

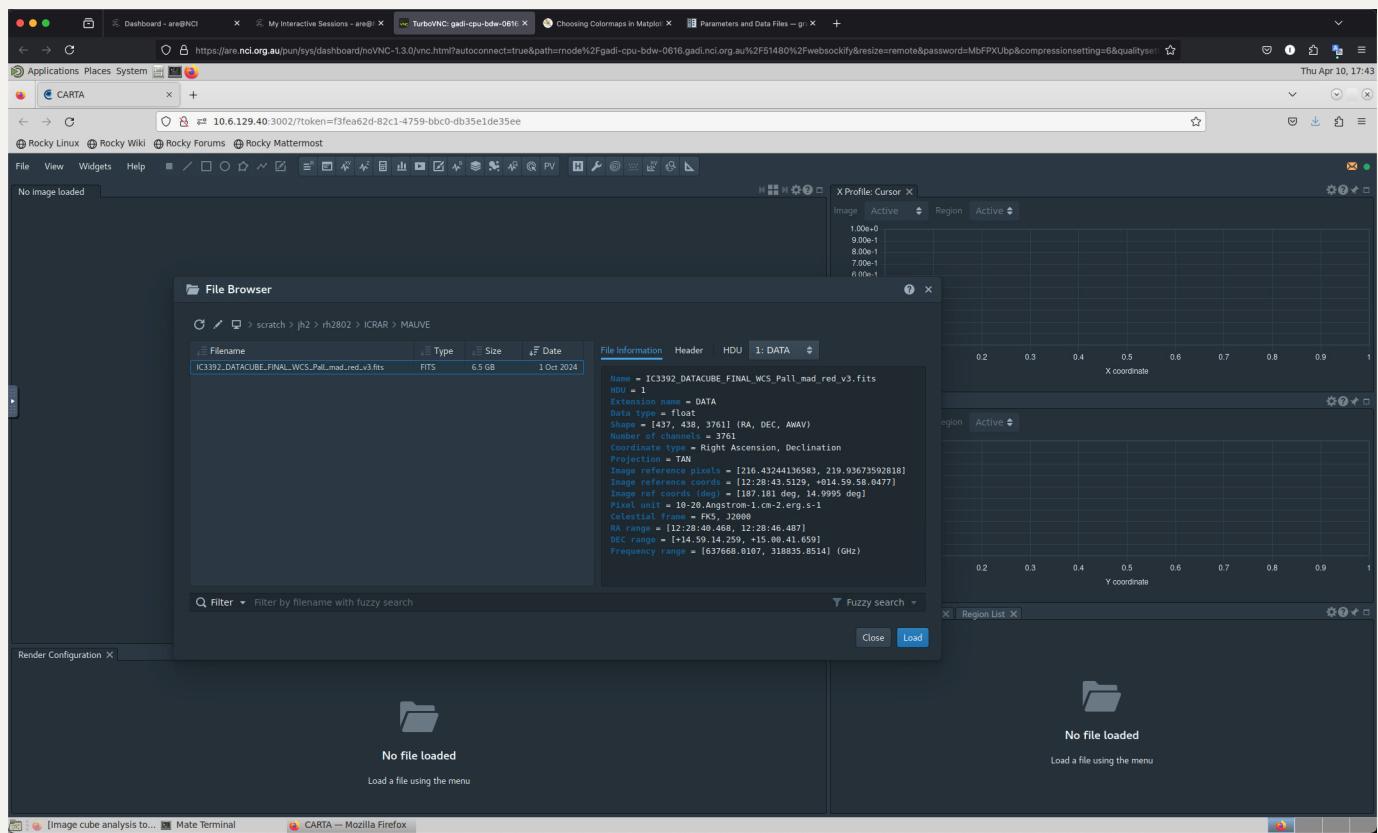
CARTA activities

IC3392

https://cloud.datacentral.org.au/remote.php/webdav/mauve/teamdata/cubes/red_v3/IC3392_DATACUBE_FINAL_WCS_Pall_mad_red_v3.fits

