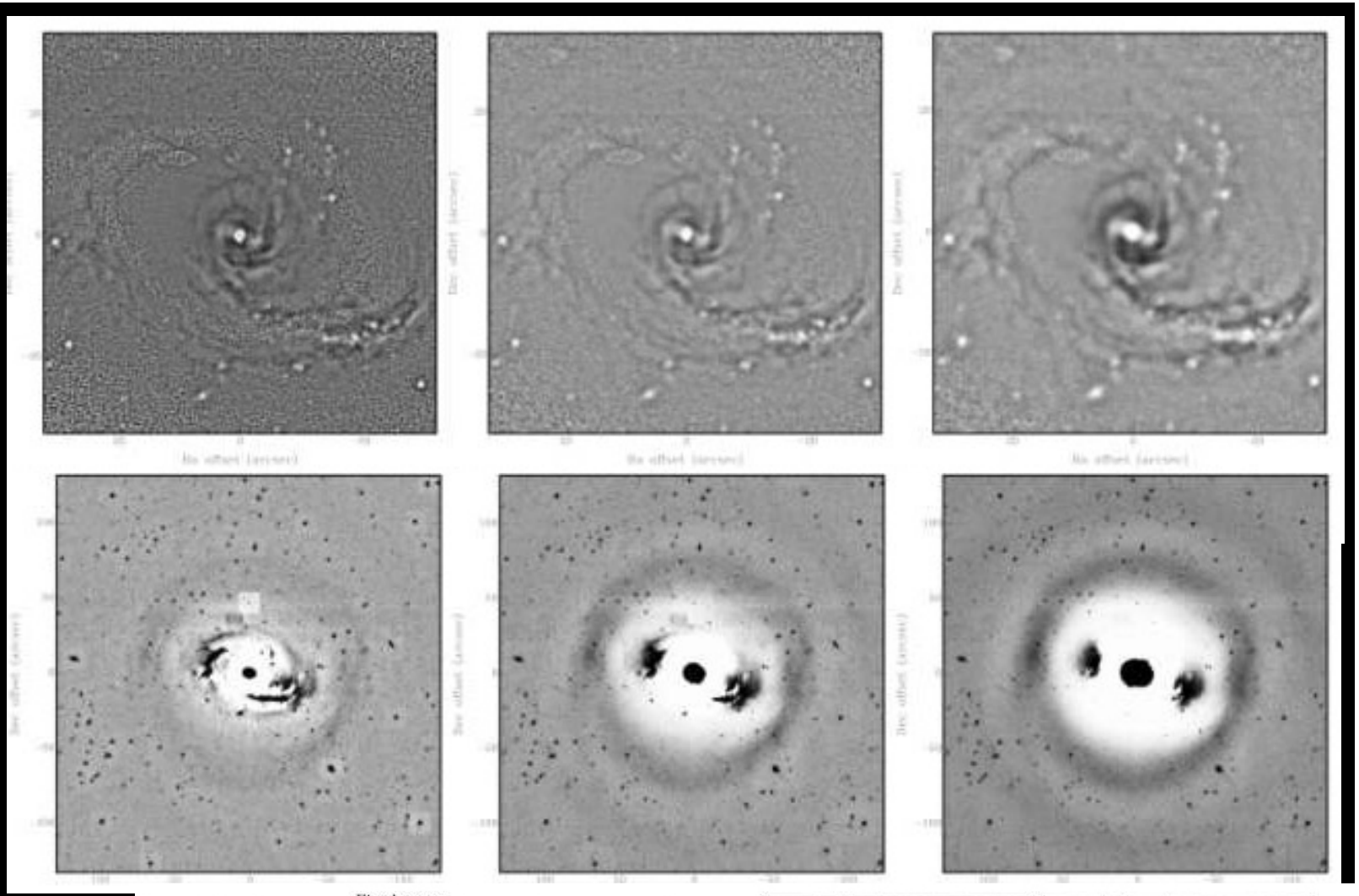


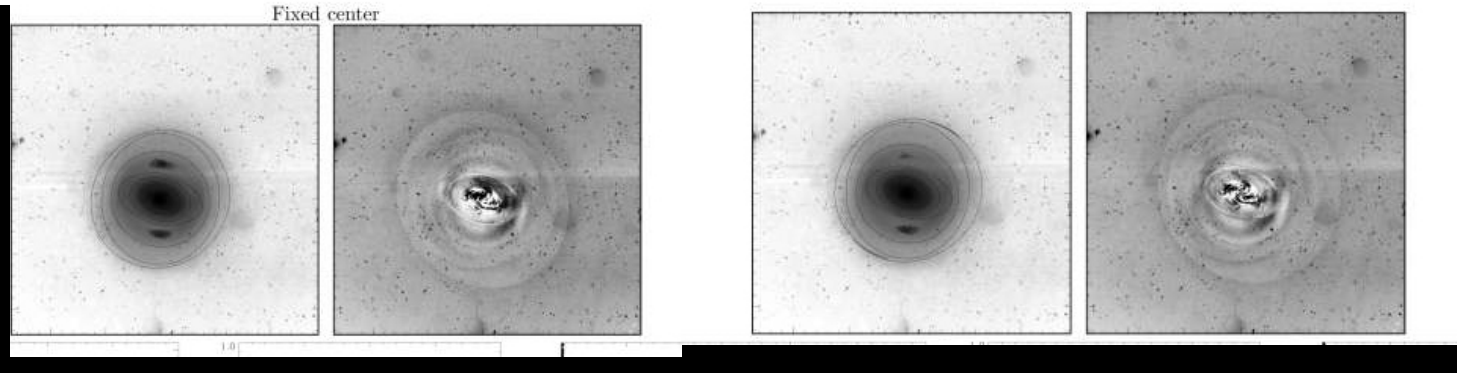


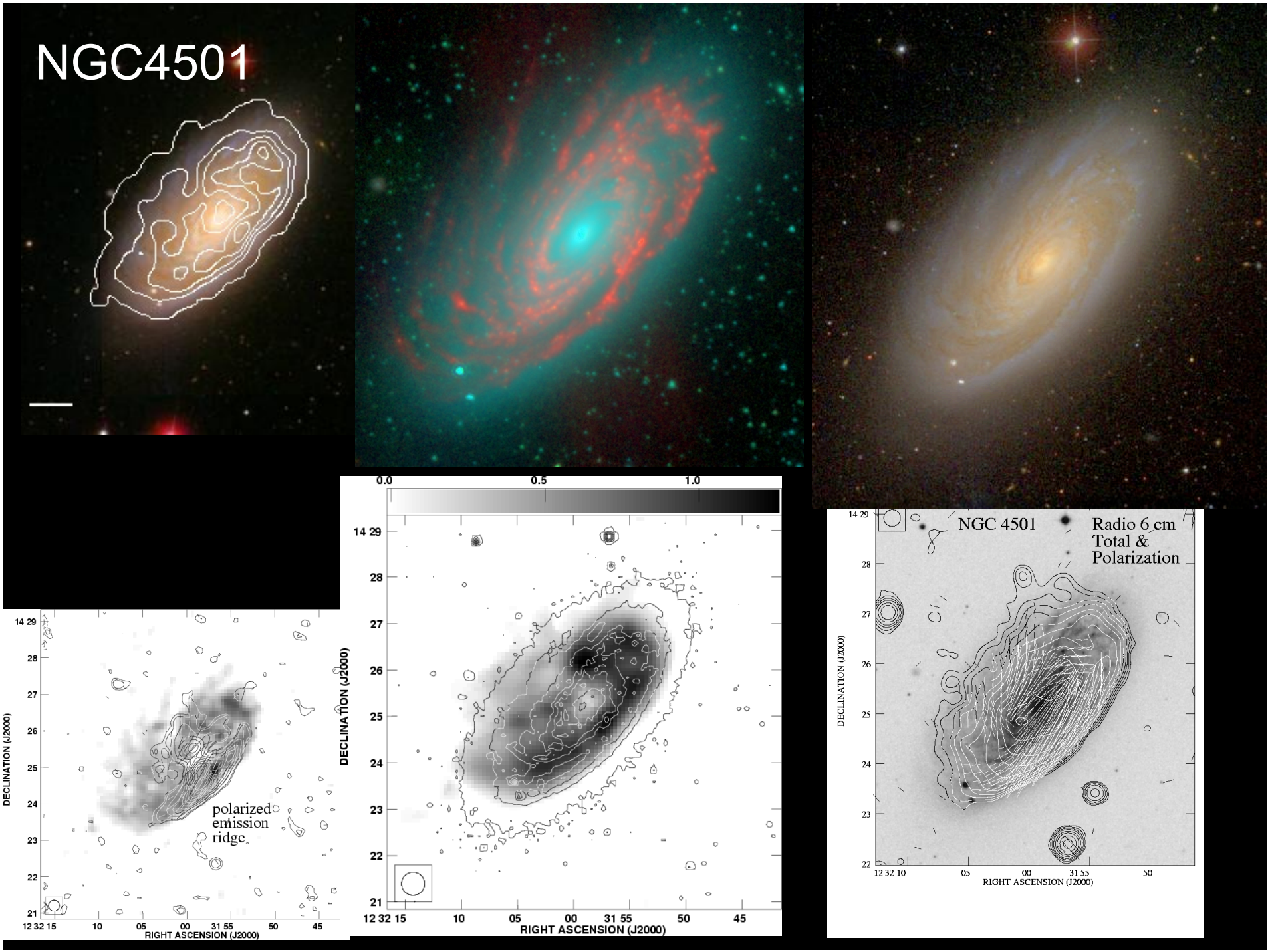
NGC4457

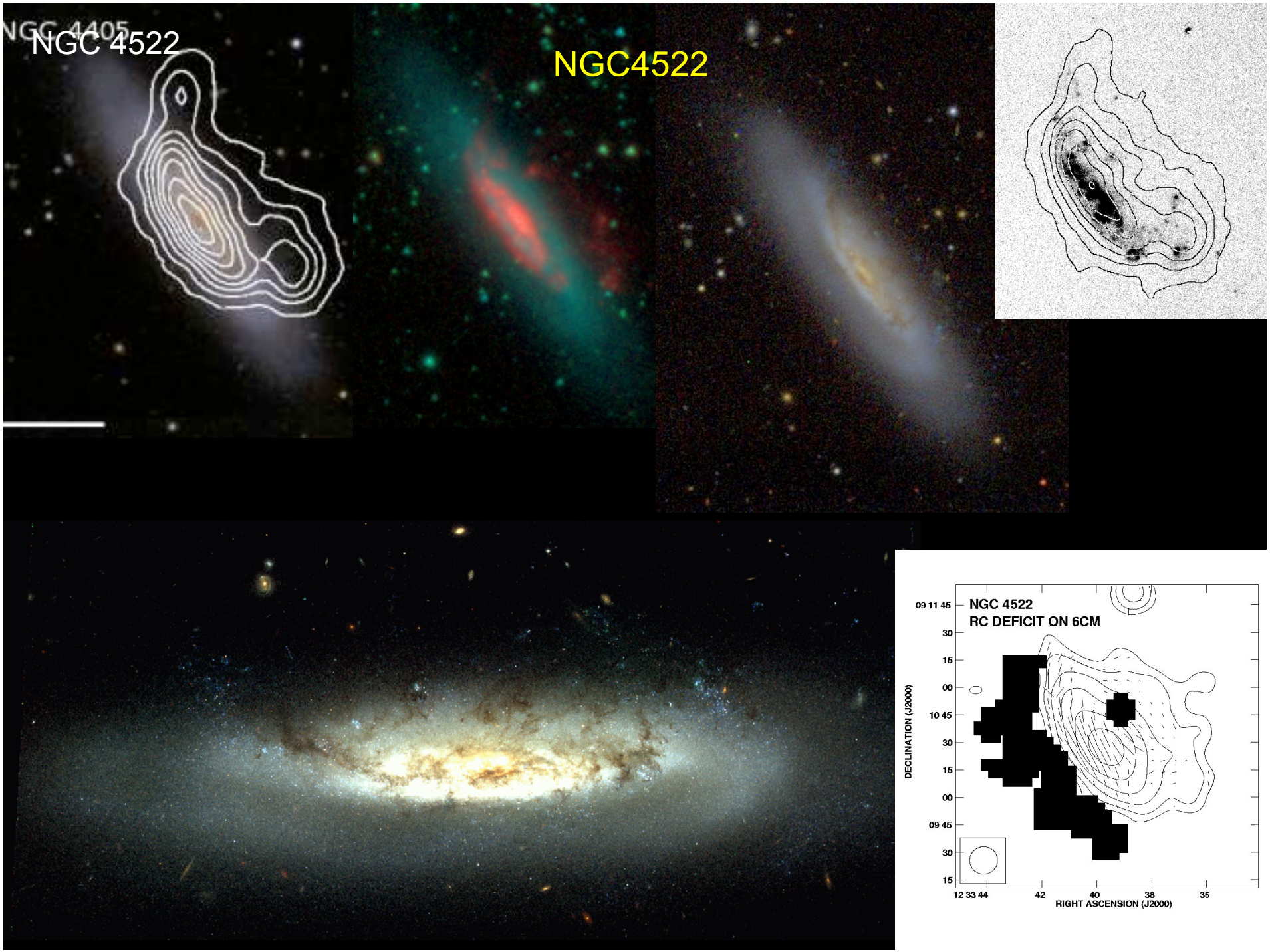


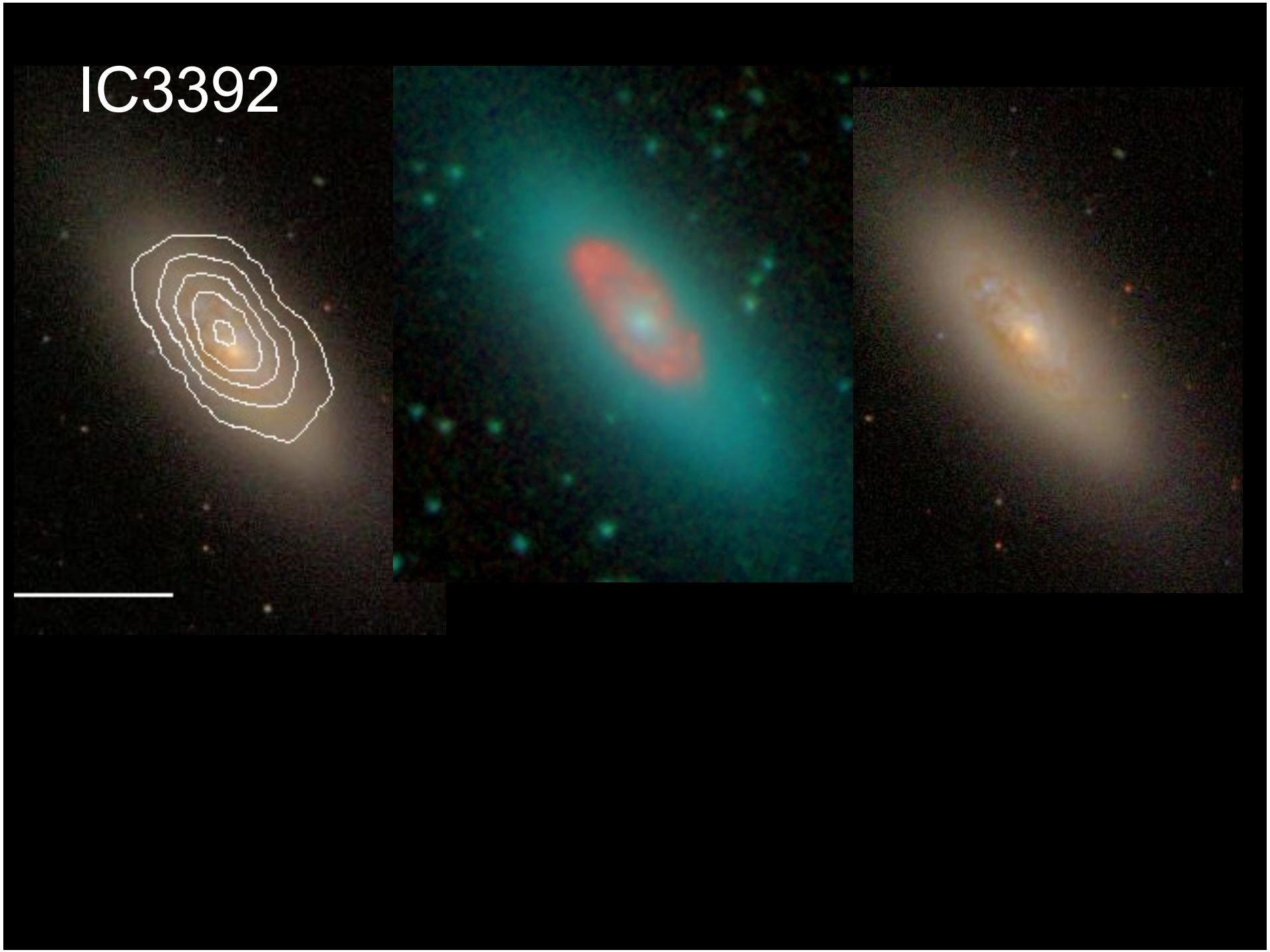
NGC 4457



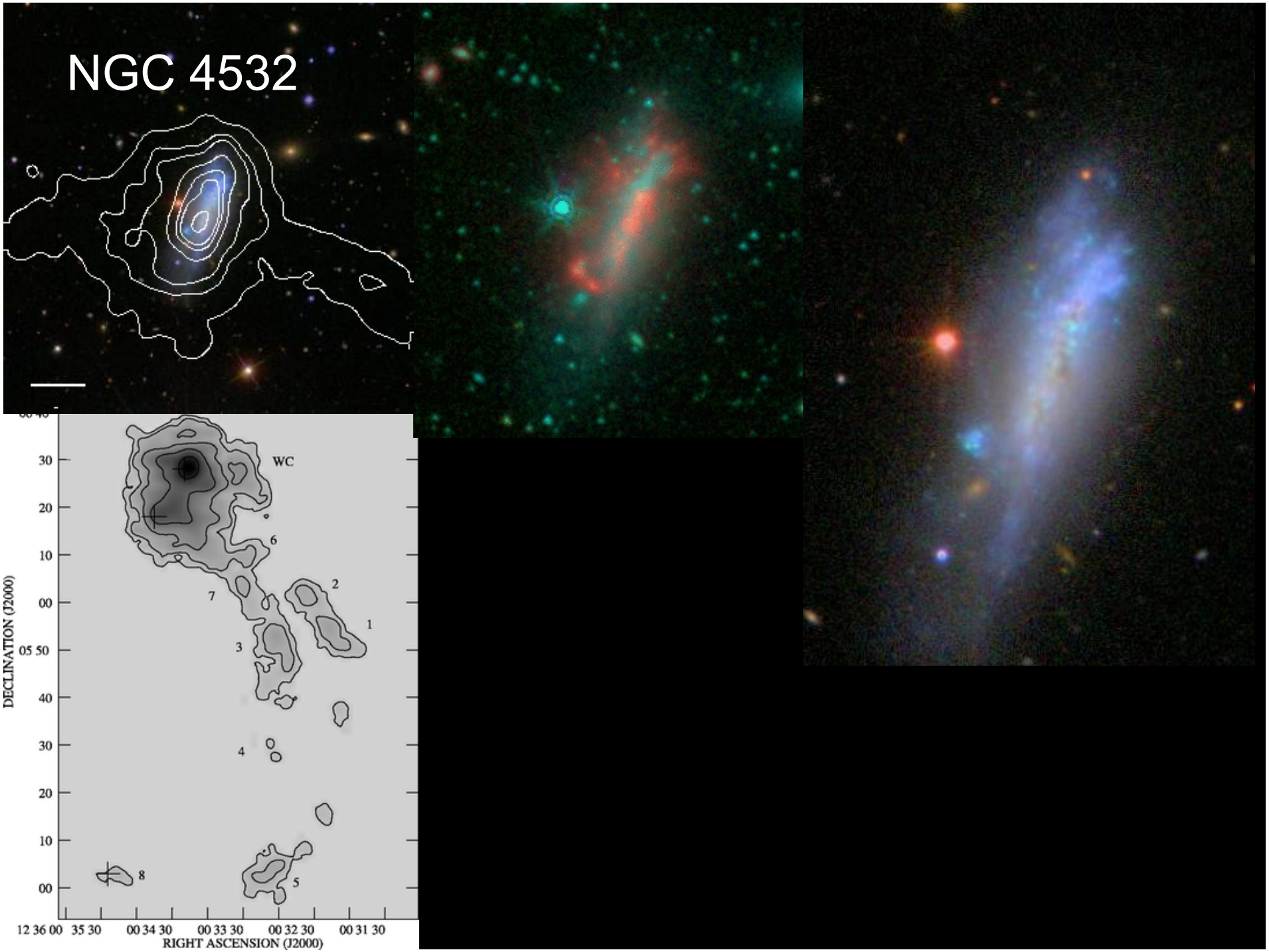



NGC4501
0.0
0.5
1.0
14 29
28
27
26
25
24
23
22
21
DECLINATION (J2000)
