Scaling workflows for operations

HYDRAFloods Training
15 October 2021

- Review of workflow
- Using piped functions
- Preventing edge cases
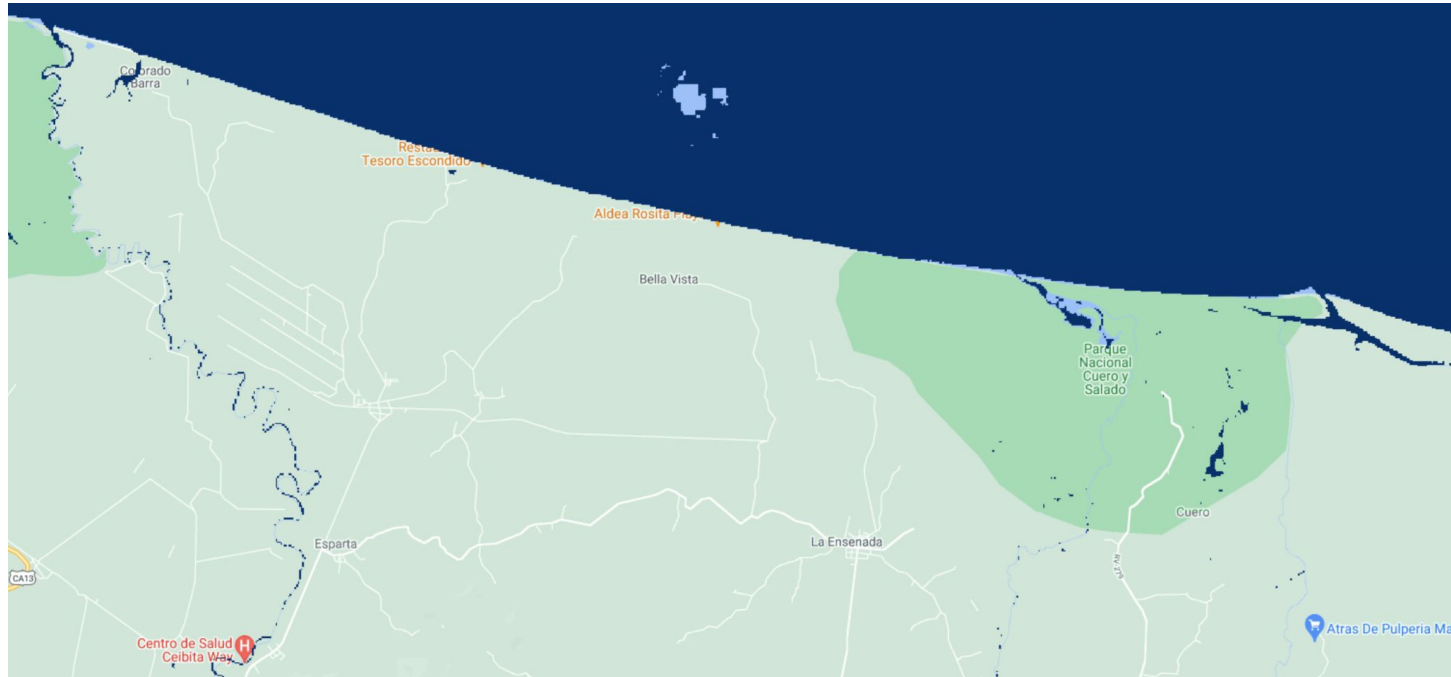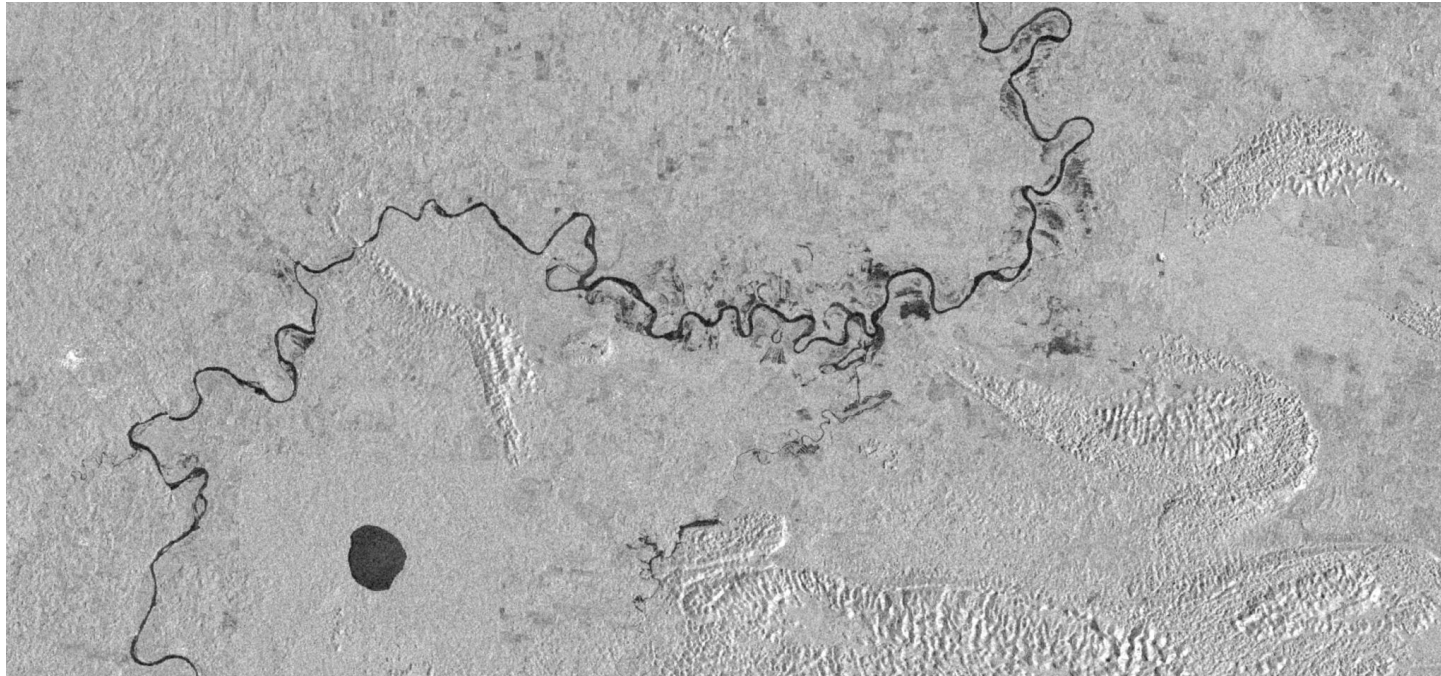- Export considerations
- Exercise

