

ARPEGE MEMORANDUM

From: GCO
Date: Apr 10, 2018
Subject: New cycle CY46

A new cycle CY46 has been created. This a common cycle with ECMWF. The different contributions for this cycle are described in the following pages.

Contributors:

ABDENOUR Ambar	abdenoura_CY45T1_lam_phasing abdenoura_CY45T1_suescal_refact
EL KHATIB Ryad	khatib_CY45T1_r1.01%forv2 khatib_CY45T1_r1.02%bator khatib_CY45T1_r1.03%oofpos khatib_CY45T1_r1.04%suescal
GCO	gco_CY45T1_r1 gco_CY45T1_r1.03%fixes gco_CY45_r1oopsbf
MARGUINAUD Philippe	marguina_CY45T1_r1_grib_api marguina_CY45T1_r1_grib_api_bis
MARY Alexandre	mary_CY45T1_mocuba
PAYAN Christophe	payan_CY45T1_r1v04_goes16catchup+gompatch
SAEZ Patrick	saez_CY45T1_DDHflex
SALMOND Deborah & Al	gco_CY45_r1oops
SEITY Yann	seity_CY45T1_bfNSV
WILHELMSSON Tomas	gco_CY45T1_r1.02%fixes_from_ecmwf
YESSAD Karim	yessad_CY45T1_r1V01cor yessad_CY45T1_r1V02cor yessad_CY45T1_r1V03cor yessad_CY45T1_r1V04cor

ABDENOUR Ambar

Doc:

Phasing of LAM routines.

Projects: aladin, arpifs

Git branch: abdenoura_CY45T1_lam_phasing

Modified:

aladin/var	ecosjr.F90, ecvargpad.F90, ecvargptl.F90, einflation_mean.F90, einflation_pert.F90, ejgnrsg.F90, ejgnrsggad.F90, ejgnrsggi.F90, ejgnrsggiad.F90, ewreini.F90, sueinfce.F90, suescal.F90
aladin/wavelet	suejbwalloc.F90
arpifs/dfi	dfi2.F90
arpifs/setup	su0yomb.F90
arpifs/utility	gpnorm_gfl.F90

Doc:

SUESCAL refactored and new routines SUESCAL_JB and SUESCAL_NORMS splited out from it, with some modifications in ESCALJGS in order to make it coherent with new SUESCAL.

Projects: aladin, arpifs

Git branch: abdenoura_CY45T1_suescal_refact

Added:

aladin/var	suescal_jb.F90, suescal_norms.F90
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Modified:

aladin/var	escaljgs.F90, suescal.F90
arpifs/obs_preproc	sugoms.F90
arpifs/setup	su0yomb.F90
arpifs/var	suscal_norms.F90

EL KHATIB Ryad

Doc:

- update interfaces of MPL_WAIT
- replace YOMGRIB by YOM_GRIB_CODES where relevent
- pass LDSLHDHEAT in argument to elascaw.F90
- update deallocations conditions in deello.F90 (pointers changed to allocatable arrays)
- fix arguments of call to HOP in allobs_oper_mod.F90
- dfi : make YDTCV optional arguments
- isocom.F removed contained setparm, not used, and conflicting with the new projet crm/
- iniitemloc.F90 : deallocation of data_next protected by the cpp macro ODB_API_SUPPORT
- aeolus : remove from compilation list aeolus_l2bp_setup_ec.F90 (its call is commented) and aeolus_l2bp_unsetup_ec.F90 (never called).
- temporary : workaround against the MCF issue, sensitive on PC.
- bugfixes:
sufpc.F90 : set LOCEDELAY=LECMWF;
get_spp_conf.F90, suspecg.F90 : fix minor bounds violations.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aeolus, aladin, arpifs, etrans, mpa, obstat, utilities

Git branch: khatib_CY45T1_r1.01%forv2

Modified:

aeolus/Scripts	arpifs_excluded_files
aladin/interpol	elascaw.F90, eslextpol.F90
aladin/parallel	egathereigmd.F90
aladin/setup	suemp.F90
aladin/transform	etransdir_jb.F90, etransdir_jbad.F90, etransinv_jb.F90, etransinv_jbad.F90
aladin/utility	create_pert.F90, deello.F90
aladin/var	ediagb_psot.F90, suejbcor.F90, suejbcosu.F90, suejbstd.F90
aladin/wavelet	suejbwav_read_siglab.F90
arpifs/dfi	dfi.F90, dfi2.F90, dfi2mod.F90, dfi3.F90
arpifs/fullpos	sufpc.F90
arpifs/module	iospeca_mod.F90
arpifs/oops	allobs_oper_mod.F90
arpifs/setup	get_spp_conf.F90, suspecg.F90

etrans/module	edist_spec_control_mod.F90, egath_spec_control_mod.F90
mpa/chem/internals	isocom.F
obstat/src	iniitemloc.F90
utilities/bcov_lam/module	reduction_mod.F90
utilities/bcov_lam/others	subiaspec.F90, sufespeca.F90, sufespecg1.F90

Doc:

Prune grib support from BATOR.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: odb

Git branch: khatib_CY45T1_r1.02%bator

Modified:

odb/pandor/module	bator_decodgrib_mod.F90, bator_init_mod.F90, bator_lectures_mod.F90, bator_module.F90
odb/pandor/namelist	bator_namelist.nam.h
odb/tools	Bator.F90

Doc:

** Support in fullpos for a change of horizontal resolution inside an application (for OOPS).*

** "3 little pigs" bugfix (sudimf1.F90 for LVOR, wrsfp.F90 for spectral outputs by fullpos, transinvh.F90 for TL).*

** NSUPERSEDE as optional argument to sugeometry.F90 (for OOPS).*

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs

Git branch: khatib_CY45T1_r1.03%oofpos

Modified:

aladin/c9xx	ebicli.F90
aladin/setup	suedim.F90, suegem_naml.F90
arpifs/dia	fpsnorm.F90
arpifs/fullpos	cpvpospr.F90, fpcorphy.F90, hpos.F90, subfpos.F90, sufpggeometry.F90, sufpmodegeo.F90, sufptr2.F90, suvpos.F90, wrsfp.F90
arpifs/module	fullpos_oops_mod.F90, yomafn.F90, yomfpggeometry.F90
arpifs/namelist	namafn.nam.h

arpifs/oops	fields_io_mod.F90
arpifs/setup	suafn1.F90, suafn2.F90, suafn3.F90, sudim.F90, sudimf1.F90, sufpilmod.F90, sugem1a.F90, sugem_naml.F90, sugeometry.F90, suvv1.F90
arpifs/transform	transinvh.F90

Doc:

Bugfix : spectral_fields need specific assignment (=).

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin

Git branch: khatib_CY45T1_r1.04%suescal

Modified:

aladin/var	suescal_jb.F90, suescal_norms.F90
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GCO

Doc:

Miscellaneous phasing & compilation issues fixes.

** aladin/interpol/elascaw.F90:*

Quick and dirty fix: replace argument YDDYN by LDSLHDHEAT, to make calling interface of ELASCAW compliant with calls to this routine in "arpifs".

** aladin/sinvect/echnorm.F90*

aladin/sinvect/erdtllcz.F90

aladin/sinvect/esptrlcz.F90

aladin/sinvect/ewrtllcz.F90

aladin/sinvect/ewrtsv.F90

aladin/var/ediagb_psot.F90

aladin/var/ewreini.F90

aladin/var/suescal.F90:

Replace "USE CONTROL_VECTORS" by "USE CONTROL_VECTORS_MOD".

** arpifs/control/allfpos.F90*

arpifs/fullpos/fpmodxfu.F90:

Rollback concerning the first argument of FPMODXFU: it has been set again to YDXFU. This is needed by changes included in cycle CY45T1.

** arpifs/control/cnt1.F90:*

Remove LECFIO.

** arpifs/control/cnt4.F90:*

Replace NCUFNR by YDFIELDS%YMCUF%NCUFNR.

** arpifs/control/cprep3.F90:*

Remove NCUFNR.

** arpifs/interpol/slcomm.F90:*

Remove argument ZDUM in call to MPL_WAIT (line 373).

** arpifs/module/field_definitions.F90:*

Remove double declaration of attribute "compo_3d_first" in definition of type "type_field_id".

** arpifs/module/fullpos_oops_mod.F90:*

1) Remove NCUFNR.

2) Set intent of argument YDFIELDS to INOUT in subroutine FP_PROCESS.

** arpifs/module/gom_mod.F90:*

1) Set parameter NGOMVAR to 74.

2) Set array definition of parameter GID as sequence from 1 to 74.

** arpifs/obs_preproc/decis.F90:*

Remove argument YDEPHY in calls to SCAQC.

** arpifs/setup/su0yomb.F90:*

Add missing argument YGBH in call to SU_GRIB_API (line 629).

** arpifs/setup/sugfl2.F90:*

Fix ASSOCIATE statement.

** arpifs/setup/suvfe_cpsplines.F90:*

Add DPOL & EVPOL in "USE SUVFE_HLP" statement, and remove declaration of function EVPOL (links edition issue).

** arpifs/setup/suvfe_matrix.F90:*

Add EVPOL in "USE SUVFE_HLP" statement, and remove declaration of function EVPOL (links edition issue).

* arpifs/var/cvar2.F90:

Replace YDGMV by YDFIELDS%YRGMV in call to SBSBGS (line 88).

* arpifs/module/gom_plus.F90 :

Protect some code changes (introduced in CY45T1_r1.01) by key LECMWF.

Projects: aladin, arpifs

Git branch: gco_CY45T1_r1

Modified:

aladin/interpol	elascaw.F90
aladin/sinvect	echnorm.F90, erdtllcz.F90, esptrlcz.F90, ewrtllcz.F90, ewrtsv.F90
aladin/var	ediagb_psot.F90, ewreini.F90, suescal.F90
arpifs/control	allfpos.F90, cnt1.F90, cnt4.F90, cprep3.F90
arpifs/fullpos	fpmmodx.f90
arpifs/interpol	slcomm.F90
arpifs/module	field_definitions.F90, fullpos_oops_mod.F90, gom_mod.F90, gom_plus.F90
arpifs/obs_preproc	decis.F90
arpifs/setup	su0yomb.F90, sugfl2.F90, suvfe_cpsplines.F90, suvfe_matrix.F90
arpifs/var	cvar2.F90

Doc:

* arpifs/module/yomtraj.F90:

Set MKINDTRAJ to JPRM instead of JPRB.

* ifsaux/fa/faigra.F90:

Go back to version CY45T1.

Projects: arpifs, ifsaux

Git branch: gco_CY45T1_r1.03%fixes

Modified:

arpifs/module	yomtraj.F90
ifsaux/fa	faigra.F90

Doc:

Fix miscellaneous compilation & norm checker issues.

** aeolus/external/aeolus_l2bp_odb_transfers.F90
aeolus/external/aeolus_l2bp_primary_ec.F90:*

Add line: USE PARKIND1, ONLY : JPIM, JPRB

** arpifs/cma2odb/ctxgetdb.F90:*

Remove line: #include "intcolddb.intfb.h"

** arpifs/cma2odb/distribtype_ssmi_rain.F90:*

Remove line: #include "abortdb.intfb.h"

** arpifs/cma2odb/distribute_odb.F90:*

*Remove lines: #include "setactivedb.intfb.h"
#include "swapoutdb.intfb.h"*

** arpifs/cma2odb/matchupdb.F90:*

Remove line: #include "storedb.intfb.h"

** arpifs/cma2odb/obs_sort_odb.F90:*

Remove line: #include "print_split_odb.intfb.h"

** arpifs/cma2odb/revmatchupdb.F90:*

*Remove lines: #include "swapoutdb.intfb.h"
#include "storedb.intfb.h"
#include "addpoolsdb.intfb.h"*

** arpifs/cma2odb/shuffle_odb.F90:*

Remove line: #include "wtfunc_obsort.intfb.h"

** arpifs/cma2odb/store_enda.F90:*

Remove line: #include "abortdb.intfb.h"

** arpifs/cma2odb/update_ddr_odb.F90:*

Remove lines: #include "getdb.intfb.h"

#include "abortdb.intfb.h"

#include "putdb.intfb.h"

** arpifs/cma2odb/xchangedatadistdb.F90:*

Remove line: #include "putdb.intfb.h"

** arpifs/gbrad/gbrad_setup.F90:*

Remove line: #include "abor1.intfb.h"

** arpifs/module/fields_base_mod.F90:*

Remove line: #include "surip0.intfb.h"

** arpifs/module/model_mod.F90:*

Remove lines: #include "posnam.intfb.h"

#include "sufdb.intfb.h"

#include "su_grib_api.intfb.h"

** arpifs/module/radiation_interface.F90:*

Turn name of variable "cloud" to "cldtype", to avoid any conflict with subroutine CLOUD during checking mandatory interface blocks, in statements such as CALL CLOUD%... .

** arpifs/obs_preproc/pertobs.F90:*

Remove lines: #include "getdb.intfb.h"

#include "putdb.intfb.h"

#include "abortdb.intfb.h"

** arpifs/obs_preproc/readoba.F90:*

*Remove lines: #include "abortdb.intfb.h"
#include "closedb.intfb.h"*

** arpifs/obs_preproc/suobarea.F90:*

Remove line: #include "abortdb.intfb.h"

** arpifs/oops/allobs_error_mod.F90:*

Remove line: #include "abor1.intfb.h"

** arpifs/oops/error_covariance_param_mod.F90:*

Remove line: #include "abor1.intfb.h"

** arpifs/oops/ifs_init.F90:*

Uncomment usage of CPP macro WITH_FCKIT.

** arpifs/oops/stepotl_traj_oops.F90:*

*Remove lines: #include "opdis.intfb.h"
#include "suaersn.intfb.h"
#include "suclopn.intfb.h"
#include "suswn.intfb.h"*

** arpifs/op_obs/hretr_rad.F90:*

Remove line: #include "abortdb.intfb.h"

** arpifs/op_obs/obsop_conv.F90:*

Remove line: #include "abortdb.intfb.h"

** arpifs/phys_ec/accnemoflux_layer.F90:*

Remove line #include "accnemoflux.intfb.h"

** arpifs/programs/master.F90:*

Protect usage of FCKIT stuff with CPP macro WITH_FCKIT.

** arpifs/setup/su0yoma.F90:*

1) Protect usage of FCKIT stuff with CPP macro WITH_FCKIT.

2) Remove line: #include "suarg_datestuff.intfb.h" .

** arpifs/setup/suarg_datestuff.F90:*

Remove lines: #include "posnam.intfb.h"

#include "suoph0.intfb.h"

** arpifs/setup/supp.F90:*

1) Fix duplicated USE of module YOM_GRIB_CODES.

2) Remove line: #include "abor1.intfb.h" .

** arpifs/var/monitoring_summary.F90:*

Remove line: #include "abortdb.intfb.h"

** arpifs/var/writeoba.F90:*

Remove lines: #include "getdb.intfb.h"

#include "putdb.intfb.h"

#include "abortdb.intfb.h"

** ifsaux/support/abor1.F90:*

Protect usage of FCKIT stuff with CPP macro WITH_FCKIT.