12 32 15
10
05
00
31 55
50
45
RIGHT ASCENSION (J2000)
polarized
emission
ridge
NGC 4501
Radio 6 cm
Total &
Polarization
12 32 10
05
00
31 55
50

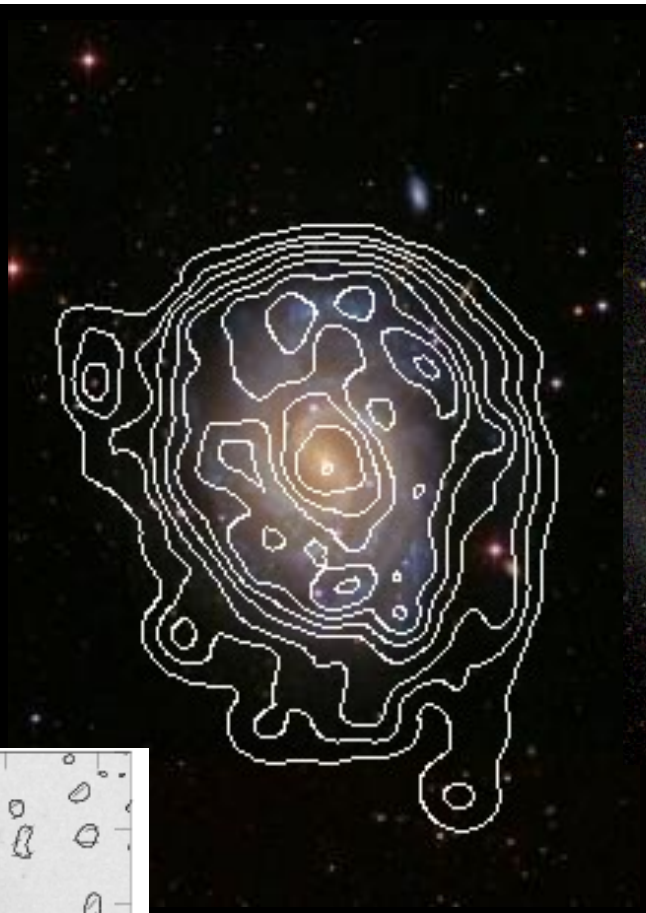

NGC 4522
NGC4522
NGC 4522
RC DEFICIT ON 6CM
DECLINATION (J2000)
RIGHT ASCENSION (J2000)
09 11 45
30
15
00
10 45
30
15
00
09 45
30
15
12 33 44
42
40
38
36

