

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11250-11268

(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: Feb-23-2012

Document Title/Description: ISSM changes from revision 11250 to revision 11268

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:** Feb-23-2012



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-11250-11251.diff:

Function name:

M /issm/trunk-jpl/src/ad/wrappers.txt

Export determination: 6.

Rationale: text: removed duplicate from list M /issm/trunk-jpl/src/ad/wrappers.txt added KSPSetUp (enables monitoring) to list of PETSC routines

Change #2 with diff file ISSM-11251-11252.diff:

Function name:

M /issm/trunk-jpl/src/ad/wrappers.txt

Export determination: 6.

Rationale: added KSPSetUp (enables monitoring) to list of PETSC routines M /issm/trunk-jpl/src/mex/Solver/Solver.cpp text: no-~~z~~not

Change #3 with diff file ISSM-11252-11253.diff:

Function name:

M /issm/trunk-jpl/src/mex/Solver/Solver.cpp

Export determination: 6.

Rationale: text: no-~~z~~not M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp added waterfraction in possible input of penta

Change #4 with diff file ISSM-11253-11254.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp

Export determination: 6.

Rationale: added waterfraction in possible input of penta M /issm/trunk-jpl/test/NightlyRun/runme.m M /issm/trunk-jpl/test/NightlyRun/test1502.m add more elements to prevent crash

Change #5 with diff file ISSM-11254-11255.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/runme.m M /issm/trunk-jpl/test/NightlyRun/test1502.m

Export determination: 6.

Rationale: add more elements to prevent crash M /issm/trunk-jpl/test/Archives/Archive1501.mat

M /issm/trunk-jpl/test/Archives/Archive1502.mat newest tranforcing runs

Change #6 with diff file ISSM-11255-11256.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive1501.mat M /issm/trunk-jpl/test/Archives/Archive1502.mat

Export determination: 6.

Rationale: newest tranforcing runs M /issm/trunk-jpl/test/NightlyRun/test266.m
minor tolerance

Change #7 with diff file ISSM-11256-11257.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test266.m

Export determination: 6.

Rationale: minor tolerance M /issm/trunk-jpl/test/NightlyRun/test218.m mi-
nor, tolerances

Change #8 with diff file ISSM-11257-11258.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test218.m

Export determination: 6.

Rationale: minor, tolerances A /issm/trunk-jpl/src/c/modules/SmearFunctionx
A /issm/trunk-jpl/src/c/modules/SmearFunctionx/SmearFunctionx.cpp A /issm/trunk-
jpl/src/c/modules/SmearFunctionx/SmearFunctionx.h Preliminary SmearFunc-
tion routine

Change #9 with diff file ISSM-11258-11259.diff:

Function name:

A /issm/trunk-jpl/src/c/modules/SmearFunctionx A /issm/trunk-jpl/src/c/modules/SmearFunctionx/SmearF

A /issm/trunk-jpl/src/c/modules/SmearFunctionx/SmearFunctionx.h

Export determination: 6.

Rationale: Preliminary SmearFunction routine M /issm/trunk-jpl/src/c/modules/SmearFunctionx/SmearFunc
Preliminary.

Change #10 with diff file ISSM-11259-11260.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/SmearFunctionx/SmearFunctionx.cpp

Export determination: 6.

Rationale: Preliminary. M /issm/trunk-jpl/src/c/objects/Elements/Element.h

M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp M /issm/trunk-jpl/src/c/objects/Elements/Penta.h

M /issm/trunk-jpl/src/c/objects/Elements/Tria.cpp M /issm/trunk-jpl/src/c/objects/Elements/Tria.h

Preliminary for smear functions.

Change #11 with diff file ISSM-11260-11261.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Elements/Element.h M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp

M /issm/trunk-jpl/src/c/objects/Elements/Penta.h M /issm/trunk-jpl/src/c/objects/Elements/Tria.cpp

M /issm/trunk-jpl/src/c/objects/Elements/Tria.h

Export determination: 6.

Rationale: Preliminary for smear functions. M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Enthalpy/UpdateElementsEnthalpy.cpp
some data needed to update penta for enthalpy model

Change #12 with diff file ISSM-11261-11262.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Enthalpy/UpdateElementsEnthalpy.cpp

Export determination: 6.

Rationale: some data needed to update penta for enthalpy model M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp started to work on enthalpy

Change #13 with diff file ISSM-11262-11263.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp

Export determination: 6.

Rationale: started to work on enthalpy M /issm/trunk-jpl/externalpackages/tao/install.sh

D /issm/trunk-jpl/externalpackages/tao/tao-1.10.1-p1.tar.gz A /issm/trunk-jpl/externalpackages/tao/tao-2.0.tar.gz Installed TAO 2.0

Change #14 with diff file ISSM-11263-11264.diff:

Function name:

M /issm/trunk-jpl/externalpackages/tao/install.sh D /issm/trunk-jpl/externalpackages/tao/tao-1.10.1-p1.tar.gz A /issm/trunk-jpl/externalpackages/tao/tao-2.0.tar.gz

Export determination: 6.

Rationale: Installed TAO 2.0 M /issm/trunk-jpl/src/m/utis/consistency/checkfield.m
check field: j for vectors also

Change #15 with diff file ISSM-11264-11265.diff:

Function name:

M /issm/trunk-jpl/src/m/utis/consistency/checkfield.m

Export determination: 6.

Rationale: check field: j for vectors also M /issm/trunk-jpl/src/m/classes/thermal.m
minor changes in thermal class for enthalpy

Change #16 with diff file ISSM-11265-11266.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/thermal.m

Export determination: 6.

Rationale: minor changes in thermal class for enthalpy M /issm/trunk-jpl/m4/issm_options.m4
new compilation flags for tao

Change #17 with diff file ISSM-11266-11267.diff:

Function name:

M /issm/trunk-jpl/m4/issm_options.m4

Export determination: 6.

Rationale: new compilation flags for tao M /issm/trunk-jpl/src/c/solutions/controltao_core.cpp
M /issm/trunk-jpl/src/c/solutions/issm.cpp new TAO interface

Change #18 with diff file ISSM-11267-11268.diff:

Function name:

M /issm/trunk-jpl/src/c/solutions/controltao_core.cpp M /issm/trunk-jpl/src/c/solutions/issm.cpp

Export determination: 6.

Rationale: new TAO interface M /issm/trunk-jpl/src/c/solutions/controltao_core.cpp
minor tao initialization