

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11229-11250

(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 11229 to revision 11250

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-11229-11230.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/StringToEnumx/S
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
A /issm/trunk-jpl/src/m/enum/StressTensorEnum.m A /issm/trunk-jpl/src/m/enum/StressTensorxxEnum.m
A /issm/trunk-jpl/src/m/enum/StressTensorxyEnum.m A /issm/trunk-jpl/src/m/enum/StressTensorxzEnum.m
A /issm/trunk-jpl/src/m/enum/StressTensoryyEnum.m A /issm/trunk-jpl/src/m/enum/StressTensoryzEnum.m
A /issm/trunk-jpl/src/m/enum/StressTensorzzEnum.m

Export determination: 6.

Rationale: added possibility to compute stress tensor components when specified in requested_outputs M /issm/trunk-jpl/test/NightlyRun/test102.m M /issm/trunk-jpl/test/NightlyRun/test106.m added tests in NR for stresstensor computation (2d and 3d)

Change #2 with diff file ISSM-11230-11231.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test102.m M /issm/trunk-jpl/test/NightlyRun/test106.m

Export determination: 6.

Rationale: added tests in NR for stresstensor computation (2d and 3d) M /issm/trunk-jpl/test/Archives/Archive102.mat M /issm/trunk-jpl/test/Archives/Archive106.mat M /issm/trunk-jpl/test/NightlyRun/test106.m added archives for stresscomponents

Change #3 with diff file ISSM-11231-11232.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive102.mat M /issm/trunk-jpl/test/Archives/Archive106.mat
M /issm/trunk-jpl/test/NightlyRun/test106.m

Export determination: 6.

Rationale: added archives for stresscomponents

Change #4 with diff file ISSM-11232-11233.diff:

Function name:

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

Export determination: 6.

Rationale: minor (fixes compilation pb)

Change #5 with diff file ISSM-11233-11234.diff:

Function name:

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

Export determination: 6.

Rationale: minor (fixes compilation pb) M /issm/trunk-jpl/src/m/model/extrude.m

M /issm/trunk-jpl/src/m/model/parameterization/parameterize.m M /issm/trunk-

jpl/src/m/model/plot/processmesh.m M /issm/trunk-jpl/src/m/model/setmask.m

Merge of trunk and trunk-jpl

Change #6 with diff file ISSM-11234-11235.diff:

Function name:

M /issm/trunk-jpl/src/m/model/extrude.m M /issm/trunk-jpl/src/m/model/parameterization/parameterize.m

M /issm/trunk-jpl/src/m/model/plot/processmesh.m M /issm/trunk-jpl/src/m/model/setmask.m

Export determination: 6.

Rationale: Merge of trunk and trunk-jpl M /issm/trunk-jpl/src/m/model/parameterization/parameterize.m

Fixed error message correction (should display parameter file name, not its temporary name)

Change #7 with diff file ISSM-11235-11236.diff:

Function name:

M /issm/trunk-jpl/src/m/model/parameterization/parameterize.m

Export determination: 6.

Rationale: Fixed error message correction (should display parameter file name, not its temporary name) M /issm/trunk-jpl M /issm/trunk-jpl/AUTHORS

M /issm/trunk-jpl/NEWS M /issm/trunk-jpl/doc/issmdoc.m M /issm/trunk-jpl/examples/SquareIceShelf/Square.par M /issm/trunk-jpl/src/c/Container/Elements.cpp

M /issm/trunk-jpl/src/c/modules/Chacox/chaco_seconds.cpp M /issm/trunk-

jpl/src/c/objects/Vertex.cpp M /issm/trunk-jpl/src/dox/issm.dox M /issm/trunk-

jpl/src/m/classes/inversion.m M /issm/trunk-jpl/src/m/Utils/Geometry/FlagElements.m

trunk and trunk-jpl merge

Change #8 with diff file ISSM-11236-11237.diff:

Function name:

M /issm/trunk-jpl M /issm/trunk-jpl/AUTHORS M /issm/trunk-jpl/NEWS M

/issm/trunk-jpl/doc/issmdoc.m M /issm/trunk-jpl/examples/SquareIceShelf/Square.par

M /issm/trunk-jpl/src/c/Container/Elements.cpp M /issm/trunk-jpl/src/c/modules/Chacox/chaco_seconds.cpp

M /issm/trunk-jpl/src/c/objects/Vertex.cpp M /issm/trunk-jpl/src/dox/issm.dox

M /issm/trunk-jpl/src/m/classes/inversion.m M /issm/trunk-jpl/src/m/Utils/Geometry/FlagElements.m

Export determination: 6.

