**RGB Colour Tool version 2.5 Readme**

**Installation:**

Extract the RGBTool.exe and RGB\_definitions.json\* anywhere on your computer.

\*IMPORTANT: the .exe file and the .json file have to be in the same folder for the program to work correctly.

A list of the recipes of the some RGBs which are included in the RGB\_definition.json file are available also at …

[**https://eumetrain.org/sites/default/files/2020-05/RGB\_recipes.pdf**](https://eumetrain.org/sites/default/files/2020-05/RGB_recipes.pdf)

**About:**

This is the version **2.5** of the RGB Colour Tool. It is used for qualitative analysis of colours of RGBs from different meteorological satellites.

Based on the recipe of the given RGB type the tool retrieves the original **reflectance or brightness temperature** values of the used channels (or channel differences).

**Updates since 1.0:**

**Version 2.5:**

Updated RGB\_definitions.json including the RGB recipes for FCI.

Note: The tool cannot analyse True Color RGB.

**Version 2.4:**

Fixed a bug that prevented calculating the VIIRS True Colour RGB.

Note:

* Rayleigh corrected reflectances are retrieved in case of True Colour RGB.
* The tool inverts the piecewise linear function which is used at creating the VIIRS True Colour RGB instead of a gamma correction, see the RGB recipe list document. The parameters of this piecewise linear function are included in the parameter file.

**Version 2.3:**

Updated RGB\_definitions.json. Old definitions stored in /old\_definitions folder.

**Version 2:**

The RGB Colour Tool is now editable and customizable, using the RGB\_definition.json.

To edit the colour ranges of RGBs, open the RGB\_definitions.json, using Notepad or other software, and change them to your wishes.

To add new RGB recipes, simply copy/paste an existing recipe and change the satellite, RGB name, colour beam channels and ranges.

The tool provides good result only in case the analysed RGB was created with the recipe found in the “settings”. (In case the analysed RGB was created by a different recipe you can add this other recipe to your json file.)

Version 1 worked only for SEVIRI RGB images.