Organizing **lagrangian datasets** into **ragged arrays** eases data engineering and analysis!

Accelerating the use of Lagrangian data with Clouddrift

Shane Elipot, Philippe Miron, Milan Curcic, Kevin Santana

1 Introduction

- Lagrangian data sometimes refers to oceanic and atmosphere information acquired by observing platforms drifting within the flow they are embedded in.

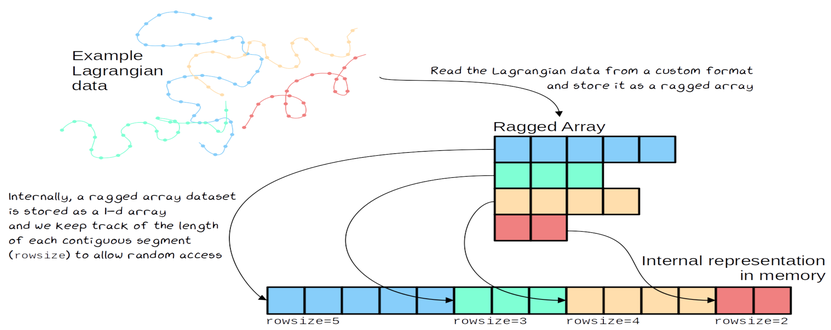
2 Datasets

- MoSAiC, sea ice trajectories
- GDP, ocean drifter trajectories
- HURDAT2, cyclone trajectories
- Many more...

3 Scope / Features

- Working with trajectories of varying length
- Provide functions and methods for scientific analysis of Lagrangian data
- Process publicly available Lagrangian datasets into ragged array zarr archives
- Making cloud-optimized ragged array datasets easily accessible

4 Data Structure



Scan me

← Download the paper

MIAMI