** satrad/module/mod_cnrm_mw_atlas.F90:*

Uncomment this block:

```
!#ifdef _RTTOV_HDF
! USE hdf5
! USE rttov_hdf_mod, ONLY : &
! open_hdf, &
! close_hdf, &
! is_hdf_open, &
! is_hdf_64bit_reals
!#endif
```

* satrad/rttov/coef_io/rttov_read_coefs.F90:

Add line: #include "rttov_dealloc_coefs.intfb.h"

* arpifs/module/yomacv.F90

arpifs/setup/sudyna.F90:

Good version of this routine, previous version was not the good one!

* arpifs/oops/stepoad_oops.F90

arpifs/oops/stepotl_oops.F90:

Remove line: #include "opdis.intfb.h"

* arpifs/oops/stepotl_traj_oops.F90:

Remove lines: #include "spnorm.intfb.h"

#include "gpnorm_gmv.intfb.h"

#include "gpnorm_gfl.intfb.h"

* arpifs/setup/suacv.F90:

1) Replace YOMGRIB by YOM_GRIB_CODES.

2) Remove line: #include "abor1.intfb.h"

* arpifs/var/suineplap.F90

arpifs/var/suprfep.F90:

New routines, forgotten in previous version.

* ifsobs/src/dbase/odb2_dbase_mod.F90
ifsobs/src/dbase/odbserver_dbase_mod.F90
ifsobs/tests/test_dbase_performance.F90
ifsobs/tests/test_dbase_view.F90
ifsobs/tests/test_overhead_odb2.F90
ifsobs/tests/test_parallel_distribute.F90:

Protect content of module under CPP key ODB_API_SUPPORT .

Projects: aeolus, arpifs, ifsaux, ifsobs, satrad

Git branch: gco_CY45_r1oopsbf

Added:

arpifs/var suineplap.F90, suprfep.F90

Modified:

aeolus/external aeolus_l2bp_odb_transfers.F90, aeolus_l2bp_primary_ec.F90

arpifs/cma2odb ctxgetdb.F90, distribtype_ssmi_rain.F90, distribute_odb.F90, matchupdb.F90, obs_sort_odb.F90,

revmatchupdb.F90, shuffle_odb.F90, store_enda.F90, update_ddr_odb.F90, xchangedatadistdb.F90

arpifs/gbrad gbrad_setup.F90

arpifs/module fields_base_mod.F90, model_mod.F90, radiation_interface.F90, yomacv.F90

arpifs/obs_preproc pertobs.F90, readoba.F90, suobarea.F90

arpifs/oops allobs_error_mod.F90, error_covariance_param_mod.F90, ifs_init.F90, stepoad_oops.F90, stepotl_oops.F90,
stepotl_traj_oops.F90

arpifs/op_obs hretr_rad.F90, obsop_conv.F90

arpifs/phys_ec accnemoflux_layer.F90

arpifs/programs master.F90

arpifs/setup su0yoma.F90, suacv.F90, suarg_datestuff.F90, sudyna.F90, supp.F90

arpifs/var monitoring_summary.F90, writeoba.F90

ifsaux/support abor1.F90

ifsobs/src/dbase odb2_dbase_mod.F90, odbserver_dbase_mod.F90

ifsobs/tests test_dbase_performance.F90, test_dbase_view.F90, test_overhead_odb2.F90, test_parallel_distribute.F90

satrad/module mod_cnrm_mw_atlas.F90

satrad/rttov/coef_io rttov_read_coefs.F90

MARGUINAUD Philippe

Doc:

Fix big in grib_api; use eccodes (report from 43t2_op).

NO NUMERICAL IMPACT IS EXPECTED.

Projects: ifsaux

Git branch: marguina_CY45T1_r1_grib_api

Added:

ifsaux/fa grib_get_api_version.c

Modified:

ifsaux/fa facgrm.F90, fadgra.F90, falgra.h

Doc:

Disable GRIB2 LAM templates loading; avoid warnings from grib_api.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: ifsaux

Git branch: marguina_CY45T1_r1_grib_api_bis

Modified:

ifsaux/fa faigra.F90

MARY Alexandre

Doc:

The tools ciboulette.py and checkpack.py, that wrap Mitraillette tests, are now integrated into the Git repository, in the project "validation", in a subdirectory "mocuba", along subdirectory "mitraillette" itself.

It contains a directory "bin" in which is to be found the command-line tools, and a Python package itself named "mocuba".

NB: MOCUBA stands for "MOdel Configurations Unit-tests BenchmArking".

NO NUMERICAL IMPACT IS EXPECTED.

Projects: validation

Git branch: mary_CY45T1_mocuba

Added:

validation/mocuba	__install_bull, checkpack.py, ciboulette.py, mitraillette_install.py, mitraillette_runjobs.py, __init__.py, config.py, __init__.py, ciboulette_tmpl.html, __init__.py, __init__.py, jobs_sets.cfg, util.py, __init__.py, bench.py, jobs.py, slurm.py
validation/mocuba/bin	checkpack.py, ciboulette.py, mitraillette_install.py, mitraillette_runjobs.py
validation/mocuba/mocuba	__init__.py, config.py, __init__.py, ciboulette_tmpl.html, __init__.py, __init__.py, jobs_sets.cfg, util.py, __init__.py, bench.py, jobs.py, slurm.py
validation/mocuba/mocuba/graphical_interfaces	__init__.py, ciboulette_tmpl.html
validation/mocuba/mocuba/jobs_generators	__init__.py, __init__.py, jobs_sets.cfg
validation/mocuba/mocuba/jobs_generators/mitraillette	__init__.py, jobs_sets.cfg
validation/mocuba/mocuba/workload_managers	__init__.py, bench.py, jobs.py, slurm.py

PAYAN Christophe

Doc:

- 1- ECMWF gom_plus patch about the handling of gom_missing_value in the slant path code (from AJGBD)
- 2- mf_blacklist catchup (from 42_op2, branch payan_CY42_op2v09_goesr-qinofc) about the handling of NPP/GOES-16(R) qi_nofc in mf_blacklist.b

EXPECTED IMPACT:

- 1- Avoids a runtime error in slant path code (used only at ECMWF)
- 2- When AMVs from NPP/GOES-16(R) will be assimilated.

Projects: arpifs, blacklist

Git branch: payan_CY45T1_r1v04_goes16catchup+gompatch

Modified:

arpifs/module	gom_plus.F90
blacklist	mf_blacklist.b

SAEZ Patrick

Doc:

Put unexpected printings under NPRINTLEV test in aplpar.F90 when "DDH flexibles" are activated.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs

Git branch: saez_CY45T1_DDHflex

Modified:

arpifs/phys_dmn

aplpar.F90

SALMOND Deborah & AI

Doc:

- 1) Cycle CY45R1-OOPS .
- 2) Add project "crm": super-parametrization of cloud resolving model.
- 3) Final updates from ECMWF.

Projects: aeolus, algor, arpifs, blacklist, crm, ifsaux, ifsobs, obstat, odb, oopsifs, radiation, satrad, scat, surf, trans

Git branch: gco_CY45_r1oops

Deleted:

aeolus/LiteTestData	Makefile.aeolus, Objects.txt, TestLiteDataModule.F90, litedatamodule.F90
aeolus/Scripts	RemoveObsoleteDirs
aeolus/Test/Application_Client_Example	JobOrder.AeolusL2BP.xml
aeolus/Test/BUFR_file_handling	JobOrder.regex_test_l2b_ee2bufr.xml, JobOrder.test_l2b_ee2bufr.xml
aeolus/Test/LiteTestData	Makefile.aeolus
aeolus/Test/main	JobOrder.test201.xml, JobOrder.test401.xml
aeolus/Test/src_ecmwf	Makefile.aeolus
aeolus/ThinLayer	JobOrder.5.xml, JobOrder.90001.xml, Processor_Configuration_IPF2B_L1B_L2B.xml, TaskTable.AE_L1B_L2B_WIND.xml, WorkstationConfigurationFile.xml, order.5.xml
aeolus/src_ecmwf	Makefile.aeolus, Objects.txt, TestAuxPreproc_ecmwf_Module.txt, auxpreproc_ecmwf_module.F90
aeolus/support	parkind1_dummy.F90
aeolus/templates	JobOrder.template_l2b_processor_and_l2b_ee2bufr_and_repgen.xml, JobOrder.template_l2b_processor_and_repgen.xml, JobOrder.template_l2b_processor_only.xml
arpifs/dia	ppclose.F90, ppflush.F90, ppopen.F90, ppstat.F90, wrspec.F90
arpifs/fullpos	fpiniphy.F90, gridfpos_savefu.F90, sufp_ctl.F90, sufpcuf.F90
arpifs/gbrad	gbrad_get.F90, gbrad_get_ad.F90, gbrad_get_tl.F90, gbrad_put.F90, gbrad_put_tl.F90
arpifs/module	crm_inout.F90, crmdims.F90, yoecmip5.F90, yomgpsk.F90, yomio.F90, yomts.F90
arpifs/namelist	namts.nam.h
arpifs/oops	cpg_drv_ad_oops.F90, cpg_drv_oops.F90, cpg_drv_tl_oops.F90, cpplag_oops.F90, ec_phys_drv_ad_oops.F90, ec_phys_drv_oops.F90, ec_phys_drv_tl_oops.F90, fields_write.F90, gp_model_ad_oops.F90, gp_model_heap_oops.F90, gp_model_oops.F90, gp_model_tl_oops.F90
arpifs/parallel	gathercosto.F90
arpifs/raingg	raingg_get.F90, raingg_get_ad.F90, raingg_get_tl.F90, raingg_put.F90, raingg_put_tl.F90
arpifs/utility	dealspa.F90, prtjo.F90, sualspa1.F90

ifsaux/utilities	ec_cray_meminfo.F90
odb/bufr2odb	b2o_access.F90, b2o_convert_iscat.F90, b2o_handle.F90, b2o_utility.F90
odb/include	compat_fill_mdb_col_array_members.h, compat_fill_mdb_members.h, compat_fill_mdb_table_array_members.h, compat_mdb_col_array_members.h, compat_mdb_members.h, compat_mdb_table_array_members.h
odb/interface	abortdb.h, addpoolsdb.h, addviewdb.h, allocate_msg.h, check_duplicates_odb.h, check_namelist.h, ckeysort.h, closedb.h, copie_radsta.h, crack_buf_r_hdr.h, create_iomap.h, ctxgetdb.h, ctxinitdb.h, ctxputdb.h, distribtype_ssmi_rain.h, distribute_odb.h, distributedb.h, dump_namelist.h, finish_obsort.h, freemem_obsort.h, gauaw_odb.h, gen_timeslot_data.h, getatdb.h, getdb.h, globe_split_odb.h, grid_nearest.h, include_file.h, init_common.h, init_odb_tables.h, initmdb.h, intcolddb.h, iolockdb.h, loaddb.h, makedesc.h, map_reportype.h, map_ssmi_rain.h, mapdb.h, mapvardb.h, matchupdb.h, memory_usage.h, merge_clusters_odb.h, obs_sort_odb.h, opendb.h, posnam3.h, print_obs_odb.h, print_split_odb.h, print_wtfuncs.h, putatdb.h, putdb.h, read_namelist.h, ref_time.h, reprod_seqno.h, revmatchupdb.h, setactivedb.h, setup_obsort.h, shuffle.h, shuffle_odb.h, shuffle_rest.h, shuffledb.h, sort_prepare_odb.h, store_enda.h, storedb.h, string_setparam_obsort.h, swapoutdb.h, update_desc.h, update_obsdb.h, updcad2.h, wtfunc.h, wtfunc_obsort.h, xchangedatadb.h, xchangedatadistdb.h
odb/lib	Odb2Odb1.cc, mpi_wrapper.F90, odb_wrapper.F90
odb/module	dbase_factory_mod.F90, dbase_mod.F90, dbase_view_mod.F90, iodist.F90
odb/scripts	generate_compat_files.py
odb/tools	Odb2Odb1Main.cc
satrad/module	rttov_hdf_sskin_io.F90
satrad/programs	example_aer_fwd.F90, rttov_mie_params.F90, rttov_mie_params_aer.F90, rttov_mie_params_cld.F90, test_weighting_fn_dev.F90, us76_to_hdf5.F90
satrad/rttov/coef_io	rttov_q2v.F90, rttov_v2q.F90
satrad/rttov/emis_atlas	rttov_atlas_setup.F90, rttov_deallocate_atlas.F90
satrad/rttov/main	rttov_baran_calc_icloptpar.F90, rttov_baran_calc_icloptpar_ad.F90, rttov_baran_calc_icloptpar_tl.F90, rttov_checkinput_ad.F90, rttov_checkinput_k.F90, rttov_checkinput_tl.F90, rttov_intex.F90, rttov_opdep_9_solar.F90, rttov_opdep_9_solar_ad.F90, rttov_opdep_9_solar_k.F90, rttov_opdep_9_solar_tl.F90, rttov_setpredictors_9_solar.F90, rttov_setpredictors_9_solar_ad.F90, rttov_setpredictors_9_solar_k.F90, rttov_setpredictors_9_solar_tl.F90
Renamed:	
aeolus/BUFR_file_handling	L1B_buf_r2ee.F90 aeolus/BUFR_file_handling/L1B_buf_r2ee.F90.disabled, L1B_ee2bufr.F90 aeolus/BUFR_file_handling/L1B_ee2bufr.F90.disabled, TestL1B_ee2bufr.F90 aeolus/BUFR_file_handling/TestL1B_ee2bufr.F90.disabled, bufr_ee_hdr.F90 aeolus/BUFR_file_handling/bufr_ee_hdr.F90.disabled, l1b_buf_rutil.F90 aeolus/BUFR_file_handling/l1b_buf_rutil.F90.disabled
aeolus/BUFR_tables	B0000000000098026002.TXT aeolus/BUFR_tables/B0000000000000026000.TXT,