Rationale: trunk and trunk-jpl merge

Change #9 with diff file ISSM-11237-11238.diff:

Function name:
M /issm/trunk-jpl
Export determination: 6.
Rationale: Block revision 11236 from being merged into trunk-jpl

Change #10 with diff file ISSM-11238-11239.diff:

Function name:
M /issm/trunk-jpl
Export determination: 6.
Rationale: Block revision 11236 from being merged into trunk-jpl

Change #11 with diff file ISSM-11240-11241.diff:

Function name:
M /issm/trunk-jpl/externalpackages/doxygen/install.sh M /issm/trunk-jpl/scripts/cloc2html.py
M /issm/trunk-jpl/scripts/getloc.sh M /issm/trunk-jpl/src/dox/issm.dox
Export determination: 6.
Rationale: updated number of lines of code

Change #12 with diff file ISSM-11241-11242.diff:

Function name:
M /issm/trunk-jpl/externalpackages/doxygen/install.sh M /issm/trunk-jpl/scripts/cloc2html.py
M /issm/trunk-jpl/scripts/getloc.sh M /issm/trunk-jpl/src/dox/issm.dox
Export determination: 6.
Rationale: updated number of lines of code M /issm/trunk-jpl/src/c/modules/UpdateVertexPositionsx/UpdateVertexPositionsx.cpp
M /issm/trunk-jpl/src/c/objects/Vertex.cpp M /issm/trunk-jpl/src/c/objects/Vertex.h
Added mesh vertical velocity computation for ALE formulation

Change #13 with diff file ISSM-11242-11243.diff:

Function name:
M /issm/trunk-jpl/src/c/modules/UpdateVertexPositionsx/UpdateVertexPositionsx.cpp
M /issm/trunk-jpl/src/c/objects/Vertex.cpp M /issm/trunk-jpl/src/c/objects/Vertex.h
Export determination: 6.
Rationale: Added mesh vertical velocity computation for ALE formulation M /issm/trunk-jpl/test/NightlyRun/test1502.m minor

Change #14 with diff file ISSM-11243-11244.diff:

Function name:
M /issm/trunk-jpl/test/NightlyRun/test1502.m
Export determination: 6.
Rationale: minor M /issm/trunk-jpl/test/NightlyRun/test1108.m M /issm/trunk-jpl/test/NightlyRun/test1109.m minor tolerances

Change #15 with diff file ISSM-11244-11245.diff:

Function name:
M /issm/trunk-jpl/test/NightlyRun/test1108.m M /issm/trunk-jpl/test/NightlyRun/test1109.m
Export determination: 6.

Rationale: minor tolerances M /issm/trunk-jpl/src/c/modules/UpdateVertexPositionsx/UpdateVertexPositionsx.cpp M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp M /issm/trunk-jpl/src/c/objects/Vertex.cpp M /issm/trunk-jpl/src/c/solutions/transient_core.cpp Added vz mesh vertical velocity for Arbitrary Eulerian Lagrangian formulation

Change #16 with diff file ISSM-11245-11246.diff:

Function name:

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

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

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

Export determination: 6.

Rationale: Added vz mesh vertical velocity for Arbitrary Eulerian Lagrangian formulation M /issm/trunk-jpl/src/c/objects/Vertex.cpp minor

Change #17 with diff file ISSM-11246-11247.diff:

Function name:

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

Export determination: 6.

Rationale: minor M /issm/trunk-jpl/src/c/objects/Loads/Penpair.cpp M /issm/trunk-jpl/src/c/objects/Loads/Penpair.h Added InputUpdateFromVector for Penpair

Change #18 with diff file ISSM-11247-11248.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Loads/Penpair.cpp M /issm/trunk-jpl/src/c/objects/Loads/Penpair.h

Export determination: 6.

Rationale: Added InputUpdateFromVector for Penpair M /issm/trunk-jpl/test/Archives/Archive121.mat

M /issm/trunk-jpl/test/Archives/Archive122.mat M /issm/trunk-jpl/test/Archives/Archive217.mat

M /issm/trunk-jpl/test/Archives/Archive218.mat M /issm/trunk-jpl/test/Archives/Archive219.mat

M /issm/trunk-jpl/test/Archives/Archive220.mat M /issm/trunk-jpl/test/Archives/Archive221.mat

M /issm/trunk-jpl/test/Archives/Archive222.mat M /issm/trunk-jpl/test/Archives/Archive247.mat

M /issm/trunk-jpl/test/Archives/Archive248.mat M /issm/trunk-jpl/test/Archives/Archive249.mat

M /issm/trunk-jpl/test/Archives/Archive250.mat M /issm/trunk-jpl/test/Archives/Archive253.mat

M /issm/trunk-jpl/test/Archives/Archive254.mat M /issm/trunk-jpl/test/Archives/Archive265.mat

M /issm/trunk-jpl/test/Archives/Archive266.mat M /issm/trunk-jpl/test/Archives/Archive329.mat

