

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11786-11800

(Note: This form and process do not replace the procedures described in JPL Policy relating to review and approval of proposals and contractual documents. This process is intended to document the review and coordination of requests to ascertain the export control ramifications relating to specific documents. Export Administration signature does not convey authority to export or release the "Exporter of Record" from any export laws or regulations.)

Program: ISSM: Ice Sheet System Model

Person Requesting or Initiating Export: Dr. Eric Larour

Date Received: Apr-16-2012

Document Title/Description: ISSM changes from revision 11786 to revision 11800

Release to: <http://issm.ess.uci.edu/svn/issm/issm/trunk> on ISSM svn repository

JPL Intranet: murdo.jpl.nasa.gov/proj/ice/larour/issm-uci/trunk-jpl

Disposition: 6 Does not contain export-controlled information. May be released/disclosed as requested subject to Company guidelines on protection of proprietary information (if applicable).

Comments: see table of changes below.

Reviewed by ISSM Export Transfer Liaison: Dr. Eric Larour **Date:** Apr-16-2012



JPL Export Administration Form TBS June 29, 2011

Disposition:

- 1: Public Domain Information (Ref ITAR Section 120.11)
- 2: Qualifies for ITAR Exemption
- 3: Covered by Department of State License/Agreement Number
- 4: Covered by Department of Commerce validated license or exception
- 5: New License Required
- 6: Does not contain export-controlled information. May be released/disclosed as requested subject to Company guidelines on protection of proprietary information (if applicable).
- 7: Other (specify)

Change #1 with diff file ISSM-11786-11787.diff:

Function name:

A /issm/trunk-jpl/scripts/issmconfiguration.sh

Export determination: 6.

Rationale: Pick up configs files and give the choice to reconfigure ISSM M

/issm/trunk-jpl/src/py/README A /issm/trunk-jpl/src/py/classes/basalforcings.py
A /issm/trunk-jpl/src/py/classes/constants.py A /issm/trunk-jpl/src/py/classes/debug.py
A /issm/trunk-jpl/src/py/classes/flowequation.py A /issm/trunk-jpl/src/py/classes/friction.py
A /issm/trunk-jpl/src/py/classes/geometry.py A /issm/trunk-jpl/src/py/classes/initialization.py
A /issm/trunk-jpl/src/py/classes/mask.py A /issm/trunk-jpl/src/py/classes/materials.py
M /issm/trunk-jpl/src/py/classes/mesh.py M /issm/trunk-jpl/src/py/classes/model.py
A /issm/trunk-jpl/src/py/classes/rifts.py A /issm/trunk-jpl/src/py/classes/settings.py
A /issm/trunk-jpl/src/py/classes/solver.py A /issm/trunk-jpl/src/py/classes/surfaceforcings.py
A /issm/trunk-jpl/src/py/classes/timestepping.py A /issm/trunk-jpl/src/py/classes/verbose.py
A /issm/trunk-jpl/src/py/model A /issm/trunk-jpl/src/py/model/display A /issm/trunk-jpl/src/py/model/display/fielddisplay.py A /issm/trunk-jpl/src/py/model/display/fielddisplay.rest
M /issm/trunk-jpl/src/py/modules/TriMesh/Makefile M /issm/trunk-jpl/src/py/modules/hello/Makefile
M /issm/trunk-jpl/startup.py Create python model and subclasses

Change #2 with diff file ISSM-11787-11788.diff:

Function name:

M /issm/trunk-jpl/src/py/README A /issm/trunk-jpl/src/py/classes/basalforcings.py
A /issm/trunk-jpl/src/py/classes/constants.py A /issm/trunk-jpl/src/py/classes/debug.py
A /issm/trunk-jpl/src/py/classes/flowequation.py A /issm/trunk-jpl/src/py/classes/friction.py
A /issm/trunk-jpl/src/py/classes/geometry.py A /issm/trunk-jpl/src/py/classes/initialization.py
A /issm/trunk-jpl/src/py/classes/mask.py A /issm/trunk-jpl/src/py/classes/materials.py
M /issm/trunk-jpl/src/py/classes/mesh.py M /issm/trunk-jpl/src/py/classes/model.py
A /issm/trunk-jpl/src/py/classes/rifts.py A /issm/trunk-jpl/src/py/classes/settings.py
A /issm/trunk-jpl/src/py/classes/solver.py A /issm/trunk-jpl/src/py/classes/surfaceforcings.py
A /issm/trunk-jpl/src/py/classes/timestepping.py A /issm/trunk-jpl/src/py/classes/verbose.py
A /issm/trunk-jpl/src/py/model A /issm/trunk-jpl/src/py/model/display A /issm/trunk-jpl/src/py/model/display/fielddisplay.py A /issm/trunk-jpl/src/py/model/display/fielddisplay.rest
M /issm/trunk-jpl/src/py/modules/TriMesh/Makefile M /issm/trunk-jpl/src/py/modules/hello/Makefile
M /issm/trunk-jpl/startup.py

Export determination: 6.

