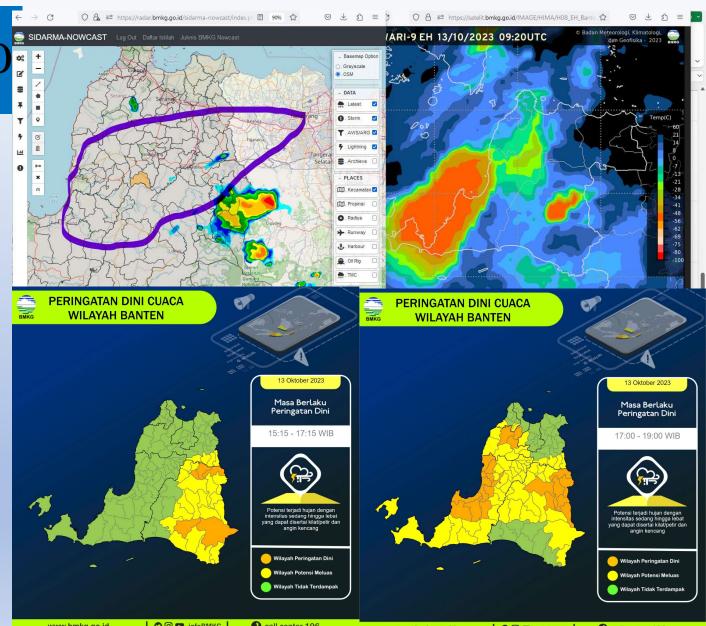




#### BACKGROUND

- Mandate responsibility to publish weather early warning for Banten province area.
- Blank Spot Area from Radar Coverage.
- Difficulty in manually correcting cloud positions to reduce parallax effects.



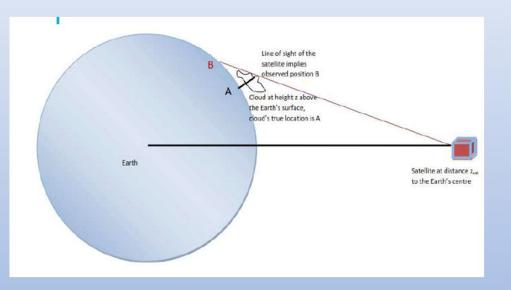


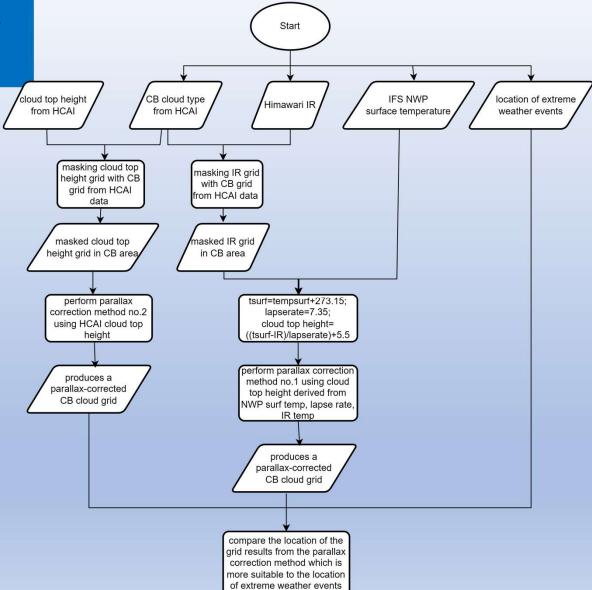
#### DATA

- Extreme Weather Event during Jan August 2023
- Himawari High Resolution Cloud Analysis Information (HCAI)
  - Height of the Cloud Top
  - Cloud type (CB)
- Himawari Enhance Infrared
- ECMWF Integrated Forecasting System (IFS) NWP Forecast
  - Surface temperature