aeolus/Scripts

D000000000098026002.TXT aeolus/BUFR_tables/D000000000000026000.TXT

run_L2BP.sc aeolus/Scripts/to_be_removed_run_L2BP.sc, run_L2B_ee2bufr.sc

aeolus/Scripts/to_be_removed_run_L2B_ee2bufr.sc

arpifs/adiab

larche_hlp.F90 arpifs/module/larche_hlp.F90

arpifs/module

control_vectors.F90 arpifs/module/control_vectors_mod.F90

ifsaux/module

distio_mix.F90 arpifs/cma2odb/distio_mix.F90

ifsaux/py_interface

searchgrp.F90 ifsaux/py_interface/mode_searchgrp.F90

ifsaux/utilities

ctor.F ifsaux/utilities/ctor.F90, expand21.F ifsaux/utilities/expand21.F90

odb/bufr2odb

b2o_log.F90 odb/module/b2o_log_mod.F90, b2o_table.F90 odb/module/b2o_table.F90

odb/cma2odb

abortdb.F90 arpifs/cma2odb/abortdb.F90, addpoolsdb.F90 arpifs/cma2odb/addpoolsdb.F90, addviewdb.F90
arpifs/cma2odb/addviewdb.F90, allocate_msg.F90 arpifs/cma2odb/allocate_msg.F90, array_bounds_db.F90
arpifs/cma2odb/array_bounds_db.F90, bool_setparam_obsort.F90
arpifs/cma2odb/bool_setparam_obsort.F90, buoctmap.F90 arpifs/cma2odb/buoctmap.F90,
check_duplicates_odb.F90 arpifs/cma2odb/check_duplicates_odb.F90, check_linksdb.F90
arpifs/cma2odb/check_linksdb.F90, check_namelist.F90 arpifs/cma2odb/check_namelist.F90, closedb.F90
arpifs/cma2odb/closedb.F90, context.F90 arpifs/cma2odb/context.F90, copie_radsta.F90
arpifs/cma2odb/copie_radsta.F90, crack_bufr_hdr.F90 arpifs/cma2odb/crack_bufr_hdr.F90,
create_averaged_values.F90 arpifs/cma2odb/create_averaged_values.F90,
create_averaged_values_over_angles.F90 arpifs/cma2odb/create_averaged_values_over_angles.F90,
ctxgetdb.F90 arpifs/cma2odb/ctxgetdb.F90, ctxinitdb.F90 arpifs/cma2odb/ctxinitdb.F90, ctxprint.F90
arpifs/cma2odb/ctxprint.F90, ctxputdb.F90 arpifs/cma2odb/ctxputdb.F90, distribtype_ssmi_rain.F90
arpifs/cma2odb/distribtype_ssmi_rain.F90, distribute_odb.F90 arpifs/cma2odb/distribute_odb.F90,
distributedb.F90 arpifs/cma2odb/distributedb.F90, dotransf.F90 arpifs/cma2odb/dotransf.F90,
dump_namelist.F90 arpifs/cma2odb/dump_namelist.F90, finish_obsort.F90 arpifs/cma2odb/finish_obsort.F90,
freemem_obsort.F90 arpifs/cma2odb/freemem_obsort.F90, gather4poolmask.F90
arpifs/cma2odb/gather4poolmask.F90, gen_timeslot_data.F90 arpifs/cma2odb/gen_timeslot_data.F90,
get_new_rs_trh_bias.F90 arpifs/cma2odb/get_new_rs_trh_bias.F90, get_rs_t_bias.F90
arpifs/cma2odb/get_rs_t_bias.F90, getactivedb.F90 arpifs/cma2odb/getactivedb.F90, getatdb.F90
arpifs/cma2odb/getatdb.F90, getdb.F90 arpifs/cma2odb/getdb.F90, getpoolsdb.F90
arpifs/cma2odb/getpoolsdb.F90, globe_split_odb.F90 arpifs/cma2odb/globe_split_odb.F90, grid_nearest.F90
arpifs/cma2odb/grid_nearest.F90, include_file.F90 arpifs/cma2odb/include_file.F90, init_common.F90
arpifs/cma2odb/init_common.F90, init_odb_tables.F90 arpifs/cma2odb/init_odb_tables.F90, init_odbtools.F90
arpifs/cma2odb/init_odbtools.F90, initmdb.F90 arpifs/cma2odb/initmdb.F90, int_setparam_obsort.F90
arpifs/cma2odb/int_setparam_obsort.F90, intarr_setparam_obsort.F90
arpifs/cma2odb/intarr_setparam_obsort.F90, intcolddb.F90 arpifs/cma2odb/intcolddb.F90, isopendb.F90
arpifs/cma2odb/isopendb.F90, loaddb.F90 arpifs/cma2odb/loaddb.F90, makedesc.F90
arpifs/cma2odb/makedesc.F90, maketimeslot_index.F90 arpifs/cma2odb/maketimeslot_index.F90,
mapdb.F90 arpifs/cma2odb/mapdb.F90, mapvardb.F90 arpifs/cma2odb/mapvardb.F90, matchupdb.F90

arpifs/cma2odb/matchupdb.F90, memory_usage.F90 arpifs/cma2odb/memory_usage.F90,
merge_clusters_odb.F90 arpifs/cma2odb/merge_clusters_odb.F90, mypoolsdb.F90
arpifs/cma2odb/mypoolsdb.F90, o2e_initlong.F90 arpifs/cma2odb/o2e_initlong.F90, obs_sort_odb.F90
arpifs/cma2odb/obs_sort_odb.F90, obsproc_init.F90 arpifs/cma2odb/obsproc_init.F90, opendir.F90
arpifs/cma2odb/opendb.F90, parconst.F90 arpifs/module/parconst.F90, posnam3.F90
arpifs/cma2odb/posnam3.F90, print_obs_odb.F90 arpifs/cma2odb/print_obs_odb.F90, print_split_odb.F90
arpifs/cma2odb/print_split_odb.F90, print_wtfuncs.F90 arpifs/cma2odb/print_wtfuncs.F90, prtarraydb.F90
arpifs/cma2odb/prtarraydb.F90, putatdb.F90 arpifs/cma2odb/putatdb.F90, putdb.F90
arpifs/cma2odb/putdb.F90, read_namelist.F90 arpifs/cma2odb/read_namelist.F90, ref_time.F90
arpifs/cma2odb/ref_time.F90, reprod_seqno.F90 arpifs/cma2odb/reprod_seqno.F90, revmatchupdb.F90
arpifs/cma2odb/revmatchupdb.F90, setactivedb.F90 arpifs/cma2odb/setactivedb.F90, setbaire.F90
arpifs/cma2odb/setbaire.F90, setblans.F90 arpifs/cma2odb/setblans.F90, setblshi.F90
arpifs/cma2odb/setblshi.F90, setblsno.F90 arpifs/cma2odb/setblsno.F90, setbpaob.F90
arpifs/cma2odb/setbpaob.F90, setbsato.F90 arpifs/cma2odb/setbsato.F90, setbsats.F90
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arpifs/cma2odb/setbssme.F90, setbssmi.F90 arpifs/cma2odb/setbssmi.F90, setbsspa.F90
arpifs/cma2odb/setbsspa.F90, setbsspw.F90 arpifs/cma2odb/setbsspw.F90, setbssro3.F90
arpifs/cma2odb/setbssro3.F90, setbufr.F90 arpifs/cma2odb/setbufr.F90, setbufrd.F90
arpifs/cma2odb/setbufrd.F90, setbufrf.F90 arpifs/cma2odb/setbufrf.F90, setbuppa.F90
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arpifs/cma2odb/srgevent.F90, store_enda.F90 arpifs/cma2odb/store_enda.F90, storedb.F90
arpifs/cma2odb/storedb.F90, string_setparam_obsort.F90 arpifs/cma2odb/string_setparam_obsort.F90,
subuoctp.F90 arpifs/cma2odb/subuoctp.F90, suinout.F90 arpifs/cma2odb/suinout.F90, sunumc1.F90
arpifs/cma2odb/sunumc1.F90, swapoutdb.F90 arpifs/cma2odb/swapoutdb.F90, syncdb.F90
arpifs/cma2odb/syncdb.F90, tslotdb.F90 arpifs/cma2odb/tslotdb.F90, tslotindex.F90
arpifs/cma2odb/tslotindex.F90, unmapdb.F90 arpifs/cma2odb/unmapdb.F90, unsetpoolmaskdb.F90
arpifs/cma2odb/unsetpoolmaskdb.F90, update_ddd_odb.F90 arpifs/cma2odb/update_ddd_odb.F90,
update_desc.F90 arpifs/cma2odb/update_desc.F90, update_obsdb.F90 arpifs/cma2odb/update_obsdb.F90,
updcal2.F90 arpifs/cma2odb/updcal2.F90, wtfunc.F90 arpifs/cma2odb/wtfunc.F90, wtfunc_obsort.F90
arpifs/cma2odb/wtfunc_obsort.F90, xchangedatadb.F90 arpifs/cma2odb/xchangedatadb.F90,
xchangedatadistdb.F90 arpifs/cma2odb/xchangedatadistdb.F90, yomper.F90 arpifs/cma2odb/yomper.F90,
yomstdin.F90 arpifs/module/yomstdin.F90, yomwt.F90 arpifs/cma2odb/yomwt.F90
bool_setparam_obsort.h arpifs/common/bool_setparam_obsort.h, getactivedb.h

odb/interface

odb/module	arpifs/function/getactivedb.func.h, getpoolsdb.h arpifs/function/getpoolsdb.func.h, int_setparam_obsort.h arpifs/common/int_setparam_obsort.h, intarr_setparam_obsort.h arpifs/common/intarr_setparam_obsort.h ascii_dbase_mod.F90 ifsobs/src/dbase/ascii_dbase_mod.F90, bufr_module.F90 ifsaux/module/bufr_mod.F90, dbase_kinds_mod.F90 ifsobs/src/dbase_view/dbase_kinds_mod.F90, dbase_view_tree_mod.F90 ifsobs/src/dbase_view/dbase_view_tree_mod.F90, hash_map_mod.F90 ifsobs/src/aux/hash_map_mod.F90, ll_mod.F90 ifsobs/src/aux/ll_mod.F90, odb1_dbase_mod.F90 ifsobs/src/dbase/odb1_dbase_mod.F90, odbi.F90 odb/module/odbi_ralt.F90
satrad/module	mod_iratlas.F90 satrad/module/mod_uwiremis_atlas.F90, mod_mwatlas.F90 satrad/module/mod_mwatlas_m2.F90
Added:	
aeolus/Classification	TestConstructObs.F90
aeolus/OpticalProperties	TestOpticalPropertiesWithLIPAS.F90, convert_to_f90.py, lut_feature_detect.F90
arpifs/chem	bascoe_GS_LIQ.F90, bascoe_chem_ini.F90, bascoe_gliq.F90, bascoe_hetconst.F90, bascoe_initisp.F90, bascoe_interp2d_loc.F90, bascoe_j_interp.F90, bascoe_kpp_Fun.F90, bascoe_kpp_Integrator.F90, bascoe_kpp_Jacobian.F90, bascoe_kpp_Rates.F90, bascoe_kpp_initialize.F90, bascoe_kpp_rosenbrock.F90, bascoe_kpp_update_cifs_conc.F90, bascoe_psc_param.F90, bascoe_psc_possible.F90, bascoe_sage_number_density.F90, bascoe_tropopause.F90, bascoe_v0_kpp_initialize.F90, bascoe_v0_kpp_update_cifs_conc.F90, bascoe_wetdep.F90, bascoe_zenith_fct.F90, bascoetm5_chem_ini.F90, bascoetm5_noymass.F90, chem_bascoe.F90, chem_bascoetm5.F90, chem_n2o.F90, cifs_kpp_wlamch.F90, compo_diurnal.F90, n2o_chem_ini.F90, n2o_j_interp.F90, n2o_o1d_interp.F90, n2o_solver.F90, tm5_kpp_Fun.F90, tm5_kpp_Integrator.F90, tm5_kpp_Jacobian.F90, tm5_kpp_LinearAlgebra.F90, tm5_kpp_Rates.F90, tm5_kpp_initialize.F90, tm5_kpp_update_cifs_conc.F90, tm5_stratoloss.F90, tm5_v0_kpp_initialize.F90, tm5_v0_kpp_update_cifs_conc.F90, tm5_wetchem_point.F90
arpifs/climate	read_cmip6ghg.F90, read_cmip6sol.F90, updclie_oasis.F90
arpifs/cma2odb	unique_reportno.F90
arpifs/dia	check_phtrajt.F90, sp2gpmcuf.F90, suecfname.F90
arpifs/fullpos	fphalo.F90, fullpos_precond.F90, sufpcnt.F90, sufpfilters.F90, sufpggeometry.F90, sufpioh.F90, sufpvrt.F90
arpifs/gbrad	gbrad_wrapper.F90
arpifs/module	bascoe_kpp_Global.F90, bascoe_kpp_JacobianSP.F90, bascoe_kpp_LinearAlgebra.F90, bascoe_kpp_Parameters.F90, bascoe_module.F90, bascoetm5_module.F90, cifs_kpp_IntParam.F90, coupling.F90, cplng.F90, cplng_data_mod.F90, cplng_exchange_mod.F90, cplng_finalize_mod.F90, cplng_init_mod.F90, cplng_log_mod.F90, cplng_types_mod.F90, debug_nproma_mod.F90, error_correlations_info_mod.F90, fullpos.F90, grib_handles_mod.F90, ifs_dbase_view_mod.F90, ifsobs_schema_mod.F90, jo_table_mod.F90, par_gfl.F90, suvfe_hlp.F90, tm5_kpp_Global.F90, tm5_kpp_JacobianSP.F90, tm5_kpp_Parameters.F90, tovscv_base_mod.F90, tovscv_bgc_mod.F90, tovscv_mod.F90, type_faoph.F90, type_fpofn.F90, yoe_aerodiag.F90, yoe_cmip.F90, yomacv.F90,

