An OAI-ORE Aggregation for the National Virtual Observatory

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Presentation Outline

• Some Background
• Motivation for the work described here
• Illustrate simplified current workflow
• OAI-ORE background
• Describe a possible ORE-enabled solution
• Present rough model of a real article
• Future directions
Project Background

• JHU Sheridan Libraries teaming with the NVO and the AAS to capture published data
• Support curation and entrée to preservation
• Stable location for data the journals are not prepared to store permanently
• Provide platform for data services
• Funding from IMLS and Microsoft

DLF Spring Forum, April 2008
Archiving Published Data

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Motivation

• Mandate to integrate data capture with extant workflow for multiple journals
• Need to capture relationships with resources which are not part of a particular article
• Desire to share risk
Sample Astronomical Data
OAI-ORE

• Public alpha release December 2007
• Utilizes Web architecture
• “Used to instantiate, describe and identify aggregations of web resources”
• Abstract Data Model, Vocabulary, Resource Map Profile of Atom
A More Desirable Workflow

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Model of Existing Article
Future Directions

- Library can provide a common infrastructure
- Investigate data curation in other scientific disciplines
- Gather input from scholarly societies
- Digital humanities