Optical workflow

Optical workflow

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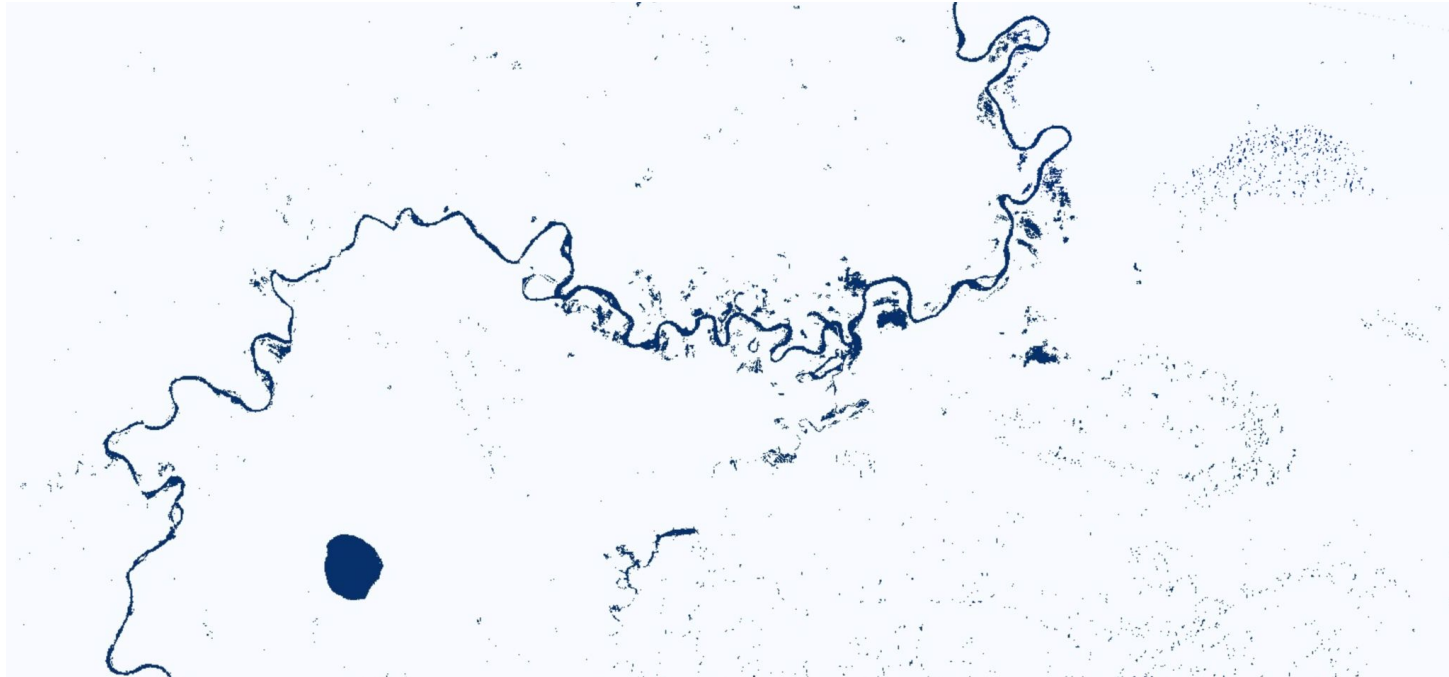
Optical workflow