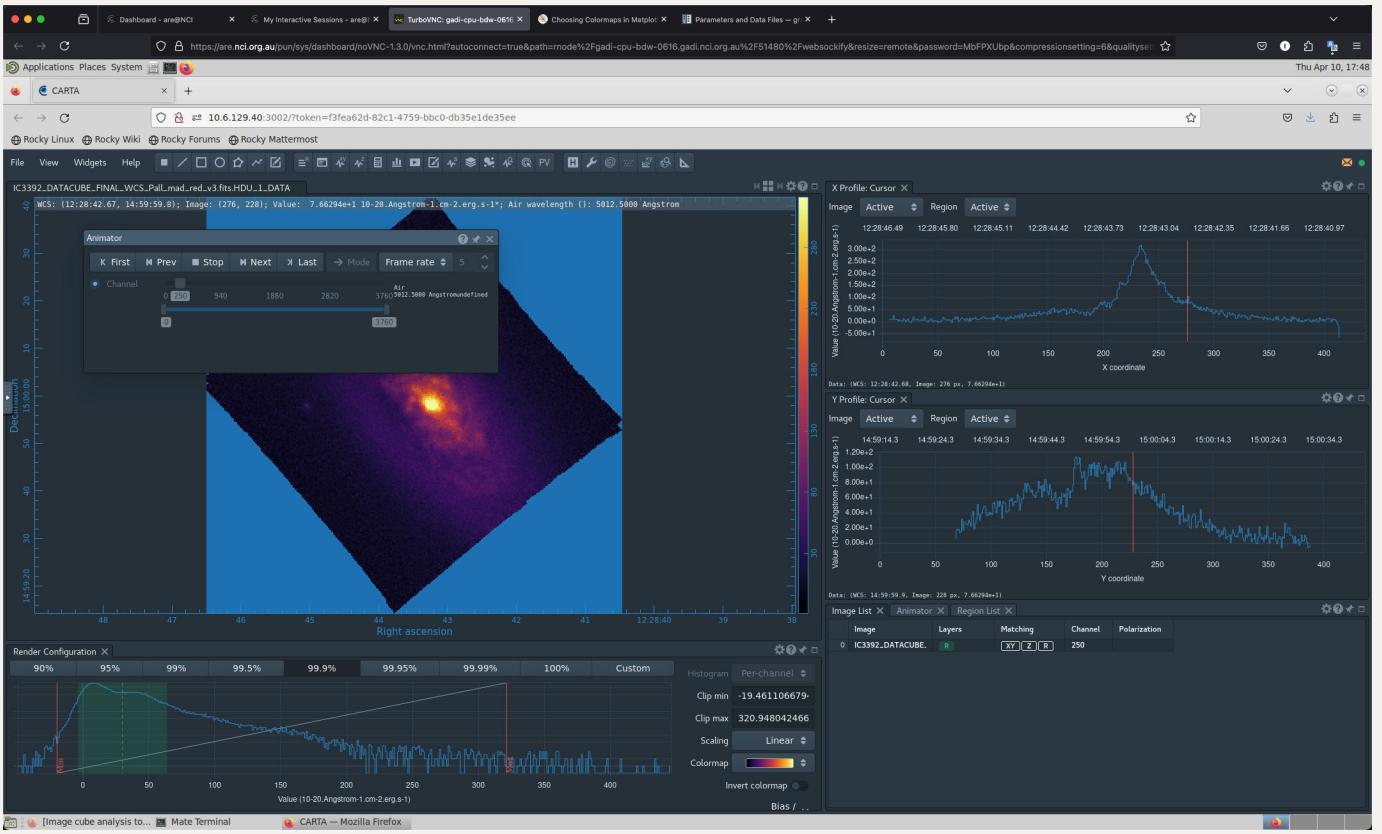
1. Load data in CARTA and check extensions

I see three extensions: DATA, STAT, and DQ. These match the description on MAUVE wiki.



