NExUS Reports and Tools (Data, Products and Services) Wed Nov 21 02:51:55 EST 2018

Name	ARtificial Intelligence for Ecosystem Services (ARIES)
Description	ARIES was designed to make land use policy and environmental decisions easier and more effective by helping users map and quantify environmental assets and the factors that influence their value. ARIES allows users to model and quantify the impacts of landscape feature changes on the provision of ecosystem services, thereby allowing the evaluation and comparison of alternative scenarios for climate change, land use, or land cover scenarios and policies for addressing them. Modeling the flow of ecosystem services from their source to use locations allows critical pathways (and their intersections) to be identified that are necessary for one or more services to travel across time and space. This information can be used to establish sensible and sustainable policies for governing land development, habitat protection, and ecosystem restoration efforts. ARIES can be used in any geographical area to explicitly map the linkages between ecosystems that provide services and particular groups of human beneficiaries. Additionally, the ARIES platform fills a void in current methodologies for quantifying ecosystem services through its use of semantic modeling and the inclusion of Bayesian and artificial intelligence techniques
Type	- PRODUCTS: Projections (intra-annual to multi-decadal, including SLR and model down-scaling) - PRODUCTS: Maps (Imagery, geo-referenced data) - PRODUCTS: Viewers and Web-based Tools
Sector	
Focus Area	
Region	- National - Regional Or State -- New England -- Mid-Atlantic -- Central -- Great Lakes -- South East
Lead Agencies	The ARIES Consortium
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