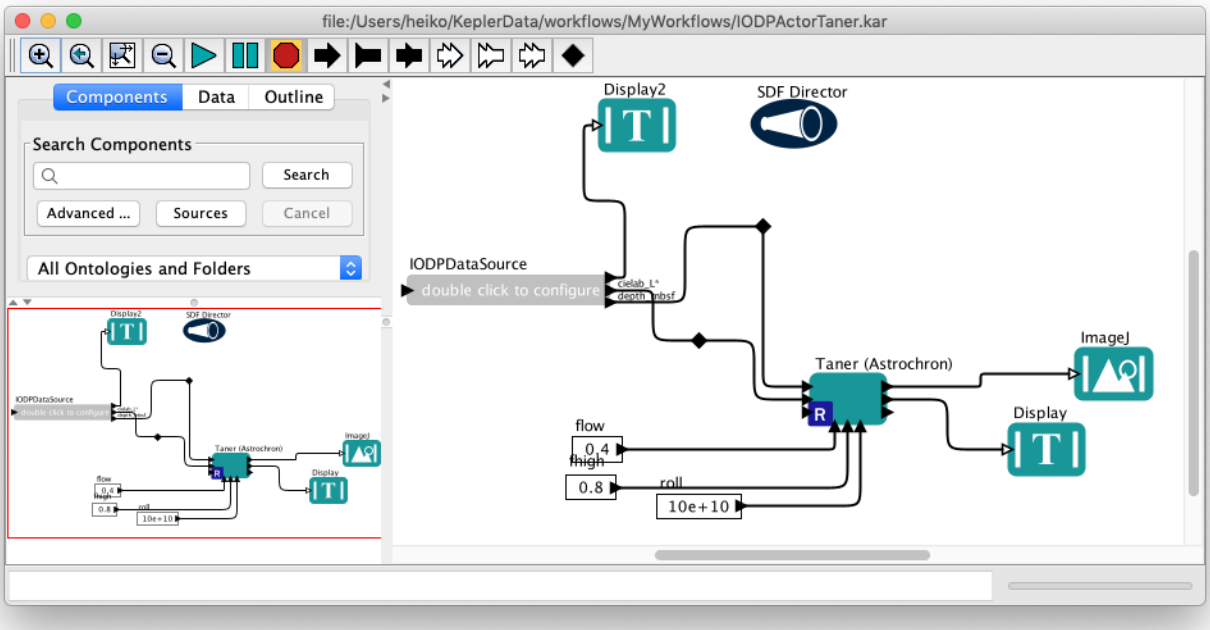
Kepler (EARTHSEQUENCING Edition)

We have adapted and extended the Kepler Scientific Workflow system, which is itself based on Ptolemy II, by specific actors that interact with Earthsequencing workflows and data.



Individual Actors are still under ongoing development, however the ability to directly import IODP data from our database is already useful, particularly in interaction with externally provided libraries (for example Astrochron).

While Kepler is Java based, and inherently cross-platform, our EARTHSEQUENCING actors for now are still macOS only (other versions will follow).

Source code for the keplerSwift component is available upon request.

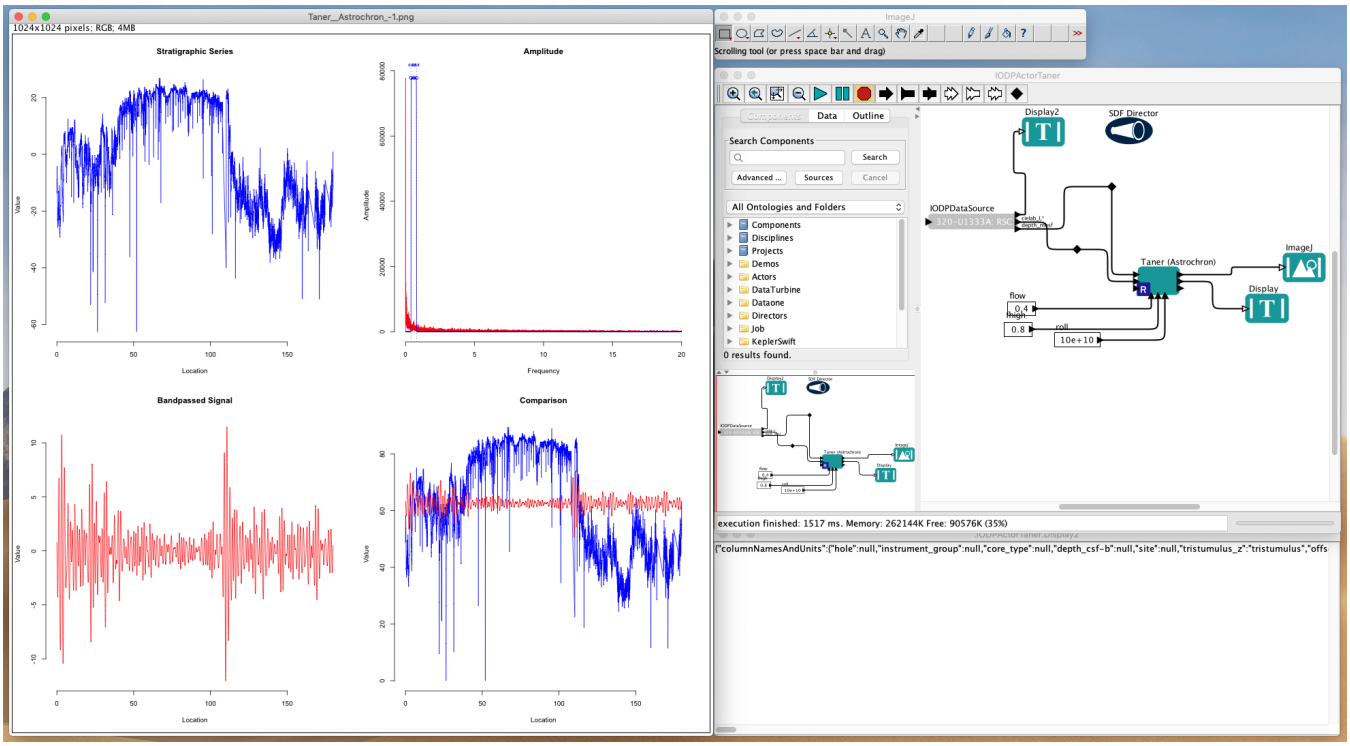
Download Link to macOS10.14 Disk Image (.dmg)

To run above example, install Kepler-Earthsequencing from below disk image.

Pre-requisites:

- macOS 10.14
- R computing library
- Astrochron library within R
- ImageJ (for graphical output)

Example output:


Taner__Astrochron_-1.png
1024x1024 pixels; RGB; 4MB
Stratigraphic Series
Amplitude
Bandpassed Signal
Comparison
Location
Frequency
Value
Amplitude
ImageJ
Scrolling tool (or press space bar and drag)
IODPActorTaner
Components
Data
Outline
Search Components
Search
Advanced ...
Sources
Cancel
All Ontologies and Folders
Components
Disciplines
Projects
Demos
Actors
DataTurbine
Dataone
Directors
Job
KeplerSwift
0 results found.
Display2
SDF Director
IODPDataSource
Taner (Astrochron)
ImageJ
Display
flow
0.4
height
0.8
roll
10e+10
execution finished: 1517 ms. Memory: 262144K Free: 90576K (35%)
{"columnNamesAndUnits":{"hole":null,"instrument_group":null,"core_type":null,"depth_csf-b":null,"site":null,"tristumulus_z":"tristumulus","offs