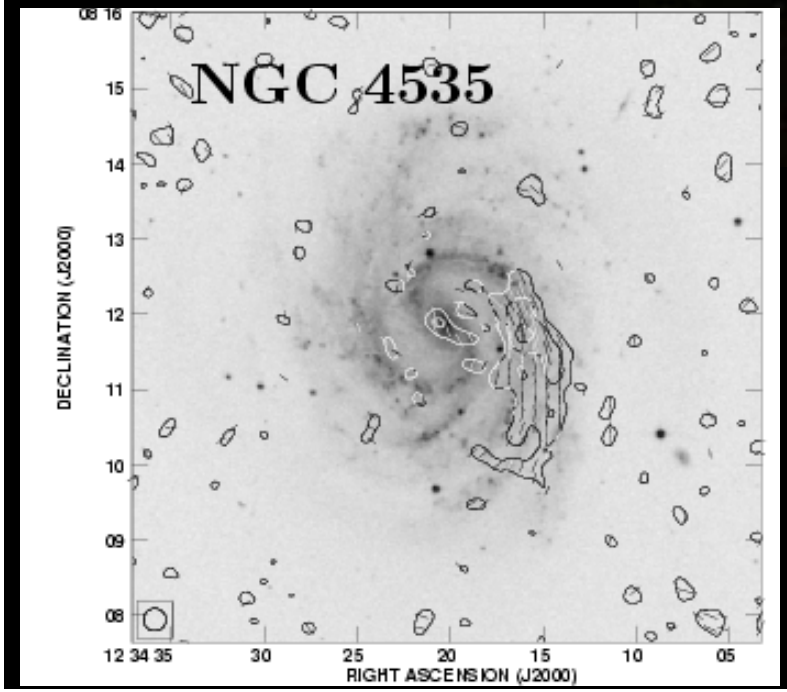

IC3392

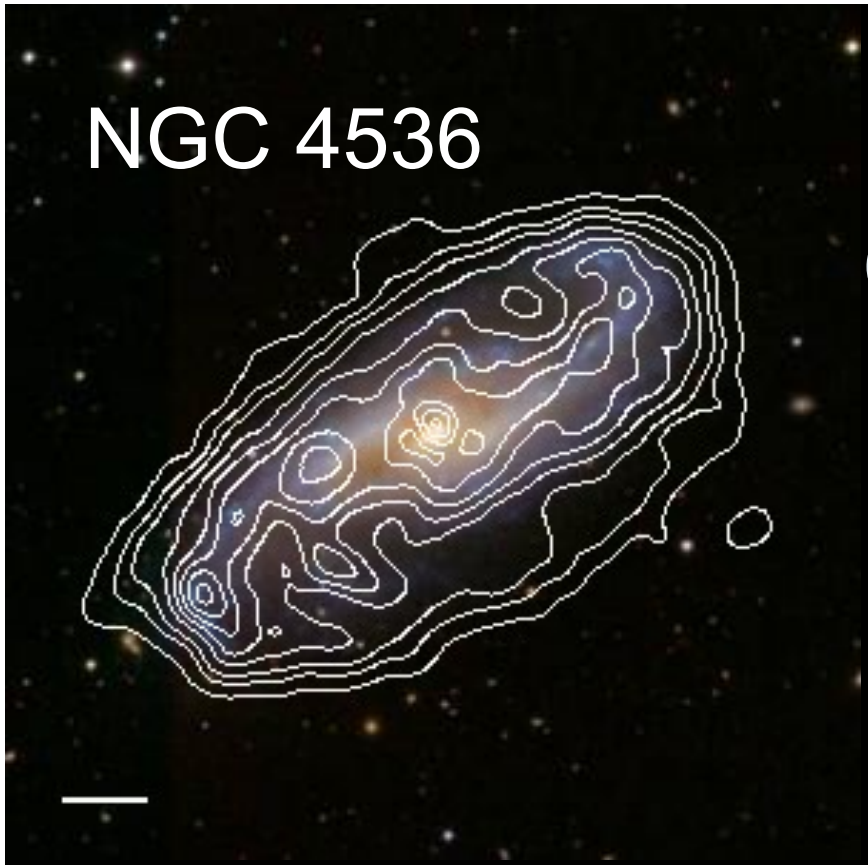
NGC 4532

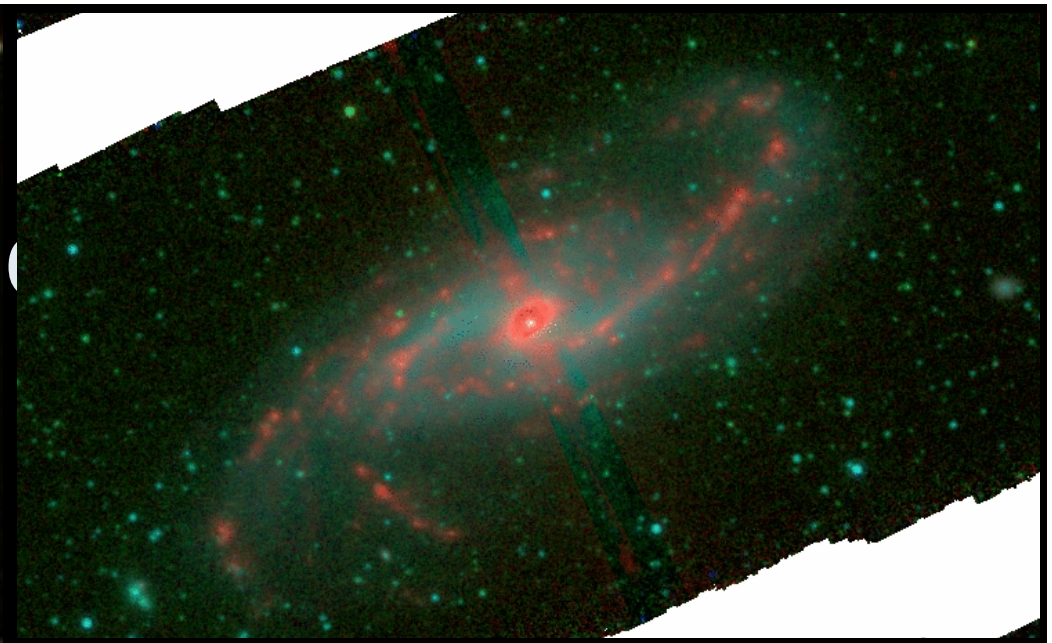

WC
1
2
3
4
5
6
7
8
DECLINATION (J2000)
RIGHT ASCENSION (J2000)
12 36 00
35 30
00 34 30
00 33 30
00 32 30
00 31 30
05 50

NGC 4535

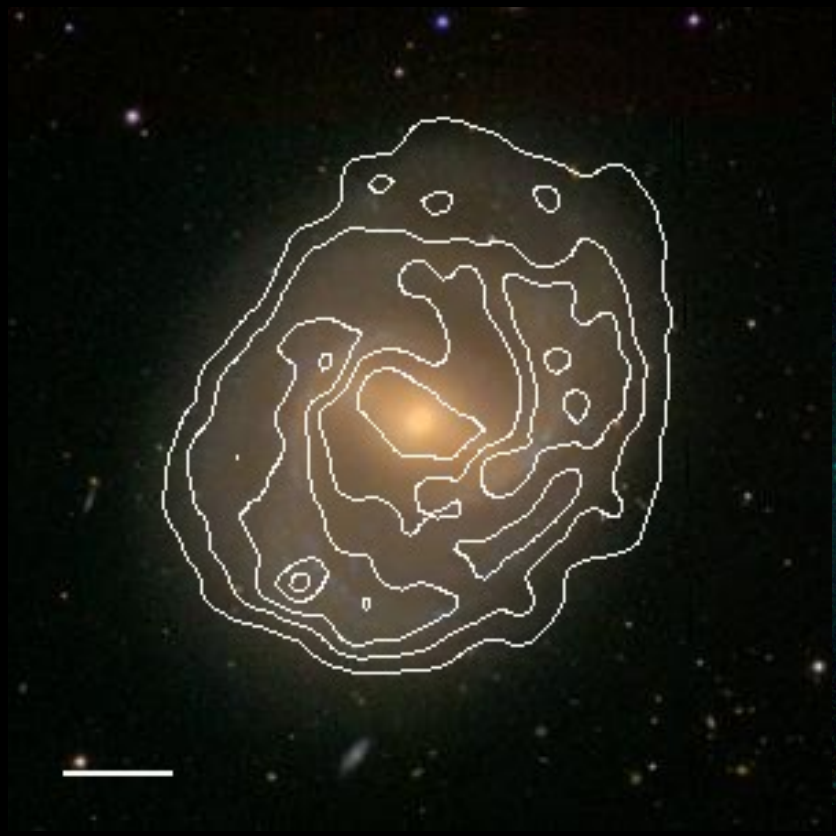



NGC 4535
DECLINATION (J2000)
RIGHT ASCENSION (J2000)
08 16
15
14
13
12
11
10
09
08
12 34 35
30
25
20
15
10
05

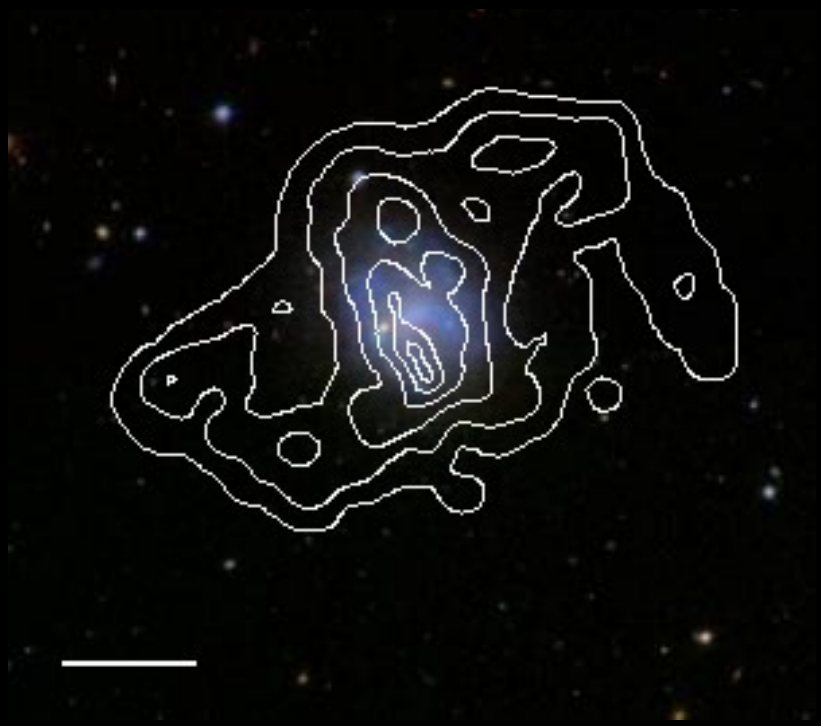

NGC 4536

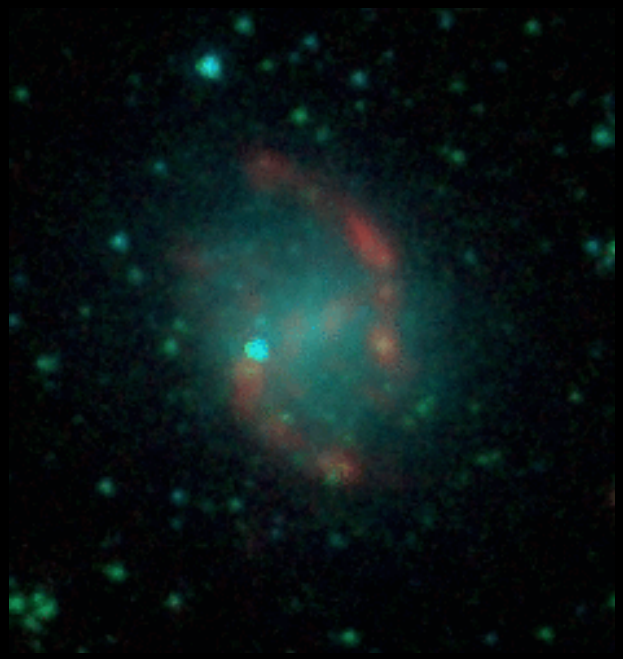


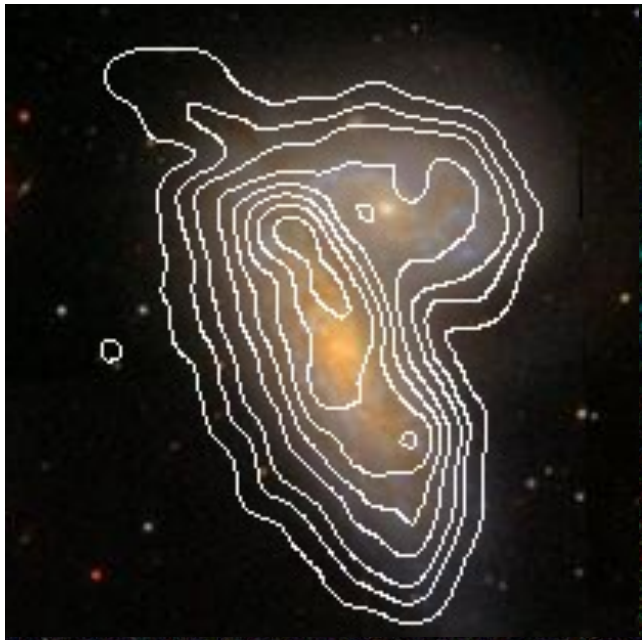
