

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 12221-12240

(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: Jun-1-2012

Document Title/Description: ISSM changes from revision 12221 to revision 12240

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:** 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
- 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-12221-12222.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am

Export determination: 6.

Rationale: Protect against inclusion of fortran libraries M /issm/trunk-jpl/src/c/Container/Parameters.h

Modification to Parameters.h to include stdio.h

Change #2 with diff file ISSM-12222-12223.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Parameters.h

Export determination: 6.

Rationale: Modification to Parameters.h to include stdio.h M /issm/trunk-jpl/externalpackages/cccl/issm/cccl Take out a lot of miscellaneous verbose

Change #3 with diff file ISSM-12223-12224.diff:

Function name:

M /issm/trunk-jpl/externalpackages/cccl/issm/cccl

Export determination: 6.

Rationale: Take out a lot of miscellaneous verbose M /issm/trunk-jpl/externalpackages/windows/InstallInstructions.txt Better instructions on cron and ssmtp

Change #4 with diff file ISSM-12224-12225.diff:

Function name:

M /issm/trunk-jpl/externalpackages/windows/InstallInstructions.txt

Export determination: 6.

Rationale: Better instructions on cron and ssmtp M /issm/trunk-jpl/src/c/Container/Observations.cpp M /issm/trunk-jpl/src/c/Container/Observations.h M /issm/trunk-jpl/src/c/matlab/io/FetchMatlabData.cpp M /issm/trunk-jpl/src/c/matlab/io/OptionParse.cpp M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.cpp M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.h Better Quadtree with new fields (box center and length)

Change #5 with diff file ISSM-12225-12226.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Observations.cpp M /issm/trunk-jpl/src/c/Container/Observations.h

M /issm/trunk-jpl/src/c/matlab/io/FetchMatlabData.cpp M /issm/trunk-jpl/src/c/matlab/io/OptionParse.cpp
M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.cpp M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.h
Export determination: 6.
Rationale: Better Quadtree with new fields (box center and length) M /issm/trunk-jpl/src/c/Container/Observations.cpp M /issm/trunk-jpl/src/c/Container/Observations.h
M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cpp M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.h
M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.h Added boxlength option

Change #6 with diff file ISSM-12226-12227.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Observations.cpp M /issm/trunk-jpl/src/c/Container/Observations.h
M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cpp M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.h
M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.h

Export determination: 6.

Rationale: Added boxlength option M /issm/trunk-jpl/configs/config-arm-linux.sh
M /issm/trunk-jpl/configure.ac M /issm/trunk-jpl/externalpackages/android/android-sdk/install.sh SDK Install script now pushes issm.exe to the device, changes permissions and runs the executable.

Change #7 with diff file ISSM-12227-12228.diff:

Function name:

M /issm/trunk-jpl/configs/config-arm-linux.sh M /issm/trunk-jpl/configure.ac
M /issm/trunk-jpl/externalpackages/android/android-sdk/install.sh

Export determination: 6.

Rationale: SDK Install script now pushes issm.exe to the device, changes permissions and runs the executable. M /issm/trunk-jpl/src/c/Container/Observations.cpp
Removed ambiguity in call to log(2)

Change #8 with diff file ISSM-12228-12229.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Observations.cpp

Export determination: 6.

Rationale: Removed ambiguity in call to log(2) M /issm/trunk-jpl/src/c/Container/Observations.cpp
M /issm/trunk-jpl/src/c/Container/Observations.h M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cpp
M /issm/trunk-jpl/src/c/objects/Bamg/BamgQuadtree.h M /issm/trunk-jpl/src/c/objects/Kriging/Observation.h
M /issm/trunk-jpl/src/c/objects/Kriging/Observation.h M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.h
M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.h Added 2 options: boxlength and searchrange

Change #9 with diff file ISSM-12229-12230.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Observations.cpp M /issm/trunk-jpl/src/c/Container/Observations.h
M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cpp M /issm/trunk-jpl/src/c/objects/Bamg/BamgQuadtree.h
M /issm/trunk-jpl/src/c/objects/Kriging/Observation.cpp M /issm/trunk-jpl/src/c/objects/Kriging/Observation.h
M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.cpp M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.h
Export determination: 6.

Rationale: Added 2 options: boxlength and searchrange M /issm/trunk-jpl/src/c/Container/Observations.cpp
M /issm/trunk-jpl/src/c/Container/Observations.h M /issm/trunk-jpl/src/c/Makefile.am
M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cpp A /issm/trunk-jpl/src/c/objects/Kriging/PowerVar
A /issm/trunk-jpl/src/c/objects/Kriging/PowerVariogram.h M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree
M /issm/trunk-jpl/src/c/objects/objects.h Added power variogram

Change #10 with diff file ISSM-12230-12231.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Observations.cpp M /issm/trunk-jpl/src/c/Container/Observations.h
M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cpp
A /issm/trunk-jpl/src/c/objects/Kriging/PowerVariogram.cpp A /issm/trunk-
jpl/src/c/objects/Kriging/PowerVariogram.h M /issm/trunk-jpl/src/c/objects/Kriging/Quadtree.cpp
M /issm/trunk-jpl/src/c/objects/objects.h

Export determination: 6.