M /issm/trunk-jpl/test/Archives/Archive330.mat M /issm/trunk-jpl/test/Archives/Archive333.mat

M /issm/trunk-jpl/test/Archives/Archive334.mat M /issm/trunk-jpl/test/Archives/Archive347.mat

M /issm/trunk-jpl/test/Archives/Archive348.mat M /issm/trunk-jpl/test/Archives/Archive417.mat

M /issm/trunk-jpl/test/Archives/Archive418.mat M /issm/trunk-jpl/test/Archives/Archive451.mat

M /issm/trunk-jpl/test/Archives/Archive452.mat M /issm/trunk-jpl/test/Archives/Archive453.mat

M /issm/trunk-jpl/test/Archives/Archive454.mat M /issm/trunk-jpl/test/Archives/Archive509.mat

M /issm/trunk-jpl/test/Archives/Archive510.mat M /issm/trunk-jpl/test/Archives/Archive511.mat

M /issm/trunk-jpl/test/Archives/Archive512.mat M /issm/trunk-jpl/test/Archives/Archive513.mat

M /issm/trunk-jpl/test/Archives/Archive514.mat archives vz ale for transient

3d runs

Change #19 with diff file ISSM-11248-11249.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive121.mat M /issm/trunk-jpl/test/Archives/Archive122.mat
M /issm/trunk-jpl/test/Archives/Archive217.mat M /issm/trunk-jpl/test/Archives/Archive218.mat
M /issm/trunk-jpl/test/Archives/Archive219.mat M /issm/trunk-jpl/test/Archives/Archive220.mat
M /issm/trunk-jpl/test/Archives/Archive221.mat M /issm/trunk-jpl/test/Archives/Archive222.mat
M /issm/trunk-jpl/test/Archives/Archive247.mat M /issm/trunk-jpl/test/Archives/Archive248.mat
M /issm/trunk-jpl/test/Archives/Archive249.mat M /issm/trunk-jpl/test/Archives/Archive250.mat
M /issm/trunk-jpl/test/Archives/Archive253.mat M /issm/trunk-jpl/test/Archives/Archive254.mat
M /issm/trunk-jpl/test/Archives/Archive265.mat M /issm/trunk-jpl/test/Archives/Archive266.mat
M /issm/trunk-jpl/test/Archives/Archive329.mat M /issm/trunk-jpl/test/Archives/Archive330.mat
M /issm/trunk-jpl/test/Archives/Archive333.mat M /issm/trunk-jpl/test/Archives/Archive334.mat
M /issm/trunk-jpl/test/Archives/Archive347.mat M /issm/trunk-jpl/test/Archives/Archive348.mat
M /issm/trunk-jpl/test/Archives/Archive417.mat M /issm/trunk-jpl/test/Archives/Archive418.mat
M /issm/trunk-jpl/test/Archives/Archive451.mat M /issm/trunk-jpl/test/Archives/Archive452.mat
M /issm/trunk-jpl/test/Archives/Archive453.mat M /issm/trunk-jpl/test/Archives/Archive454.mat
M /issm/trunk-jpl/test/Archives/Archive509.mat M /issm/trunk-jpl/test/Archives/Archive510.mat
M /issm/trunk-jpl/test/Archives/Archive511.mat M /issm/trunk-jpl/test/Archives/Archive512.mat
M /issm/trunk-jpl/test/Archives/Archive513.mat M /issm/trunk-jpl/test/Archives/Archive514.mat
Export determination: 6.

Rationale: archives vz ale for transient 3d runs M /issm/trunk-jpl/src/m/model/plot/plot_BC.m

A /issm/trunk-jpl/src/m/model/plot/plot_icefront.m (from /issm/trunk-jpl/src/m/model/plot/plot_pressureload.m)

M /issm/trunk-jpl/src/m/model/plot/plot_manager.m D /issm/trunk-jpl/src/m/model/plot/plot_pressureload.m

M /issm/trunk-jpl/src/m/model/plot/plotdoc.m appropriate name of plot is
plot_icefront not plot_pressureload

Change #20 with diff file ISSM-11249-11250.diff:

Function name:

M /issm/trunk-jpl/src/m/model/plot/plot_BC.m A /issm/trunk-jpl/src/m/model/plot/plot_icefront.m
(from /issm/trunk-jpl/src/m/model/plot/plot_pressureload.m:11235) M /issm/trunk-
jpl/src/m/model/plot/plot_manager.m D /issm/trunk-jpl/src/m/model/plot/plot_pressureload.m
M /issm/trunk-jpl/src/m/model/plot/plotdoc.m

Export determination: 6.

Rationale: appropriate name of plot is plot_icefront not plot_pressureload M
/issm/trunk-jpl/src/ad/wrappers.txt text: removed duplicate from list