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Subject: Re: Tasselated Cap in IDL?

Posted by [Yngvar Larsen](#) on Wed, 29 Aug 2012 06:09:20 GMT

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On Monday, 20 August 2012 18:59:19 UTC+2, Coyote wrote:

> Folks,

> Has anyone implemented a Tasselated Cap algorithm for Landsat data in IDL? I realize this exists in ENVI, but I am looking for an IDL-only solution.

Sorry for late answer, but since nobody answered yet... (Though likely you already resolved this by yourself, since Google knows the answer.)

Not sure what your actual problem is? The Tasseled Cap transformation is just a linear combination of (a selection of) the bands of a multispectral imager. So the actual IDL code would be something you literally implement in 2 minutes. So I guess you are looking for the weights to use? That of course depends on which Landsat data you have.

For Landsat TM and the older Landsat MSS, there is a useful summary here:

<http://www.sjsu.edu/faculty/watkins/tassel.htm>

For Landsat 7 ETM+, you can try Table 2 in the following document:

<http://landcover.usgs.gov/pdf/tasseled.pdf>

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Yngvar

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