

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11801-11820

(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 11801 to revision 11820

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-11802-11803.diff:

Function name:

A /issm/trunk-jpl/externalpackages/export_fig/copyfig.m M /issm/trunk-jpl/externalpackages/export_fig/eps2
M /issm/trunk-jpl/externalpackages/export_fig/export_fig.m M /issm/trunk-jpl/externalpackages/export_fig/is
M /issm/trunk-jpl/externalpackages/export_fig/license.txt M /issm/trunk-jpl/externalpackages/export_fig/pri
M /issm/trunk-jpl/externalpackages/export_fig/print2eps.m

Export determination: 6.

Rationale: updated export_fig

Change #2 with diff file ISSM-11803-11804.diff:

Function name:

A /issm/trunk-jpl/externalpackages/export_fig/copyfig.m M /issm/trunk-jpl/externalpackages/export_fig/eps2
M /issm/trunk-jpl/externalpackages/export_fig/export_fig.m M /issm/trunk-jpl/externalpackages/export_fig/is
M /issm/trunk-jpl/externalpackages/export_fig/license.txt M /issm/trunk-jpl/externalpackages/export_fig/pri
M /issm/trunk-jpl/externalpackages/export_fig/print2eps.m

Export determination: 6.

Rationale: updated export_fig A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities

A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/Contents.m A /issm/trunk-
jpl/externalpackages/cm_and_cb_utilities/cbfit.m A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cbfr
A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cbhandle.m A /issm/trunk-
jpl/externalpackages/cm_and_cb_utilities/cblabel.m A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/c
A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cm_and_cb_utilities.png
A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cmapping.m A /issm/trunk-
jpl/externalpackages/cm_and_cb_utilities/cmfit.m A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cm
A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cmlines.m Added cm_and_cb_utilities,
very usefull to mix colormaps

Change #3 with diff file ISSM-11804-11805.diff:

Function name:

A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities A /issm/trunk-jpl/externalpackages/cm_and_cb_utiliti
A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cbfit.m A /issm/trunk-
jpl/externalpackages/cm_and_cb_utilities/cbfreeze.m A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/
A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cblabel.m A /issm/trunk-
jpl/externalpackages/cm_and_cb_utilities/cbunits.m A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/c

A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cmapping.m A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cmfit.m A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cm A /issm/trunk-jpl/externalpackages/cm_and_cb_utilities/cmlines.m
 Export determination: 6.
 Rationale: Added cm_and_cb_utilities, very usefull to mix colormaps M /issm/trunk-jpl/startup.m Added cm_and_cb_utilities in path

Change #4 with diff file ISSM-11805-11806.diff:

Function name:
 M /issm/trunk-jpl/startup.m
 Export determination: 6.
 Rationale: Added cm_and_cb_utilities in path M /issm/trunk-jpl/src/m/classes/geometry.m
 Added Bathymetry check

Change #5 with diff file ISSM-11806-11807.diff:

Function name:
 M /issm/trunk-jpl/src/m/classes/geometry.m
 Export determination: 6.
 Rationale: Added Bathymetry check M /issm/trunk-jpl/src/m/utls/Exp/clicktoflowline.m
 D /issm/trunk-jpl/src/m/utls/Exp/zinput.m improved doc

Change #6 with diff file ISSM-11807-11808.diff:

Function name:
 M /issm/trunk-jpl/src/m/utls/Exp/clicktoflowline.m D /issm/trunk-jpl/src/m/utls/Exp/zinput.m
 Export determination: 6.
 Rationale: improved doc M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/solutions/control_core.cpp A /issm/trunk-jpl/src/c/solutions/objectivefunction.cpp
 D /issm/trunk-jpl/src/c/solutions/objectivefunctionC.cpp M /issm/trunk-jpl/src/c/solutions/solutions.h
 renamed objectivefunctionC -> objectivefunction

Change #7 with diff file ISSM-11808-11809.diff:

Function name:
 M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/solutions/control_core.cpp
 A /issm/trunk-jpl/src/c/solutions/objectivefunction.cpp D /issm/trunk-jpl/src/c/solutions/objectivefunctionC.cpp
 M /issm/trunk-jpl/src/c/solutions/solutions.h
 Export determination: 6.
 Rationale: renamed objectivefunctionC -> objectivefunction M /issm/trunk-jpl/src/m/solutions/control_core.m A /issm/trunk-jpl/src/m/solutions/objectivefunction.m
 D /issm/trunk-jpl/src/m/solutions/objectivefunctionC.m renamed objectivefunctionC -> objectivefunction

Change #8 with diff file ISSM-11809-11810.diff:

Function name:
 M /issm/trunk-jpl/src/m/solutions/control_core.m A /issm/trunk-jpl/src/m/solutions/objectivefunction.m
 D /issm/trunk-jpl/src/m/solutions/objectivefunctionC.m
 Export determination: 6.

Rationale: renamed objectivefunctionC -i objectivefunction 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/CreateParameters.cpp M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp M /issm/trunk-jpl/src/c/shared/Numerics/UnitConversion.cpp M /issm/trunk-jpl/src/c/solutions/enthalpy_core.cpp M /issm/trunk-jpl/src/c/solutions/hydrology_core.cpp M /issm/trunk-jpl/src/c/solutions/thermal_core.cpp M /issm/trunk-jpl/src/c/solutions/transient_core.cpp M /issm/trunk-jpl/src/m/classes/timestepping.m A /issm/trunk-jpl/src/m/enum/TimesteppingStartTimeEnum.m M /issm/trunk-jpl/src/m/solutions/transient_core.m Added starttime in time stepping

Change #9 with diff file ISSM-11810-11811.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/ModelProcessorx.cpp M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp M /issm/trunk-jpl/src/c/shared/Numerics/UnitConversion.cpp M /issm/trunk-jpl/src/c/solutions/enthalpy_core.cpp M /issm/trunk-jpl/src/c/solutions/hydrology_core.cpp M /issm/trunk-jpl/src/c/solutions/thermal_core.cpp M /issm/trunk-jpl/src/c/solutions/transient_core.cpp M /issm/trunk-jpl/src/m/classes/timestepping.m A /issm/trunk-jpl/src/m/enum/TimesteppingStartTimeEnum.m M /issm/trunk-jpl/src/m/solutions/transient_core.m

Export determination: 6.

Rationale: Added starttime in time stepping M /issm/trunk-jpl/test/NightlyRun/test140.m M /issm/trunk-jpl/test/NightlyRun/test213.m M /issm/trunk-jpl/test/NightlyRun/test214.m M /issm/trunk-jpl/test/NightlyRun/test263.m M /issm/trunk-jpl/test/NightlyRun/test264.m M /issm/trunk-jpl/test/NightlyRun/test352.m M /issm/trunk-jpl/test/NightlyRun/test529.m M /issm/trunk-jpl/test/NightlyRun/test530.m starting to remove thermal solution, changing NR for thermal transient

Change #10 with diff file ISSM-11811-11812.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test140.m M /issm/trunk-jpl/test/NightlyRun/test213.m M /issm/trunk-jpl/test/NightlyRun/test214.m M /issm/trunk-jpl/test/NightlyRun/test263.m M /issm/trunk-jpl/test/NightlyRun/test264.m M /issm/trunk-jpl/test/NightlyRun/test352.m M /issm/trunk-jpl/test/NightlyRun/test529.m M /issm/trunk-jpl/test/NightlyRun/test530.m

Export determination: 6.

Rationale: starting to remove thermal solution, changing NR for thermal transient M /issm/trunk-jpl/test/NightlyRun/test141.m M /issm/trunk-jpl/test/NightlyRun/test142.m M /issm/trunk-jpl/test/NightlyRun/test351.m M /issm/trunk-jpl/test/NightlyRun/test352.m NR: moved enthalpy transient into transient tests

Change #11 with diff file ISSM-11812-11813.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test141.m M /issm/trunk-jpl/test/NightlyRun/test142.m M /issm/trunk-jpl/test/NightlyRun/test351.m M /issm/trunk-jpl/test/NightlyRun/test352.m

Export determination: 6.

