**UpdateSynthesis Algorithm Questions/Problems**

1. if pixel not cloud/shadow, snow, water (nominal case)

if band is available in the case of LANDSAT 8, some bands are not available\

….

else :

**if band is red** (???)

**…**

We are on the “band not available” but we check if band is red?

1. if flagN􀀀1 is cloud or shadow \*replace value only if new reflectance in the blue is smaller

**o if $ ρ(blue)< ρ{N}(blue)$**

ρ{N} is not computed yet at this step. Is it ρ{N-1} (weighted reflectance of stepN-1) or the current L2A total weight? Nevertheless, this condition should be in the following “for each S2 band with res resolution” loop in order to make sense.

1. compute weights for L2A product of date N => wN per band and pixel

The weight is computed taking into account AOT, Cloud mask, sensor type and date and it contains only one band. So, the correct statement should be “compute weights for L2A product of date N => **wN per pixel”**

1. ~~Should we save the reflectances as the physical value or as digital value? – As digital values (as short int) – Already done~~
2. The Filters in Weight Calculation should be transformed in real OTB filters.