

Martin Søndergaard

From: Robert Voors <robert.voors@airbus.com>
Sent: 04 November 2024 16:21
To: Martin Søndergaard
Subject: Fwd: Issue with COD data

FYI

----- Forwarded message -----

From: Kevin Nobel <kevincnobel@outlook.com>
Date: Mon, Nov 4, 2024 at 2:12 PM
Subject: RE: Issue with COD data
To: Robert Voors <robert.voors@airbus.com>
Cc: Thomas Dreischer <thomas.dreischer@airbus.com>

Hello Robert,

It is indeed unfortunate that the format changed.

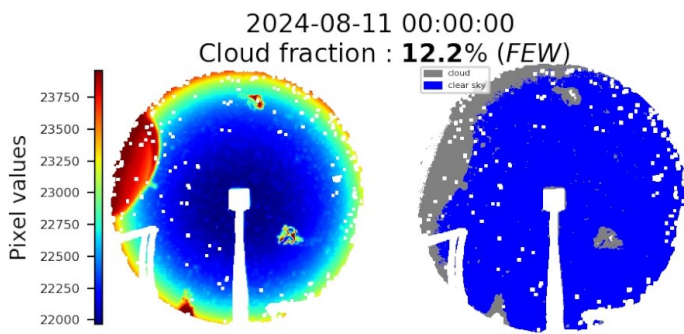
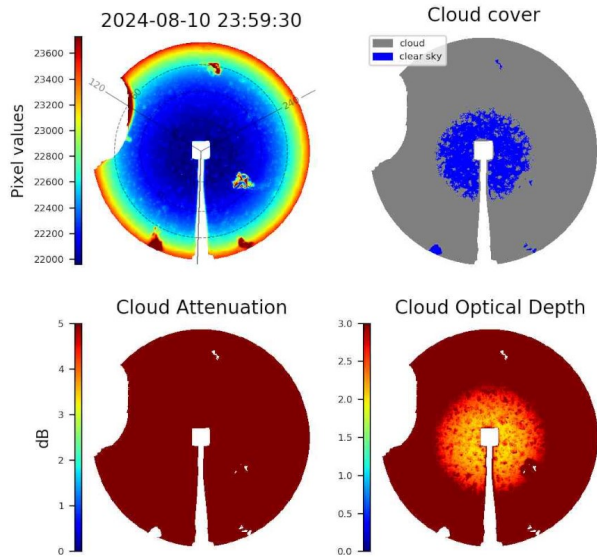
I did download all the data until the 24th of October.

However, I quickly downloaded a COD image from the online directory as an example for the email, and that one is indeed from the 25th of October.

So, the dates on the images are correct.

As you stated in your email, for some reason the mask also changed.

It appears that this happened exactly on midnight from the 8th of August to the 9th of August. This change is also accompanied by a change in the format of the data, which can be seen in the following two images.



As for the reason why the format or mask changed, I have no idea.

I think it is a good idea to discuss this further on Thursday.

Best regards,
Kevin Nobel

From: Robert Voors <robert.voors@airbus.com>
Sent: Monday, 4 November 2024 12:02
To: Kevin Nobel <kevincnobel@outlook.com>
Cc: Thomas Dreischer <thomas.dreischer@airbus.com>
Subject: Re: Issue with COD data

Hi Kevin

First of all: good that you managed to download all the data.

Too bad the data format has been changed by Reuniwatt - without informing us...

I agree we should contact them. Is it OK to discuss it on Thursday? Then we can get a better understanding of what has changed and what kind of questions we should start asking Reuniwatt.

From the examples you provided, I noticed an interesting thing: the last image is dated October 25th. 2024, whereas you only downloaded the data until October 24th. Even more strange is that the funny Wubbo Ockels structure that has been removed in the meantime is still visible. What's going on?