Rationale: Added power variogram M /issm/trunk-jpl/src/c/Container/Observations.cpp
M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cpp M /issm/trunk-jpl/src/c/modules/Krigingx/Kriging
M /issm/trunk-jpl/src/c/modules/Shp2Kmlx/Shp2Kmlx.h Added multithread-
ing (VERY efficient for Kriging)

Change #11 with diff file ISSM-12231-12232.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Observations.cpp M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cp
M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.h M /issm/trunk-jpl/src/c/modules/Shp2Kmlx/Shp2Kmlx

Export determination: 6.

Rationale: Added multithreading (VERY efficient for Kriging) M /issm/trunk-
jpl/src/c/modules/Krigingx/Krigingx.cpp M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.h
minor

Change #12 with diff file ISSM-12232-12233.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cpp M /issm/trunk-jpl/src/c/modules/Krigingx/Kriging

Export determination: 6.

Rationale: minor A /issm/trunk-jpl/externalpackages/python/install-linux64-
astrid.sh A /issm/trunk-jpl/externalpackages/python/install-macosx.sh D /issm/trunk-
jpl/externalpackages/python/install.sh frameworks not needed for linux64 plat-
forms.

Change #13 with diff file ISSM-12233-12234.diff:

Function name:

A /issm/trunk-jpl/externalpackages/python/install-linux64-astrid.sh A /issm/trunk-
jpl/externalpackages/python/install-macosx.sh D /issm/trunk-jpl/externalpackages/python/install.sh

Export determination: 6.

Rationale: frameworks not needed for linux64 platforms. M /issm/trunk-jpl/etc/environment.sh
M /issm/trunk-jpl/etc/environment_variables.sh A /issm/trunk-jpl/externalpackages/git
A /issm/trunk-jpl/externalpackages/git/install.sh Added git external package

Change #14 with diff file ISSM-12234-12235.diff:

Function name:

M /issm/trunk-jpl/etc/environment.sh M /issm/trunk-jpl/etc/environment_variables.sh

A /issm/trunk-jpl/externalpackages/git A /issm/trunk-jpl/externalpackages/git/install.sh

Export determination: 6.

Rationale: Added git external package A /issm/trunk-jpl/externalpackages/blas

A /issm/trunk-jpl/externalpackages/blas/install.sh New Blas external package

Change #15 with diff file ISSM-12235-12236.diff:

Function name:

A /issm/trunk-jpl/externalpackages/blas A /issm/trunk-jpl/externalpackages/blas/install.sh

Export determination: 6.

Rationale: New Blas external package M /issm/trunk-jpl/externalpackages/blas/install.sh

Symlinks needed by scipy

Change #16 with diff file ISSM-12236-12237.diff:

Function name:

M /issm/trunk-jpl/externalpackages/blas/install.sh

Export determination: 6.

Rationale: Symlinks needed by scipy A /issm/trunk-jpl/externalpackages/lapack

A /issm/trunk-jpl/externalpackages/lapack/install.sh New lapack external pack-

age

Change #17 with diff file ISSM-12237-12238.diff:

Function name:

A /issm/trunk-jpl/externalpackages/lapack A /issm/trunk-jpl/externalpackages/lapack/install.sh

Export determination: 6.

Rationale: New lapack external package A /issm/trunk-jpl/externalpackages/blas/configs

A /issm/trunk-jpl/externalpackages/blas/configs/linux64 A /issm/trunk-jpl/externalpackages/blas/configs/linux64

A /issm/trunk-jpl/externalpackages/blas/install-linux64.sh D /issm/trunk-jpl/externalpackages/blas/install.sh

Added -fPIC flag to linux64 compile

Change #18 with diff file ISSM-12238-12239.diff:

Function name:

A /issm/trunk-jpl/externalpackages/blas/configs A /issm/trunk-jpl/externalpackages/blas/configs/linux64

A /issm/trunk-jpl/externalpackages/blas/configs/linux64/make.inc A /issm/trunk-

jpl/externalpackages/blas/install-linux64.sh D /issm/trunk-jpl/externalpackages/blas/install.sh

Export determination: 6.

Rationale: Added -fPIC flag to linux64 compile A /issm/trunk-jpl/externalpackages/lapack/configs

A /issm/trunk-jpl/externalpackages/lapack/configs/linux64 A /issm/trunk-jpl/externalpackages/lapack/configs/linux64

A /issm/trunk-jpl/externalpackages/lapack/install-linux64.sh D /issm/trunk-

jpl/externalpackages/lapack/install.sh Added -fPIC flag to linux64 compile

Change #19 with diff file ISSM-12239-12240.diff:

Function name:

A /issm/trunk-jpl/externalpackages/lapack/configs A /issm/trunk-jpl/externalpackages/lapack/configs/linux64

A /issm/trunk-jpl/externalpackages/lapack/configs/linux64/make.inc A /issm/trunk-jpl/externalpackages/lapack/install-linux64.sh D /issm/trunk-jpl/externalpackages/lapack/install.sh
Export determination: 6.
Rationale: Added -fPIC flag to linux64 compile A /issm/trunk-jpl/externalpackages/scipy/install-linux64.sh Added linux64 compile file