How do I load a list of sources or pointings into the OT?

Nathan Brunetti - 2024-03-14 - ALMA Observing Tool (OT)

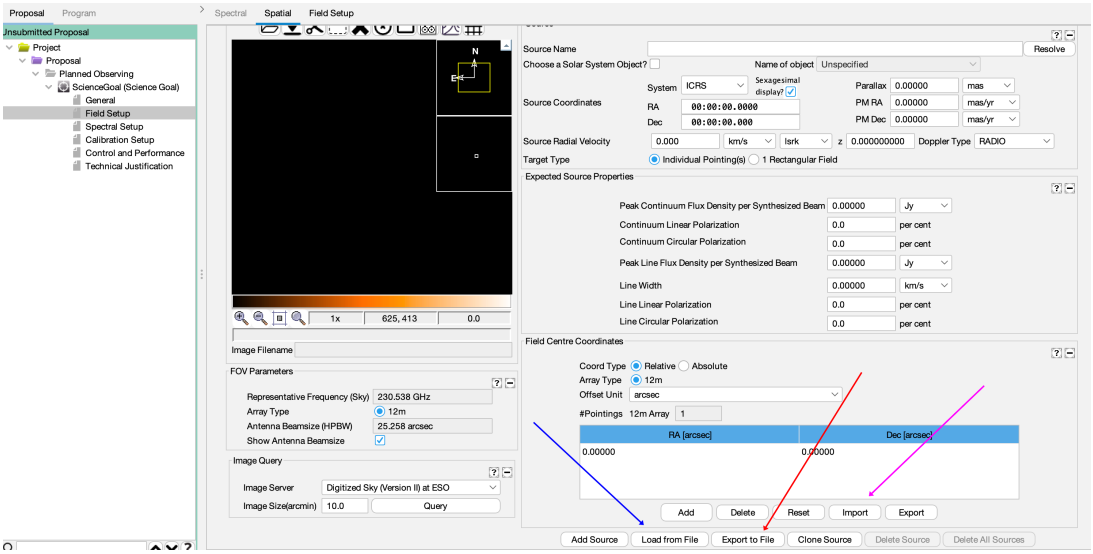
You can load multiple sources into a Science Goal using an ASCII file stored on your local disk. For each target, the text file must contain a list of comma-separated entries - for the format see the OT Reference Manual or hit "Export to File..." - the resultant file will contain a header indicating the required columns. A completed file is read into the OT using the "Load from File" button.

Loading sources from an ASCII file works for both 'Individual Pointing(s)' and '1 Rectangular Field'. The above procedure will allow you to load only the source information (including the field centre coordinates, velocity information and expected source properties). If the default 'Individual Pointing(s)' target type is selected one pointing at the field centre will be generated by default, any additional offset pointings must be defined either interactively in the OT or imported from a file (see below). If you want to define '1 Rectangular Field' for each source you must select this target type with the radio button **before** loading the sources from a file; you will then be able to define the rectangle for each source individually in the OT.

For target type 'Individual Pointing(s)' you can load individual offset (or custom mosaic) pointings on a per-source basis using the "Import" button below the pointings table. The format of the required ASCII file is

RA , Dec, Coordinate Type[Absolute,Offset], Coordinate Units
-- This signals end of the header
04:31:38.4369, 18:13:57.651,Absolute,SEXAGESIMAL
04:31:40.5426, 18:13:57.650,Absolute,SEXAGESIMAL
04:31:36.3312, 18:13:57.650,Absolute,SEXAGESIMAL

The Coordinate Units can be SEXAGESIMAL, DEGREES, RADIANS for Coordinate Type Absolute and ARCSECS, ARCMINS, DEGREES for Coordinate Type Offset.


Proposal
Program
Unsubmitted Proposal
Project
Proposal
Planned Observing
ScienceGoal (Science Goal)
General
Field Setup
Spectral Setup
Calibration Setup
Control and Performance
Technical Justification
Spectral
Spatial
Field Setup
N
E
1x
625, 413
0.0
Image Filename
FOV Parameters
Representative Frequency (Sky)
230.538 GHz
Array Type
12m
Antenna Beamsize (HPBW)
25.258 arcsec
Show Antenna Beamsize
Image Query
Image Server
Digitized Sky (Version II) at ESO
Image Size(arcmin)
10.0
Query
Source Name
Resolve
Choose a Solar System Object?
Name of object
Unspecified
Source Coordinates
System
ICRS
Sexagesimal display?
RA
00:00:00.0000
Dec
00:00:00.000
Parallax
0.00000
mas
PM RA
0.00000
mas/yr
PM Dec
0.00000
mas/yr
Source Radial Velocity
0.000
km/s
lsrk
z
0.000000000
Doppler Type
RADIO
Target Type
Individual Pointing(s)
1 Rectangular Field
Expected Source Properties
Peak Continuum Flux Density per Synthesized Beam
0.00000
Jy
Continuum Linear Polarization
0.0
per cent
Continuum Circular Polarization
0.0
per cent
Peak Line Flux Density per Synthesized Beam
0.00000
Jy
Line Width
0.00000
km/s
Line Linear Polarization
0.0
per cent
Line Circular Polarization
0.0
per cent
Field Centre Coordinates
Coord Type
Relative
Absolute
Array Type
12m
Offset Unit
arcsec
#Pointings
12m Array
1
RA [arcsec]
Dec [arcsec]
0.00000
0.00000
Add
Delete
Reset
Import
Export
Add Source
Load from File
Export to File
Clone Source
Delete Source
Delete All Sources