NGC4548



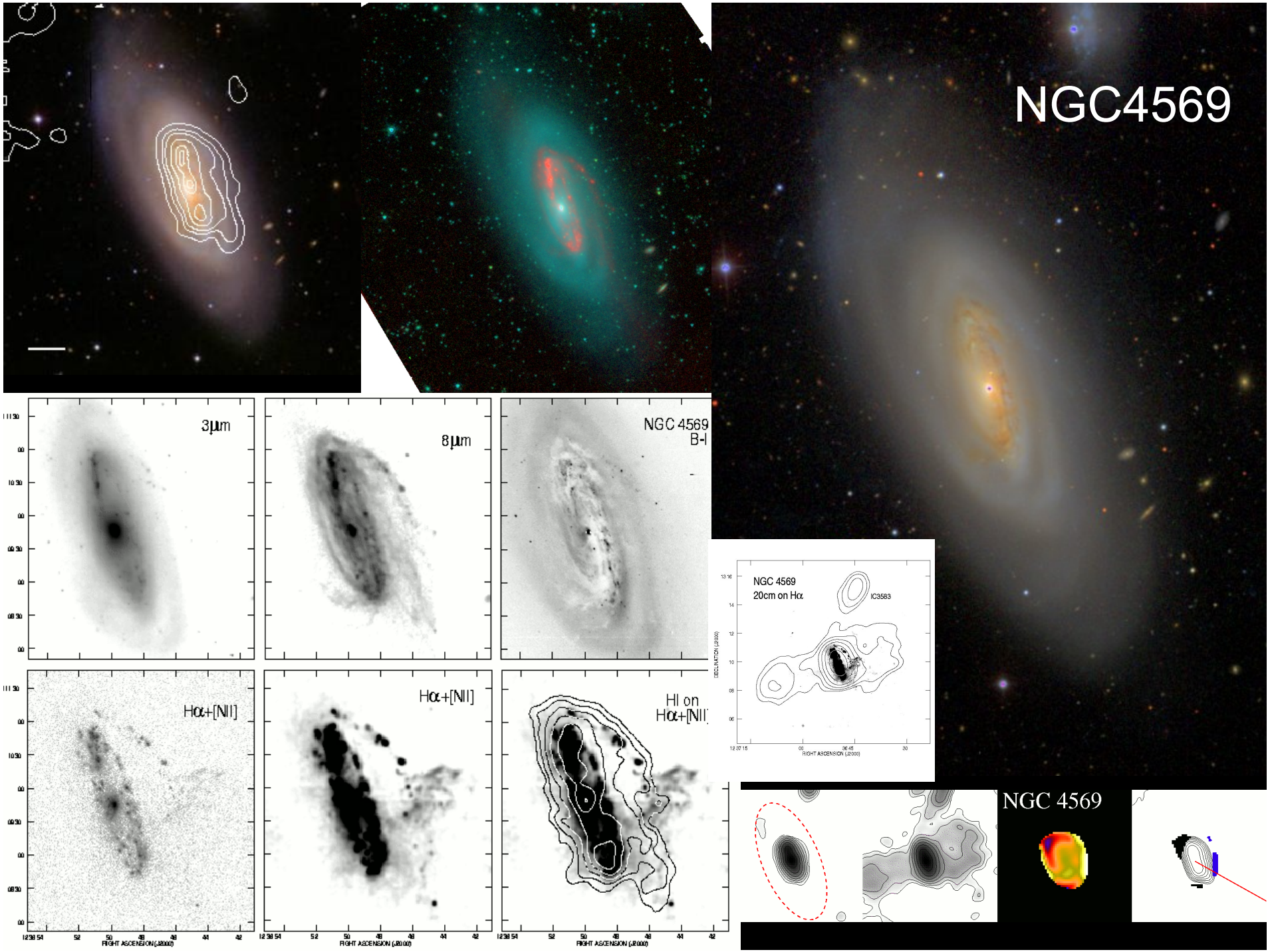
NGC4561



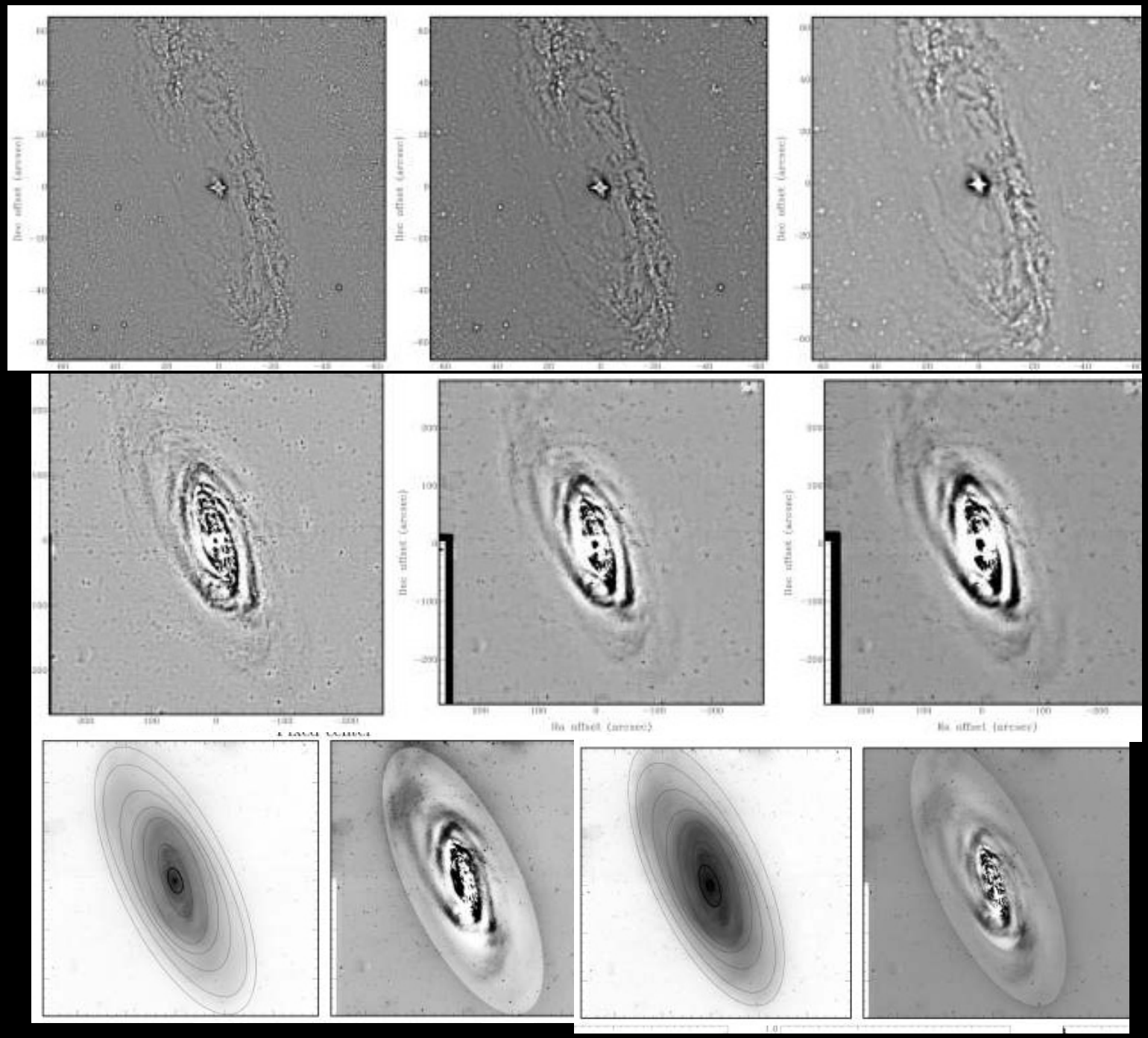


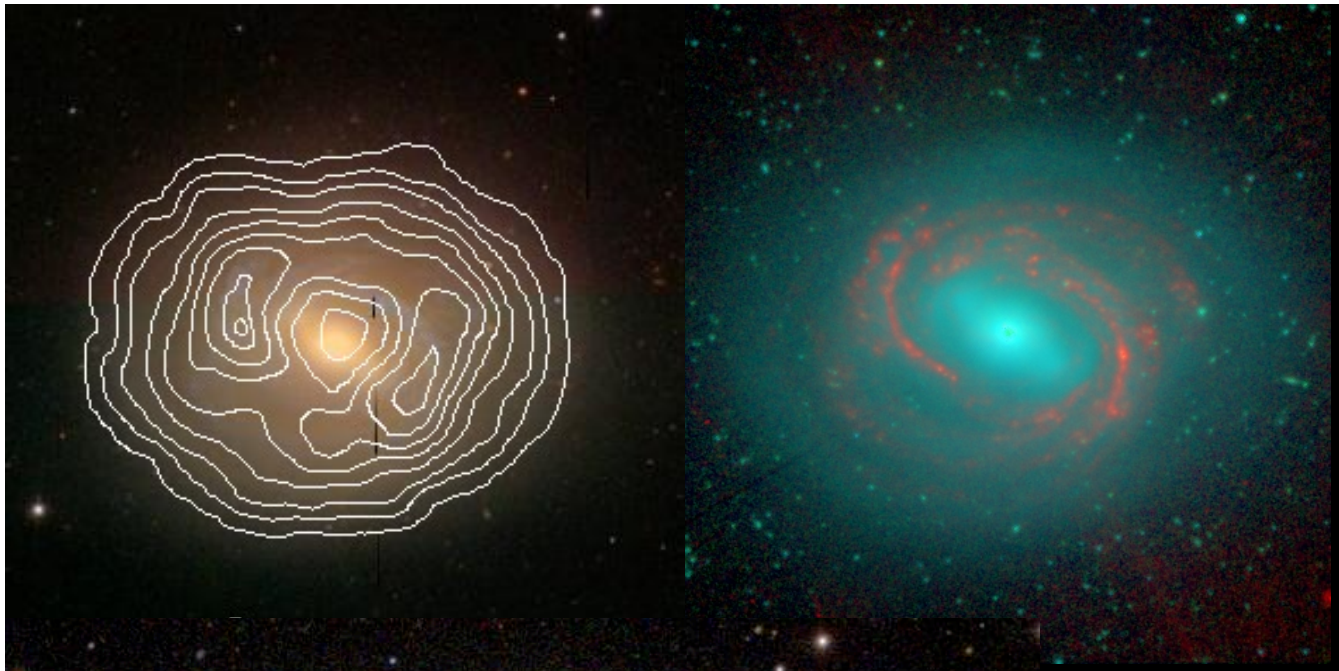


NGC4567/
NGC4568

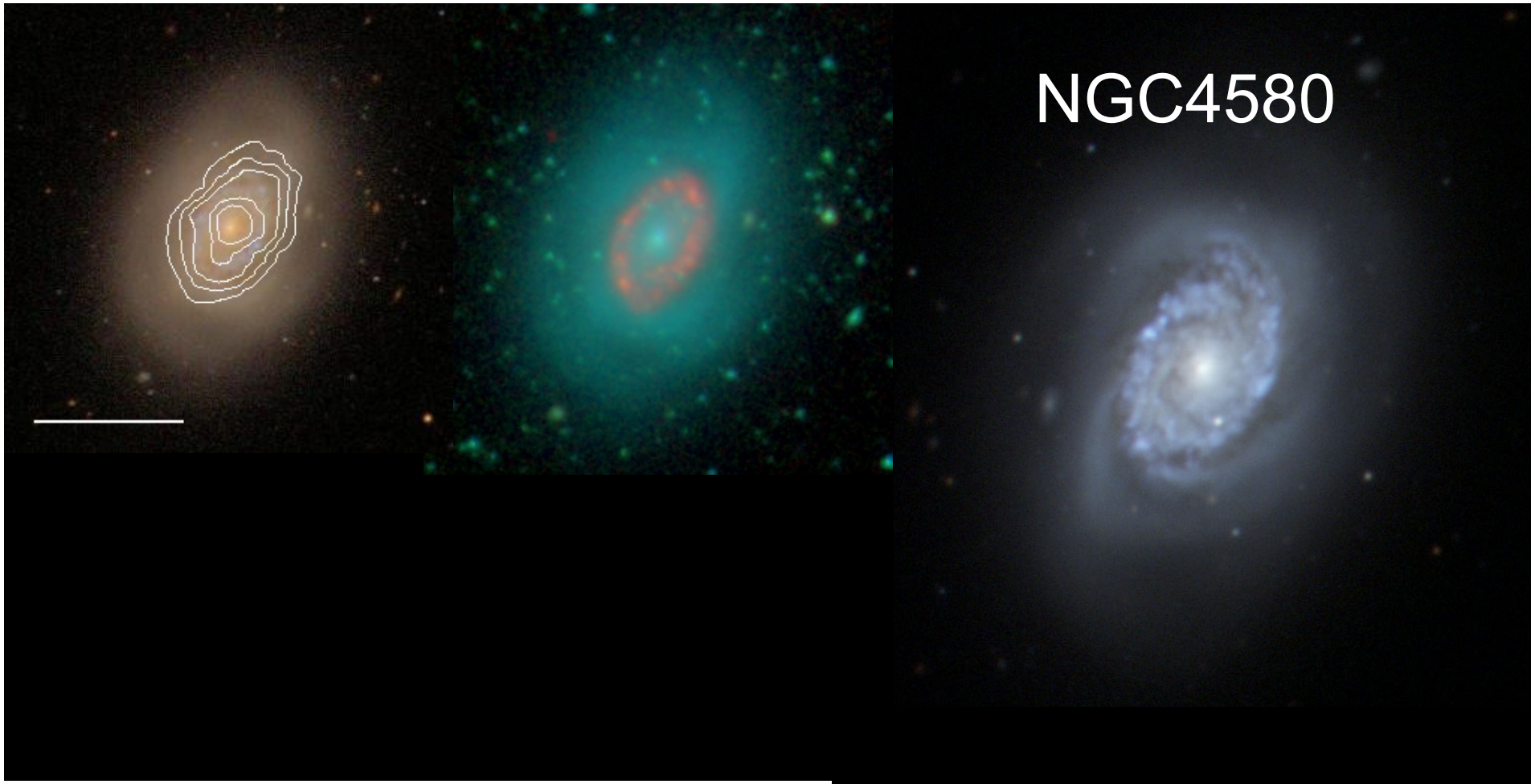

NGC4569
3μm
8μm
NGC 4569
B-I
Hα+[NII]
Hα+[NII]
HI on
Hα+[NII]
NGC 4569
20cm on Hα
IC3583
NGC 4569

NGC 4569





NGC4579



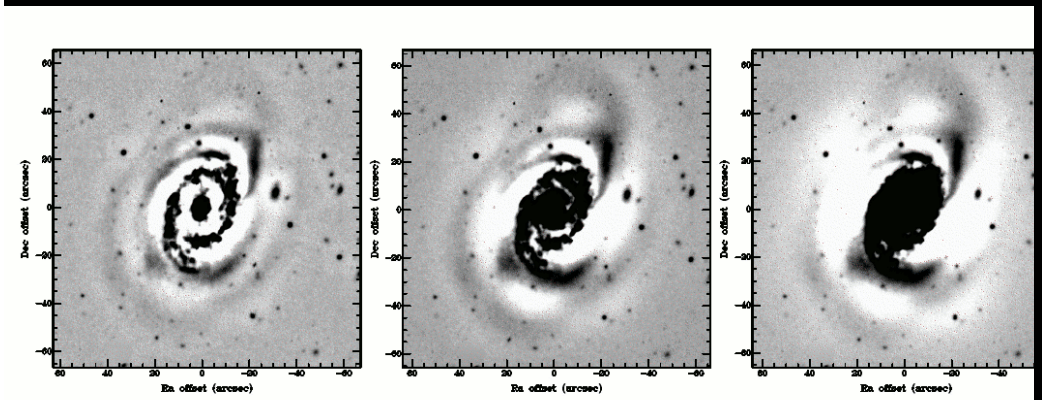


Fig. 2.- Unsharp masking with a median kernel of 101, 201, and 301 pixels. Outer faint structures are revealed by substracting to the original image, the median filtered one.

