

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11341-11360

(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 11341 to revision 11360

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-11341-11342.diff:

Function name:

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

Export determination: 6.

Rationale: Almost done with Jacobian Stokes M /issm/trunk-jpl/cron/cronfiles/linux_cronfile
schlegel cronfile

Change #2 with diff file ISSM-11342-11343.diff:

Function name:

M /issm/trunk-jpl/cron/cronfiles/linux_cronfile

Export determination: 6.

Rationale: schlegel cronfile M /issm/trunk-jpl/src/c/objects/KML/KML_Object.cpp

M /issm/trunk-jpl/src/c/objects/KML/KML_Unknown.cpp KML: Aesthetic changes
to output.

Change #3 with diff file ISSM-11343-11344.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/KML/KML_Object.cpp M /issm/trunk-jpl/src/c/objects/KML/KML_Unknown.cpp

Export determination: 6.

Rationale: KML: Aesthetic changes to output.

Change #4 with diff file ISSM-11344-11345.diff:

Function name:

M /issm/trunk-jpl/INSTALL

Export determination: 6.

Rationale: test ignore

Change #5 with diff file ISSM-11345-11346.diff:

Function name:

M /issm/trunk-jpl/INSTALL

Export determination: 6.

Rationale: test ignore M /issm/trunk-jpl/src/c/objects/KML/KML_Object.cpp

KML: Allow recognized elements within unknown elements.

Change #6 with diff file ISSM-11346-11347.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/KML/KML_Object.cpp

Export determination: 6.

Rationale: KML: Allow recognized elements within unknown elements. M

/issm/trunk-jpl/src/c/EnumDefinitions/EnumDefinitions.h M /issm/trunk-jpl/src/c/modules/EnumToStringx

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

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

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

M /issm/trunk-jpl/src/c/objects/Materials/Matpar.cpp M /issm/trunk-jpl/src/c/solutions/AnalysisConfigura

M /issm/trunk-jpl/src/c/solutions/transient_core.cpp M /issm/trunk-jpl/src/c/solvers/solver_nonlinear.cpp

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

A /issm/trunk-jpl/src/m/enum/ThermalIsenthalpyEnum.m M /issm/trunk-jpl/src/m/solutions/AnalysisConf

M /issm/trunk-jpl/src/m/solutions/transient_core.m added possibility to used
enthalpy in transient solutions

Change #7 with diff file ISSM-11347-11348.diff:

Function name:

M /issm/trunk-jpl/src/c/EnumDefinitions/EnumDefinitions.h M /issm/trunk-

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

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

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

M /issm/trunk-jpl/src/c/objects/Materials/Matpar.cpp M /issm/trunk-jpl/src/c/solutions/AnalysisConfigura

M /issm/trunk-jpl/src/c/solutions/transient_core.cpp M /issm/trunk-jpl/src/c/solvers/solver_nonlinear.cpp

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

A /issm/trunk-jpl/src/m/enum/ThermalIsenthalpyEnum.m M /issm/trunk-jpl/src/m/solutions/AnalysisConf

M /issm/trunk-jpl/src/m/solutions/transient_core.m

Export determination: 6.

Rationale: added possibility to used enthalpy in transient solutions M /issm/trunk-

jpl/test/NightlyRun/IdToName.m A /issm/trunk-jpl/test/NightlyRun/test143.m

A /issm/trunk-jpl/test/NightlyRun/test144.m A /issm/trunk-jpl/test/NightlyRun/test353.bin

A /issm/trunk-jpl/test/NightlyRun/test354.m added transient NR with enthalpy

Change #8 with diff file ISSM-11348-11349.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/IdToName.m A /issm/trunk-jpl/test/NightlyRun/test143.m

A /issm/trunk-jpl/test/NightlyRun/test144.m A /issm/trunk-jpl/test/NightlyRun/test353.bin

A /issm/trunk-jpl/test/NightlyRun/test354.m

Export determination: 6.

Rationale: added transient NR with enthalpy D /issm/trunk-jpl/test/NightlyRun/test353.bin

A /issm/trunk-jpl/test/NightlyRun/test353.m minor wrong file

Change #9 with diff file ISSM-11349-11350.diff:

Function name:

D /issm/trunk-jpl/test/NightlyRun/test353.bin A /issm/trunk-jpl/test/NightlyRun/test353.m

Export determination: 6.

