

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD
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Log #: 12041-12060

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**Program:** ISSM: Ice Sheet System Model

**Person Requesting or Initiating Export:** Dr. Eric Larour

**Date Received:** Jun-1-2012

**Document Title/Description:** ISSM changes from revision 12041 to revision 12060

**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](http://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:** Jun-1-2012



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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- 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)

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**Change #1** with diff file ISSM-12041-12042.diff:

Function name:

M /issm/trunk-jpl/src/c/matlab/io/WriteMatlabData.cpp

Export determination: 6.

Rationale: minor fix D /issm/trunk-jpl/src/py/model/display/fielddisplay.rest cleaning up

**Change #2** with diff file ISSM-12042-12043.diff:

Function name:

D /issm/trunk-jpl/src/py/model/display/fielddisplay.rest

Export determination: 6.

Rationale: cleaning up M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/matlab/io/WriteMatlabData.cpp M /issm/trunk-jpl/src/c/matlab/io/matlabio.h D /issm/trunk-jpl/src/c/matlab/objects M /issm/trunk-jpl/src/c/objects/Bamg/BamgGeom.h M /issm/trunk-jpl/src/c/objects/Bamg/BamgMesh.cpp M /issm/trunk-jpl/src/c/objects/Bamg/BamgMesh.h M /issm/trunk-jpl/src/c/objects/Bamg/BamgOpts.h Fixed Fetch and Write for Bamg objects

**Change #3** with diff file ISSM-12043-12044.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/matlab/io/WriteMatlabData.cpp

M /issm/trunk-jpl/src/c/matlab/io/matlabio.h D /issm/trunk-jpl/src/c/matlab/objects M /issm/trunk-jpl/src/c/objects/Bamg/BamgGeom.h

M /issm/trunk-jpl/src/c/objects/Bamg/BamgMesh.cpp M /issm/trunk-jpl/src/c/objects/Bamg/BamgMesh.h

M /issm/trunk-jpl/src/c/objects/Bamg/BamgOpts.h

Export determination: 6.

Rationale: Fixed Fetch and Write for Bamg objects M /issm/trunk-jpl/src/modules/BamgConvertMesh/BamgConvertMesh.cpp M /issm/trunk-jpl/src/modules/BamgMesher/BamgMesher.cpp Fixed Fetch and

Write for Bamg objects

**Change #4** with diff file ISSM-12044-12045.diff:

Function name:

M /issm/trunk-jpl/src/modules/BamgConvertMesh/BamgConvertMesh.cpp M

/issm/trunk-jpl/src/modules/BamgMesher/BamgMesher.cpp

Export determination: 6.

Rationale: Fixed Fetch and Write for Bamg objects M /issm/trunk-jpl/src/modules/BamgMesher/BamgMesher.cpp  
minor

**Change #5** with diff file ISSM-12045-12046.diff:

Function name:

M /issm/trunk-jpl/src/modules/BamgMesher/BamgMesher.cpp

Export determination: 6.

Rationale: minor M /issm/trunk-jpl/src/c/matlab/io/WriteMatlabData.cpp Fixed  
matrix transpose

**Change #6** with diff file ISSM-12046-12047.diff:

Function name:

M /issm/trunk-jpl/src/c/matlab/io/WriteMatlabData.cpp

Export determination: 6.

Rationale: Fixed matrix transpose M /issm/trunk-jpl/test/NightlyRun/test101.py  
Better syntax

**Change #7** with diff file ISSM-12047-12048.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test101.py

Export determination: 6.

Rationale: Better syntax M /issm/trunk-jpl/src/m/classes/solver.m Updated  
solver option struct to allow setting blank solutionTypeEnum that can be filled  
in

**Change #8** with diff file ISSM-12048-12049.diff:

Function name:

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

Export determination: 6.