NGC 4580

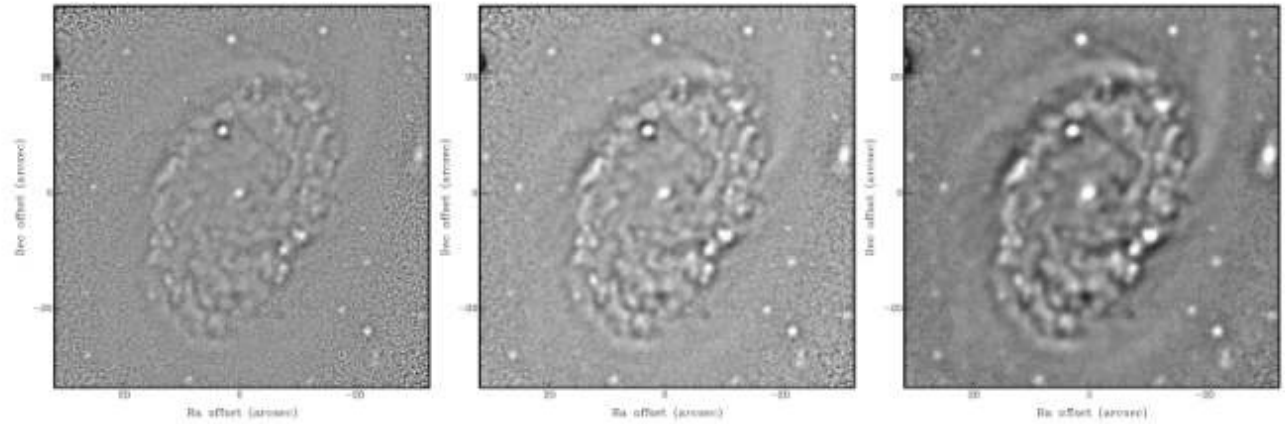


Fig. 1.- Unsharp masking with a gaussian kernel of 2, 4 and 8 pixels. Inner structures

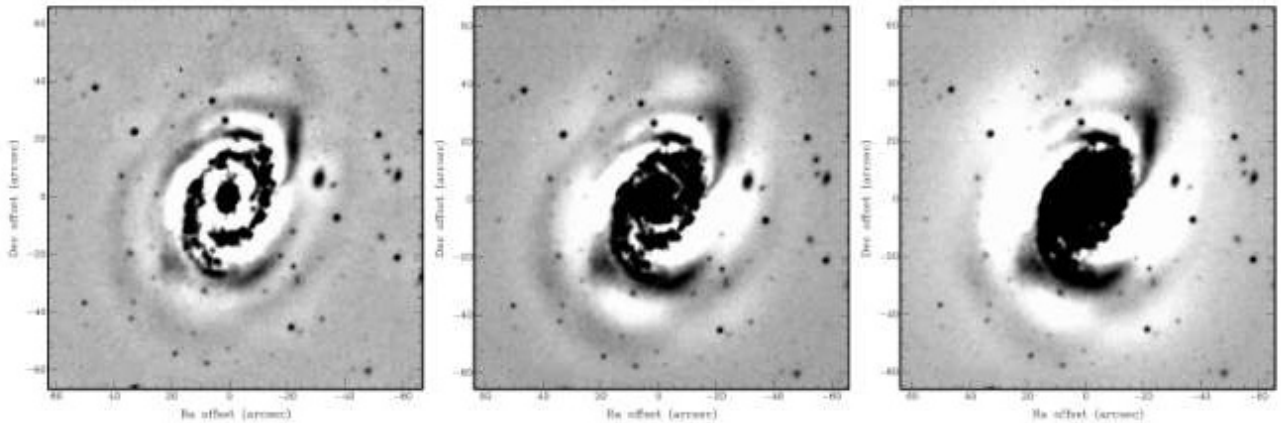
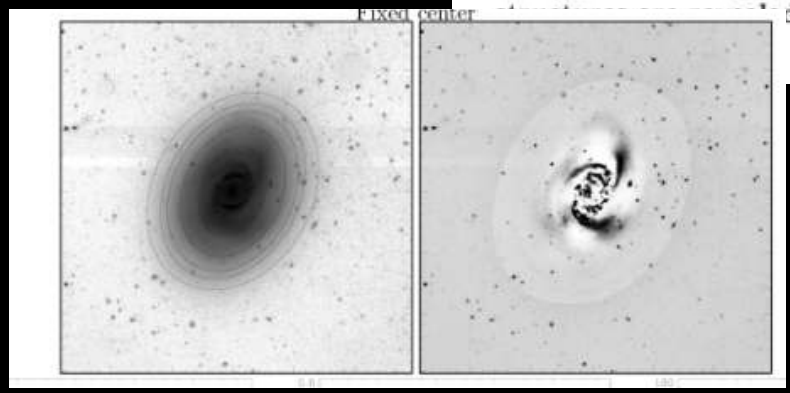
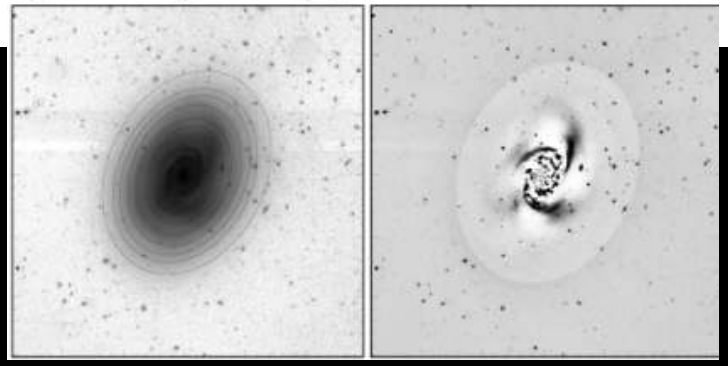


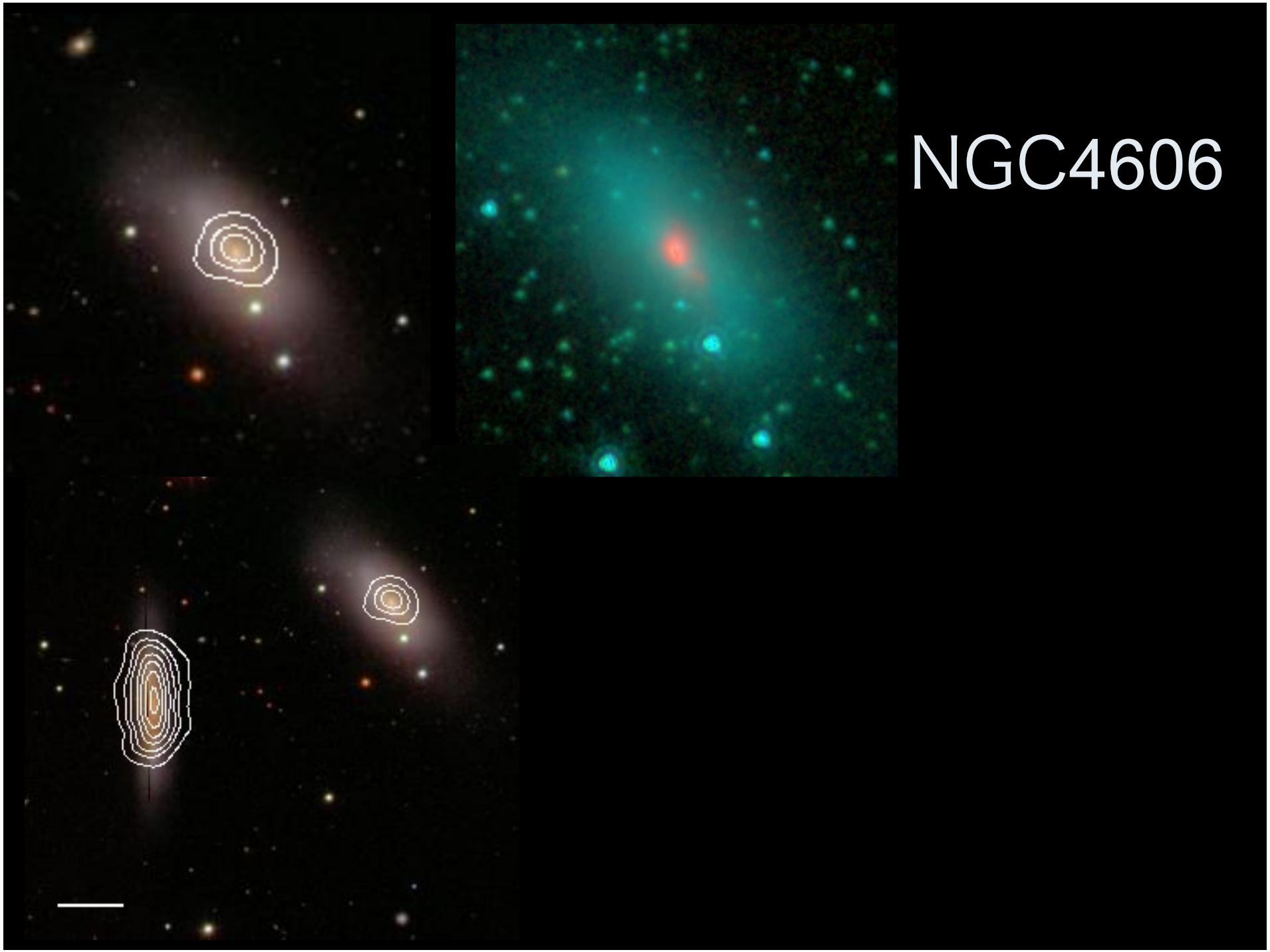
Fig. 2.- Unsharp masking with a median kernel of 101, 201, and 301 pixels. Outer faint

Fixed center

d by substracting to the original image, the median filtered one.






NGC4606

NGC 4606

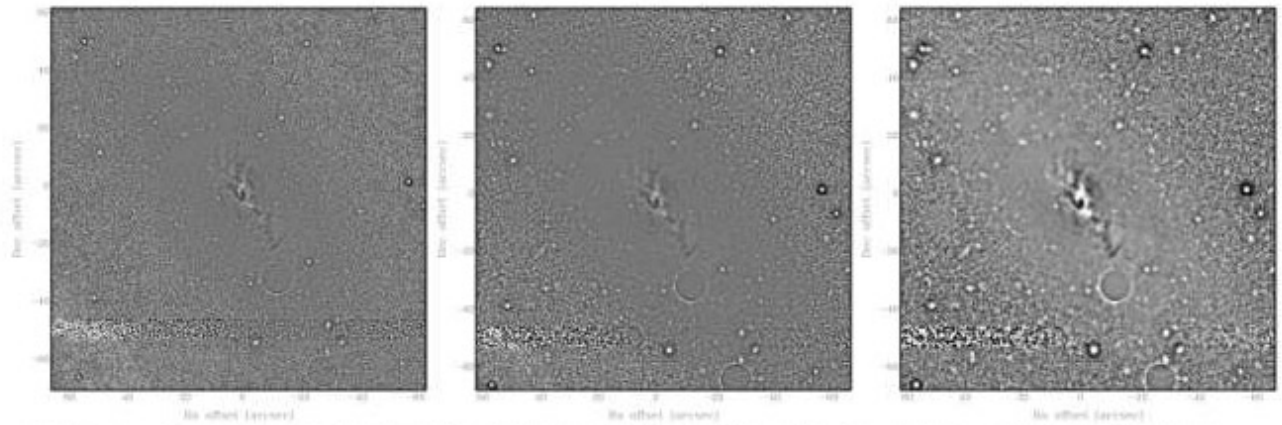


Fig. 1.- Unsharp masking with a gaussian kernel of 2, 4 and 8 pixels. Inner structures

