

ARPEGE MEMORANDUM

From: GCO
Date: Jun 28, 2017
Subject: New cycle CY45

A new cycle CY45 has been created. This is a common cycle with ECMWF. The different contributions for this cycle are described in the following pages.

Contributors:

EL KHATIB Ryad	khatib_CY44_cy45.05%bf khatib_CY44_cy45.06%svmlfix khatib_CY44_cy45.08%rad khatib_CY44_cy45.08%scplsvml
GCO	gco_CY44_cy45
GUILLAUME Frank	guillaum_CY44_bugfix_for45 guillaum_CY44_fix_check_date guillaum_CY44_fix_wind_rr
MARSDEN Olivier	gco_CY44_main.01%cy45
MARSDEN Olivier & al	gco_CY44_cy45.06%ecmwf
MARY Alexandre	mary_CY44_fixes4v6 mary_CY44_merge_olivier11mai mary_CY44_oublis_spamming-cleanings mary_CY44_phasing2ok
PAYAN Christophe	payan_CY44_45v05_bf43t2
SEITY Yann	seity_CY44_PGD_orog_filter seity_CY44_bf923
YESSAD Karim	yessad_CY44_cy45V02cor yessad_CY44_cy45V03cor yessad_CY44_cy45V04cor yessad_CY44_cy45V04simplifylascaw

Information about compilers:

GCC: version 4.9.0 or > 6.1 (in between, compiler bugs are expected to be potentially active)

fortran : -fconvert=swap -fno-second-underscore -fbacktrace -m64 -fopenmp -ffree-line-length-none -fno-sign-zero -fstack-arrays -fno-range-check -g -O2 -ftree-vectorize

C : -m64 -fopenmp -g -O2

ld : -fopenmp -ffast-math

CRAY: version 8.4.5 for fortran code ; gcc for C code. A problem of environment must be the cause of an issue with the Cray C compiler.

fortran : -h byteswapio -h PIC -hflex_mp=conservative -hadd_paren -emf -hfp1

C : -fpic

ld : -h byteswapio -dynamic -ldl -lrt

INTEL: version 16. The version 17 has bitwise reproducibility issues (this is somehow a compiler regression).

fortran : -convert big_endian -assume byterecl -align array64byte -traceback -fpic -qopenmp -qopenmp-threadprivate compat -fp-model source -ftz -qopt-report=5 -qopt-report-phase=vec -g -O2 -xCORE-AVX2 -finline-functions -finline-limit=500 -Winline -qopt-prefetch=4 -fast-transcendentals -no-fma

C : -qopenmp -qopt-report=2 -qopt-report-phase=vec -g -O2 -xCORE-AVX2

ld : -v -fp-stack-check -qopenmp -qopenmp-threadprivate compat -shared-intel -lrt

NB : To get bitwise reproducibility with Intel and the option "-fast-transcendentals" one need a little wrapper to filter out the use of `__svml_sincos4` :

```
 $*
if [ $(ls -1 *.o | wc -l) -ne 0 ] ; then
  if [ $(nm -p *.o | fgrep -c __svml_sincos4) -ne 0 ] ; then
    echo "__svml_sincos4 detected in $(ls -1 *.o) --> recompile without -fast-transcendentals" 2>&1
    $(echo $* | sed "s/-fast-transcendentals//")
  fi
fi
```

EL KHATIB Ryad

Doc:

Bugfix for conf. e923 : aladin/c9xx/eincli4.F90 aladin/c9xx/eincli2.F90 aladin/c9xx/eincli7.F90 aladin/c9xx/eincli1.F90 aladin/c9xx/eincli8.F90 aladin/c9xx/eincli3.F90 aladin/c9xx/eincli10.F90 aladin/c9xx/ebicli.F90 aladin/c9xx/eincli9.F90 aladin/c9xx/eincli6.F90 aladin/c9xx/eincli5.F90 arpifs/control/cnt0.F90 arpifs/c9xx/incli0.F90
Portability for gfortran : aladin/coupling/ecoupl1ad.F90 aladin/coupling/ecoupl2ad.F90
Bugfix for conf. 901 : arpifs/control/cprep1.F90
Reduction of verbosity : arpifs/module/fields_mod.F90

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs

Git branch: khatib_CY44_cy45.05%bf

Modified:

aladin/c9xx	ebicli.F90, eincli1.F90, eincli10.F90, eincli2.F90, eincli3.F90, eincli4.F90, eincli5.F90, eincli6.F90, eincli7.F90, eincli8.F90, eincli9.F90
aladin/coupling	ecoupl1ad.F90, ecoupl2ad.F90
arpifs/c9xx	incli0.F90
arpifs/control	cnt0.F90, cprep1.F90
arpifs/module	fields_mod.F90

Doc:

Fix vectorizations broken by ASSOCIATEs for Intel compiler.