Cheers

Robert

On Fri, Oct 25, 2024 at 2:49 PM Kevin Nobel <kevincnobel@outlook.com> wrote:

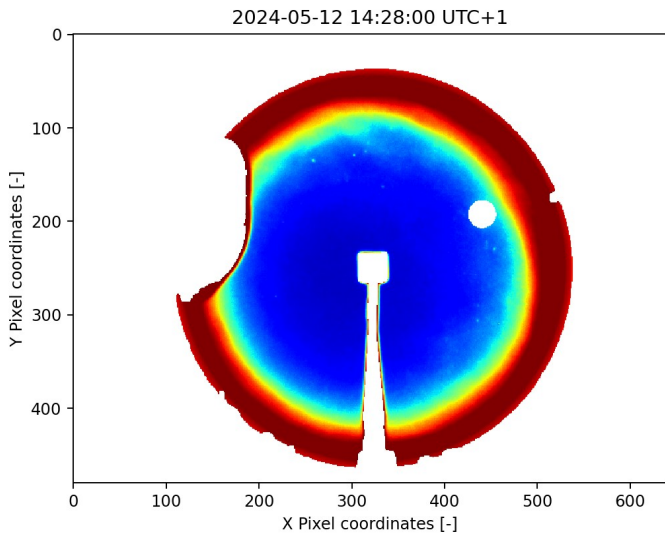
Hello Robert and Thomas,

I was able to download all the Cloud Optical Depth data from 09-11-2023 until 24-10-2024. This dataset contains more than 800.000 images and is 94.4 Gigabytes.

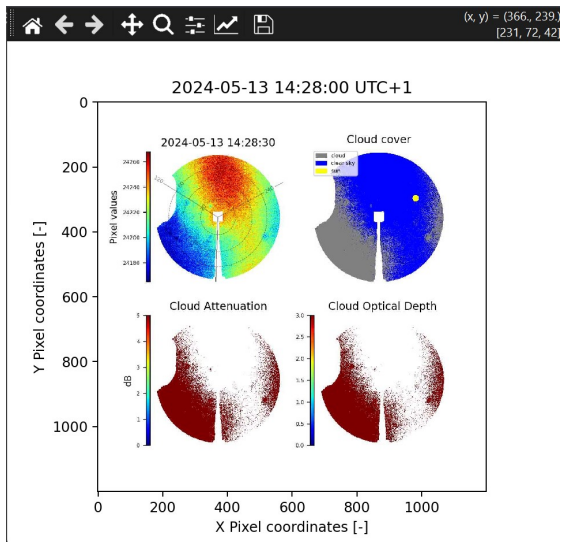
The data from 9-11-2023 until 14-05-2024 seems to be in the correct format.

For some reason, the format of the COD images changes on 13-05-2024 around 14:28.

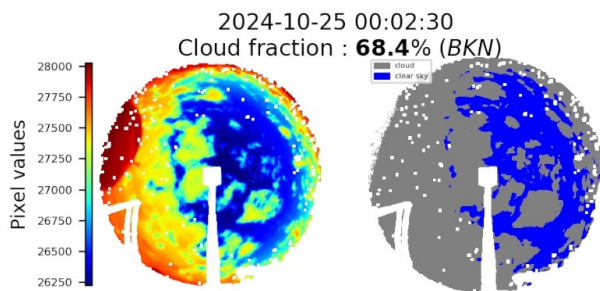
The COD images in the correct format look like the following image:



The COD images with the new format look like this:



And some look like this:



Unfortunately, the new format can not be used due to the following issues:

- Different resolutions as geometric calibration data

- Original cod images have a single color channel ranging from 0-65535, the new cod images have three color channels from 0-256 (RGB)

In short, the COD data from 13-05-2024 until today is in a different and constantly changing format which can not be used.

Personally, I think we should ask Reuniwatt to regenerate the COD images from 13-05-2024 until today in the correct format.

What are your thoughts on this matter?

Best regards,
Kevin Nobel

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