

MicroObservatory – Using Online Telescopes

Your objective is to get several images of galaxies that we can use for the next unit.

Go to <http://mo-www.harvard.edu/MicroObservatory/>

Go to *Telescopes* (on sidebar)

Choose one of the telescopes

Enter username btss; password: universe

Galaxies Settings ...

Camera: Main

Filter: Clear

Exposure: 60 seconds

Zoom: Out Focus: Default

Point Telescope: If target not on pull-down list, use coordinates and input RA and Dec.

Suggested galaxies to observe	GALAXY	SKY COORDINATES			
		These coordinates are provided for classrooms that have usernames and passwords for the full access "Telescope Control Form." You won't need them for the MicroObservatory Guest Observer Portal.			
Galaxy Set 1		Right Ascension (R.A.)		Declination (Dec.)	
		Hours	Minutes	Degrees	Minutes
		NGC 253	00 °	47.7 °	-25 °
		M 31 (Andromeda)	01	42.7	41
		M 33 (NGC 598)	01	33.8	30
		NGC 891	02	22.6	42
		M 81	09	55.6	69
		M 101	14	3.2	54
		NGC 5907	15	15.9	56
Galaxy Set 2		Right Ascension (R.A.)		Declination (Dec.)	
		Hours	Minutes	Degrees	Minutes
		NGC 2903	09	32.2	21
		M 96	10	46.8	11
		M 65	11	18.8	13
		M 109	11	57.7	53
		M 104 (Sombrero)	12	40	-11
		M 106	12	18	47
		M 51 (Whirlpool)	13	29.9	47
Galaxy Set 3		Right Ascension (R.A.)		Declination (Dec.)	
		Hours	Minutes	Degrees	Minutes
		NGC 4013	11	58.5	43
		NGC 4636	12	42.9	02
		M 58	12	37.7	11
		NGC 5005	13	10.9	37
Galaxy Set 4		Right Ascension (R.A.)		Declination (Dec.)	
		Hours	Minutes	Degrees	Minutes
		NGC 2300	07	32.3	85
		NGC 2543	08	13	36
		NGC 3614	11	18.3	45
		NGC 4124	12	8.1	10
		NGC 4565	12	36.3	25

Other places to get images from MicroObservatory – *Get Images* (on sidebar) – there is a list of recent images, scroll through and find a galaxy or click on the *Archive* link at the top and go to Galaxy folder.