EXPECTED IMPACT:

Ensures reproductibility of the physics with cycle 44

Projects: arpifs

Git branch: khatib_CY44_cy45.06%svmlfix

Modified:

arpifs/phys_dmn	ac_cloud_model.F90, acacon.F90, acbl89.F90, acclph.F90, accoll.F90, acconvad.F90, acconvsad.F90, accsu.F90, accvimp.F90, accvimp_v3.F90, accvimpd.F90, accvimpdgy.F90, accvimpgy.F90, accvud.F90,
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arpifs/phys_ec
arpifs/phys_radi

acdifus.F90, acdifv3.F90, acdrag.F90, acevmel.F90, acfluso.F90, achmtls.F90, aclender.F90, aclspis.F90, aclspisad.F90, aclspstl.F90, acmicro.F90, acmicroad.F90, acmicrotl.F90, acmixlenz.F90, acmodo.F90, acmrip.F90, acmris.F90, acmtddd.F90, acmtud.F90, acnebcond.F90, acnebn.F90, acnebnsc.F90, acnebr.F90, acnebsm.F90, acnebxr.F90, acnebxrs.F90, acpblh.F90, acpblhtm.F90, acpcmt.F90, acpluis.F90, acpluiz.F90, acptke.F90, acqwlsr.F90, acqwlsrtl.F90, acsolw.F90, actke.F90, actkezotls.F90, actsec.F90, actsecad.F90, actsectl.F90, acturb.F90, acupd.F90, acveg.F90, acvppkf.F90, advprc.F90, advprcs.F90, advprcsad.F90, aer_clcld.F90, aer_cld.F90, aer_clist.F90, aer_lidsim.F90, aer_src.F90, aer_stratcl.F90, acradsad.F90, acraneb_coefs.F90

Doc:

Fix contribution from branch "khatib_CY44_cy45.08%scplsxml" (missed merge with version 07).

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs
Git branch: khatib_CY44_cy45.08%rad
Modified:
arpifs/phys_radi radiation_scheme.F90, radintg.F90, radlswad.F90

Doc:

- 1) *Bugfix on LAM spectral coupling.*
- 2) *Fix more vectorizations broken for Intel compiler.*

EXPECTED IMPACT:

The modifications should reproduce cycle 44.

Projects: aladin, arpifs
Git branch: khatib_CY44_cy45.08%scplsxml
Modified:
aladin/adiab elarmesad.F90
aladin/coupling elswa3.F90
aladin/fullpos suefpg3.F90
aladin/var moevar.F90
arpifs/adiab cpphinp.F90, cpwts.F90, gp_kappa.F90, gp_kappaad.F90, gp_kappatad.F90, gp_kappatl.F90, gpvcrs.F90,

arpifs/chem	gpvcts.F90
arpifs/dia	cod_op_tm5.F90
arpifs/fullpos	cpphddh.F90
arpifs/module	endvpos.F90, fpcorphy.F90, hpos_xfu.F90
arpifs/op_obs	elbc0b_mod.F90
arpifs/phys_dmn	exchco.F90, surbound.F90
arpifs/phys_ec	acqwlrad.F90, aplmphys.F90, aplpar.F90, aplpassh.F90, arp_ground_param.F90, surf_ideal_flux.F90, callparad.F90, callpartl.F90, chem_initflux.F90, cldpp.F90, cloudad.F90, cloudsc.F90, cloudst.F90, cloudstad.F90, cloudsttl.F90, cloudtl.F90, cuascn.F90, cucalln.F90, cucalln2.F90, cucalln2ad.F90, cucalln2tl.F90, cuddrafn2.F90, cuddrafn2ad.F90, cuddrafn2tl.F90, gwdrag_wmssad.F90, o3chem.F90, sltend.F90
arpifs/phys_radi	lwu.F90, lwuad.F90, lwutl.F90, radheatn.F90, radiation_scheme.F90, radintg.F90, radlswad.F90
arpifs/setup	surand1.F90

GCO

Doc:

Miscellaneous fixes, som of them from ECMWF..

** arpifs/op_obs/hop.F90:*

Rehabilit CPP macro "__INTEL_COMPILER", to avoid a crash of Intel compliler in version 16.

** arpifs/phys_ec/wvcouple.F90:*

(Re)set the whole content of this subroutine inside CPP macro "WITH_WAVE".

** arpifs/control/eresf.F90*

arpifs/utility/wrresf.F90

arpifs/var/sujbwavelet.F90:

Declare function INDEX as INTRINSIC, to avoid compilation issue with Intel compiler in version 16.