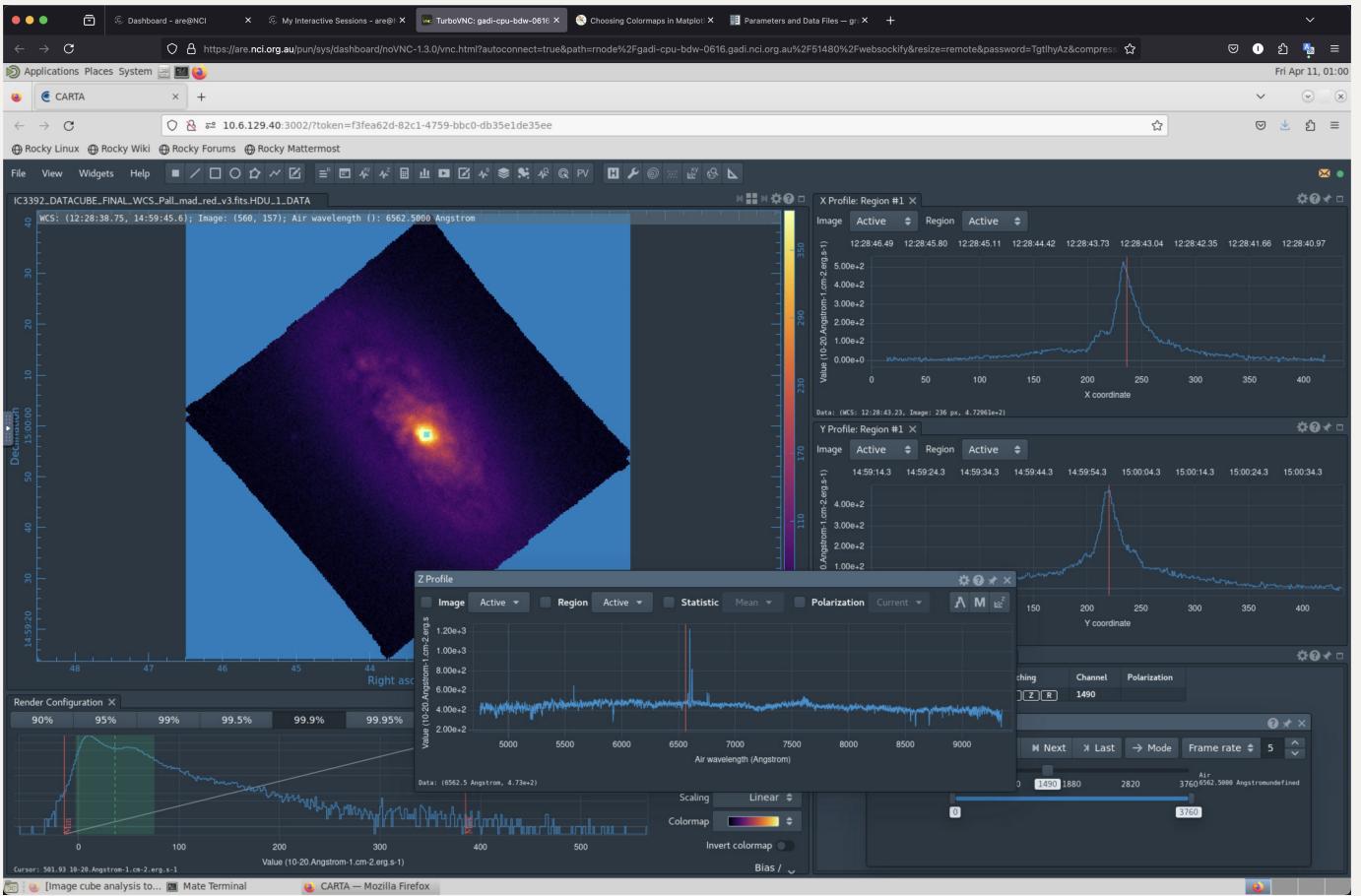
2. Skim through the Animator tool

Just a bit confused with the terminology, `frame rate`. But I guess the animator goes through the z-direction of datacube so i think that should refer to wavelength space?