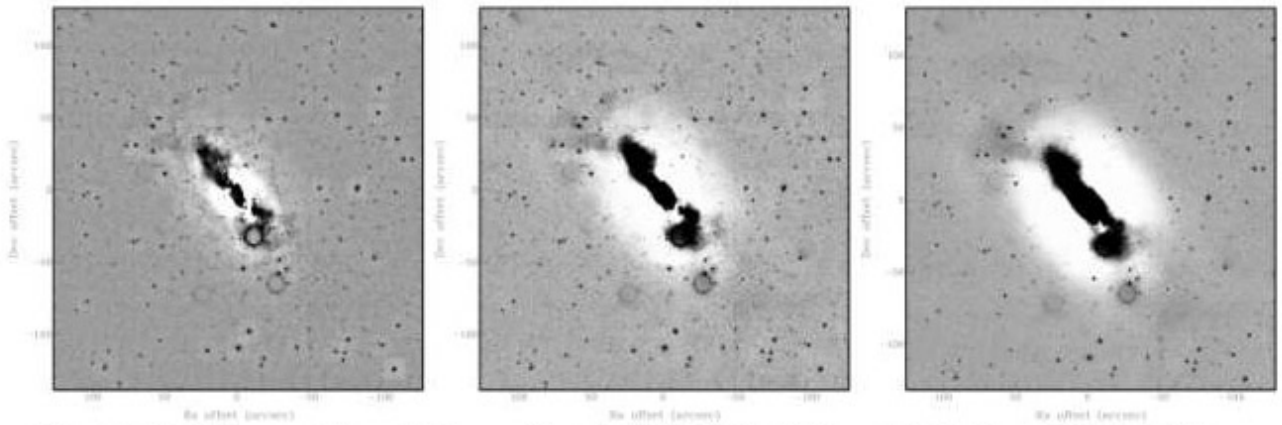
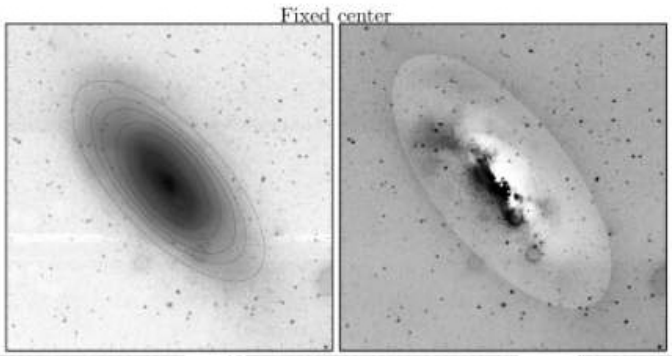
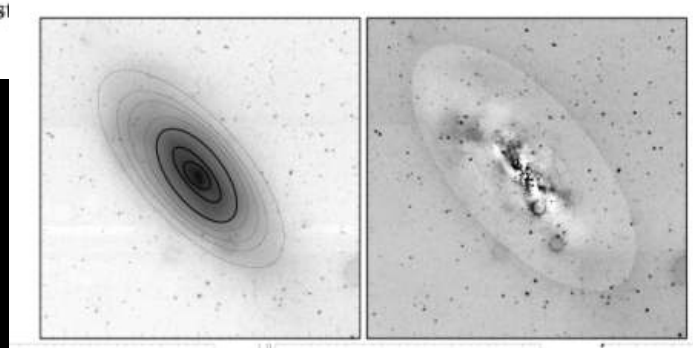
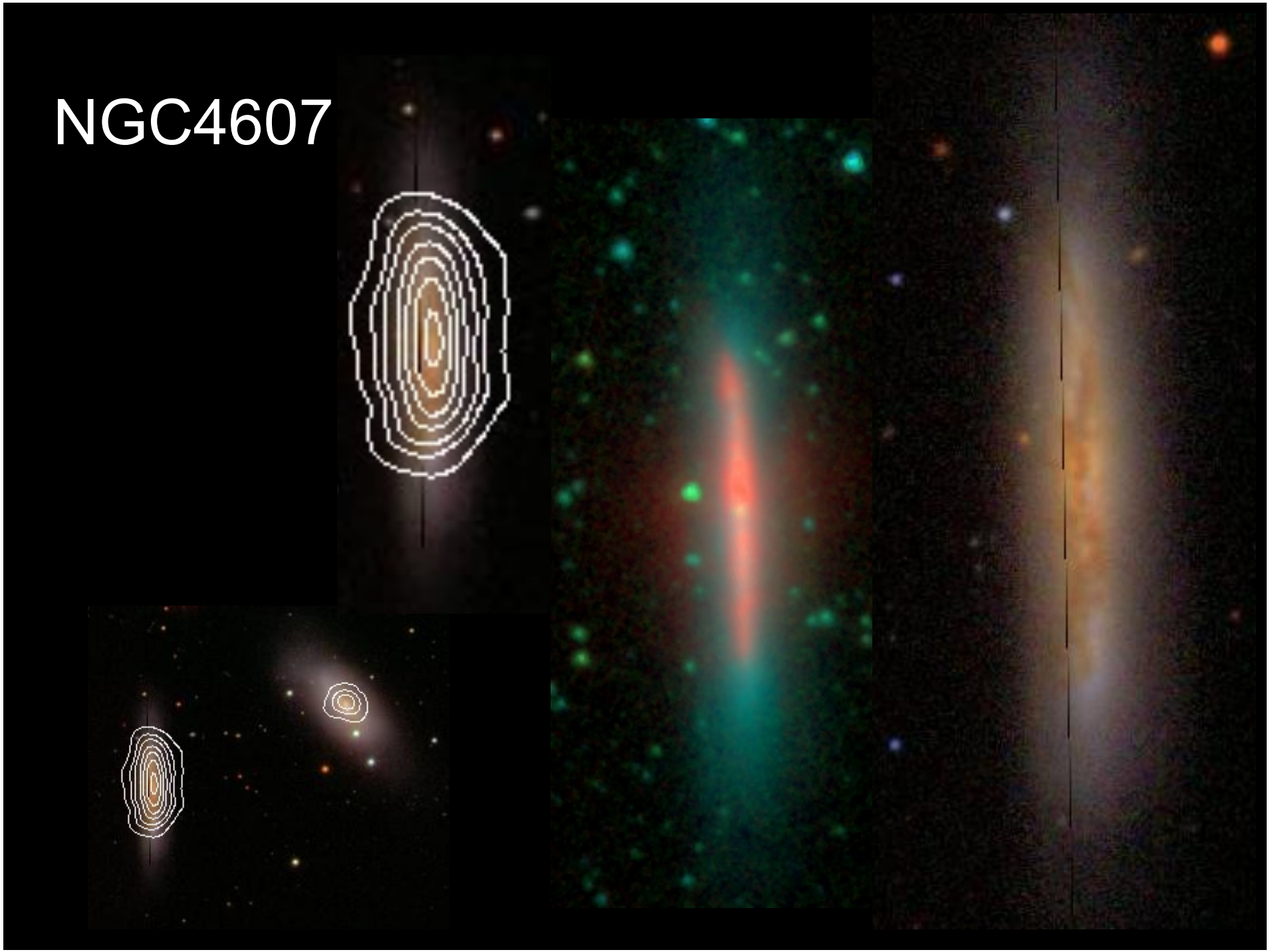


Fig. 2.- Unsharp masking with a median kernel of 101, 191, and 291 pixels. Outer faint ubst





NGC4607



NGC 4607

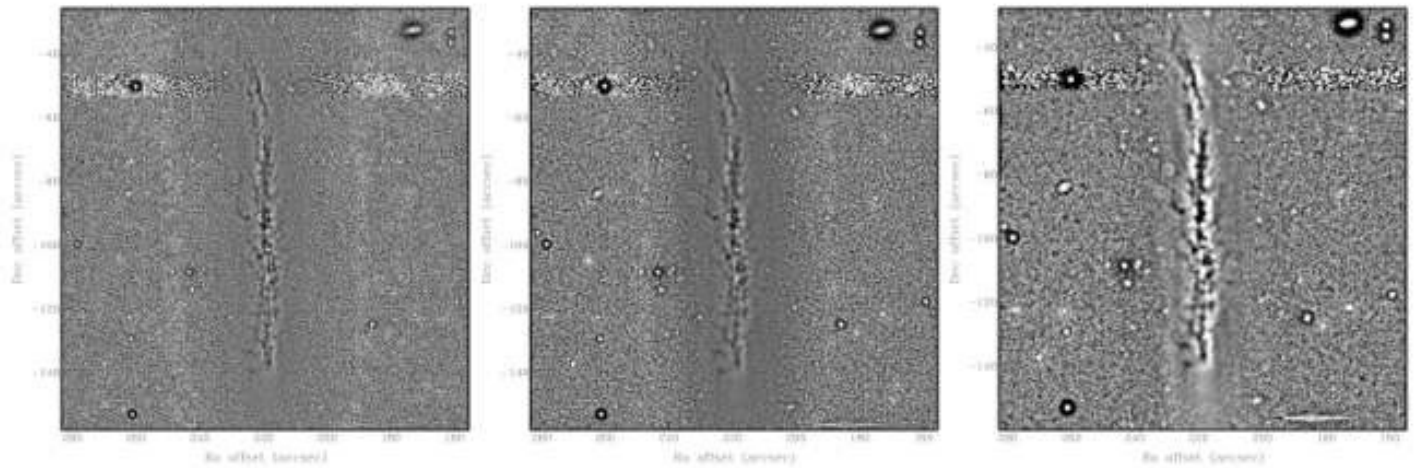


Fig. 1.- Unsharp masking with a gaussian kernel of 2, 4 and 8 pixels. Inner structures

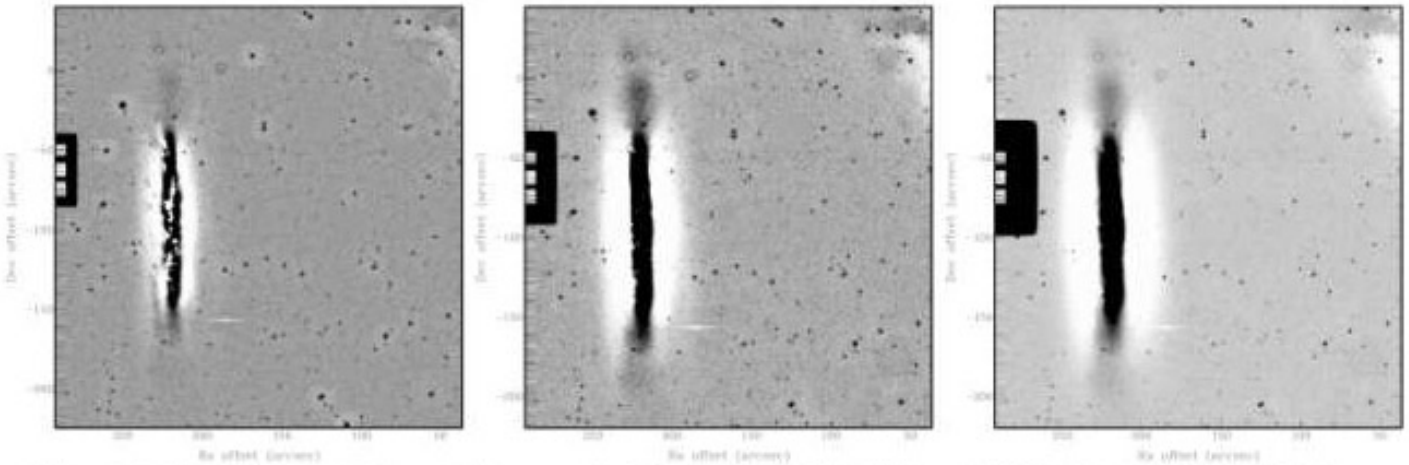
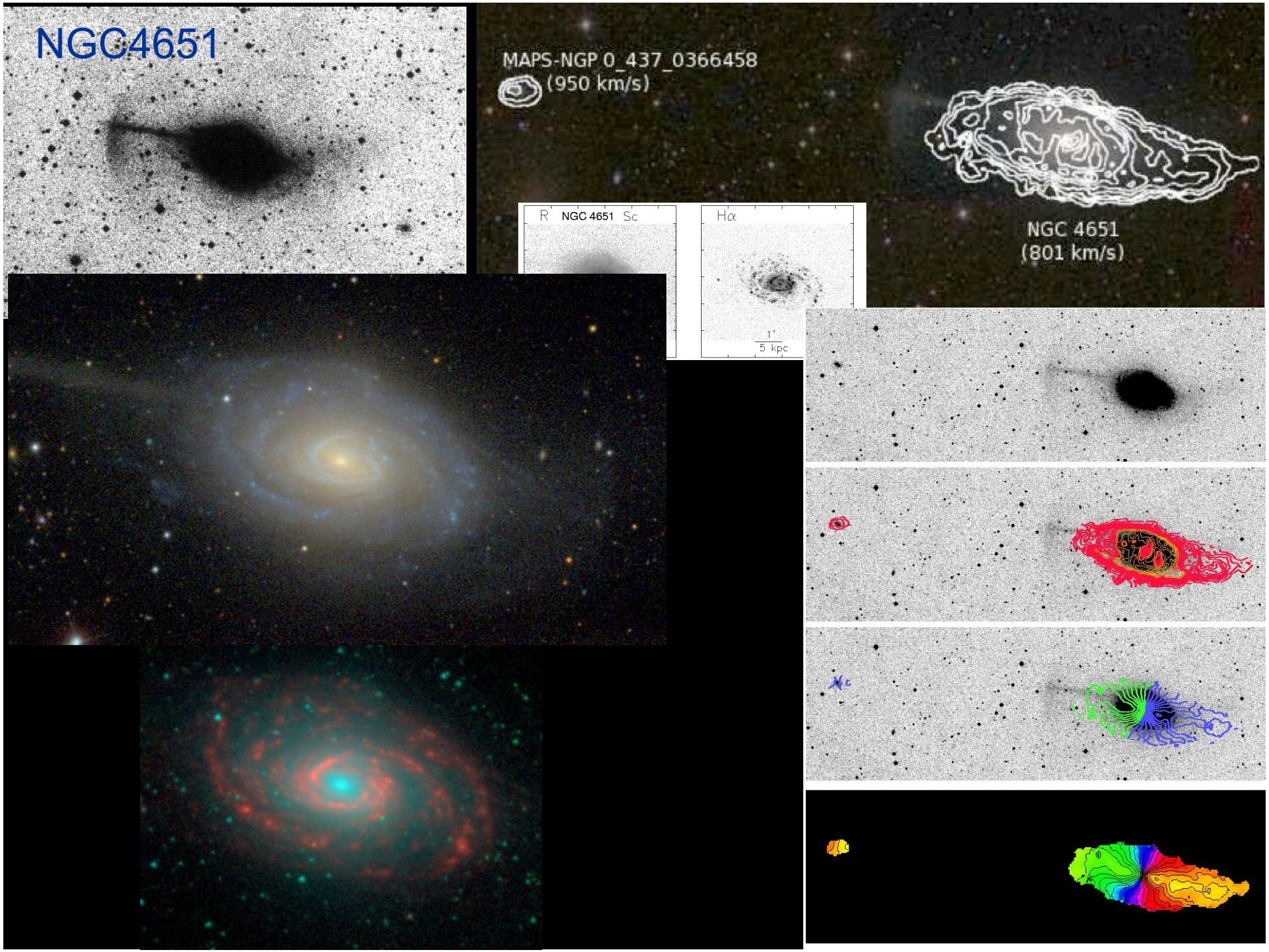
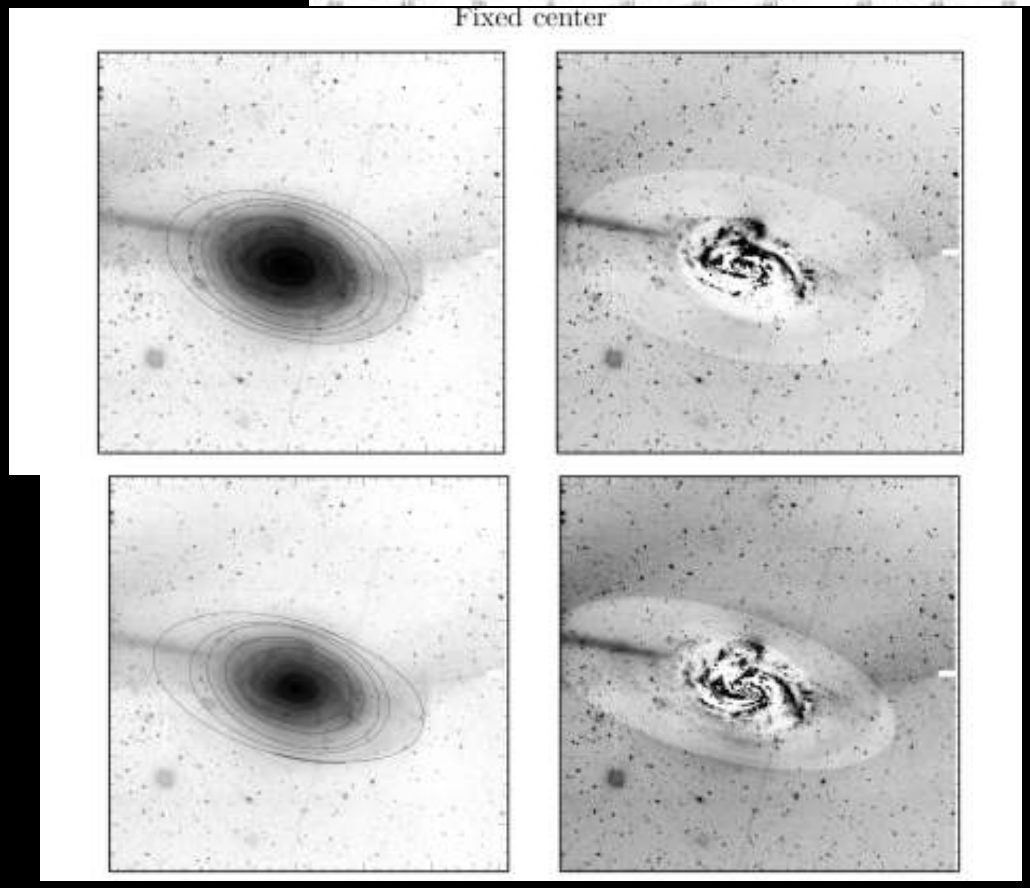
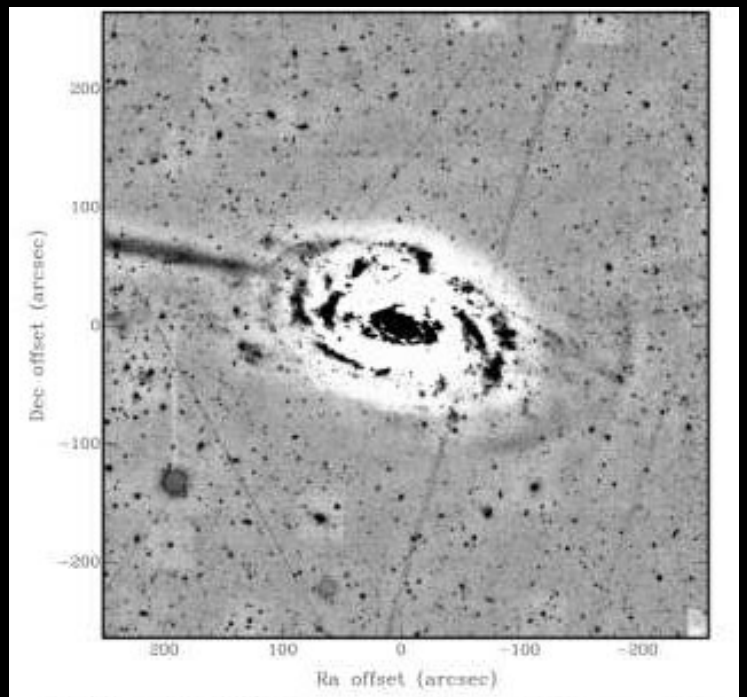