** arpifs/control/stepo_oops.F90*

arpifs/fullpos/predynfpos.F90

arpifs/module/geometry_setup_mod.F90

arpifs/module/model_mod.F90

arpifs/module/traj_main_mod_oops.F90

arpifs/module/trajectory_mod_oops.F90

arpifs/obs_preproc/defrun.F90

arpifs/oops/ec_phys_drv_oops.F90

arpifs/oops/error_covariance_3d_mod.F90

arpifs/oops/scan2m_oops.F90

arpifs/oops/scan2mad_oops.F90

arpifs/oops/scan2mtl_oops.F90

arpifs/oops/stepo_oops_traj.F90

arpifs/oops/stepo_traj_oops.F90

arpifs/oops/stepotl_traj_oops.F90
arpifs/op_obs/hop.F90
arpifs/phys_ec/ec_phys_drv.F90
arpifs/phys_ec/wvcouple.F90
arpifs/setup/su0yomb.F90
arpifs/sinvect/cun2.F90
arpifs/sinvect/nalan1.F90
arpifs/sinvect/opk.F90
arpifs/var/chavarin.F90
arpifs/var/chavarinad.F90
arpifs/var/sujbdat.F90:

Remove useless mandatory interface statements.

** arpifs/module/radiation_interface.F90:*

Renamge argument "cloud" as "ydcloud" in subroutines "radiation" & "radiation_reverse", to avoid any confusion with subroutine "cloud" (norm checker issue).

** arpifs/setup/sugfl2.F90:*

Line 644: replace 'SpecificR' by 'SpecificR ' in argument CDNAME of DEFINE_GFL_COMP (Intel compiler issue in version 16 & 17).

Add missing argument YDECUCONVCA in calls of INITIALIZE_CELLS

** odb/lib/version.c:.*

Set VERSION_MAJOR to 45 .

** arpifs/interpol/lascaw.F90:*

Fix a bug with LCOMADH=TRUE .

** arpifs/oops/ifs_init.F90:*

Protect "fckit_module" stuff with CPP macro "WITH_FCKIT".

** arpifs/op_obs/hop.F90
arpifs/op_obs/map_varno_to_nvar.F90:*

*Revert to previous behaviour regarding the NOTVAR variable and the MAP_VARNO_TO_NVAR routine, in particular called from HOP.
Modifications are protected by LECMWF.*

** ifsaux/utilities/erien.F90:
Restore file "erien.F90", removed by mistake.*

Projects: arpifs, ifsaux, odb

Git branch: gco_CY44_cy45

GUILLAUME Frank

Doc:

- 1) *Bator.F90: add use of module BATOR_DECODNETCDF_MOD.*
- 2) *bator_decodbufr_mod.F90: bugfix in decoding of drifting buoys.*

NO NUMERICAL IMPACT IS EXPECTED.

Projects: odb

Git branch: guillaum_CY44_bugfix_for45

Modified:

odb/pandor/module	bator_decodbufr_mod.F90
odb/tools	Bator.F90

Doc:

Changes in date/hour checking in several obstypes subroutines.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: odb

Git branch: guillaum_CY44_fix_check_date

Modified:

odb/pandor/module	bator_decodbufr_mod.F90
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Doc:

Fix for trace precipitations and light and variable wind.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: odb

Git branch: guillaum_CY44_fix_wind_rr

Modified:

odb/pandor/module	bator_decodbufr_mod.F90
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MARSDEN Olivier

Doc:

1) Preliminary version of pre-cycle CY45.

2) First version of pre-cycle CY45 .

Projects: aeolus, arpifs, ifsaux, odb, oopsifs, radiation, satrad, trans

Git branch: gco_CY44_main.01%cy45

Deleted:

arpifs/control	allfpos.F90
arpifs/dia	capeshear.F90
arpifs/fullpos	fullpos_drv.F90, sufppfields.F90, sufppmodelgeo.F90, sufppusergeo.F90
arpifs/module	easy_netcdf.F90, ec_phys_fields_mod.F90, field_container_oper_mod.F90, fullpos_oops_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_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, traj_physics_mod_oops.F90, type_fpfields.F90, type_fpusergeo.F90, type_model.F90, yom_phys_grid.F90, yomcoaphy.F90, yomfpfields.F90, yomfpusergeo.F90
arpifs/oops	ec_phys_drv_ad_oops.F90, ec_phys_drv_tl_oops.F90, error_covariance_param_mod.F90, stepo_oops_traj.F90, stepo_traj_oops.F90, stepotl_traj_oops.F90
arpifs/phys_ec	ec_phys_fields_mod.F90
arpifs/setup	sucoaphy.F90, suecphypo.F90
arpifs/utility	spec_fields_interp.F90
odb/ddl.ERACOUNTRYTTABLE11	table11_hdr.sql
odb/ddl.ERACOUNTRYTTABLE12	table12_hdr.sql
odb/ddl.PSBIAS	psbias_compress_method_0.sql, psbias_compress_method_1a.sql, psbias_compress_method_1b.sql, psbiasbody.sql, psbiasbody_maintenance.sql, psbiashdr.sql, psbiashdr_maintenance.sql
odb/ddl.SONDETYPES	sondehdr.sql
odb/ddl	psbias_compress_method_0.sql, psbias_compress_method_1a.sql, psbias_compress_method_1b.sql, psbiasbody.sql, psbiasbody_maintenance.sql, psbiashdr.sql, psbiashdr_maintenance.sql, sondehdr.sql, table11_hdr.sql, table12_hdr.sql