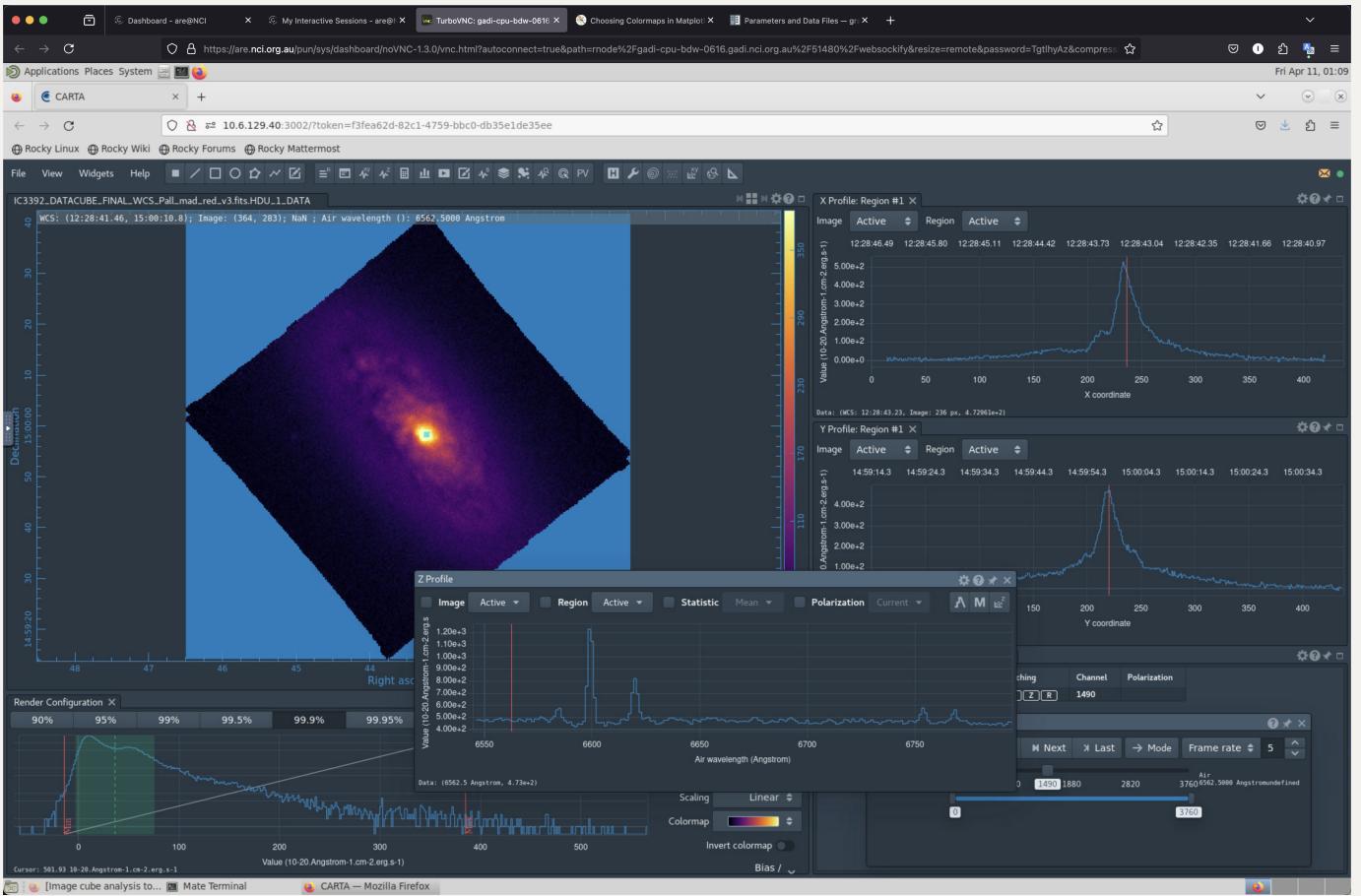
3. Spectral Profiler

I stop the animator at frame 1490 (i.e., 6562.5 Å). I open the spectral profiler and choose a datapoint roughly the galactic centre.