Fig. 2.- Unsharp masking with a median kernel of 101, 191, and 291 pixels. Outer faint


NGC4651
MAPS-NGP 0_437_0366458
(950 km/s)
NGC 4651
(801 km/s)
R NGC 4651 Sc
Hα
1′
5 kpc

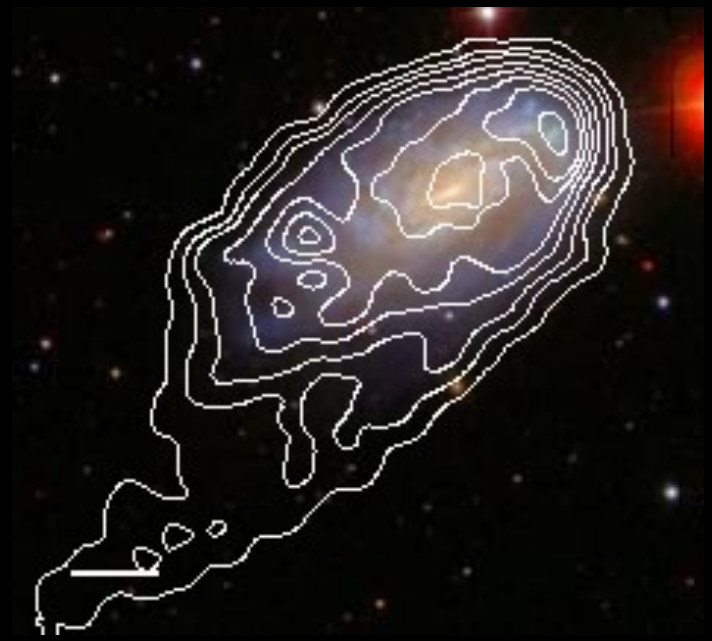
NGC 4651

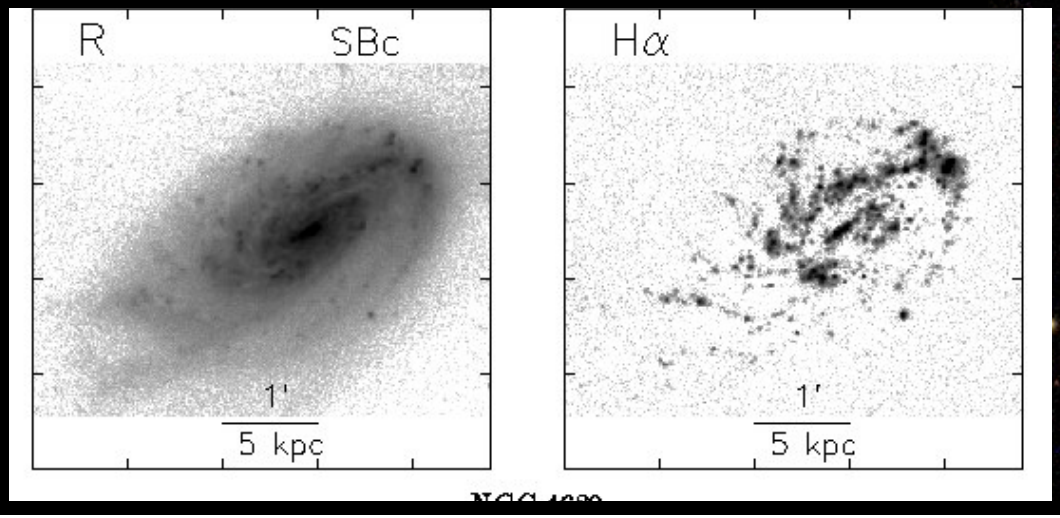




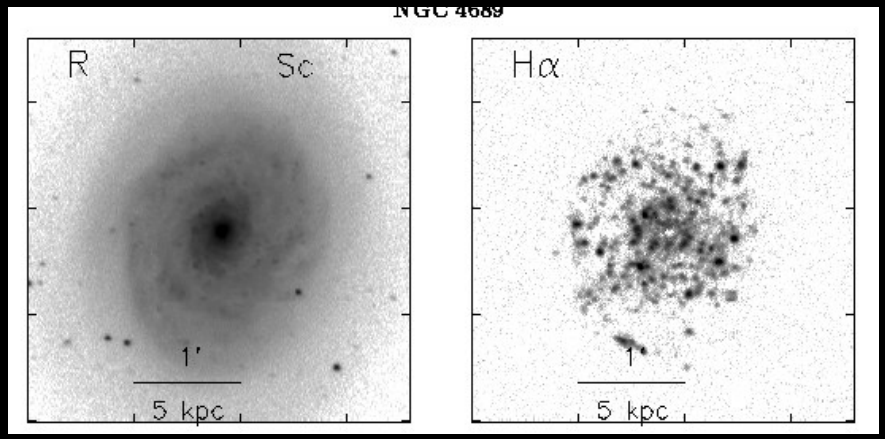
bfFig. 2.- Unsharp masking with a median
are revealed by substracting to the original ima

NGC4654

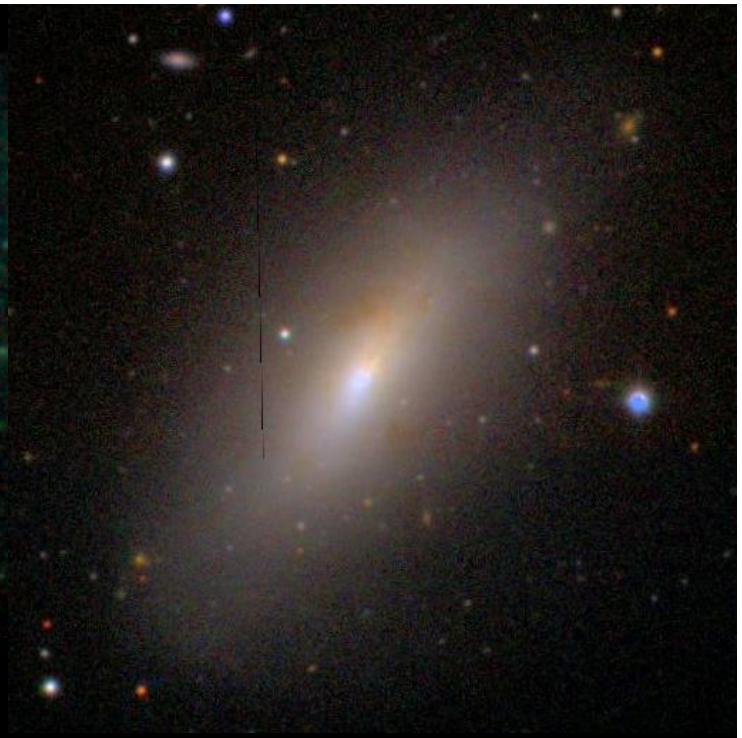




NGC4689



NGC4694



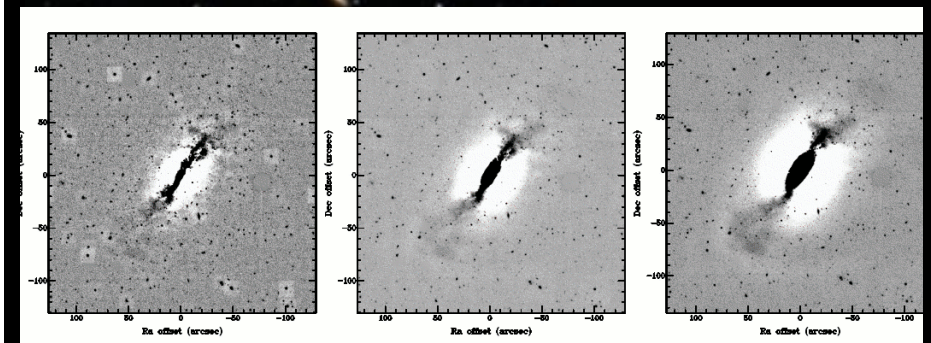


Fig. 2.- Unsharp masking with a median kernel of 101, 201, and 301 pixels. Outer faint structures are revealed by substracting to the original image, the median filtered one.

