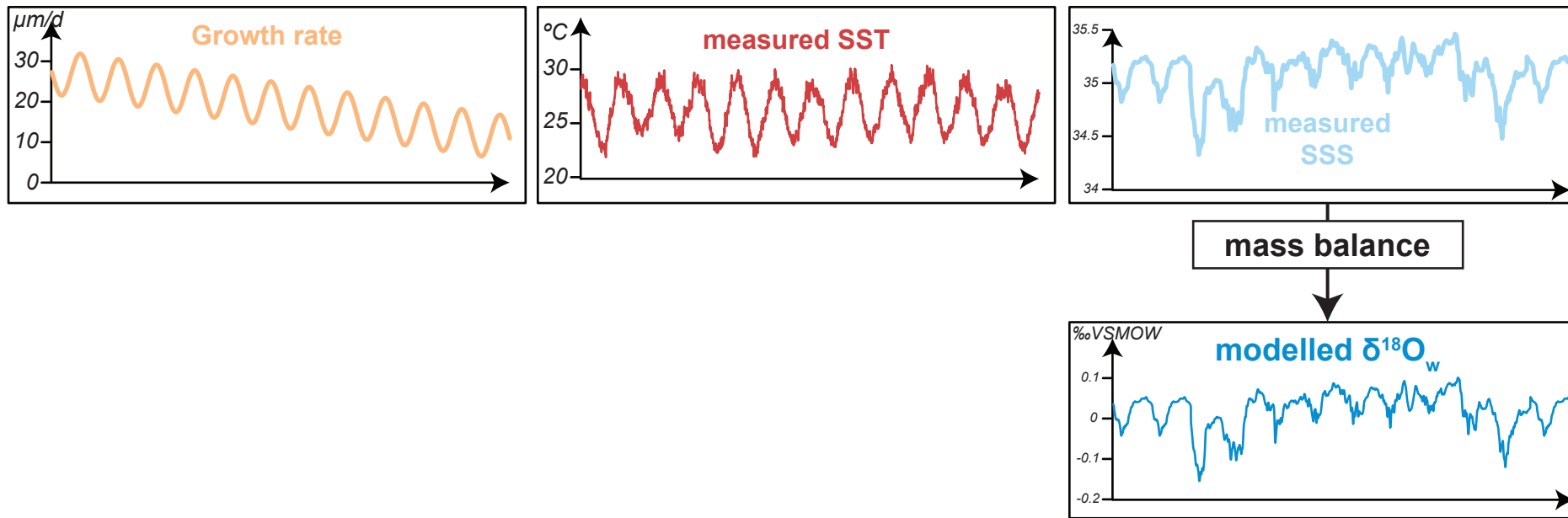
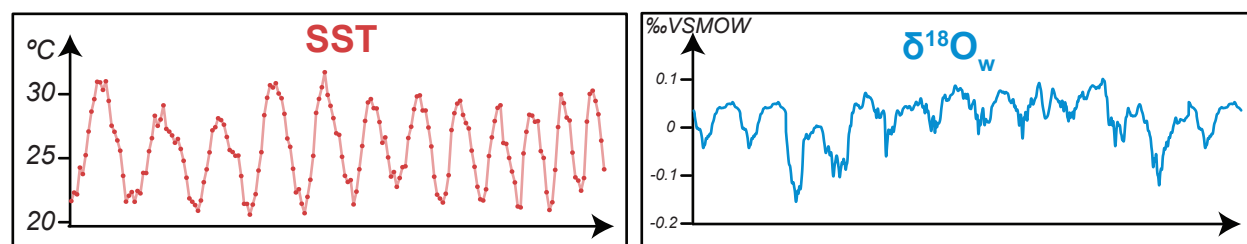


Workflow for creating virtual datasets and testing reconstruction approaches: Example for case 31 (Great Barrier Reef satellite data)

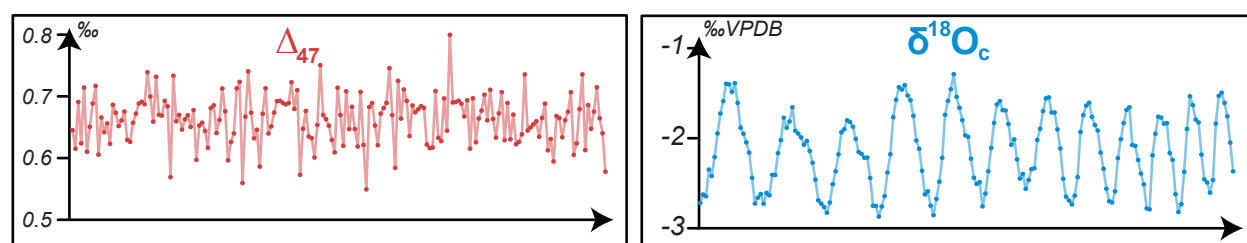
1. Input ("True" SST and $\delta^{18}\text{O}_w$ values in time domain)



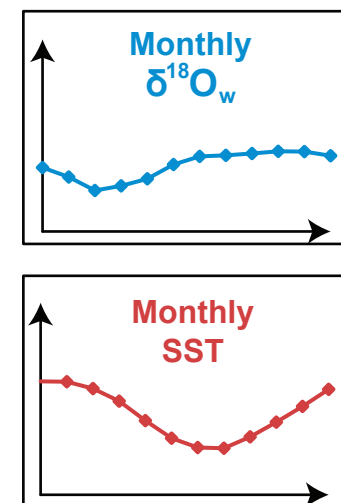
2. "True" SST and $\delta^{18}\text{O}_w$ values in sampling domain



3. Artificial $\delta^{18}\text{O}_c$ and Δ_{47} records in sampling domain



4. Reconstructed SST and $\delta^{18}\text{O}_w$ values in time domain



5. Comparison with "true" SST and $\delta^{18}\text{O}_w$ values yields accuracy and precision of reconstructions of:

- MAT
- SST seasonality
- mean annual $\delta^{18}\text{O}_w$
- $\delta^{18}\text{O}_w$ seasonality