SAR workflow

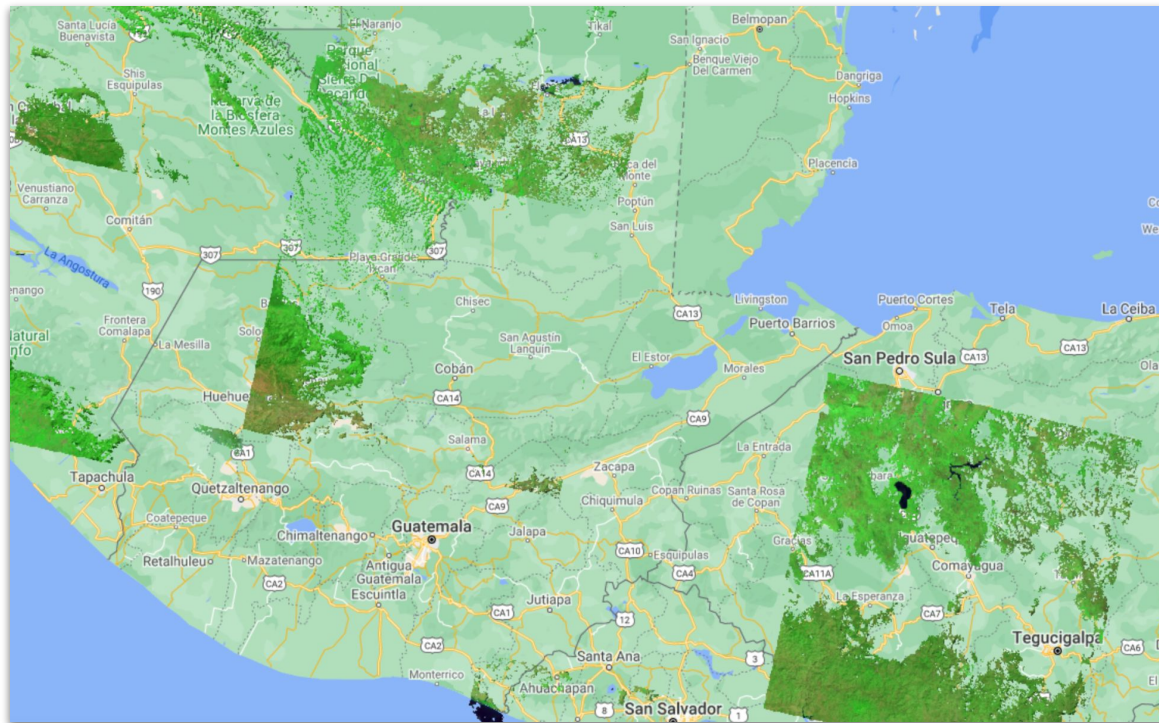## SAR workflow
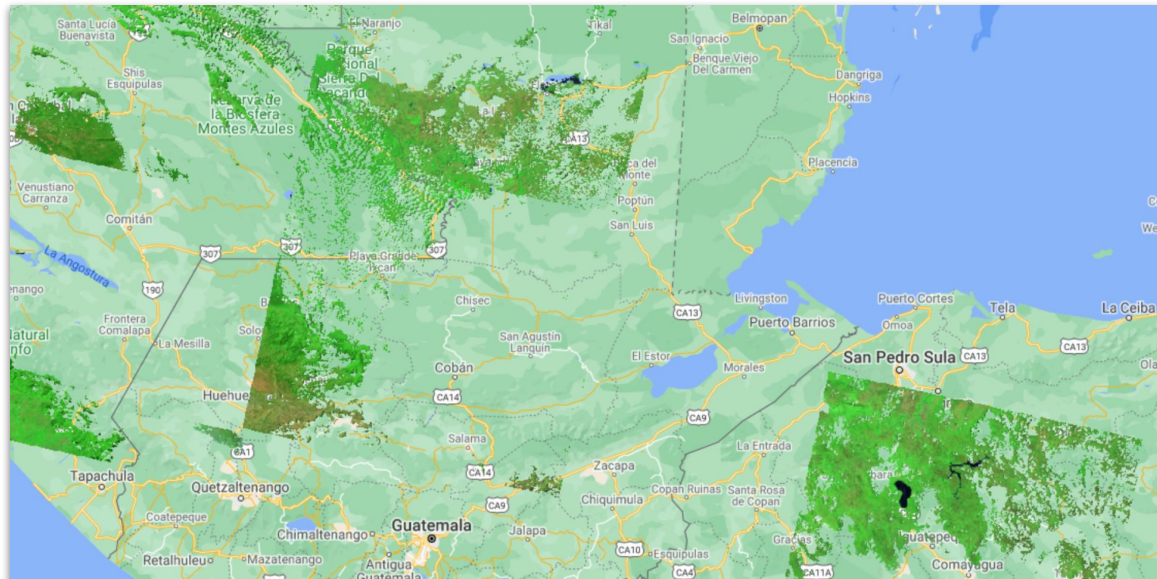
SAR workflow

SAR workflow

Edge Case - a problem or situation that occurs only at an extreme (maximum or minimum) operating parameter

- Handling missing data is a challenge

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```
EEException: reduce.mode: Error in map(ID=LC08_010055_20190419):
Dictionary.get: Dictionary does not contain key: bucketMeans.
```

- Making sure your process has all
  required data

Typically there are four ways to ensure the processing you are trying to run is successful:

1. Use `.pipe()`
2. If possible, run for smaller time or geographic region
3. If possible, export intermediate results
4. Run computations at lower scale (i.e. lower resolution)

Scaling exercise:

https://colab.research.google.com/drive/1j1tfzqz6nMakKHXhcW1ChRqiCF-WsH-p?usp=sharing

Thank you for your attention!

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