Citation and credit: The role of researchers, journals, and repositories to ensure data, software and samples are linked to publications with proper attribution.

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The Earth, space, and environmental sciences have made significant progress in awareness and implementation of policy and practice around the sharing of data, software, and samples. In specific, the Coalition for Publishing Data in the Earth and Space Sciences (https://copdess.org/) brings together data repositories and journals to discuss and address common challenges in support of more transparent and discoverable research and the supporting data. Since the inception of COPDESS in 2014 and the completion of the Enabling FAIR Data Project in 2019, work has continued on the improvement of availability statements for data and software as well as corresponding citations.

As the broad research community continues to make progress around data and software management and sharing, COPDESS is focused on several key efforts. These include 1) supporting authors in identifying the most appropriate data repository for preservation, 2) validating that all manuscripts have data and software availability statements, 3) ensuring data and software citations are properly included and linked to the publication to support credit, 4) encouraging adoption of best practices.

We will review the status of these current efforts around data and software sharing, the important role that repositories and researchers have to ensure that automated credit and attribution elements are in place, and the recent publications on software citation guidance from the FORCE11 Software Implementation Working Group.