	yomfpcnt.F90, yomfpfilters.F90, yomfpgeo.F90, yomfpgeometry.F90
arpifs/namelist	namacv.nam.h
arpifs/nemo	getnemodiag.F90
arpifs/oops	varbc_ctlvec_mod.F90
arpifs/phys_ec	aer_ssalt_grythe.F90, cloud.F90, cloud_satadj.F90, ddr_zh_season.F90, set_ocean_fluxes.F90
arpifs/raingg	raingg_wrapper.F90
arpifs/setup	setacv.F90, suacv.F90, suarg_datestuff.F90, sufpilmod.F90
arpifs/transform	transdir_fields.F90
arpifs/var	addhysin.F90, addhysinad.F90, suinep.F90, suscal_norms.F90
crm	CITATION_SP.txt, cam_rad_parameterizations.F90, crm_inout.F90, crmdims.F90, crmdomain.F90, crmtracers.F90, grid.F90, micro_params.F90, microphysics.F90, params.F90, real_size.F90, vars.F90, abcoefs.F90, adams.F90, advect2_mom_xy.F90, advect2_mom_z.F90, advect_mom.F90, advect_scalar.F90, advect_scalar2d.F90, advect_scalar3d.F90, bound_duvdt.F90, bound_exchange.F90, boundaries.F90, buoyancy.F90, cloud_diag.F90, coriolis.F90, crm.F90, crmsurface.F90, damping.F90, diagnose.F90, diffuse_mom.F90, diffuse_mom2D.F90, diffuse_mom3D.F90, diffuse_scalar.F90, diffuse_scalar2D.F90, diffuse_scalar3D.F90, fft.F90, forcing.F90, gammaff.c, ice_fall.F90, init.F90, kurant.F90, periodic.F90, precip_fall.F90, precip_init.F90, precip_proc.F90, press_grad.F90, press_rhs.F90, pressure.F90, random.F90, sat.F90, setparm.F90, setperturb.F90, shear_prod2D.F90, shear_prod3D.F90, stepout.F90, task_util_nompi.F90, tke_full.F90, utils.F90, uvw.F90, zero.F90
crm/module	cam_rad_parameterizations.F90, crm_inout.F90, crmdims.F90, crmdomain.F90, crmtracers.F90, grid.F90, micro_params.F90, microphysics.F90, params.F90, real_size.F90, vars.F90
crm/source	abcoefs.F90, adams.F90, advect2_mom_xy.F90, advect2_mom_z.F90, advect_mom.F90, advect_scalar.F90, advect_scalar2d.F90, advect_scalar3d.F90, bound_duvdt.F90, bound_exchange.F90, boundaries.F90, buoyancy.F90, cloud_diag.F90, coriolis.F90, crm.F90, crmsurface.F90, damping.F90, diagnose.F90, diffuse_mom.F90, diffuse_mom2D.F90, diffuse_mom3D.F90, diffuse_scalar.F90, diffuse_scalar2D.F90, diffuse_scalar3D.F90, fft.F90, forcing.F90, gammaff.c, ice_fall.F90, init.F90, kurant.F90, periodic.F90, precip_fall.F90, precip_init.F90, precip_proc.F90, press_grad.F90, press_rhs.F90, pressure.F90, random.F90, sat.F90, setparm.F90, setperturb.F90, shear_prod2D.F90, shear_prod3D.F90, stepout.F90, task_util_nompi.F90, tke_full.F90, utils.F90, uvw.F90, zero.F90
ifsaux/include	ec_meminfo.intfb.h, ec_mpi_finalize.intfb.h, ec_pmon.intfb.h, meminfo.intfb.h
ifsaux/module	deallocate_if_allocated_mod.F90, mpl_bytes_mod.F90
ifsaux/py_interface	invertcol.F90
ifsaux/utilities	ec_meminfo.F90
ifsobs	CMakeLists.txt, History.txt, README, README.md, VERSION.cmake, build_all_compilers.sh, config.sh, README.md, autodocf03.py, cat_dbase.md, column_mod.md, convert_dbase.md, dbase_factory_mod.md, dbase_mod.md, dbase_view_mod.md, dbase_view_parallel_mod.md, examples.md, filter_dbase.md, generate_docs.sh, getting_started.md, hash_map_mod.md, ll_mod.md, map_dbase.md, partition_dbase.md,

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ifsobs/docs README.md, autodoct03.py, cat_dbase.md, column_mod.md, convert_dbase.md, dbase_factory_mod.md, dbase_mod.md, dbase_view_mod.md, dbase_view_parallel_mod.md, examples.md, filter_dbase.md, generate_docs.sh, getting_started.md, hash_map_mod.md, ll_mod.md, map_dbase.md, partition_dbase.md

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ifsobs/src CMakeLists.txt, CMakeLists.txt, abstract_data_file_mod.F90, ascii_file_mod.F90, bufr_file_mod.F90, data_container_mod.F90, hdf5_file_mod.F90, ifsobs_abort_mod.F90, netcdf_file_mod.F90, rle_compression_mod.F90, stats_aggregator_mod.F90, utilities_mod.F90, CMakeLists.txt, dbase_factory_mod.F90, dbase_mod.F90, hdf_dbase_mod.F90, ifsobs_dbase_mod.F90, netcdf_dbase_mod.F90, odb2_dbase_mod.F90, odbserver_dbase_mod.F90, CMakeLists.txt,

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ifsobs/src/aux	CMakeLists.txt, abstract_data_file_mod.F90, ascii_file_mod.F90, bufr_file_mod.F90, data_container_mod.F90, hdf5_file_mod.F90, ifsobs_abort_mod.F90, netcdf_file_mod.F90, rle_compression_mod.F90, stats_aggregator_mod.F90, utilities_mod.F90
ifsobs/src/dbase	CMakeLists.txt, dbase_factory_mod.F90, dbase_mod.F90, hdf_dbase_mod.F90, ifsobs_dbase_mod.F90, netcdf_dbase_mod.F90, odb2_dbase_mod.F90, odbserver_dbase_mod.F90
ifsobs/src/dbase_view	CMakeLists.txt, bitfield_mod.F90, column_mod.F90, dbase_view_mod.F90
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ifsobs/src/misc	CMakeLists.txt, convert_dbase_mod.F90, cope_oddb_server_mod.F90, map_dbase_mod.F90, mapping_aux_funcs.F90, mapping_parser_mod.F90, mappings_mod.F90, partition_dbase_mod.F90, superob_dbase_mod.F90
ifsobs/src/parallel	CMakeLists.txt, dbase_view_distribute_mod.F90, dbase_view_parallel_mod.F90
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ifsobs/tests/data	cope_demo_filelist.txt, gpsro_sample.oddb, nc_sample_map_dbase.cdl, nctest.cdl, ocean_mapping.dat, robody.sql, sample.h5, sample.nc, sample.oddb, sample.txt, synop_multi.bufr, synop_multi_subset.bufr,

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test_cope_populate_server.ecml, test_hdf5_file_mod_sample.h5, test_map_dbase_buf_r_mapping.dat,
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 rtov11_conv_coef_12to11.F90, rtov11_read_ascii_coef.F90, rtov11_read_hdf5_coef.F90,
 rtov11_write_ascii_coef.F90, rtov11_write_hdf5_coef.F90, rtov_camel_atlas_test.F90,
 rtov_cnrm_mw_atlas_test.F90, rtov_legcoef_calc.F90, rtov_obs_to_pc.F90, rtov_telsem2_atlas_test.F90,
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 satrad/rtov/coef_io rtov_channel_extract_coef.F90, rtov_channel_extract_pccoeff.F90, rtov_channel_extract_scaercoef.F90,
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aeolus/AMD_file_handling	ConvertAMDtoKnmiAsc.F90, ConvertKnmiAscToAMD.F90, Convert_E2S_xml_profile_to_AMD.F90, Makefile.aeolus, ODB_to_AMDdata.F90, TestReadAMDdata.F90, TestWriteAMDdata.F90, readamddata.F90, writeamddata.F90
aeolus/AUX_MRC_file_handling	Test_Read_AUX_MRC.F90, read_aux_mrc.F90
aeolus/Application_Client_Example	Makefile.aeolus, application_client_example.F90
aeolus/AuxCal_file_handling	TestReadAuxCaldata.F90, TestWriteAuxCaldata.F90, readauxcaldata.F90, writeauxcaldata.F90
aeolus/AuxClim_file_handling	TestReadAuxClimData.F90, TestWriteAuxClimData.F90, readauxclimdata.F90, writeauxclimdata.F90
aeolus/BUFR_file_handling	L2B_bufr2odb.F90, L2B_ee2bufr.F90, Makefile.aeolus, adm_bufr_descr_codes.F90, bufr_ee_code_tables.F90, bufrwrapper.F90, l2b_bufr_and_odb.F90
aeolus/Classification	Makefile.aeolus, TestClassification.F90, classification.F90, construct_obs.F90
aeolus/DataStructures	Test_AMD_DataStructure.F90, Test_AMD_Geoloc_ADS.F90, Test_AMD_Met_MDS.F90, Test_AUX_MRC_DataStructure.F90, Test_AUX_MRC_SPH.F90, Test_AuxCal_DataStructure.F90, Test_AuxCal_SPH.F90, Test_AuxClim_DataStructure.F90, Test_AuxClim_SPH.F90, Test_DataSetDescriptor.F90, Test_EE_CFI_Datatypes.F90, Test_FixedHeader.F90, Test_JobOrder_DataStructure.F90, Test_L1B_Cal_ADS.F90, Test_L1B_DataStructure.F90, Test_L1B_GWD_ADS.F90, Test_L1B_Geoloc_ADS.F90, Test_L1B_Meas_ADS.F90, Test_L1B_MieCorePars_ADS.F90, Test_L1B_PCD_ADS.F90, Test_L1B_SPH.F90, Test_L1B_US_MDS.F90, Test_L1B_WV_MDS.F90, Test_L2BC_DS_Settings.F90, Test_L2BC_DataStructure.F90, Test_L2BC_SPH.F90, Test_L2B_AMD_PCD_ADS.F90, Test_L2B_AMD_SPH.F90, Test_L2B_AuxPar_DataStructure.F90, Test_L2B_AuxPar_SPH.F90, Test_L2B_Geoloc_ADS.F90, Test_L2B_Grouping_ADS.F90, Test_L2B_Meas_Map_ADS.F90, Test_L2B_Meas_PCD_ADS.F90, Test_L2B_Mie_MDS.F90, Test_L2B_Mie_Wind_PCD_ADS.F90, Test_L2B_Parameters.F90, Test_L2B_Proc_Settings.F90, Test_L2B_Rayleigh_MDS.F90, Test_L2B_Rayleigh_Wind_PCD_ADS.F90, Test_L2B_Wind_Profiles_MDS.F90, Test_L2C_Common_AssimPCD.F90, Test_L2C_MieVec_MDS.F90, Test_L2C_Mie_AssimPCD_ADS.F90, Test_L2C_RayleighVec_MDS.F90, Test_L2C_Rayleigh_AssimPCD_ADS.F90, Test_MainProductHeader.F90, Test_RBC_DataStructure.F90, Test_RBC_SPH.F90, Test_Working_Datastructure.F90, amd_datastructure.F90, amd_geoloc_ads.F90, amd_met_mds.F90, aux_mrc_datastructure.F90, aux_mrc_sph.F90, auxcal_datastructure.F90, auxcal_sph.F90, auxclim_datastructure.F90, auxclim_sph.F90, cross_check_fh_mph.F90, datasetdescriptor.F90, ee_cfi_datatypes.F90, fixedheader.F90, joborder_datastructure.F90, l1b_cal_ads.F90, l1b_datastructure.F90, l1b_geoloc_ads.F90, l1b_gwd_ads.F90, l1b_meas_ads.F90, l1b_miecorepars_ads.F90, l1b_pcd_ads.F90, l1b_sph.F90, l1b_us_mds.F90, l1b_wv_mds.F90, l2b_amd_pcd_ads.F90, l2b_amd_sph.F90, l2b_auxpar_datastructure.F90, l2b_auxpar_sph.F90, l2b_geoloc_ads.F90, l2b_grouping_ads.F90, l2b_meas_map_ads.F90, l2b_meas_pcd_ads.F90, l2b_mie_mds.F90, l2b_mie_wind_pcd_ads.F90, l2b_parameters.F90, l2b_proc_settings.F90, l2b_rayleigh_mds.F90, l2b_rayleigh_wind_pcd_ads.F90, l2b_wind_profiles_mds.F90, l2bc_datastructure.F90, l2bc_ds_settings.F90, l2bc_sph.F90, l2c_common_assimpcd.F90, l2c_mie_assimpcd_ads.F90, l2c_mievec_mds.F90, l2c_rayleigh_assimpcd_ads.F90, l2c_rayleighvec_mds.F90, mainproductheader.F90,

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aeolus/HLOS_retrieval	Makefile.aeolus, Test_HLOS_Retrieval.F90, hlos_retrieval.F90
aeolus/InputScreening	Test_Screening_AMD_Data.F90, Test_Screening_L1B_Data.F90, Test_Screening_RBC_Data.F90, screening_amd_data.F90, screening_checks.F90, screening_l1b_data.F90, screening_rbc_data.F90
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aeolus/KVT_module	TestKVT_module.F90, kvt_module.F90
aeolus/L1B_BRC_Grouping	TestBRCgrouping.F90, brcgrouping.F90
aeolus/L1B_file_handling	Makefile.aeolus, TestReadAndWriteL1Bdata.F90, TestReadL1Bdata.F90, TestWriteL1Bdata.F90, readl1bdata.F90, writel1bdata.F90
aeolus/L1B_geolocation_extraction	Extract_Geolocation.F90, L1B_pred_orb_to_ODB.F90, Makefile.aeolus, l1b_data_extraction.F90
aeolus/L2BC_file_handling	TestReadL2BCdata.F90, TestWritel2BCdata.F90, readl2bcdata.F90, writel2bcdata.F90
aeolus/L2B_AuxPar_file_handling	Test_Read_L2B_AuxPar_file.F90, read_l2b_auxpar_data.F90
aeolus/L2B_WindResultExtraction	TestWindResultExtraction.F90, WindResultExtraction_to_ODB.F90, windresultextraction.F90
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aeolus/MieCoreProcessing	TestMieResponse.F90, mieresponse.F90
aeolus/MolScat	TestMolScat.F90, molscat.F90
aeolus/ODB2_file_handling	Makefile.aeolus, Makefile.aeolus.odb_test, dummy_odb2_module.F90, odb2_module.F90
aeolus/OpticalProperties	Makefile.aeolus, Objects.txt, TestOpticalProperties.F90, lut_raycalib_handling.F90, opticalproperties.F90, whocallswho_opt_prop.txt
aeolus/RBC_FileHandling	TestReadRBCdata.F90, TestWriteRBCdata.F90, readrbcdata.F90, writerrbcdata.F90
aeolus/RayleighBrillouinProcessing	GenerateRBCdata.F90, TestRayl_Br_Proc.F90, Test_correction.F90, calib_grid.F90, calib_tenti.F90, generaterbc_settings.F90, rayleighbrillouinprocessing.F90, rbc_table_dimensions.F90, tentspectrum.F90
aeolus/Scripts	CheckVersionNumbers.py, DatapackHandler.py, GenerateWhoCallsWhoList.py, L2B_ReportGenerator.py, TestMakefiles.py, arpifs_excluded_files, binary_datapack_listing.txt.expected, copy_branch.py, install_L2BP.sc, install_binary_datapack.sc, install_installtest.sc, installtest_listing.txt.expected, run_feedback_agent.py