Rationale: Updated solver option struct to allow setting blank solutionType-  
Enum that can be filled in M /issm/trunk-jpl/src/modules/BamgMesher/BamgMesher.cpp  
M /issm/trunk-jpl/src/modules/Exp2Kml/Exp2Kml.cpp M /issm/trunk-jpl/src/modules/KMLFileRead/KMLFileRead.cpp  
M /issm/trunk-jpl/src/modules/KMLMeshWrite/KMLMeshWrite.cpp M /issm/trunk-  
jpl/src/modules/KMLOverlay/KMLOverlay.cpp M /issm/trunk-jpl/src/modules/Kml2Exp/Kml2Exp.cpp  
M /issm/trunk-jpl/src/modules/Ll2xy/Ll2xy.cpp M /issm/trunk-jpl/src/modules/Shp2Kml/Shp2Kml.cpp  
M /issm/trunk-jpl/src/modules/Xy2ll/Xy2ll.cpp Using FetchData to recover  
Options

**Change #9** with diff file ISSM-12049-12050.diff:

Function name:

M /issm/trunk-jpl/src/modules/BamgMesher/BamgMesher.cpp M /issm/trunk-  
jpl/src/modules/Exp2Kml/Exp2Kml.cpp M /issm/trunk-jpl/src/modules/KMLFileRead/KMLFileRead.cpp  
M /issm/trunk-jpl/src/modules/KMLMeshWrite/KMLMeshWrite.cpp M /issm/trunk-  
jpl/src/modules/KMLOverlay/KMLOverlay.cpp M /issm/trunk-jpl/src/modules/Kml2Exp/Kml2Exp.cpp  
M /issm/trunk-jpl/src/modules/Ll2xy/Ll2xy.cpp M /issm/trunk-jpl/src/modules/Shp2Kml/Shp2Kml.cpp

M /issm/trunk-jpl/src/modules/Xy2ll/Xy2ll.cpp

Export determination: 6.

Rationale: Using FetchData to recover Options M /issm/trunk-jpl/src/modules/Chaco/Chaco.cpp

M /issm/trunk-jpl/src/modules/ContourToMesh/ContourToMesh.cpp M /issm/trunk-

jpl/src/modules/ContourToNodes/ContourToNodes.cpp M /issm/trunk-jpl/src/modules/InternalFront/InternalFront.cpp

M /issm/trunk-jpl/src/modules/InterpFromMesh2d/InterpFromMesh2d.cpp M

/issm/trunk-jpl/src/modules/InterpFromMeshToMesh2d/InterpFromMeshToMesh2d.cpp

M /issm/trunk-jpl/src/modules/KMLMeshWrite/KMLMeshWrite.cpp M /issm/trunk-

jpl/src/modules/MeshPartition/MeshPartition.cpp M /issm/trunk-jpl/src/modules/MeshProfileIntersection/MeshProfileIntersection.cpp

M /issm/trunk-jpl/src/modules/TriMeshProcessRifts/TriMeshProcessRifts.cpp

M /issm/trunk-jpl/src/modules/TriMeshRefine/TriMeshRefine.cpp ALWAYS use

Matlab's memory manager in mex modules

**Change #10** with diff file ISSM-12050-12051.diff:

Function name:

M /issm/trunk-jpl/src/modules/Chaco/Chaco.cpp M /issm/trunk-jpl/src/modules/ContourToMesh/ContourToMesh.cpp

M /issm/trunk-jpl/src/modules/ContourToNodes/ContourToNodes.cpp M /issm/trunk-

jpl/src/modules/InternalFront/InternalFront.cpp M /issm/trunk-jpl/src/modules/InterpFromMesh2d/InterpFromMesh2d.cpp

M /issm/trunk-jpl/src/modules/InterpFromMeshToMesh2d/InterpFromMeshToMesh2d.cpp

M /issm/trunk-jpl/src/modules/KMLMeshWrite/KMLMeshWrite.cpp M /issm/trunk-

jpl/src/modules/MeshPartition/MeshPartition.cpp M /issm/trunk-jpl/src/modules/MeshProfileIntersection/MeshProfileIntersection.cpp

M /issm/trunk-jpl/src/modules/TriMeshProcessRifts/TriMeshProcessRifts.cpp

M /issm/trunk-jpl/src/modules/TriMeshRefine/TriMeshRefine.cpp

Export determination: 6.

Rationale: ALWAYS use Matlab's memory manager in mex modules M /issm/trunk-

jpl/src/c/Container/Options.h M /issm/trunk-jpl/src/c/Makefile.am D /issm/trunk-

jpl/src/c/matlab/Container M /issm/trunk-jpl/src/c/matlab/io/FetchMatlabData.cpp

M /issm/trunk-jpl/src/c/matlab/io/matlabio.h no more weird constructor for

Options, use FetchData

**Change #11** with diff file ISSM-12051-12052.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Options.h M /issm/trunk-jpl/src/c/Makefile.am

D /issm/trunk-jpl/src/c/matlab/Container M /issm/trunk-jpl/src/c/matlab/io/FetchMatlabData.cpp

M /issm/trunk-jpl/src/c/matlab/io/matlabio.h

Export determination: 6.