Rationale: minor wrong file A /issm/trunk-jpl/test/Archives/Archive143.mat A /issm/trunk-jpl/test/Archives/Archive144.mat A /issm/trunk-jpl/test/Archives/Archive353.mat A /issm/trunk-jpl/test/Archives/Archive354.mat archives for transient enthalpy

Change #10 with diff file ISSM-11350-11351.diff:

Function name:

A /issm/trunk-jpl/test/Archives/Archive143.mat A /issm/trunk-jpl/test/Archives/Archive144.mat
A /issm/trunk-jpl/test/Archives/Archive353.mat A /issm/trunk-jpl/test/Archives/Archive354.mat

Export determination: 6.

Rationale: archives for transient enthalpy M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp

M /issm/trunk-jpl/src/c/objects/Materials/Matpar.cpp minor

Change #11 with diff file ISSM-11351-11352.diff:

Function name:

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

Export determination: 6.

Rationale: minor A /issm/trunk-jpl/externalpackages/petsc/install-3.2-greenplanet.sh

Added installation script for Greenplanet

Change #12 with diff file ISSM-11352-11353.diff:

Function name:

A /issm/trunk-jpl/externalpackages/petsc/install-3.2-greenplanet.sh

Export determination: 6.

Rationale: Added installation script for Greenplanet M /issm/trunk-jpl/src/m/qmu/expandresponses.m

M /issm/trunk-jpl/src/m/solvers/solver_newton.m minor: testing for George

Change #13 with diff file ISSM-11353-11354.diff:

Function name:

M /issm/trunk-jpl/src/m/qmu/expandresponses.m M /issm/trunk-jpl/src/m/solvers/solver_newton.m

Export determination: 6.

Rationale: minor: testing for George M /issm/trunk-jpl/src/c/solutions/AnalysisConfiguration.cpp

M /issm/trunk-jpl/src/m/solutions/AnalysisConfiguration.m fixed nr temporarily but not very good way of handling things

Change #14 with diff file ISSM-11354-11355.diff:

Function name:

M /issm/trunk-jpl/src/c/solutions/AnalysisConfiguration.cpp M /issm/trunk-jpl/src/m/solutions/AnalysisConfiguration.m

Export determination: 6.

Rationale: fixed nr temporarily but not very good way of handling things M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp got confused between thermal and enthalpy model ...

Change #15 with diff file ISSM-11355-11356.diff:

Function name:

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

Export determination: 6.

Rationale: got confused between thermal and enthalpy model ... M /issm/trunk-jpl/src/m/classes/thermal.m minor last modification to fix NR

Change #16 with diff file ISSM-11356-11357.diff:

Function name:

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

Export determination: 6.

Rationale: minor last modification to fix NR M /issm/trunk-jpl/src/c/solutions/controltao_core.cpp
improved tao: added options from matlab model and returns all model output

Change #17 with diff file ISSM-11357-11358.diff:

Function name:

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

Export determination: 6.

Rationale: improved tao: added options from matlab model and returns all
model output M /issm/trunk-jpl/src/c/objects/Params/BoolParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatArrayParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleVecParam.h M /issm/trunk-jpl/src/c/objects/Params/FileParam.h M /issm/trunk-jpl/src/c/objects/Params/IntMatParam.h M /issm/trunk-jpl/src/c/objects/Params/IntParam.h M /issm/trunk-jpl/src/c/objects/Params/PetscMatParam.h M /issm/trunk-jpl/src/c/objects/Params/PetscVecParam.h M /issm/trunk-jpl/src/c/objects/Params/StringParam.h minor typos

Change #18 with diff file ISSM-11358-11359.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Params/BoolParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatArrayParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleVecParam.h M /issm/trunk-jpl/src/c/objects/Params/FileParam.h M /issm/trunk-jpl/src/c/objects/Params/IntMatParam.h M /issm/trunk-jpl/src/c/objects/Params/IntParam.h M /issm/trunk-jpl/src/c/objects/Params/PetscMatParam.h M /issm/trunk-jpl/src/c/objects/Params/PetscVecParam.h M /issm/trunk-jpl/src/c/objects/Params/StringParam.h

Export determination: 6.

Rationale: minor typos M /issm/trunk-jpl/src/c/solutions/controltao_core.cpp
minor

Change #19 with diff file ISSM-11359-11360.diff:

Function name:

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

Export determination: 6.

Rationale: minor M /issm/trunk-jpl/test/NightlyRun/test314.m minor