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 tm5_wetchem.F90
 arpifs/climate
 accnemoflux.F90, icestatenemo.F90, read_cmip5ghg.F90, updcli.F90, updclie.F90, updclie_co2.F90,
 updicetemp.F90, updnemocean.F90, updrgas.F90
 arpifs/common
 arpifs/control
 yomdb_defs.h, yomdb_vars.h
 adjotest.F90, allfpos.F90, cad1.F90, cdsta.F90, cfcsens2obs.F90, cgr1.F90, cnt0.F90, cnt1.F90, cnt2.F90,
 cnt3.F90, cnt3_glo.F90, cnt3_wait.F90, cnt3ad.F90, cnt3tl.F90, cnt4.F90, cnt4ad.F90, cnt4tl.F90, cprep1.F90,
 cprep3.F90, csekf1.F90, csekf2.F90, ctl1.F90, cva1.F90, cva2.F90, forecast_error.F90, fpwrncf.F90,
 get_clinc.F90, gmassdiag.F90, gp_model.F90, gp_model_ad.F90, gp_model_heap.F90, gp_model_stack.F90,
 gp_model_tl.F90, iopack.F90, qmfixer.F90, reresf.F90, restart_cnt3.F90, scan2m.F90, scan2mad.F90,
 scan2mtl.F90, sim4d.F90, spcm.F90, stepo.F90, stepoad.F90, tesadj.F90, testli.F90, testlievol.F90

arpifs/dfi dfi.F90, dfi2.F90, dfi2mod.F90, dfi3.F90

arpifs/dia cpcfu.F90, cpdyddh.F90, cpxfu.F90, extfpnorm.F90, fpgpnorm.F90, grib_code_message.F90, inifaoutinfo.F90, ppeddhec.F90, pppfidh.F90, pppfidhec.F90, preset_grib_template.F90, satsim.F90, spmcuf.F90, spnorm.F90, sualdyn_ddh.F90, succddh.F90, sunddh.F90, suofname.F90, wrfld_fp.F90, wrfu.F90, wrgathflnm.F90, wrgrida.F90, wrgridall.F90, wrgridall_fp.F90, wrgridall_map.F90, wrgridua.F90, wrmlppa.F90, wrmlppg.F90, wrmlpplg.F90, wroutgpgb.F90, wroutspgb.F90, wrphtrajt.F90, wrsp2fa.F90, wrspeca.F90, wrspeca_fp.F90, wrspeca_gp.F90, wrspeca_map.F90, wrxfu.F90

arpifs/fp_serv fp_serv_cpfpfilter.F90, fp_serv_suiosctmpl.F90, fp_serv_sync.F90

arpifs/fullpos cpclimi.F90, cpfpfilter.F90, cpfpfilter_shuffle.F90, cpvpospr.F90, dynfpos.F90, endpos.F90, endpos_prepgfl.F90, endvpos.F90, extfpf.F90, fpachmt.F90, fpcica.F90, fpcincape.F90, fpcorphy.F90, fpfilter.F90, fpgeo.F90, fpintdyn.F90, fpintphy.F90, fpmodcfu.F90, fpmodprec.F90, fpmodxfu.F90, fposhor.F90, fposhorlag.F90, fpsampl.F90, fpselezo.F90, fpspecfitg.F90, fpspnorms.F90, fullpos_drv.F90, getfplun.F90, gridfpos.F90, hpos.F90, hpos_cfu.F90, hpos_dyn.F90, hpos_xfu.F90, incfpf.F90, ini1wrfp.F90, ini2wrfp.F90, iofpos.F90, openfpfa.F90, phymfpos.F90, predynfpos.F90, prepfpfpos.F90, prespfpos.F90, rdclimo.F90, rdecclimo.F90, rdfpfilter.F90, scan2m_hpos.F90, scan2m_mpos.F90, scan2m_vpos.F90, spaconvert.F90, spos.F90, stepo_fpos.F90, su4fpos.F90, sualfpos.F90, subfpos.F90, sufpc.F90, sufpcfuf.F90, sufpcip.F90, sufpcifname.F90, sufpcconf.F90, sufpcd.F90, sufpcdistrib.F90, sufpcdyn.F90, sufpcf.F90, sufpcfields.F90, sufpcfit.F90, sufpcg.F90, sufpcg2.F90, sufpcgrib.F90, sufpcios.F90, sufpcmapf.F90, sufpcmodelgeo.F90, sufpcofname.F90, sufpcoph.F90, sufpcporog.F90, sufpcppy.F90, sufpcprfpbuf_clim.F90, sufpcprfpbuf_geom.F90, sufpcprfpds.F90, sufpsc2.F90, sufpsc2_dep.F90, sufpcsuw.F90, sufpcptr2.F90, sufpcptrans.F90, sufpcusergeo.F90, sufpcwfpbuf.F90, sufpcwfpds.F90, sufpcwide.F90, sufpcxfu.F90, sumpcfpos.F90, sumpcfpos_dep.F90, suprocfp.F90, suprocfp_dep.F90, suvfpos.F90, suvfposl.F90, suvfpos.F90, updvpos.F90, vpos.F90, vpos_prep.F90, wrfpfilter.F90, wrgp2fafp.F90, wrhfp.F90, wrmlfp.F90, wrmlfp_io_serv.F90, wrplfp.F90, wrplfp_io_serv.F90, wrspfp.F90

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arpifs/interpol fpavg.F90, fpint12.F90, fpint4.F90, fpint4x.F90, fpnear.F90, fpscaw.F90, fpscax.F90, lascaw.F90, lascaw_cla.F90, lascaw_cla_ad.F90, lascaw_cla_tl.F90, lascaw_clo.F90, lascaw_clo_ad.F90, lascaw_clo_tl.F90, lascaw_vintw.F90, lascaw_vintw_ad.F90, lascaw_vintw_tl.F90, slcomm.F90, slcomm2.F90, slcomm2a.F90, slcset.F90, slextpol.F90, suehox1.F90, suhox1.F90, suhslmer.F90

arpifs/io_serv io_serv_hdr1_init.F90, io_serv_hdr2_init.F90, io_serv_map_recv_part1.F90, io_serv_map_recv_part2.F90, io_serv_map_send_part1.F90, io_serv_prepacka1_compress.F90, io_serv_suiosctmpl.F90, io_serv_sync.F90, io_serv_wrgp2fa_compress.F90, io_serv_write.F90, io_serv_write_ec.F90, io_serv_writefld_ec.F90

arpifs/module control_vectors_base_mix.F90, control_vectors_comm_mod.F90, control_vectors_data_mix.F90, control_vectors_oper_mod.F90, control_vectors_para_mod.F90, eint_mod.F90, extfpselect_mod.F90, factx_mod.F90, field_container_base_mod.F90, field_container_gp_mod.F90, field_container_oper_mod.F90, field_container_sp_mod.F90, field_definitions.F90, field_definitions_base.F90, field_gfl_wrapper.F90,

fields_base_mod.F90, fields_mod.F90, fullpos_mix.F90, fullpos_oops_mod.F90, geometry_mod.F90, geometry_setup_mod.F90, gfl_subs_mod.F90, gmv_subs_mod.F90, gom_mod.F90, gom_plus.F90, grib_utils_mod.F90, gridpoint_fields_mix.F90, intdynsl_mod.F90, iofu_mod.F90, iogride_mod.F90, iogridoe_mod.F90, iogridue_mod.F90, iospeca_mod.F90, iospece_mod.F90, iostream_mix.F90, ioxfu_mod.F90, jb_control_vectors_mod.F90, jb_control_vectors_oper_mod.F90, model_atmos_ocean_coupling_mod.F90, model_chem_mod.F90, model_diagnostics_mod.F90, model_dynamics_mod.F90, model_general_conf_mod.F90, model_lam_coupling_mod.F90, model_mod.F90, model_physics_aerosol_mod.F90, model_physics_ecmwf_mod.F90, model_physics_general_mod.F90, model_physics_mf_mod.F90, model_physics_radiation_mod.F90, model_physics_simplinear_mod.F90, model_physics_stochast_mod.F90, mtraj_mod.F90, obsop_sets.F90, parersca.F90, parfpos.F90, ptrgppc.F90, ptrslb1.F90, ptrslb15.F90, ptrslb2.F90, raddrv_definitions.F90, radiation_setup.F90, sats_mix.F90, spectral_columns_mix.F90, spectral_fields_data.F90, spectral_fields_mod.F90, spng_mod.F90, spp_mod.F90, stoph_mix.F90, supergom_class.F90, surface_fields_mix.F90, tm5_chem_module.F90, tovscv_mod.F90, traj_global_mod.F90, traj_main_mod.F90, traj_main_mod_oops.F90, traj_physics_mod.F90, traj_physics_mod_oops.F90, traj_semilag_mod_oops.F90, trajectory_mod.F90, trajectory_mod_oops.F90, type_fpfields.F90, type_fprqdyns.F90, type_fprqphys.F90, type_fpusergeo.F90, type_geometry.F90, type_gfflds.F90, type_model.F90, varbc_airep.F90, varbc_allsky.F90, varbc_class.F90, varbc_eval.F90, varbc_gbrad.F90, varbc_pred.F90, varbc_rad.F90, varbc_rsonde.F90, varbc_setup.F90, varbc_sfcobs.F90, varbc_table.F90, varbc_tcvv.F90, varbc_to3.F90, yemwavelet.F90, yoe_cuconvca.F90, yoe_mcica.F90, yoe_uvrad.F90, yoeaeratm.F90, yoeaerd.F90, yoeaerlid.F90, yoeaermap.F90, yoeaersnk.F90, yoeaersrc.F90, yoeaervol.F90, yoeclid.F90, yoeclidp.F90, yoecond.F90, yoecumf.F90, yoecumf2.F90, yoegwd.F90, yoegwdwms.F90, yoegwwms.F90, yoelwrad.F90, yoeneur.F90, yoeovlp.F90, yoephli.F90, yoephy.F90, yoerad.F90, yoerdi.F90, yoevdf.F90, yoewcou.F90, yom_grib_codes.F90, yom_ygfl.F90, yomaerd15.F90, yomafn.F90, yomaneb.F90, yomarg.F90, yomatlas.F90, yomcfu.F90, yomchem.F90, yomcliddet.F90, yomcma.F90, yomcoctp.F90, yomcom.F90, yomcompo.F90, yomcosjo.F90, yomcou.F90, yomct0.F90, yomcumfs.F90, yomdfpb.F90, yomdimf.F90, yomdphy.F90, yomdyn.F90, yomdyna.F90, yomectab.F90, yomfa.F90, yomfpc.F90, yomfpd.F90, yomfpezo.F90, yomfpf.F90, yomfpfields.F90, yomfpg.F90, yomfpgind.F90, yomfpios.F90, yomfpop.F90, yomfpsc2.F90, yomfptrans.F90, yomfpusergeo.F90, yomgbrad.F90, yomgem.F90, yomgfl.F90, yomgfub.F90, yomglobs.F90, yomgrib.F90, yomjbbchvar.F90, yomjg.F90, yomlcz.F90, yomlocs.F90, yommcc.F90, yommcuf.F90, yommoderr.F90, yommp.F90, yommp0.F90, yommwave.F90, yomncl.F90, yomnmev.F90, yomobs.F90, yomoph.F90, yomoph0.F90, yomfpfb.F90, yomphyder.F90, yomppc.F90, yomprad.F90, yomradf.F90, yomraingg.F90, yomrcoef.F90, yomrfpb.F90, yomrfpds.F90, yomrip.F90, yomsats.F90, yomsatsim.F90, yomscf.F90, yomslphy.F90, yomslrep.F90, yomspjb.F90, yomspstdt.F90, yomsrftlad.F90, yomtag.F90, yomthlim.F90, yomtnh.F90, yomtraj.F90, yomtrc.F90, yomvar.F90, yomvareps.F90, yomvcgl.F90, yomvert.F90, yomwavelet.F90, yomwfpb.F90, yomwfpds.F90, yomxfu.F90, yomxfub.F90, yophlc.F90, yophnc.F90, mwave_emis.F90, mwave_get.F90, mwave_get_ad.F90, mwave_get_tl.F90, mwave_obsop.F90, mwave_obsop_ad.F90, mwave_obsop_test.F90, mwave_obsop_tl.F90, mwave_put.F90, mwave_put_tl.F90, mwave_screen.F90, mwave_setup.F90, mwave_wrapper.F90

arpifs/mwave

arpifs/namelist	naeaer.nam.h, naephli.nam.h, naephy.nam.h, naerad.nam.h, namafn.nam.h, namarg.nam.h, namchem.nam.h, namclddet.nam.h, namcompo.nam.h, namcosjo.nam.h, namct0.nam.h, namcumf.nam.h, namdim_traj.nam.h, namdyn.nam.h, namfa.nam.h, namfpc.nam.h, namfpd.nam.h, namfpg.nam.h, namfpg.nam.h, namfpios.nam.h, namgfl.nam.h, nammcc.nam.h, nammoderr.nam.h, nammwave.nam.h, namobs.nam.h, namoph.nam.h, nampar1.nam.h, namrip.nam.h, namscn.nam.h, namspg.nam.h, namspgdt.nam.h, namvar.nam.h
arpifs/nemo	couplnemo.F90, getnemo.F90, nemoaddflds.F90
arpifs/obs_preproc	airep_flight_phase.F90, biascor_odb.F90, blackhat.F90, btemdup.F90, btemthn.F90, cloud_detect_setup.F90, comtc.F90, conventional_ob.F90, decis.F90, defrun.F90, fgchk.F90, fgwnd.F90, gefger.F90, gen_corr_pert.F90, kscatin.F90, level1cgeos_ob.F90, mkglobstab_model.F90, new_thinn.F90, ngenada.F90, ngereve2.F90, obadat.F90, obatabs.F90, ozone_ob.F90, pertobs.F90, pertobs_interchan_corr.F90, pertobs_satob_corr.F90, pertobs_uncorr.F90, pre_prsta.F90, rd_obs_boxes.F90, readoba.F90, redml.F90, redun.F90, reini.F90, reo3sin.F90, satob_ob.F90, scaqc.F90, scat_ob.F90, screen.F90, screen_final.F90, screen_timeslot.F90, sekf_prep_ascat.F90, sekf_prep_smos.F90, settc.F90, setup_tovscv.F90, sufglim.F90, sugoms.F90, suobarea.F90, suobs.F90, suobs_legacy.F90, suobsaddr.F90, suobsb.F90, suobsacor.F90, suobsort.F90, thiair.F90
arpifs/ocean	sugco0.F90, wrcom.F90
arpifs/oops	allobs_error_mod.F90, allobs_oper_mod.F90, error_covariance_3d_mod.F90, error_covariance_param_mod.F90, fields_interp_mod.F90, fields_io_mod.F90, ifs_init.F90, locations_mod.F90, obs_space_mod.F90, obsvec_mod.F90, scan2m_oops.F90, scan2mad_oops.F90, scan2mtl_oops.F90, stepo_oops.F90, stepo_oops_traj.F90, stepoad_oops.F90, stepotl_oops.F90, stepotl_traj_oops.F90
arpifs/op_obs	aeolus_getamd.F90, aer_lidsimad.F90, aer_lidsimop.F90, aer_lidsimtl.F90, amv_get_preds.F90, amv_oberr.F90, amv_reassign.F90, aod_ad.F90, aod_dualcv_ad.F90, aod_dualcv_op.F90, aod_dualcv_tl.F90, aod_op.F90, aod_tl.F90, bgobs.F90, ch4bcor.F90, cloud_detect.F90, cobs.F90, cobsad.F90, cobsall.F90, cobsallad.F90, cobsalltl.F90, departure_jo.F90, departure_joad.F90, departure_jotl.F90, dopplsim.F90, dopplsim_ad.F90, dopplsim_tl.F90, exheiz2p.F90, exheiz2p_lidar.F90, gpsro_2dad.F90, gpsro_2dop.F90, gpsro_2dtl.F90, gpsro_ad.F90, gpsro_oberror.F90, gpsro_op.F90, gpsro_tl.F90, hdepart.F90, hinth.F90, hjo.F90, hop.F90, hop_decide_required_sqls.F90, hqscatt.F90, hradp_ml.F90, hradp_ml_ad.F90, hradp_ml_tl.F90, hretr_aeolus.F90, hretr_conv.F90, hretr_rad.F90, hsatang.F90, inv_refl1dstat.F90, mw_clearsky_screen.F90, mw_clearsky_screen_ecdecis.F90, mw_clearsky_screen_mfdecis.F90, obshor.F90, obshorad.F90, obsop_composition.F90, obsop_conv.F90, obsop_gps_surface.F90, obsop_gpsro.F90, obsop_limb_rad.F90, obsop_precip_accum.F90, obsop_rad.F90, obsop_radar.F90, obsop_varbc.F90, obsv.F90, obsvad.F90, obsvtl.F90, rad1cemis.F90, rad1cobe.F90, radtr_ml.F90, rao_ad.F90, rao_op.F90, rao_tl.F90, reflsim.F90, reflsim_2dop.F90, reo3bcor.F90, rtl_hop_1d.F90, rtl_hop_1d_ad.F90, rtl_hop_1d_tl.F90, rtl_hop_2d.F90, rtl_hop_2d_ad.F90, rtl_hop_2d_tl.F90, rtl_oberror.F90, rtl_screen.F90, sat_avg_stdev_filter.F90, slint.F90, slintad.F90
arpifs/parallel	brptob.F90, commjbbal.F90, commjbbdat.F90, commspnorm.F90, commspnorm1.F90, disgridfp.F90,

