

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11381-11400

(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 11381 to revision 11400

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
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- 7: Other (specify)

Change #1 with diff file ISSM-11381-11382.diff:

Function name:

M /issm/trunk-jpl/configs/config-greenplanet.sh

Export determination: 6.

Rationale: Better MPI for greenplanet M /issm/trunk-jpl/externalpackages/petsc/install-3.2-greenplanet.sh Better MPI for greenplanet

Change #2 with diff file ISSM-11382-11383.diff:

Function name:

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

Export determination: 6.

Rationale: Better MPI for greenplanet M /issm/trunk-jpl/src/c/objects/KML/KML_File.cpp

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

M /issm/trunk-jpl/src/c/objects/KML/KML_Object.h KML: Removed object dataset in KML_File in favor of that in KML_Object.

Change #3 with diff file ISSM-11383-11384.diff:

Function name:

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

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

Export determination: 6.

Rationale: KML: Removed object dataset in KML_File in favor of that in KML_Object.

Change #4 with diff file ISSM-11384-11385.diff:

Function name:

A /issm/trunk-jpl/externalpackages/metis/configs/4.0/win7 A /issm/trunk-jpl/externalpackages/metis/configs/4.0/win7

A /issm/trunk-jpl/externalpackages/metis/install-4.0-win7.sh

Export determination: 6.

Rationale: Windows 7 compile of metis package

Change #5 with diff file ISSM-11385-11386.diff:

Function name:

A /issm/trunk-jpl/externalpackages/metis/configs/4.0/win7 A /issm/trunk-jpl/externalpackages/metis/configs/4.0/win7

A /issm/trunk-jpl/externalpackages/metis/install-4.0-win7.sh

Export determination: 6.

Rationale: Windows 7 compile of metis package A /issm/trunk-jpl/externalpackages/petsc/install-2.3.2-win7.sh A /issm/trunk-jpl/externalpackages/petsc/install-3.1-win7.sh Windows 7 compile of PETSC package

Change #6 with diff file ISSM-11386-11387.diff:

Function name:

A /issm/trunk-jpl/externalpackages/petsc/install-2.3.2-win7.sh A /issm/trunk-jpl/externalpackages/petsc/install-3.1-win7.sh

Export determination: 6.

Rationale: Windows 7 compile of PETSC package D /issm/trunk-jpl/externalpackages/win7/intel-windows7.sh A /issm/trunk-jpl/externalpackages/win7/vs10.0.sh Visual studio with sdk 7.1 environment variables

Change #7 with diff file ISSM-11387-11388.diff:

Function name:

D /issm/trunk-jpl/externalpackages/win7/intel-windows7.sh A /issm/trunk-jpl/externalpackages/win7/vs10.0

Export determination: 6.

Rationale: Visual studio with sdk 7.1 environment variables M /issm/trunk-jpl/src/m/classes/solver.m No more Enums in solver, convert enum to string so that old models still work

Change #8 with diff file ISSM-11388-11389.diff:

Function name:

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

Export determination: 6.

Rationale: No more Enums in solver, convert enum to string so that old models still work M /issm/trunk-jpl/src/m/classes/solver.m added check for old models

Change #9 with diff file ISSM-11389-11390.diff:

Function name:

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

Export determination: 6.

Rationale: added check for old models M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp minor

Change #10 with diff file ISSM-11390-11391.diff:

Function name:

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

Export determination: 6.

Rationale: minor M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp minor cleaning

Change #11 with diff file ISSM-11391-11392.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp
Export determination: 6.
Rationale: minor cleaning M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp
minor

Change #12 with diff file ISSM-11392-11393.diff:
Function name:
M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp
Export determination: 6.
Rationale: minor M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp minor
enthalpy

Change #13 with diff file ISSM-11393-11394.diff:
Function name:
M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp
Export determination: 6.
Rationale: minor enthalpy M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp
better artificial diffusivity

Change #14 with diff file ISSM-11394-11395.diff:
Function name:
M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp
Export determination: 6.
Rationale: better artificial diffusivity M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp
minor

Change #15 with diff file ISSM-11395-11396.diff:
Function name:
M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp
Export determination: 6.
Rationale: minor M /issm/trunk-jpl/test/Archives/Archive139.mat M /issm/trunk-jpl/test/Archives/Archive140.mat M /issm/trunk-jpl/test/Archives/Archive141.mat
M /issm/trunk-jpl/test/Archives/Archive142.mat M /issm/trunk-jpl/test/Archives/Archive349.mat
M /issm/trunk-jpl/test/Archives/Archive350.mat M /issm/trunk-jpl/test/Archives/Archive351.mat
M /issm/trunk-jpl/test/Archives/Archive352.mat M /issm/trunk-jpl/test/Archives/Archive353.mat
M /issm/trunk-jpl/test/Archives/Archive354.mat updated archives for new artificial diffusivity in enthalpy

Change #16 with diff file ISSM-11396-11397.diff:
Function name:
M /issm/trunk-jpl/test/Archives/Archive139.mat M /issm/trunk-jpl/test/Archives/Archive140.mat
M /issm/trunk-jpl/test/Archives/Archive141.mat M /issm/trunk-jpl/test/Archives/Archive142.mat
M /issm/trunk-jpl/test/Archives/Archive349.mat M /issm/trunk-jpl/test/Archives/Archive350.mat
M /issm/trunk-jpl/test/Archives/Archive351.mat M /issm/trunk-jpl/test/Archives/Archive352.mat
M /issm/trunk-jpl/test/Archives/Archive353.mat M /issm/trunk-jpl/test/Archives/Archive354.mat
Export determination: 6.

Rationale: updated archives for new artificial diffusivity in enthalpy M /issm/trunk-jpl/externalpackages/metis/configs/4.0/win7/Makefile.in.patch A /issm/trunk-jpl/externalpackages/metis/configs/4.0/win7/Makefile.patch M /issm/trunk-jpl/externalpackages/metis/install-4.0-win7.sh Adapted patches to metis install for windows 7 installation

Change #17 with diff file ISSM-11397-11398.diff:

Function name:

M /issm/trunk-jpl/externalpackages/metis/configs/4.0/win7/Makefile.in.patch

A /issm/trunk-jpl/externalpackages/metis/configs/4.0/win7/Makefile.patch M

/issm/trunk-jpl/externalpackages/metis/install-4.0-win7.sh

Export determination: 6.

Rationale: Adapted patches to metis install for windows 7 installation A /issm/trunk-

jpl/externalpackages/triangle/configs/win7 A /issm/trunk-jpl/externalpackages/triangle/configs/win7/configu

A /issm/trunk-jpl/externalpackages/triangle/configs/win7/makefile A /issm/trunk-

jpl/externalpackages/triangle/install-win7.sh Adapted Triangle compilation to

win7 platform

Change #18 with diff file ISSM-11398-11399.diff:

Function name:

A /issm/trunk-jpl/externalpackages/triangle/configs/win7 A /issm/trunk-jpl/externalpackages/triangle/config

A /issm/trunk-jpl/externalpackages/triangle/configs/win7/makefile A /issm/trunk-

jpl/externalpackages/triangle/install-win7.sh

Export determination: 6.

Rationale: Adapted Triangle compilation to win7 platform M /issm/trunk-

jpl/src/c/objects/Patch.cpp Missing math header file for Patch object

Change #19 with diff file ISSM-11399-11400.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Patch.cpp

Export determination: 6.

Rationale: Missing math header file for Patch object M /issm/trunk-jpl/src/c/modules/StringToEnumx/String

Had to split the embedded statements so that compilers such as Visual Studio

can compile.