Rationale: no more weird constructor for Options, use FetchData M /issm/trunk-

jpl/src/c/matlab/io/FetchMatlabData.cpp minor

**Change #12** with diff file ISSM-12052-12053.diff:

Function name:

M /issm/trunk-jpl/src/c/matlab/io/FetchMatlabData.cpp

Export determination: 6.

Rationale: minor M /issm/trunk-jpl/src/modules/BamgMesher/BamgMesher.cpp

reverted bamgmesh and bamggeom

**Change #13** with diff file ISSM-12053-12054.diff:

Function name:

M /issm/trunk-jpl/src/modules/BamgMesher/BamgMesher.cpp

Export determination: 6.

Rationale: reverted bamgmesh and bamgeom M /issm/trunk-jpl/src/modules/BamgMesher/BamgMesher.cpp  
reverted bamgmesh and bamgeom

**Change #14** with diff file ISSM-12054-12055.diff:

Function name:

M /issm/trunk-jpl/src/modules/BamgMesher/BamgMesher.cpp

Export determination: 6.

Rationale: reverted bamgmesh and bamgeom M /issm/trunk-jpl/etc/environment.csh  
use ISSM's autotools by default

**Change #15** with diff file ISSM-12055-12056.diff:

Function name:

M /issm/trunk-jpl/etc/environment.csh

Export determination: 6.

Rationale: use ISSM's autotools by default M /issm/trunk-jpl/src/c/Makefile.am

M /issm/trunk-jpl/src/c/modules/TriMeshx/TriMeshx.cpp M /issm/trunk-jpl/src/c/modules/TriMeshx/TriMeshx.h  
fixed compilation on pleiades

**Change #16** with diff file ISSM-12056-12057.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/modules/TriMeshx/TriMeshx.cpp

M /issm/trunk-jpl/src/c/modules/TriMeshx/TriMeshx.h

Export determination: 6.

Rationale: fixed compilation on pleiades M /issm/trunk-jpl/configs/config-greenplanet.sh

M /issm/trunk-jpl/configs/config-pleiades-petsc2.sh M /issm/trunk-jpl/configs/config-pleiades.sh  
option with-serial not used anymore, changed to with-modules

**Change #17** with diff file ISSM-12057-12058.diff:

Function name:

M /issm/trunk-jpl/configs/config-greenplanet.sh M /issm/trunk-jpl/configs/config-pleiades-petsc2.sh M /issm/trunk-jpl/configs/config-pleiades.sh

Export determination: 6.

Rationale: option with-serial not used anymore, changed to with-modules M /issm/trunk-jpl/m4/issm\_options.m4  
Better error message

**Change #18** with diff file ISSM-12058-12059.diff:

Function name:

M /issm/trunk-jpl/m4/issm\_options.m4

Export determination: 6.

Rationale: Better error message M /issm/trunk/configure.ac M /issm/trunk-jpl/configure.ac  
Changing ISSM version number

**Change #19** with diff file ISSM-12059-12060.diff:

Function name:

M /issm/trunk/configure.ac M /issm/trunk-jpl/configure.ac

Export determination: 6.

Rationale: Changing ISSM version number M /issm/trunk-jpl/src/modules/Chaco/Chaco.cpp

M /issm/trunk-jpl/src/modules/ContourToMesh/ContourToMesh.cpp M /issm/trunk-

jpl/src/modules/ContourToNodes/ContourToNodes.cpp M /issm/trunk-jpl/src/modules/InternalFront/Intern

M /issm/trunk-jpl/src/modules/InterpFromMesh2d/InterpFromMesh2d.cpp M

/issm/trunk-jpl/src/modules/InterpFromMeshToMesh2d/InterpFromMeshToMesh2d.cpp

M /issm/trunk-jpl/src/modules/KMLMeshWrite/KMLMeshWrite.cpp M /issm/trunk-

jpl/src/modules/MeshPartition/MeshPartition.cpp M /issm/trunk-jpl/src/modules/MeshProfileIntersection/M

M /issm/trunk-jpl/src/modules/TriMeshProcessRifts/TriMeshProcessRifts.cpp

M /issm/trunk-jpl/src/modules/TriMeshRefine/TriMeshRefine.cpp do not use

Matlab's memory management for internal variable (big mistake)