arpifs/phys_dmn
 arpifs/phys_ec
 arpifs/phys_radi
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 arpifs/raingg
 arpifs/setup
 arpifs/sinvect

disspec0.F90, diwrgrfp.F90, diwrgrid_surf_ext.F90, dot_product_ctlvec.F90, fptratod.F90, fptrdtoa.F90, fptrgtoa.F90, gathereigmd.F90, gathergpf.F90, gatherspa.F90, trmtos.F90, trstom.F90
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 accnemoflux_layer.F90, aer_bdgmtss.F90, aer_drydep.F90, aer_drydepvel.F90, aer_lidsim.F90, aer_no3nh4.F90, aer_phy1.F90, aer_phy2.F90, aer_phy3.F90, aer_phy3_layer.F90, aer_rad.F90, aer_scarb.F90, aer_so2so4.F90, aer_src.F90, aer_ssalt.F90, aer_ssalt_ms.F90, aer_tau.F90, aerini_layer.F90, aero_init.F90, callpar.F90, callparad.F90, callpartl.F90, chem_initflux.F90, chem_main_layer.F90, chemini_layer.F90, cldpp.F90, climaer_layer.F90, cloud_layer.F90, cloudsc.F90, convection_layer.F90, cos_sza.F90, cuadjtq.F90, cuascn.F90, cubasen.F90, cucalln.F90, cuddrafn2.F90, cuddrafn2ad.F90, cuddrafn2tl.F90, cudtdqn.F90, cufix2.F90, cufix2ad.F90, cufix2tl.F90, cufixn.F90, culight.F90, culightad.F90, culighttl.F90, cumastrn.F90, cumastrn2.F90, cumastrn2ad.F90, cumastrn2tl.F90, ec_phys.F90, ec_phys_ad.F90, ec_phys_drv.F90, ec_phys_drv_ad.F90, ec_phys_drv_tl.F90, ec_phys_tl.F90, fireinj.F90, gems_init.F90, gems_init_tl.F90, gems_tend.F90, gems_tend_ad.F90, ghg_main.F90, gwdrags.F90, ini_spp.F90, local_arrays_fin.F90, local_arrays_ini.F90, m7_emi.F90, m7_emi_car.F90, m7_emi_so2.F90, m7_interface.F90, m7_sedimentation.F90, noconvection.F90, o3chem.F90, phys_arrays_fin.F90, phys_arrays_ini.F90, postphy_layer.F90, sltend.F90, sppten.F90, su_aer_climatology.F90, su_aerp.F90, su_aerw.F90, su_ghgclim.F90, suaerv.F90, sucldp.F90, sucumf.F90, sucumf2.F90, suecaec.F90, suecozv.F90, sumethox.F90, suphli.F90, turbulence_layer.F90, vdfmain.F90, vdfouter.F90, wwx2gb.F90
 acradstl.F90, lwprclair.F90, lwprnuage.F90, radact.F90, raddrv.F90, radiation_scheme.F90, radintg.F90, radlswad.F90, radlswtl.F90, radozv.F90, su_uvradi.F90, suecrad.F90, suecrad15.F90, suesco4.F90, surdi15.F90, swtt1.F90, swtt115.F90, swtt1ad.F90, swtt1tl.F90, uvradi.F90, uvradi_layer.F90
 apache.F90, poaero.F90, pos.F90, pos_prepvgl.F90, ppleta.F90, ppobsacad.F90, ppobsactl.F90, ppobsap.F90, ppreq.F90, ppthpw.F90, ppwetpoint.F90
 hop_driver.F90, master.F90, merge_varbc.F90
 raingg_obsop.F90, raingg_obsop_ad.F90, raingg_obsop_tl.F90, raingg_screen.F90, raingg_setup.F90
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oopsifs/mains	CMakeLists.txt, ifs4dvar.cc
oopsifs/src/ifs	AllObs.cc, AllObs.h, AllObs.interface.F90, AllObsCovariance.cc, AllObsCovariance.h, AllObsCovariance.interface.F90, AllObsTLAD.cc, AllObsTLAD.h, AllObsTLAD.interface.F90, CMakeLists.txt, ErrorCovariance3D.cc, ErrorCovariance3D.h, ErrorCovariance3D.interface.F90, FieldsIFS.cc, FieldsIFS.h, FieldsIFS.interface.F90, GeometryIFS.h, GeometryIFS.interface.F90, GomData.cc, GomData.h, GomData.interface.F90, GomsIFS.h, IFSFortran.h, IFStraits.h, IncrModCtlVecIFS.interface.F90, IncrementIFS.cc, IncrementIFS.h, LinearModellIFS.cc, LinearModellIFS.h, LinearModellIFS.interface.F90, LocalizationMatrixIFS.cc, LocalizationMatrixIFS.h, LocalizationMatrixIFS.interface.F90, LocationsIFS.interface.F90, ModellIFS.cc, ModellIFS.h, ModellIFS.interface.F90, ModellIFS.list.F90, ObsBias.cc, ObsBias.h, ObsBias.interface.F90, ObsBias2.interface.F90, ObsBiasCovariance.cc, ObsBiasCovariance.h, ObsBiasCovariance.interface.F90, ObsBiasCovariance2.interface.F90, ObsBiasIncrement.cc, ObsBiasIncrement.h, ObsBiasIncrement.interface.F90,

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rttov_calcibt_pc.F90, rttov_calcibt_pc_ad.F90, rttov_calcibt_pc_tl.F90, rttov_calcibt_tl.F90,
rttov_calcemis_ir.F90, rttov_calcemis_ir_ad.F90, rttov_calcemis_ir_k.F90, rttov_calcemis_ir_tl.F90,
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rttov_calcsurfrefl_k.F90, rttov_calcsurfrefl_tl.F90, rttov_check_traj.F90, rttov_checkinput.F90,
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rttov_copy_rad.F90, rttov_copy_raytracing.F90, rttov_direct.F90, rttov_errorhandling.F90,
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rttov_fresnel.F90, rttov_fresnel_ad.F90, rttov_fresnel_k.F90, rttov_fresnel_tl.F90, rttov_init_aux_prof.F90,
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rttov_nlte_bias_correction_ad.F90, rttov_nlte_bias_correction_k.F90, rttov_nlte_bias_correction_tl.F90,
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 rttov_refsun.F90, rttov_refsun_ad.F90, rttov_refsun_k.F90, rttov_refsun_tl.F90, rttov_setgeometry.F90,
 rttov_setgeometry_ad.F90, rttov_setgeometry_k.F90, rttov_setgeometry_tl.F90, rttov_setpredictors_7.F90,
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 satrad/rttov/mw_scatt
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 rttov_boundaryconditions_tl.F90, rttov_dealloc_scattcoeffs.F90, rttov_distribute_hydro.F90,
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 satrad/rttov/mw_scatt_coef
 density_all.F90, ice_density.F90, mod_gamma_dsd.F90, perm_ice.F90, perm_water.F90, permittivity.F90,
 predict_psd_F07.F90, scattering.F90
 satrad/rttov/other
 rttov_coef_info.F90, rttov_print_info.F90, rttov_print_opts.F90, rttov_print_profile.F90
 satrad/rttov/parallel
 rttov_parallel_ad.F90, rttov_parallel_direct.F90, rttov_parallel_k.F90, rttov_parallel_tl.F90
 satrad/rttov/test
 rttov_k_ad.F90, rttov_k_bf.F90, rttov_k_tl.F90, rttov_make_profile_inc.F90, rttov_make_radiance_inc.F90,
 rttov_scale_profile_inc.F90, rttov_scale_radiance_inc.F90
 scat/module
 kscat_wind.F
 scat/oretrieve
 read_speed_bias.F
 scat/programs
 kscat_filter.F
 surf/external
 surfexcdriver.F90
 surf/function
 fcsurf.h
 surf/interface
 surfexcdriver.h
 surf/module
 flake_driver_mod.F90, flakeene_mod.F90, flakerad_mod.F90, sppcfl_mod.F90, srfsn_driver_mod.F90,

surf/offline/driver
surf/offline/util
trans/external
trans/interface
trans/module

srfsn_regrid_mod.F90, srft_mod.F90, surfexcdriver_ctl_mod.F90, susflake_mod.F90, sussoil_mod.F90,
vlamsk_mod.F90, vsurf_mod.F90, yos_flake.F90
suct01s.F90, suphec.F90, wrtdcdf.F90, yoerad.F90, yomct01s.F90
lib_dates.F90
gpnorm_trans.F90, setup_trans0.F90
setup_trans0.h
dist_grid_32_ctl_mod.F90, dist_grid_ctl_mod.F90, dist_spec_control_mod.F90, ftinv_ctl_mod.F90,
gath_grid_32_ctl_mod.F90, gath_grid_ctl_mod.F90, gath_spec_control_mod.F90, ledir_mod.F90,
ledirad_mod.F90, leinv_mod.F90, leinvad_mod.F90, suleg_mod.F90, sutrle_mod.F90, tpm_ft.F90,
tpm_gen.F90, trgtol_mod.F90, trltog_mod.F90, trltom_mod.F90, trmtol_mod.F90

SEITY Yann

Doc:

Bugfix to remove modd_nsv used in suphmse.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, mpa

Git branch: seity_CY45T1_bfNSV

Modified:

arpifs/phys_dmn

suphmse.F90

mpa/chem/externals

aroini_nsv.F90

mpa/chem/interface

aroini_nsv.h

WILHELMSSON Tomas

Doc:

Replace CPP macro "ODB_API_SUPPORT" by "HAVE_ODB2".

Projects: ifsobs

Git branch: gco_CY45T1_r1.02%fixes_from_ecmwf

Modified:

ifsobs/src/dbase

odb2_dbase_mod.F90, odbserver_dbase_mod.F90

ifsobs/tests

CMakeLists.txt, test_dbase_performance.F90, test_dbase_view.F90, test_overhead_odb2.F90,
test_parallel_distribute.F90

YESSAD Karim

Doc:

Bugfix + update MITRAILLETTE.

EXPECTED IMPACT:

Numerical impact expected for NHQE jobs.

No numerical impact for the other jobs.

Projects: arpifs, validation

Git branch: yessad_CY45T1_r1V01cor

Deleted:

arpifs/control

arpifs/fullpos

arpifs/module

arpifs/utility

Added:

validation/mitraille/namelist

validation/mitraille/procedure

validation/mitraille/protojobs/beaufix

Modified:

arpifs/adiab

arpifs/fullpos

arpifs/module

arpifs/setup

validation/mitraille/doc

validation/mitraille/namelist

cnt3_femars.F90

ini1wrfp.F90, iofpos.F90, scan2m_mpos.F90, sufplclifname.F90, sufprfpbuf_geom.F90, sufptrans.F90, sufpwfpds.F90

yomfpfields.F90, yomfptrans.F90, yomfpusergeo.F90, yomgfub.F90, yomwfpds.F90, yomxfub.F90

dealsekf.F90

directives_updnam_cy45t1_to_cy46.py, directives_updnam_cy45t1_to_cy46.pyc

directives_updnam_cy45t1_to_cy46.py

config_CY46

call_sl.F90, cpg_gp_nhqe.F90, gnhqe_grp.F90, gnhqe_preh.F90, gnhqe_tndlagadiab_gw.F90, lavabo.F90

hpos.F90

par_gfl.F90, suvfe_hlp.F90, type_gflflds.F90, yom_grib_codes.F90

suafn1.F90, sudefo_gflattr.F90, sugfl1.F90

history_difnam

GE_C901.nam, GM_C401_HYD_EUL_VFD_ADIAB_TL030S.nam,

GM_C401_HYD_EUL_VFD_ADIAB_TL031U.nam, GM_C401_HYD_EUL_VFD_SIM4PHYISBA.nam,

GM_C401_HYD_SL2_VFE_ADIAB_SLHD_TL030S.nam,

GM_C401_HYD_SL2_VFE_ADIAB_SLHD_TL031U.nam, GM_C401_HYD_SL2_VFE_ADIAB_TL030S.nam,

GM_C401_HYD_SL2_VFE_ADIAB_TL031U.nam, GM_C401_HYD_SL2_VFE_SIM4PHYISBA.nam,

GM_C501_HYD_EUL_VFD_ADIAB_TL030S.nam, GM_C501_HYD_EUL_VFD_ADIAB_TL031U.nam,

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GM_C923_SFEX_TL798S_lin.nam, GM_C923_SFEX_TL798S_quad.nam, GM_C923_TL798S_lin.nam,
GM_C923_TL798S_quad.nam, GM_FCST_HYD_EUL_VFD_ADIAB_TL030S.nam,
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validation/mitraille/namelist_ref