Rationale: NR: moved enthalpy transient into transient tests 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/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/solutions/steadystate_core.cpp M /issm/trunk-jpl/src/m/classes/steadystate.m M /issm/trunk-jpl/src/m/solutions/steadystate_core.m added option to use thermal and/or diagnostic in steady-state solution

Change #12 with diff file ISSM-11813-11814.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/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/solutions/steadystate_core.cpp M /issm/trunk-jpl/src/m/classes/steadystate.m M /issm/trunk-jpl/src/m/solutions/steadystate_core.m Export determination: 6.

Rationale: added option to use thermal and/or diagnostic in steady-state solution A /issm/trunk-jpl/src/m/enum/SteadystateIsdiagnosticEnum.m A /issm/trunk-jpl/src/m/enum/SteadystateIsthermalEnum.m matlab enums

Change #13 with diff file ISSM-11814-11815.diff:

Function name:

A /issm/trunk-jpl/src/m/enum/SteadystateIsdiagnosticEnum.m A /issm/trunk-jpl/src/m/enum/SteadystateIsthermalEnum.m Export determination: 6.

Rationale: matlab enums 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/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/solutions/steadystate_core.cpp D /issm/trunk-jpl/src/m/enum/SteadystateIsdiagnosticEnum.m D /issm/trunk-jpl/src/m/enum/SteadystateIsthermalEnum.m M /issm/trunk-jpl/src/m/solutions/steadystate_core.m reverted last change, bad idea to put thermal steady into steadystate

Change #14 with diff file ISSM-11815-11816.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/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/solutions/steadystate_core.cpp D /issm/trunk-jpl/src/m/enum/SteadystateIsdiagnosticEnum.m D /issm/trunk-jpl/src/m/enum/SteadystateIsthermalEnum.m M /issm/trunk-jpl/src/m/solutions/steadystate_core.m Export determination: 6.

Rationale: reverted last change, bad idea to put thermal steady into steadystate M /issm/trunk-jpl/src/m/classes/steadystate.m forgot one file !

Change #15 with diff file ISSM-11816-11817.diff:

Function name:
M /issm/trunk-jpl/src/m/classes/steadystate.m
Export determination: 6.
Rationale: forgot one file ! M /issm/trunk-jpl/externalpackages/windows/InstallInstructions.txt
typo

Change #16 with diff file ISSM-11817-11818.diff:

Function name:
M /issm/trunk-jpl/externalpackages/windows/InstallInstructions.txt
Export determination: 6.
Rationale: typo M /issm/trunk-jpl/test/NightlyRun/test117.m M /issm/trunk-jpl/test/NightlyRun/test118.m M /issm/trunk-jpl/test/NightlyRun/test325.m
M /issm/trunk-jpl/test/NightlyRun/test326.m M /issm/trunk-jpl/test/NightlyRun/test413.m
M /issm/trunk-jpl/test/NightlyRun/test414.m more thermal transient

Change #17 with diff file ISSM-11818-11819.diff:

Function name:
M /issm/trunk-jpl/test/NightlyRun/test117.m M /issm/trunk-jpl/test/NightlyRun/test118.m
M /issm/trunk-jpl/test/NightlyRun/test325.m M /issm/trunk-jpl/test/NightlyRun/test326.m
M /issm/trunk-jpl/test/NightlyRun/test413.m M /issm/trunk-jpl/test/NightlyRun/test414.m
Export determination: 6.
Rationale: more thermal transient M /issm/trunk-jpl/test/Archives/Archive263.mat
updated archives for test263, thermal transient no longer exists

Change #18 with diff file ISSM-11819-11820.diff:

Function name:
M /issm/trunk-jpl/test/Archives/Archive263.mat
Export determination: 6.
Rationale: updated archives for test263, thermal transient no longer exists M
/issm/trunk-jpl/externalpackages/metis/configs/4.0/win32/Makefile.in.patch Try-
ing to fix patch