
Subject: Re: SSW Coordinate Conversions
Posted by [Steve\[5\]](#) on Fri, 30 Apr 2010 10:24:31 GMT
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Aram Panasenco wrote:

> I have been trying to do this... for a while. How can I use SolarSoft to
> convert cartesian coordinates to solar spherical coordinates and back
> (accounting for the sub-observation plane angle)? I have tried using
> functions like CNVT_COORD, HEL2ARCMIN, and others, but I just can't
> understand what the hell is it that they do (The documentation doesn't
> help. At all.)
>
> Please help
>
> ~Aram Panasenco

Working with the HI imager on STEREO data we do...

```
wcs=fitshead2wcs(fitsheader)
help,wcs,/struct    ; coord_type is helioprojective cartesian
coord=wcs_get_coord(wcs)
```

gives the positions of all pixels in the image as a 2*n*m array

we can also do...

```
wcs=fitshead2wcs(fitsheader,system='a')
and get coordinates is celestial-equatorial
```

Steve
