Subject: Re: Landsat Image weirdness - IDL off topic
Posted by David Fanning on Mon, 16 Mar 2009 21:29:21 GMT
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Jean H. writes:

> ok, it's "gap data",areas that fall between ETM+ scans... it seems that
> filling data should be available... do you know where I can download
> the fill-in data if I have the scene number?

I think you will turn up many interesting articles if you
Google "landsat destriping".

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Landsat Image weirdness - IDL off topic
Posted by lbusett@yahoo.it on Tue, 17 Mar 2009 09:11:02 GMT
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On 16 Mar, 21:53, "Jean H." <jghas...@DELTHIS.ucalgary.ANDTHIS.ca>
wrote:
> Hi all,
>
> Not too sure where to ask this question... hopefully someone here will know!
>
> Ok, I have downloaded a Landsat 7 ETM+ image from USGS (by the way,
> their new service, with free historical images is awesome!!)
>
> ... but it doesn't look as I hoped it would.. have a look
here:http://www.environmentalmodelers.com/WP/sat_img_problem .gif
>
> Basically, I have, perpendicular to the fly path, some black lines.
> These lines are not present along the central line of the image, and the
> further you are from this center line, the wider are the black lines.
>
> Also, on the edge of the image, I can see some data extensions, which
> surprises me even more!
>
> So, is there anything I can do about this? (I guess it is not an Endian
> problem as the rest of the image looks good, it's not a data type

> problem either, not a band interleave pb as it is a single band)
>
> Thanks a lot!
> Jean

Hi Jean,

This is a well known problem of ETM+ data acquired after may 2007, and is due to the failure of the SLC (Scan Line Corrector). You find info on the problem here:

http://landsat.usgs.gov/products_slc_off_data_information.ph p

Unfortunately, I believe that there's no a real way to solve the problem, since in the black areas of your image the sensor did not acquire the data. A possibility is to use different images of the same area to build a single "gap filled" image.

Hope this helps,

Lorenzo

Subject: Re: Landsat Image weirdness - IDL off topic
Posted by Jean H. on Tue, 17 Mar 2009 14:18:48 GMT
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> Hi Jean,
>
> This is a well known problem of ETM+ data acquired after may 2007,
> and is due to the failure of the SLC (Scan Line Corrector). You find
> info on the problem here:
>
> http://landsat.usgs.gov/products_slc_off_data_information.ph p
>
> Unfortunately, I believe that there's no a real way to solve the
> problem, since in the black areas of your image the sensor did not
> acquire the data. A possibility is to use different images of the same
> area to build a single "gap filled" image.
>
> Hope this helps,
>
> Lorenzo

Ah, thanks a lot...

since the proposed solution requires another image and provides poor results over land-use transitions, I guess I will have to stick with the

other images..

Thanks for the link anyways, I understand the problem much better now!
Jean

Subject: Re: Landsat Image weirdness - IDL off topic
Posted by Jean H. on Tue, 17 Mar 2009 14:20:31 GMT
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David Fanning wrote:
> Jean H. writes:
>
>> ok, it's "gap data",areas that fall between ETM+ scans... it seems that
>> filling data should be available... do you know where I can download
>> the fill-in data if I have the scene number?
>
> I think you will turn up many interesting articles if you
> Google "landsat destriping".
>
> Cheers,
>
> David

Hi,

it is indeed interesting, I will keep in mind the technical term! ...
though the problem is different, as it is zones of no-data (like 400m
wide), not zones of spoiled data...

Thanks anyways!
Jean