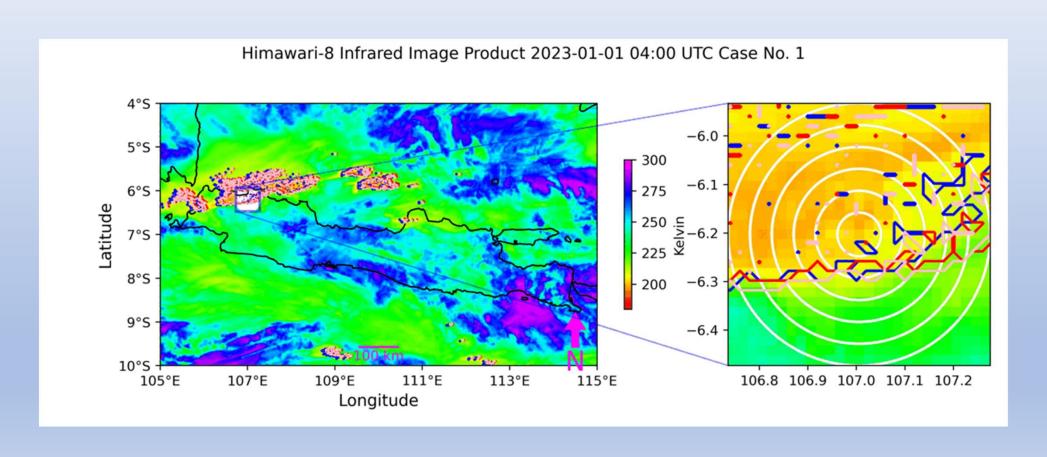
# Calculation Parallax Correction





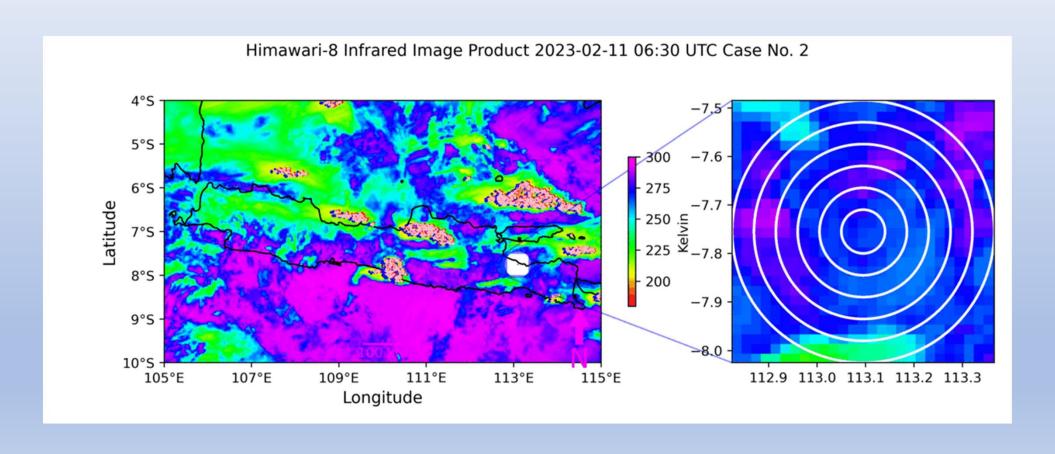


## Case No.1: Heavy Rainfall Event at West Java



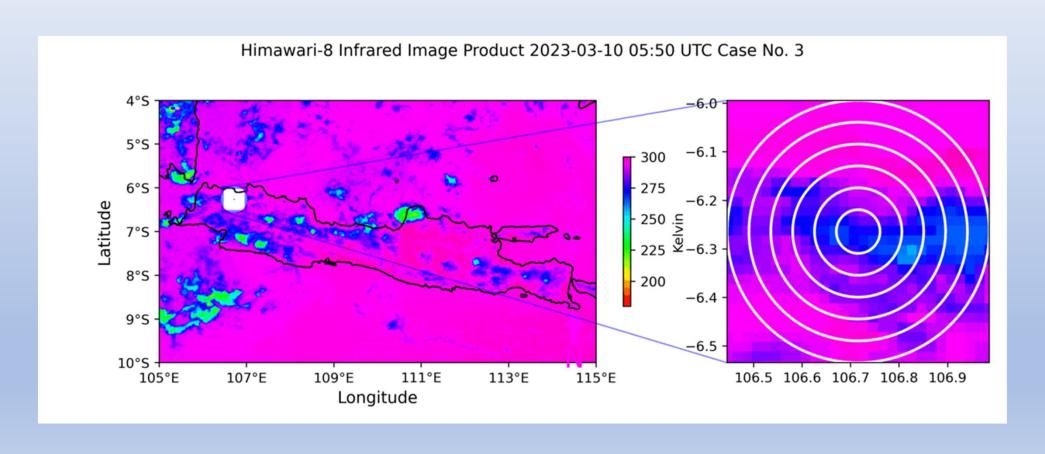


## Case No.2: Heavy Rainfall Event at East Java



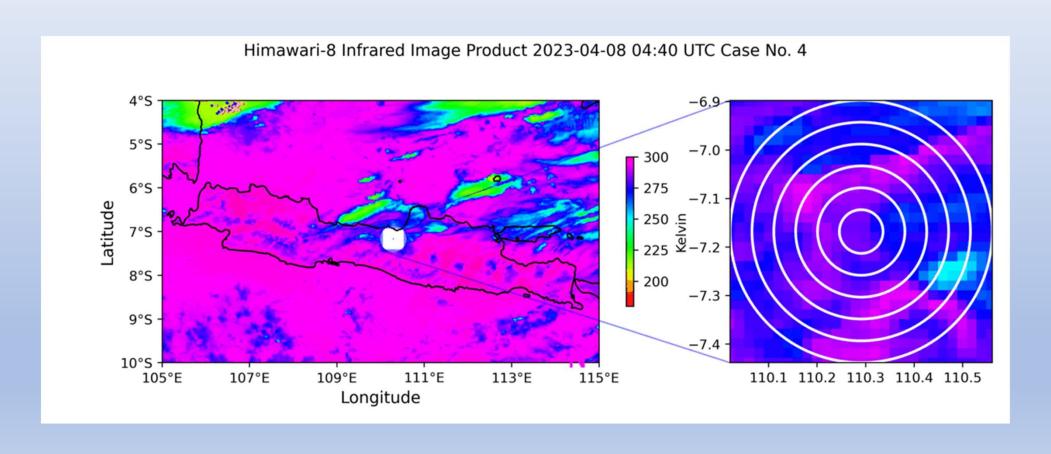


## Case No.3: Heavy Rainfall Event at Banten





#### Case No.4: Heavy Rainfall Event at Central Java





#### CONCLUSION

- Calculations using these two methods basically is not much different, with advantages in the correction method using the surface temperature IFS model.
- Correction of CB location about 6-10 km to the east - northeast of CB position before parallax correction.



### STEP FORWARDS

- Refinement of parallax correction algorithms for other types of convective clouds.
- Adjustment of the result of satellite parallax correction algorithm based on the cloud position in the radar imagery.
- Switching the procedure from research to operational status.

## Thank you