Condition 2, metric calculation and flag assignment

Checkpoint E

Compartment E
- Tendency calculation
- State update

Condition 1, masking QoIs from all active checkpoints

Checkpoint D

Compartment D
- Tendency calculation
- State update

Compartment A
- Tendency calculation
- State update

Checkpoint A

Condition 2, masking QoIs from all active checkpoints

Compartment B

Compartment B1
- Tendency calculation
- State update

Checkpoint B1

Compartment B2
- Tendency calculation
- State update

Checkpoint B2

Condition 1, metric calculation and flag assignment

Checkpoint B

Compartment C
- Tendency calculation
- State update

Checkpoint C