# 【JASMES SGLI Standard Monitor：Statistical products for Ocean(Japan)】

- ✓ The statistical products for the ocean are only Global (0.05deg.) in the GCOM-C standard products.
- ✓ The JASMES SGLI standard monitor has added the statistics products for Ocean around Japan (0.0025deg.).
- ✓ The target products are as follows.
  - ① Photosynthetically available radiation (PAR)
  - ② Sea Surface Temperature (SST)
  - ③ Chlorophyll-a concentration (CHLA)
  - ④ Total suspended matter (TSM)
  - ⑤ Colored dissolved organic matter at 412nm (CDOM)

- ✓ The quality control of statistical processing is shown below. The input data is the JASMES standard monitor Daily product.
  - A) The statistical processing for SST/PAR product
    - Mask with mask_for_statistics
    - If more than 6 invalid values are included in the 3x3 filter excluding the target pixel, it is masked.
    - Temporal statistical processing for each pixel.

  - B) The statistical processing for CHLA/TSM/CDOM product
    - Mask with mask_for_statistics
    - Convert physical quantities (CHLA, TSM, CDOM) to common logarithms for each product
      1. If more than 15 invalid values are included in the 5x5 filter excluding the target pixel, it is masked.
      2. Using ave. and $\sigma$ of the 5x5 filter, if the target pixel is outside the range of ave.$\pm1.86\sigma$, it is masked. If $\sigma$ is less than the threshold, the fixed threshold is used.
      3. Repeat step 1. and 2.
    - Temporal statistical processing for each pixel.