Rationale: Create python model and subclasses M /issm/trunk-jpl/src/py/classes

A /issm/trunk-jpl/src/py/classes/pairoptions.py M /issm/trunk-jpl/src/py/classes/solver.py

New pairoptions python class + solver class

Change #3 with diff file ISSM-11788-11789.diff:

Function name:

M /issm/trunk-jpl/src/py/classes A /issm/trunk-jpl/src/py/classes/pairoptions.py

M /issm/trunk-jpl/src/py/classes/solver.py

Export determination: 6.

Rationale: New pairoptions python class + solver class M /issm/trunk-jpl/src/py/model/display/fielddisplay.py

A /issm/trunk-jpl/src/py/model/solvers A /issm/trunk-jpl/src/py/model/solvers/iluasmoptions.py

A /issm/trunk-jpl/src/py/model/solvers/mumpsoptions.py A /issm/trunk-jpl/src/py/Utils

A /issm/trunk-jpl/src/py/Utils/OS A /issm/trunk-jpl/src/py/Utils/OS/ismumps.py

A /issm/trunk-jpl/src/py/Utils/Shell A /issm/trunk-jpl/src/py/Utils/Shell/issmtier.py

Improving solver class

Change #4 with diff file ISSM-11789-11790.diff:

Function name:

M /issm/trunk-jpl/src/py/model/display/fielddisplay.py A /issm/trunk-jpl/src/py/model/solvers

A /issm/trunk-jpl/src/py/model/solvers/iluasmoptions.py A /issm/trunk-jpl/src/py/model/solvers/mumpsop

A /issm/trunk-jpl/src/py/Utils A /issm/trunk-jpl/src/py/Utils/OS A /issm/trunk-

jpl/src/py/Utils/OS/ismumps.py A /issm/trunk-jpl/src/py/Utils/Shell A /issm/trunk-

jpl/src/py/Utils/Shell/issmtier.py

Export determination: 6.

Rationale: Improving solver class M /issm/trunk-jpl/src/py/classes/solver.py

M /issm/trunk-jpl/src/py/model A /issm/trunk-jpl/src/py/model/petscversion.py

M /issm/trunk-jpl/src/py/model/solvers M /issm/trunk-jpl/src/py/model/solvers/iluasmoptions.py

M /issm/trunk-jpl/src/py/model/solvers/mumpsoptions.py Finished python solver

class

Change #5 with diff file ISSM-11790-11791.diff:

Function name:

M /issm/trunk-jpl/src/py/classes/solver.py M /issm/trunk-jpl/src/py/model A

/issm/trunk-jpl/src/py/model/petscversion.py M /issm/trunk-jpl/src/py/model/solvers

M /issm/trunk-jpl/src/py/model/solvers/iluasmoptions.py M /issm/trunk-jpl/src/py/model/solvers/mumpsop

Export determination: 6.

Rationale: Finished python solver class M /issm/trunk-jpl/externalpackages/scipy/install-

macosx64.sh A /issm/trunk-jpl/src/py/model/solvers/asmoptions.py A /issm/trunk-

jpl/src/py/model/solvers/jacobiasmoptions.py A /issm/trunk-jpl/src/py/model/solvers/jacobicgoptions.py

A /issm/trunk-jpl/src/py/model/solvers/matlaboptions.py A /issm/trunk-jpl/src/py/model/solvers/sorption

A /issm/trunk-jpl/src/py/model/solvers/stokesoptions.py M /issm/trunk-jpl/startup.py

Added all solvers

Change #6 with diff file ISSM-11791-11792.diff:

Function name:

M /issm/trunk-jpl/externalpackages/scipy/install-macosx64.sh A /issm/trunk-jpl/src/py/model/solvers/asmoptions.py A /issm/trunk-jpl/src/py/model/solvers/jacobiasmoptions.py A /issm/trunk-jpl/src/py/model/solvers/jacobicoptions.py A /issm/trunk-jpl/src/py/model/solvers/matlaboptions.py A /issm/trunk-jpl/src/py/model/solvers/soroptions.py A /issm/trunk-jpl/src/py/model/solvers/stokesoptions.py M /issm/trunk-jpl/startup.py
 Export determination: 6.
 Rationale: Added all solvers A /issm/trunk-jpl/src/py/classes/balancethickness.py A /issm/trunk-jpl/src/py/classes/clusters A /issm/trunk-jpl/src/py/classes/clusters/_pycache_ A /issm/trunk-jpl/src/py/classes/clusters/generic.py A /issm/trunk-jpl/src/py/classes/clusters/none.py A /issm/trunk-jpl/src/py/classes/diagnostic.py M /issm/trunk-jpl/src/py/classes/model.py
 Added cluster and diagnostic class

Change #7 with diff file ISSM-11792-11793.diff:

Function name:
 A /issm/trunk-jpl/src/py/classes/balancethickness.py A /issm/trunk-jpl/src/py/classes/clusters A /issm/trunk-jpl/src/py/classes/clusters/_pycache_ A /issm/trunk-jpl/src/py/classes/clusters/generic.py A /issm/trunk-jpl/src/py/classes/clusters/none.py A /issm/trunk-jpl/src/py/classes/diagnostic.py M /issm/trunk-jpl/src/py/classes/model.py
 Export determination: 6.
 Rationale: Added cluster and diagnostic class D /issm/trunk-jpl/src/py/classes/clusters/_pycache_ Not needed

Change #8 with diff file ISSM-11793-11794.diff:

Function name:
 D /issm/trunk-jpl/src/py/classes/clusters/_pycache_
 Export determination: 6.
 Rationale: Not needed A /issm/trunk-jpl/src/py/classes/autodiff.py A /issm/trunk-jpl/src/py/classes/flaim.py A /issm/trunk-jpl/src/py/classes/groundingline.py A /issm/trunk-jpl/src/py/classes/hydrology.py A /issm/trunk-jpl/src/py/classes/inversion.py M /issm/trunk-jpl/src/py/classes/model.py A /issm/trunk-jpl/src/py/classes/prognostic.py A /issm/trunk-jpl/src/py/classes/steadystate.py A /issm/trunk-jpl/src/py/classes/thermal.py A /issm/trunk-jpl/src/py/classes/transient.py M /issm/trunk-jpl/src/py/model/display/fielddisplay.py
 New classes in python

Change #9 with diff file ISSM-11794-11795.diff:

Function name:
 A /issm/trunk-jpl/src/py/classes/autodiff.py A /issm/trunk-jpl/src/py/classes/flaim.py A /issm/trunk-jpl/src/py/classes/groundingline.py A /issm/trunk-jpl/src/py/classes/hydrology.py A /issm/trunk-jpl/src/py/classes/inversion.py M /issm/trunk-jpl/src/py/classes/model.py A /issm/trunk-jpl/src/py/classes/prognostic.py A /issm/trunk-jpl/src/py/classes/steadystate.py A /issm/trunk-jpl/src/py/classes/thermal.py A /issm/trunk-jpl/src/py/classes/transient.py M /issm/trunk-jpl/src/py/model/display/fielddisplay.py
 Export determination: 6.
 Rationale: New classes in python M /issm/trunk-jpl/src/py/model/display/fielddisplay.py
 Better display dictionaries

Change #10 with diff file ISSM-11795-11796.diff:

Function name:

M /issm/trunk-jpl/src/py/model/display/fielddisplay.py

Export determination: 6.

Rationale: Better display dictionaries M /issm/trunk-jpl/src/py/classes/flaim.py

A /issm/trunk-jpl/src/py/classes/miscellaneous.py M /issm/trunk-jpl/src/py/classes/model.py

A /issm/trunk-jpl/src/py/classes/private.py A /issm/trunk-jpl/src/py/classes/qmu.py

A /issm/trunk-jpl/src/py/classes/radaroverlay.py Finished first prototype of model in python, very preliminary

Change #11 with diff file ISSM-11796-11797.diff:

Function name:

M /issm/trunk-jpl/src/py/classes/flaim.py A /issm/trunk-jpl/src/py/classes/miscellaneous.py

M /issm/trunk-jpl/src/py/classes/model.py A /issm/trunk-jpl/src/py/classes/private.py

A /issm/trunk-jpl/src/py/classes/qmu.py A /issm/trunk-jpl/src/py/classes/radaroverlay.py

Export determination: 6.

Rationale: Finished first prototype of model in python, very preliminary M

/issm/trunk-jpl/src/py/modules/hello/Makefile A /issm/trunk-jpl/src/py/modules/hello/hello.cpp

D /issm/trunk-jpl/src/py/modules/hello/hellomodule.cpp macosx Makefile for python, hang tight with the flags

Change #12 with diff file ISSM-11797-11798.diff:

Function name:

M /issm/trunk-jpl/src/py/modules/hello/Makefile A /issm/trunk-jpl/src/py/modules/hello/hello.cpp

D /issm/trunk-jpl/src/py/modules/hello/hellomodule.cpp

Export determination: 6.

Rationale: macosx Makefile for python, hang tight with the flags M /issm/trunk-

jpl/src/py/modules/hello/Makefile A /issm/trunk-jpl/src/py/modules/hello/Makefile.orig
real max osx compile

Change #13 with diff file ISSM-11798-11799.diff:

Function name:

M /issm/trunk-jpl/src/py/modules/hello/Makefile A /issm/trunk-jpl/src/py/modules/hello/Makefile.orig

Export determination: 6.

Rationale: real max osx compile M /issm/trunk-jpl/src/m/Utils/Numerics/cfl_step.m
updated help

Change #14 with diff file ISSM-11799-11800.diff:

Function name:

M /issm/trunk-jpl/src/m/Utils/Numerics/cfl_step.m

Export determination: 6.

Rationale: updated help M /issm/trunk-jpl/src/m/model/collapse.m Added
collapse of lat/lon