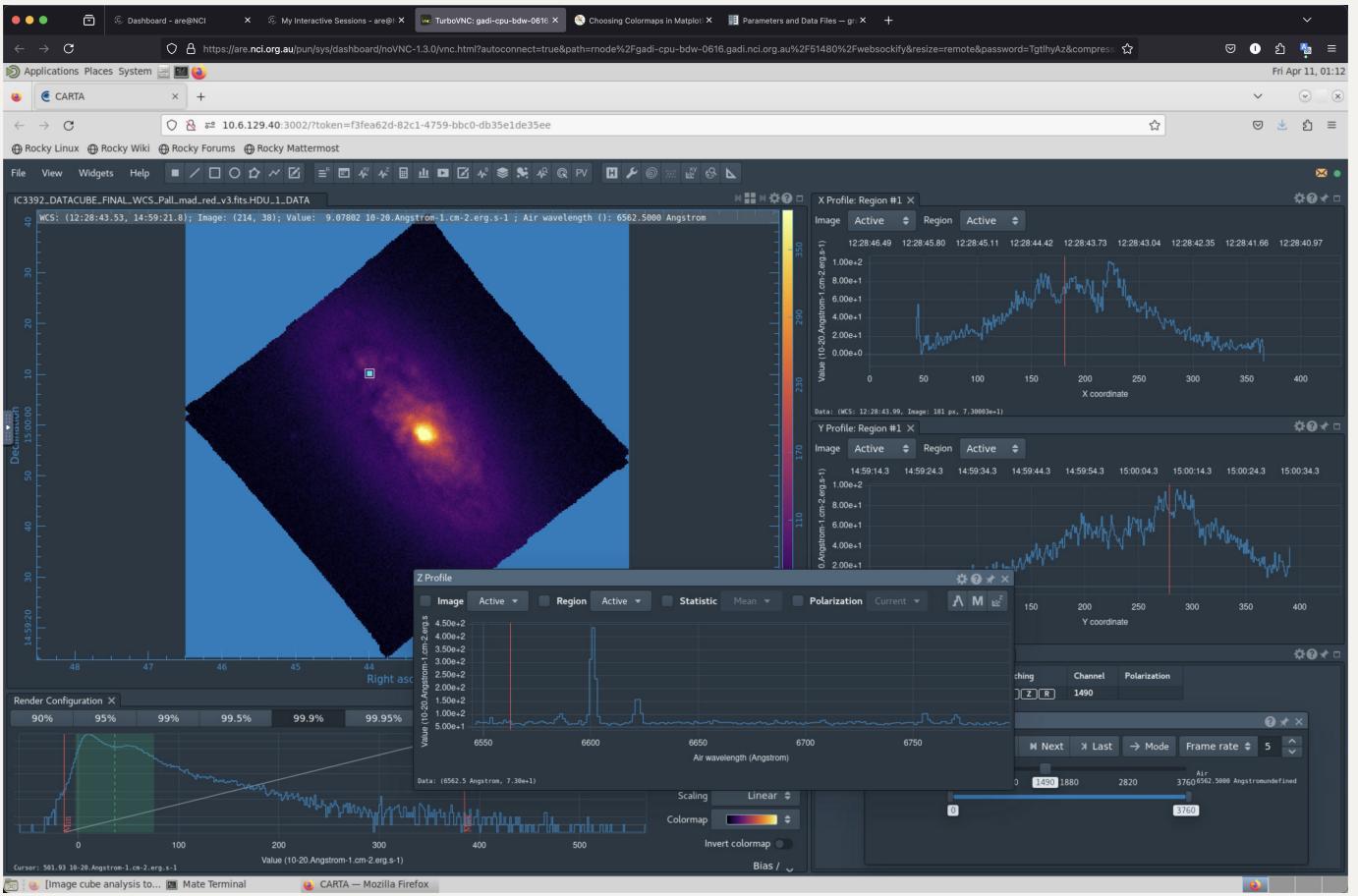
I do see some emission lines. I can try to identify 5 of them:

N II doublet, H α and S II doublet?



Also a question here, is there any figures or tables that I can use as a reference to identify them.

Then I move the data point to lefter region and clearly the intensity drops.



4. Moments

I guess the moment tool is integrating the image over the selected wavelength range. Here I choose stacking 6500 - 6800 Å and subtracting the continuum (intensity below 400) to get a H α map, if that peak at 6600Å is the redshifted H α line ($z = 0.0056$).

