Sharing Synoptic Ocean Data Analysis Tools Rob Fatland (rob5@uw.edu) University of Washington eScience Institute

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Sandbox executable via binder Data narrative: RCA shallow profiler Integrated: ARGO, MODIS, GLODAP, MSLA, Repro by example: Bootstrap documentation Python, markdown, LaTeX

TLDR Narrative: Project plan here is (1) build a collection of Jupyter notebooks that include **bootstrap-documentation** (2) Place these notebooks together with necessary source data into a GitHub repository with (3) a working link to binder (see QR code at upper right of this poster). The binder link opens the ensemble in a working Python environment as a kind of "Exploratorium-style" sandbox. The repository can also be cloned into a local environment for deeper, extended engagement. Consequently: An enthusiastic student/scientist has access to a freely available, thorough, self-documenting toolbox for exploring OOI Cabled Array shallow profiler data. The methods extend to other OOI data types. It includes notebooks on using ARGO data, MODIS, etcetera; as well as examples of creating exploratory slider controls, making time-series animations, and more.