NGC 4694

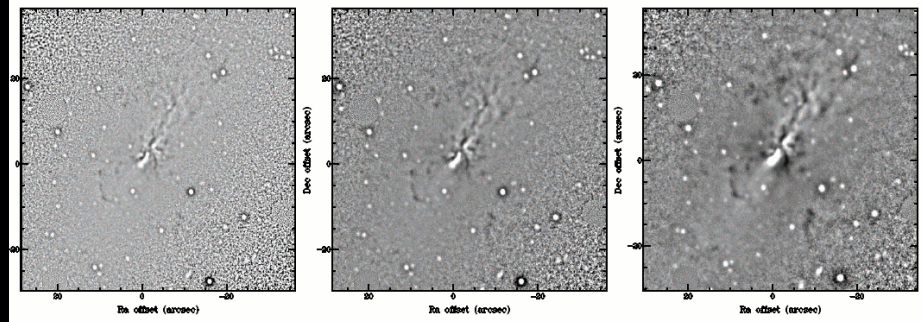
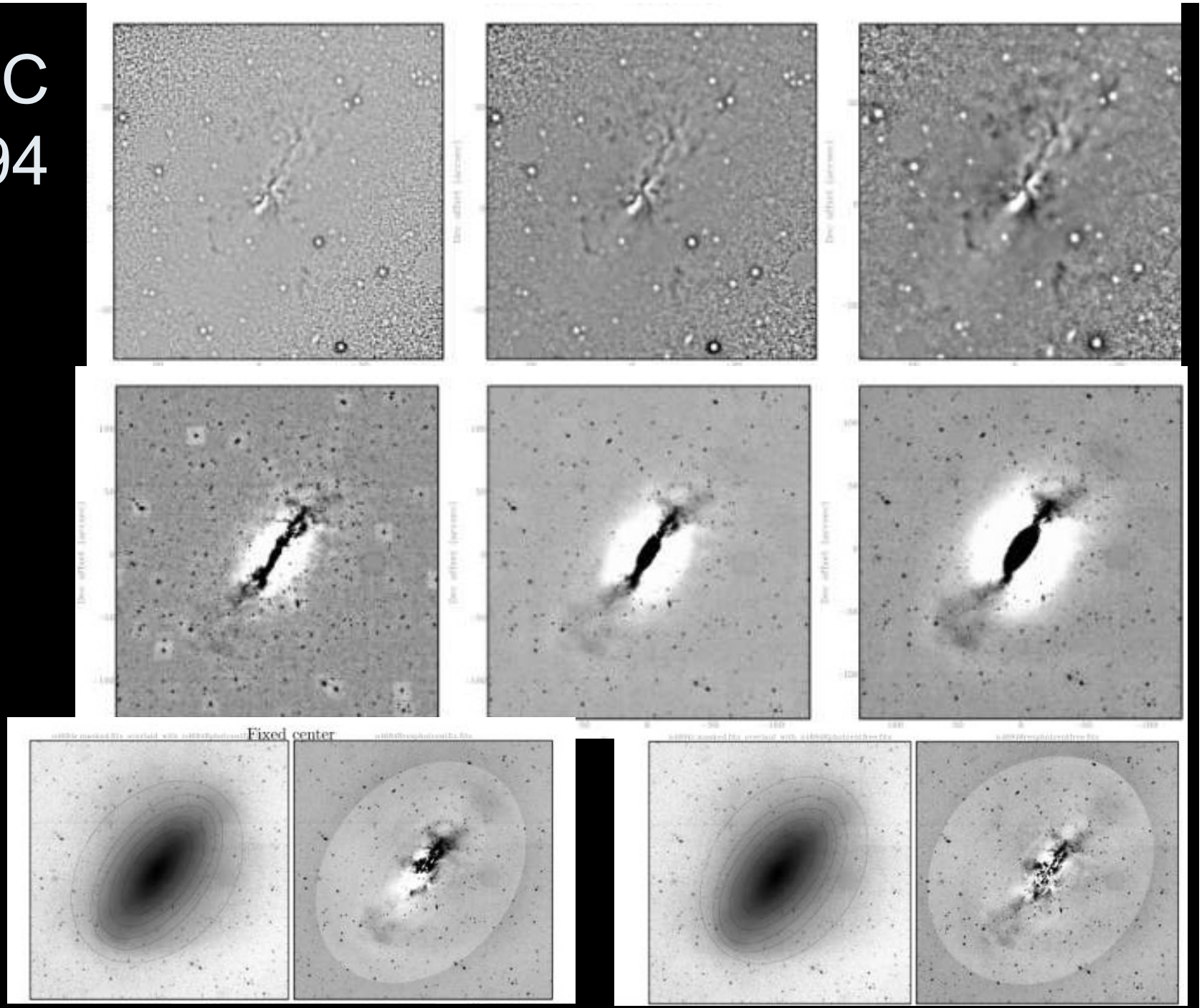
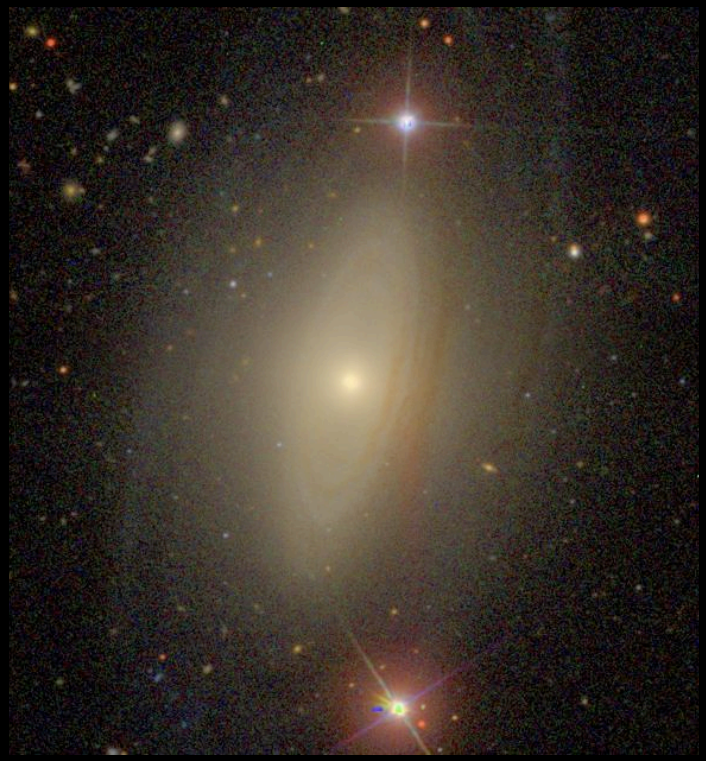


Fig. 1.- Unsharp masking with a gaussian kernel of 2, 4 and 8 pixels. Inner structures are revealed by dividing the original image with the convolved it one.

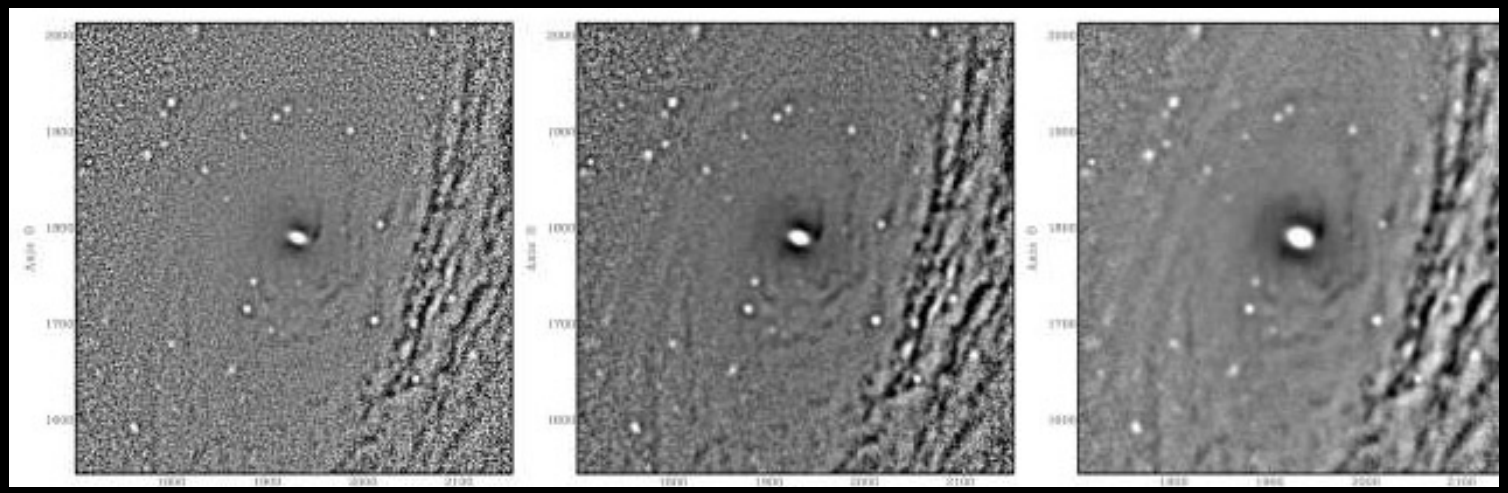
NGC 4694

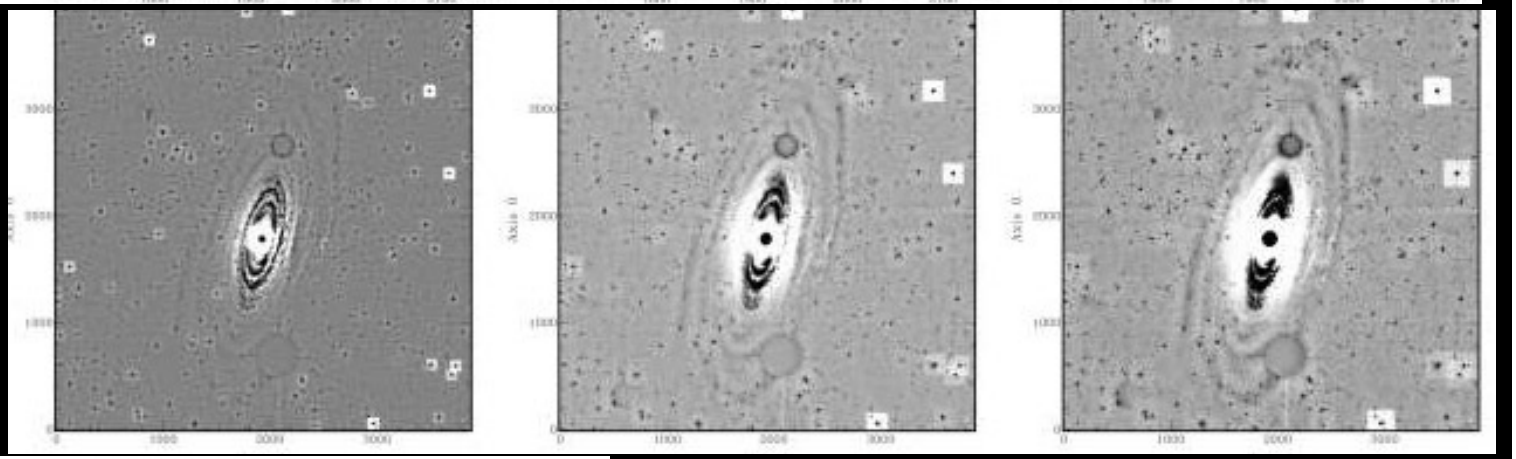


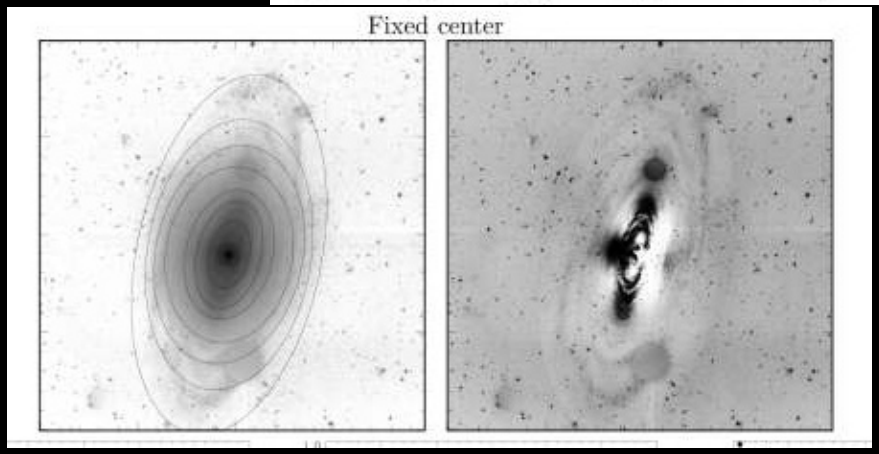
NGC4698

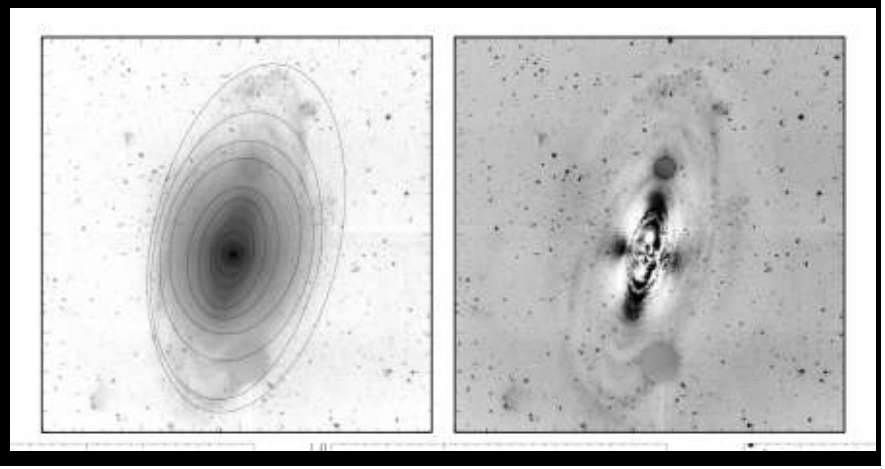


NGC 4698

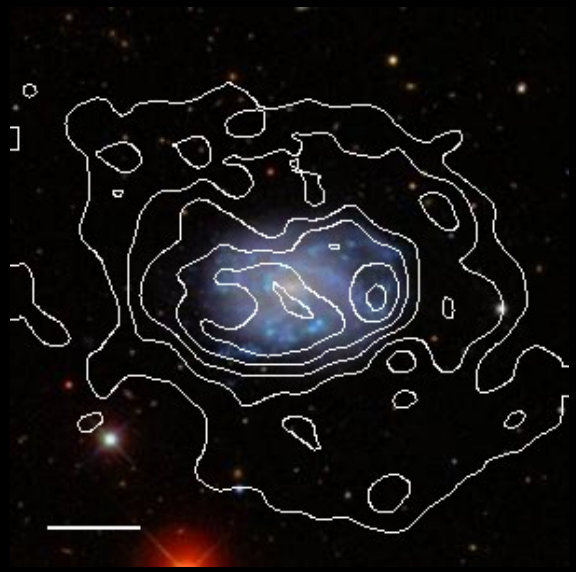








NGC4713



NGC4772

NGC4808