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GM_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_TL030S.nam,
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GM_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCC_TL030S.nam,
GM_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_TL030S.nam,
GM_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_SI_TL030S.nam,
GM_FCTI_NHQ_SL2_VFD_ARPPHYISBA_GWADV2_PCC_TL030S.nam,
GM_FCTI_NHQ_SL2_VFD_ARPPHYISBA_GWADV2_PCF_TL030S.nam,
GM_FCTI_NHQ_SL2_VFE_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCTI_NHQ_SL2_VFE_ADIAB_GWADV2_PCF_TL030S.nam,
GM_FCTI_NHQ_SL3_VFD_ADIAB_RDBBC2_TL030S.nam,
GM_FCTI_NHQ_SL3_VFD_ARPPHYISBA_RDBBC2_TL030S.nam,
GM_FPIN_HYD_GPLALON_ARPPHYISBA.nam, GM_FPIN_NHE_GPLALON_ARPPHYISBA.nam,
GM_FPIN_NHQ_GPLALON_ARPPHYISBA.nam, GM_FPMF_HYD_GPLALON_CPRD.nam,
GM_FPMF_HYD_GPLALON_INRD.nam, GM_FPOF_HYD_GPGAUSS.nam,
GM_FPOF_HYD_GPLALON_ARPPHYISBA.nam, GM_FPOF_HYD_MODEL.nam,
GM_FPOF_HYD_MODEL_ADDGPQ.nam, GM_FPOF_HYD_MODEL_ADDNHVAR.nam,
GM_FPOF_HYD_MODEL_CHANGELEVELS_fc.nam, GM_FPOF_HYD_MODEL_CHANGELEVELS_fp.nam,
GM_FPOF_HYD_SPGAUSS_H2L.nam, GM_FPOF_HYD_SPGAUSS_L2H.nam,
GM_FPOF_HYD_SPLELAM_ARU.nam, GM_FPOF_HYD_SPLELAM_CIE_LAM2.nam,
GM_FPOF_HYD_SPLELAM_COU.nam, GM_FPOF_HYD_SPLELAM_OC0500.nam,
GM_FPOF_HYD_SURFLELAM.nam, GM_FPOF_HYD_SURFLELAM_OC0500.nam,
GM_FPOF_NHE_GPLALON_ARPPHYISBA.nam, GM_FPOF_NHQ_GPLALON_ARPPHYISBA.nam,
L1_FCST_HYD_SL2_VFD_AROPHY1D.nam, L1_FCST_HYD_SL2_VFD_ARPPHY1D.nam,
L2_FCST_HYD_SL2_VFD_ADIAB.nam, L2_FCST_HYD_SL3_VFD_ADIAB.nam,
L2_FCST_NHE_EUL_VFD_ADIAB.nam, L2_FCST_NHE_SL2_VFD_ADIAB_GWADV2_PCF_NESC.nam,
L2_FCST_NHE_SL2_VFD_ADIAB_RDBBC2_PCF_NESC.nam,
L2_FCST_NHE_SL2_VFD_ADIAB_RDBBC2_PCF_SETTLS.nam, L2_FCST_NHE_SL3_VFD_ADIAB.nam,
L2_FCST_NHQ_EUL_VFD_ADIAB.nam, L2_FCST_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_NESC.nam,
L2_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_NESC.nam,
L2_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_SETTLS.nam, L2_FCST_NHQ_SL3_VFD_ADIAB.nam,
L2_FCTI_HYD_SL2_VFD_ADIAB.nam, L2_FCTI_HYD_SL3_VFD_ADIAB.nam,
L2_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCF_NESC.nam,
L2_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_PCF_NESC.nam,
L2_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_PCF_SETTLS.nam, L2_FCTI_NHE_SL3_VFD_ADIAB.nam,
L2_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_NESC.nam,
L2_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_NESC.nam,

L2_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_SETTLS.nam, L2_FCTI_NHQ_SL3_VFD_ADIAB.nam,
L3_C401_HYD_EUL_VFD_ADIAB_PGAL.nam, L3_C401_HYD_SL2_VFD_ADIAB_PGAL.nam,
L3_C401_HYD_SL2_VFE_ADIAB_PGAL.nam, L3_C501_HYD_EUL_VFD_ADIAB_PGAL.nam,
L3_C501_HYD_SL2_VFD_ADIAB_PGAL.nam, L3_C501_HYD_SL2_VFE_ADIAB_PGAL.nam,
L3_C601_HYD_EUL_VFD_VSIPHY_PGAL.nam, L3_C601_HYD_SL2_VFD_VSIPHY_PGAL.nam,
L3_C601_HYD_SL2_VFE_VSIPHY_PGAL.nam, L3_C923_LALON_FRANX01.nam,
L3_C923_LALON_OC0500.nam, L3_C923_LELAM_FRANCE_lin.nam,
L3_C923_LELAM_FRANCE_quad.nam, L3_C923_LELAM_LACE.nam, L3_C923_LELAM_OC0500_lin.nam,
L3_C923_LELAM_OC0500_quad.nam, L3_C923_LELAM_REUNION_lin.nam,
L3_C923_LELAM_REUNION_quad.nam, L3_FCST_HYD_EUL_VFD_ADIAB_PGAL.nam,
L3_FCST_HYD_SL2_VFD_ADIAB_PGAL.nam, L3_FCST_HYD_SL2_VFD_ADIAB_SLHD_PGAL.nam,
L3_FCST_HYD_SL2_VFD_AROPHYSFEX_AROMALP1300.nam,
L3_FCST_HYD_SL2_VFD_AROPHYSFEX_MAD_AROMALP1300.nam,
L3_FCST_HYD_SL2_VFE_ADIAB_PGAL.nam, L3_FCST_HYD_SL3_VFD_ADIAB_PGAL.nam,
L3_FCST_HYD_SL3_VFD_ADIAB_SLHD_PGAL.nam, L3_FCST_HYD_SL3_VFE_ADIAB_PGAL.nam,
L3_FCST_NHE_EUL_VFD_ADIAB_FROC.nam,
L3_FCST_NHE_SL2_VFD_ADIAB_GWADV2_PCC_FROC.nam,
L3_FCST_NHE_SL2_VFD_ADIAB_GWADV2_PCF_FROC.nam,
L3_FCST_NHE_SL2_VFD_ADIAB_RDBBC2_PCC_FROC.nam,
L3_FCST_NHE_SL2_VFD_ADIAB_RDBBC2_PCF_FROC.nam,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCCMADIOSH_AROMALP1300.nam,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCCMADIOS_AROMALP1300.nam,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMALP1300.nam,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMOC0500.nam,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCC_AROMALP1300.nam,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCFMADIOS_AROMALP1300.nam,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCFMAD_AROMALP1300.nam,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCFMAD_AROMOC0500.nam,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCF_AROMALP1300.nam,
L3_FCST_NHE_SL2_VFE_ADIAB_GWADV2_PCF_FROC.nam,
L3_FCST_NHE_SL3_VFD_ADIAB_RDBBC2_FROC.nam, L3_FCST_NHQ_EUL_VFD_ADIAB_FROC.nam,
L3_FCST_NHQ_SL2_VFD_ADIAB_GWADV2_PCC_FROC.nam,
L3_FCST_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_FROC.nam,
L3_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCC_FROC.nam,
L3_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_FROC.nam,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCCMADIOS_AROMALP1300.nam,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMALP1300.nam,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMOC0500.nam,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCC_AROMALP1300.nam,

L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCFMADIOS_AROMALP1300.nam,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCFMAD_AROMALP1300.nam,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCFMAD_AROMOC0500.nam,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCF_AROMALP1300.nam,
L3_FCST_NHQ_SL2_VFE_ADIAB_GWADV2_PCF_FROC.nam,
L3_FCST_NHQ_SL3_VFD_ADIAB_RDBBC2_FROC.nam, L3_FCTI_HYD_EUL_VFD_ADIAB_PGAL.nam,
L3_FCTI_HYD_SL2_VFD_ADIAB_PGAL.nam, L3_FCTI_HYD_SL2_VFD_ADIAB_SLHD_PGAL.nam,
L3_FCTI_HYD_SL2_VFD_ALRPHYSISBA_OLDLACE.nam, L3_FCTI_HYD_SL2_VFE_ADIAB_PGAL.nam,
L3_FCTI_HYD_SL2_VFE_ALRPHYSISBA_LACE.nam,
L3_FCTI_HYD_SL2_VFE_ARPPHYSISBA_GRANLMRT.nam,
L3_FCTI_HYD_SL2_VFE_ARPPHYSISBA_TSTDFI_FRAN.nam,
L3_FCTI_HYD_SL2_VFE_ARPPHYSFEX_FRAN.nam,
L3_FCTI_HYD_SL2_VFE_ARPPHYSFEX_FRAN.selnam_exseg1,
L3_FCTI_HYD_SL3_VFD_ADIAB_PGAL.nam, L3_FCTI_HYD_SL3_VFD_ADIAB_SLHD_PGAL.nam,
L3_FCTI_HYD_SL3_VFE_ADIAB_PGAL.nam, L3_FCTI_NHE_EUL_VFD_ADIAB_FROC.nam,
L3_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCC_FROC.nam,
L3_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCF_FROC.nam,
L3_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_PCC_FROC.nam,
L3_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_PCF_FROC.nam,
L3_FCTI_NHE_SL2_VFD_ARPPHYSISBA_GRANLMRT.nam,
L3_FCTI_NHE_SL2_VFE_ADIAB_GWADV2_PCF_FROC.nam,
L3_FCTI_NHE_SL3_VFD_ADIAB_RDBBC2_FROC.nam, L3_FCTI_NHQ_EUL_VFD_ADIAB_FROC.nam,
L3_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCC_FROC.nam,
L3_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_FROC.nam,
L3_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCC_FROC.nam,
L3_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_FROC.nam,
L3_FCTI_NHQ_SL2_VFD_ARPPHYSISBA_GRANLMRT.nam,
L3_FCTI_NHQ_SL2_VFE_ADIAB_GWADV2_PCF_FROC.nam,
L3_FCTI_NHQ_SL3_VFD_ADIAB_RDBBC2_FROC.nam, L3_FPIN_HYD_MODEL_ARPPHYSISBA.nam,
L3_FPOF_HYD_GPLALON_LAL.nam, L3_FPOF_HYD_GPLALON_OPE2_ARPPHYSISBA.nam,
L3_FPOF_HYD_GPLELAM_CIE_LAM1.nam, L3_FPOF_HYD_GPLELAM_CI_GRI1.nam,
L3_FPOF_HYD_GPLELAM_CI_GRI2.nam, L3_FPOF_HYD_GPLELAM_CI_OPEX.nam,
L3_FPOF_HYD_MODEL.nam, L3_FPOF_HYD_SPLELAM_ARUNES.nam, aainfo, vide
PRO_FILE.currentcycle_aldref, PRO_FILE.currentcycle_arpref

validation/mitraille/pro_file

Doc:

Prune deep-layer models + REK contribution (updated 06/03/2018 version)

K. YESSAD contribution:

- Prune deep-layer models.

Ryad El Khatib contribution:

- Mainly developements for Fullpos-in-OOPS, plus miscellaneous bugfixes.

- Remove sursaturation of relative humidity of PBL.

- 3 new namelists variables in NAMFPC :

LCLIMALBEDOS, LCLIMAEROSOL, LCLIMOZONE to activate or deactivate the reading of output climatology fields of respectively albedos, aerosols and ozone. Defaults are .TRUE. These keys may be helpful and set to .FALSE. when old climatology files are used.

EXPECTED IMPACT:

- removed sursatur ation of relative humidity of PB L may have a small impact on the results of relative humidity of PBL and MOCONs.

Projects: aladin, arpifs, ifsaux, mpa, mse, satrad, surfex, validation

Git branch: yessad_CY45T1_r1V02cor

Deleted:

arpifs/adiab	gnh_conv_prhs.F90, gnhdlr.F90, gnhdlra.F90, gnhdlra_sta.F90, gnhdlrb.F90, gnhgrdlr.F90, gpvcmus.F90, gpvcrs.F90, gpvcts.F90, gpvcw.F90, spnh_conv_prhs.F90
arpifs/fullpos	sualfpos.F90, sufpcnf.F90, sufplit.F90, sufprfpls.F90, suvfpos.F90
arpifs/module	par_rdlr.F90, ptrfp4.F90, ptrfpb2.F90, yomdfpb.F90, yomfpdim.F90, yomfpezo.F90, yomfpssc2.F90, yomfpp.F90, yomompdist.F90, yomppfb.F90, yomrpb.F90, yomrpls.F90, yomstadr.F90, yomvpos.F90
arpifs/pp_obs	ppreset.F90
arpifs/setup	susta_conv_prhs.F90, susta_conv_prhs_dyncore.F90, sustadr.F90, suvertldr.F90
arpifs/transform	transdir_nhconvprhs.F90, transinv_nhconvprhs.F90
arpifs/utility	dealfpos.F90, rdspec.F90
arpifs/var	grbspa.F90, grbspa_mf.F90
mse/externals	prep1_real.F90, prep2_real.F90, prep_step1.F90, sufpcsf.F90
mse/interface	suafn2sfx.h, sufpcsf.h

Added:

arpifs/control	monfpos.F90
arpifs/fullpos	decvlaniso.F90, fpgeophy.F90, fposhorlagphy.F90, fposhorphy.F90, fpsaturcap.F90, sufpcctl.F90, sufpcdata.F90, sufpcv.F90
arpifs/module	type_fposbuf.F90
arpifs/utility	final_stats.F90

Modified:

fpspecfitg.F90, fpts_a_dir.F90, fpts_a_inv.F90, fpuv2kp.F90, fullpos_drv.F90, fullpos_precond.F90, gridfpos.F90, hpos.F90, hpos_cfu.F90, hpos_dyn.F90, hpos_xfu.F90, ini2wrfp.F90, openfpfa.F90, phymfpos.F90, rdclimo.F90, rdeclimo.F90, scan2m_hpos.F90, scan2m_vpos.F90, spaconvert.F90, spos.F90, sposgf.F90, stepo_fpos.F90, su4fpos.F90, subfpos.F90, sufpc.F90, sufpcfu.F90, sufpcip.F90, sufpcnt.F90, sufpd.F90, sufpdata.F90, sufpdistrib.F90, sufpdyn.F90, sufpf.F90, sufpflds.F90, sufpfilters.F90, sufpg.F90, sufpg2.F90, sufpggeometry.F90, sufpgrib.F90, sufpioh.F90, sufpios.F90, sufpmodegeo.F90, sufpofname.F90, sufpoph.F90, sufporog.F90, sufpphy.F90, sufprfbuf_clim.F90, sufpsc2.F90, sufpsc2_dep.F90, sufpsuw.F90, sufptr2.F90, sufpushgeo.F90, sufvert.F90, sufpvset_dir.F90, sufpvset_inv.F90, sufpwfbuf.F90, sufpwide.F90, sufpxfu.F90, suvposl.F90, suvpos.F90, updvpos.F90, vpos.F90, wrgp2fafp.F90, wrhfp.F90, wrmlfp.F90, wrmlfp_io_serv.F90, wrplfp.F90, wrplfp_io_serv.F90, wrsfp.F90

arpifs/interpola
 fpint12.F90, fpint4.F90, fpint4x.F90, fpscaw.F90, fpscax.F90, slcset.F90, suehox1.F90, suhow1.F90, suhow2.F90, suhowlsm.F90, suhowlsm.func.h, suhox1.F90, suhslmer.F90, suvsleta.F90, suvsplip.F90

