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Subject: Re: convert to pixel to RA and DEC in degrees?

Posted by [adisn123](#) on Thu, 03 Aug 2006 16:45:22 GMT

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THank you all. It was a great help.

Craig Markwardt wrote:

> adisn123@yahoo.com writes:

>> Forgot one more thing.

>>

>> When applying "xyad" procedure to convert pixel coordinates to RA and  
>> DEC,

>> the North direction of RA and DEC coords should align with the North  
>> direction of pixel coords?

>

> It doesn't have to be aligned. It depends on how the telescope or  
> camera was pointed.

>

>> If it is, then the image should be rotated in such a way that its North  
>> in RA and DEC should

>> match with the North of pixel coords. I took a look at the image 's  
>> header to look for how many degrees I should rotate such that they  
>> align perfectly each other, but I can't find anything relevant to the  
>> rotation degrees.

>

> Some FITS images have a CROTAn keyword. Others have a rotation  
> matrix, which is stored in CDn\_n, I believe. More info can be found  
> here,

> [http://fits.gsfc.nasa.gov/fits\\_wcs.html](http://fits.gsfc.nasa.gov/fits_wcs.html)

>

> Craig

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> Craig B. Markwardt, Ph.D. EMAIL: [craigmnet@REMOVEcow.physics.wisc.edu](mailto:craigmnet@REMOVEcow.physics.wisc.edu)

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