

# Chandra Footprint Service

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# STC-S

- A string serialization of STC
- Allows for almost all STC metadata constructs to be expressed in a simple string, such as:
  - Positions
  - Times and time ranges
  - Spectral metadata
  - Redshift and Doppler velocity information
  - Spatial regions – simple or compound
- In any combination

# STC-S Examples

- A volume in observing coordinate space:

```
TimeInterval TT GEOCENTER 2011-01-01 2012-03-30 Resolution 0.2
```

```
PositionInterval ICRS GEOCENTER 170 -20 190 10 Resolution 0.0001
```

```
SpectralInterval GEOCENTER 4.95 5.0 unit GHz Size 0.05
```

- A point in Time and Space:

```
Time TDB BARYCENTER MJD 50814.0
```

```
Position ICRS BARYCENTER 147.3 69.3
```

# STC-S Regions

- Simple region:

```
Circle ICRS TOPOCENTER 147.6 69.9 0.4
```

- Compound region:

```
Union ICRS TOPOCENTER
```

```
(Polygon 147.8 69.2 147.4 69.2 147.3 69.4 147.9 69.4
```

```
Polygon 147.9 69.7 147.6 69.7 147.5 69.9 148.0 69.9)
```

# Chandra FPS

- Based on HLA FPS and Budavàri STC Region library
  - Rewritten for Canvas
  - Single input field: <object>|<coordinates> [R=<field size>]
  - Selection options
  - Customizable table
- Tabs:
  - Footprints
  - Image inventory
  - Quick-look images, links to:
    - observation details, data download, publications

# Chandra FPS

- URL:

<http://cxc.harvard.edu/cda/footprint/cdaview.html>

- Demo