arpifs/io_serv
 io_serv_suiosctmpl.F90

arpifs/module
 extfpselect_mod.F90, field_definitions.F90, field_gfl_wrapper.F90, fields_mod.F90, fullpos.F90, fullpos_mix.F90, fullpos_oops_mod.F90, gmv_subs_mod.F90, intdyn_mod.F90, iogride_mod.F90, iogridue_mod.F90, iospeca_mod.F90, iospece_mod.F90, mfioopts_mod.F90, model_mod.F90, parfpos.F90, ptrslb1.F90, ptrslb2.F90, surface_fields_mix.F90, type_faoph.F90, type_fpdphys.F90, type_fpfields.F90, type_fposbuf.F90, type_fprqdys.F90, type_fprqphys.F90, type_fpushgeo.F90, type_geometry.F90, type_gmvs.F90, yoe_cuconvca.F90, yom4fpos.F90, yomafn.F90, yomcver.F90, yomdim.F90, yomdyn.F90, yomdyna.F90, yomfp4l.F90, yomfpc.F90, yomfpcnt.F90, yomfpcd.F90, yomfpcf.F90, yomfpg.F90, yomfpggeometry.F90, yomfpios.F90, yomfpop.F90, yomgsgeom.F90, yomgwdiag.F90, yomoph0.F90, yomppc.F90, yomwfbp.F90, yomxfu.F90

arpifs/namelist
 namafn.nam.h, namdyn.nam.h, namdyna.nam.h, namfpc.nam.h, namfpc.nam.h, namxfu.nam.h

arpifs/obs_preproc
 sekf_prep_ascat.F90

arpifs/ocean
 wrcom.F90

arpifs/oops
 fields_io_mod.F90, ifs_init.F90, scan2m_oops.F90, scan2mtl_oops.F90, stepo_oops.F90

arpifs/op_obs
 slint.F90, slintad.F90

arpifs/parallel
 fptratod.F90, fptrdtoa.F90

arpifs/phys_dmn
 ac_cloud_model.F90, aclsp.F90, aclspad.F90, aclspstl.F90, acmtud.F90, aplpar.F90, aplpars.F90, aplparsad.F90, aplparsadt.F90, aplparstl.F90, mf_phys.F90, mf_phys_prep.F90, mts_phys.F90, suphmf.F90

arpifs/phys_ec
 aer_src.F90, callpar.F90, ec_phys.F90, heldsuarez.F90, postphy_layer.F90, suphec.F90

arpifs/phys_radi
 radcfg.F90, radintg.F90, suecrad.F90

arpifs/pp_obs
 apache.F90, pos.F90, pos_prepgfl.F90, ppgeop.F90, ppltp.F90

arpifs/setup
 su0phy.F90, su0yoma.F90, su0yomb.F90, su_surf_flds.F90, suafrn.F90, suafrn1.F90, suafrn2.F90, suafrn3.F90, suarg.F90, submat.F90, suct0.F90, sudefo_gflattr.F90, sudimf1.F90, sudyn.F90, sudyna.F90, sufpilmod.F90, sufpinif.F90, sugem2.F90, suggeometry.F90, sugfl.F90, sugfl1.F90, sugrclia.F90, sugridf.F90, suhdvp.F90, suinif.F90, suinterpolator.F90, sumts.F90, sunh_vertfe1d.F90, sunh_vertfe1dd.F90, sunh_vertfe3d.F90,

arpifs/transform	sunh_vertfe3dbc.F90, sunh_vertfe3dd.F90, sunhbmam.F90, sunhsi_testconv.F90, suoph0.F90, suoptpromam.F90, surand2.F90, surcordi.F90, surcordi_th.F90, susatsim.F90, susi.F90, susimpr.F90, suslad2.F90, suslb.F90, suspec.F90, suspeca.F90, suspeca_gp.F90, suspecb.F90, susta.F90, suvareps.F90, suvert.F90, suvert2.F90, suvertfe1.F90, suvertfe3.F90, suvertfe3d.F90, suvv1.F90, suxfu.F90
arpifs/utility	transdir_fp.F90, transinv_fp.F90, transinv_nhconv.F90, transinvh.F90
arpifs/var	deallo.F90, maxgpfv.F90, opdis.F90, openfa.F90
ifsaux/include	cosjl.F90, cossmq.F90, estsig.F90, fltbgerr.F90, subjcor.F90, subjdat.F90, subjstd.F90, subjwavelet_stdevs.F90, subjwavrenorm.F90, suprecov.F90, suqnorm.F90, surinc.F90, vec2gp.F90
mpa/turb/externals	isrchfltpv.body.h
mse/externals	arp_shallow_mf.F90
mse/interface	aro_ground_diag.F90, fp2sx1.F90, fp2sx2.F90, gridfpossfx_init.F90, rdclimosfx.F90, suafn1sfx.F90
satrad/rttov/ifs	fp2sx1.h, fp2sx2.h, gridfpossfx_init.h, prep2_dumm.h, rdclimosfx.h, suafn1sfx.h
surfex/SURFEX	phrtsetup.F90
validation/mitraille/doc	init_isban.F90
validation/mitraille/procedure	history_difnam
	directives_updnam_cy45t1_to_cy46.py

Doc:

Various bugfixes; v042018 of MITRAILLETTE

- THE MOST IMPORTANT INFORMATION TO KEEP IN MIND IS THAT "LNHDYN" HAS BEEN REMOVED FROM NAMCTO!!!
- To switch on NHEE model, LNHDYN=.TRUE. should be replaced by LNHEE=.TRUE.
- Implement v042018 of MITRAILLETTE.
- Bugfix in YOMCVER (default for LVFE_GW and LVFE_X_TERM).
- Fix some false comments, update some comments.
- Remove some useless routines.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs, validation
Git branch: yessad_CY45T1_r1V03cor

Deleted:

aladin/transform	etransdir_nhconvprhs.F90, etransinv_nhconvprhs.F90
arpifs/adiab	cpg_pt.F90, gnhsvd2gw.F90
validation/mitraille/namelist	directives_updnam_cy45t1_to_cy46.py, directives_updnam_cy45t1_to_cy46.pyc
validation/mitraille/protojobs/beaufix	config_CY45T0, config_CY45T0B

Modified:

arpifs/adiab	cpg_dyn.F90, cpg_gp.F90, cpg_gp_nhee.F90, cpg_gp_nhqe.F90, gnh_conv_nhvar.F90, gnh_tndlagadiab_svd.F90, gnhgrgw.F90, gnhgw2svd.F90, gpgw.F90, lacdyn.F90, latte_bbc.F90
arpifs/module	yomcver.F90
arpifs/namelist	namct0.nam.h
arpifs/setup	suct0.F90
validation/mitraille/doc	doc_mitraillette.pdf
validation/mitraille/namelist	GE_C901.nam, GM_C401_HYD_EUL_VFD_ADIAB_TL030S.nam, GM_C401_HYD_EUL_VFD_ADIAB_TL031U.nam, GM_C401_HYD_EUL_VFD_SIM4PHYISBA.nam, GM_C401_HYD_SL2_VFE_ADIAB_SLHD_TL030S.nam, GM_C401_HYD_SL2_VFE_ADIAB_SLHD_TL031U.nam, GM_C401_HYD_SL2_VFE_ADIAB_TL030S.nam, GM_C401_HYD_SL2_VFE_ADIAB_TL031U.nam, GM_C401_HYD_SL2_VFE_SIM4PHYISBA.nam, GM_C501_HYD_EUL_VFD_ADIAB_TL030S.nam, GM_C501_HYD_EUL_VFD_ADIAB_TL031U.nam, GM_C501_HYD_EUL_VFD_SIM5PHYISBA.nam, GM_C501_HYD_SL2_VFE_ADIAB_SLHD_TL030S.nam, GM_C501_HYD_SL2_VFE_ADIAB_SLHD_TL031U.nam, GM_C501_HYD_SL2_VFE_ADIAB_TL030S.nam, GM_C501_HYD_SL2_VFE_ADIAB_TL031U.nam, GM_C501_HYD_SL2_VFE_SIM5PHYISBA.nam, GM_C601_HYD_EUL_VFD_ADIAB.nam, GM_C601_HYD_EUL_VFD_VSIPHY.nam, GM_C601_HYD_SL2_VFE_ADIAB.nam, GM_C601_HYD_SL2_VFE_VSIPHY.nam, GM_C923_SFEX_JAN_TL798S_lin.nam, GM_C923_SFEX_JAN_TL798S_quad.nam, GM_C923_SFEX_TL798S_lin.nam, GM_C923_SFEX_TL798S_quad.nam, GM_C923_TL798S_lin.nam, GM_C923_TL798S_quad.nam, GM_DILA_HRES.selnam_dila, GM_FCST_HYD_EUL_VFD_ADIAB_TL030S.nam, GM_FCST_HYD_EUL_VFD_ADIAB_TL031U.nam, GM_FCST_HYD_SL2_RVFE_ADIAB_SETTLS_NDEC_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL031U.nam, GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_XIDT_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_XIDT_TL031U.nam, GM_FCST_HYD_SL2_VFD_ADIAB_PCF_NDEC_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_VESL_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_VESL_TL031U.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_MSLHD_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_NDPSFI_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_OSLHD_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_RW2TLFF_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SLHD_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SPRTGPQ_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SPRTSPQ_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SSLHD_TL030S.nam, GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL030S.nam,

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L3_FCTI_HYD_SL2_VFE_ALRPHYISBA_LACE.nam,
L3_FCTI_HYD_SL2_VFE_ARPPHYISBA_GRANLMRT.nam,
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L3_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_FROC.nam,
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validation/mitraille/namelist_ref

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L3_FCTI_NHE_SL3_VFD_ADIAB_RDBBC2_FROC.nam, L3_FCTI_NHQ_EUL_VFD_ADIAB_FROC.nam,
L3_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCC_FROC.nam,
L3_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_FROC.nam,
L3_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCC_FROC.nam,

validation/mitraille/pro_file
validation/mitraille/procedure
validation/mitraille/protojobs

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L3_FCTI_NHQ_SL2_VFE_ADIAB_GWADV2_PCF_FROC.nam,
L3_FCTI_NHQ_SL3_VFD_ADIAB_RDBBC2_FROC.nam, L3_FPIN_HYD_MODEL_ARPPHYISBA.nam,
L3_FPOF_HYD_GPLALON_LAL.nam, L3_FPOF_HYD_GPLALON_OPE2_ARPPHYISBA.nam,
L3_FPOF_HYD_GPLELAM_CIE_LAM1.nam, L3_FPOF_HYD_GPLELAM_CI_GRI1.nam,
L3_FPOF_HYD_GPLELAM_CI_GRI2.nam, L3_FPOF_HYD_GPLELAM_CI_OPEX.nam,
L3_FPOF_HYD_MODEL.nam, L3_FPOF_HYD_SPLELAM_ARUNES.nam
PRO_FILE.currentcycle_aldref, PRO_FILE.currentcycle_arpref
mitraille.x
GE_C901.pjob, GM_C401_HYD_EUL_VFD_ADIAB_TL030S.pjob,
GM_C401_HYD_EUL_VFD_ADIAB_TL031U.pjob, GM_C401_HYD_EUL_VFD_SIM4PHYISBA.pjob,
GM_C401_HYD_SL2_VFE_ADIAB_SLHD_TL030S.pjob,
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GM_DILA.pjob, GM_DILA_HRES.pjob, GM_FCST_HYD_EUL_VFD_ADIAB_TL030S.pjob,
GM_FCST_HYD_EUL_VFD_ADIAB_TL031U.pjob,
GM_FCST_HYD_SL2_RVFE_ADIAB_SETTLS_NDEC_TL030S.pjob,
GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL030S.pjob,
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GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_NDPSFI_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_OSLHD_TL030S.pjob,
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L3_C923_LELAM_OC0500.pjob, L3_C923_LELAM_REUNION.pjob,
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L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCFMADIOS_AROMALP1300.pjob,
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L3_FCST_NHE_SL2_VFE_ADIAB_GWADV2_PCF_FROC.pjob,
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L3_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_FROC.pjob,
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L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMOC0500.pjob,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCC_AROMALP1300.pjob,
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L3_FCTI_HYD_SL2_VFD_ALRPHYSISBA_OLDLACE.pjob, L3_FCTI_HYD_SL2_VFE_ADIAB_PGAL.pjob,
L3_FCTI_HYD_SL2_VFE_ALRPHYSISBA_LACE.pjob,
L3_FCTI_HYD_SL2_VFE_ARPPHYSISBA_GRANLMRT.pjob,
L3_FCTI_HYD_SL2_VFE_ARPPHYSISBA_TSTDFI_FRAN.pjob,
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L3_FCTI_NHE_EUL_VFD_ADIAB_FROC.pjob,
L3_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCC_FROC.pjob,
L3_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCF_FROC.pjob,
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L3_FCTI_NHE_SL2_VFD_ARPPHYSISBA_GRANLMRT.pjob,
L3_FCTI_NHE_SL2_VFE_ADIAB_GWADV2_PCF_FROC.pjob,
L3_FCTI_NHE_SL3_VFD_ADIAB_RDBBC2_FROC.pjob, L3_FCTI_NHQ_EUL_VFD_ADIAB_FROC.pjob,
L3_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCC_FROC.pjob,
L3_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_FROC.pjob,
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L3_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_FROC.pjob,
L3_FCTI_NHQ_SL2_VFD_ARPPHYSISBA_GRANLMRT.pjob,
L3_FCTI_NHQ_SL2_VFE_ADIAB_GWADV2_PCF_FROC.pjob,
L3_FCTI_NHQ_SL3_VFD_ADIAB_RDBBC2_FROC.pjob, L3_FPIN_HYD_MODEL_ARPPHYSISBA.pjob,
L3_FPOF_HYD_GPLALON_LAL.pjob, L3_FPOF_HYD_GPLALON_OPE2_ARPPHYSISBA.pjob,
L3_FPOF_HYD_GPLELAM_CIE_LAM1.pjob, L3_FPOF_HYD_GPLELAM_CI_GRI1.pjob,
L3_FPOF_HYD_GPLELAM_CI_GRI2.pjob, L3_FPOF_HYD_GPLELAM_CI_OPEX.pjob,
L3_FPOF_HYD_MODEL.pjob, L3_FPOF_HYD_SPLELAM_ARUNES.pjob, L3_PGDC_LELAM_OC0500.pjob,
L3_PGDI_LALON_OC0500.pjob, L3_PGDI_LELAM_FRANCE.pjob, L3_PGDI_LELAM_OC0500.pjob,
L3_PGDS_LELAM_OC0500.pjob, aainfo, config_CY43T2, config_CY44, config_CY45, config_CY45T1,
config_CY46, jobtrailer, multiheader, profil_table, z_GM_frame.pjob, z_L3_frame.pjob
validation/mitraille/protojobs/beaufix config_CY43T2, config_CY44, config_CY45, config_CY45T1, config_CY46, jobtrailer, multiheader,
profil_table

Doc:

MITRAILLETTE environnement update and bf.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: validation

Git branch: yessad_CY45T1_r1V04cor

Modified:

validation/mitraille/doc

validation/mitraille/procedure

validation/mitraille/protojobs

history_difnam

directives_updnam_cy45t1_to_cy46.py

GM_PGDS_TL798S.pjob, L3_C923_LALON_OC0500.pjob, L3_PGDS_LELAM_OC0500.pjob