Renamed:

arpifs/module radiation_ifs_rrtm.F90 radiation/module/radiation_ifs_rrtm.F90, radiation_interface.F90
radiation/module radiation/module/radiation_interface.F90, radiation_setup.F90 radiation/module/radiation_setup.F90
radiation_ifs_rrtm.F90 arpifs/module/radiation_ifs_rrtm.F90, radiation_interface.F90
arpifs/module/radiation_interface.F90, radiation_setup.F90 arpifs/module/radiation_setup.F90

Added:

arpifs/adiab cpg_gpb_nhgeogw.F90, cppfttcdir.F90, cppfttcinv.F90, gnh_conv_nhvar_geogw.F90,
gp_tndlagadiab_uv_geogw.F90, lanhsi_geogw.F90, sivderi.F90, spnhsi_geogw.F90
arpifs/control allfpos.F90
arpifs/dia foutcnorm.F90, gptcnorm.F90, wrtcfou.F90
arpifs/fullpos fullpos_drv.F90, ini3wrfp.F90, sufpfields.F90, sufpmodelgeo.F90, sufpusergeo.F90
arpifs/module easy_netcdf.F90, ec_phys_fields_mod.F90, field_container_oper_mod.F90, fullpos_oops_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_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, traj_physics_mod_oops.F90, type_fpfields.F90, type_fpusergeo.F90,
type_model.F90, yom_phys_grid.F90, yomcoaphy.F90, yomfftc.F90, yomfpct0.F90, yomfpfields.F90,
yomfpusergeo.F90, yompong.F90
arpifs/namelist nampong.nam.h
arpifs/oops ec_phys_drv_ad_oops.F90, ec_phys_drv_tl_oops.F90, error_covariance_param_mod.F90,
stepo_oops_traj.F90, stepo_traj_oops.F90, stepotl_traj_oops.F90
arpifs/parallel disfou.F90, diwrfou.F90
arpifs/phys_ec ec_phys_fields_mod.F90
arpifs/setup sualfoutc.F90, sucoaphy.F90, suecphypo.F90, sunhbmata_geogw.F90, surcof.F90, surcoftc.F90,
suspectcfou.F90
arpifs/utility dealtc.F90, spec_fields_interp.F90
oopsifs/src/ifs ObsBias.interface.F90, ObsBiasCovariance.interface.F90, ObsBiasIncrement.interface.F90

Modified:

aeolus/KNMI_ASCII_data_file_handling adm_write_ascii_data.F90
aeolus/L2C_construction append_l2c.F90
aeolus/support TestLexer.F90

arpifs/adiab

call_sl.F90, call_sl_ad.F90, call_sl_heap.F90, call_sl_stack.F90, call_sl_tl.F90, cp_forcing.F90,
cp_ptrslb1.F90, cpedia.F90, cpeuldyn.F90, cpeuldynad.F90, cpeuldyn_tl.F90, cpfhpf.F90, cpg.F90, cpg2.F90,
cpg25.F90, cpg2ad.F90, cpg2lag.F90, cpg2lagad.F90, cpg2lag_tl.F90, cpg2tl.F90, cpg5.F90, cpg5_gp.F90,
cpg_dia.F90, cpg_drv.F90, cpg_drv_ad.F90, cpg_drv_tl.F90, cpg_dyn.F90, cpg_dyn_ad.F90, cpg_dyn_tl.F90,
cpg_end.F90, cpg_end_ad.F90, cpg_end_tl.F90, cpg_gp.F90, cpg_gp_ad.F90, cpg_gp_tl.F90, cpg_pt.F90,
cpg_pt_ulp.F90, cpg_zero_ad.F90, cpgad.F90, cpglag.F90, cpglagad.F90, cpglag_tl.F90, cpgtl.F90,
cpphinp.F90, cpphinptl.F90, cpqsol.F90, cpqtuv.F90, cptend.F90, cptend_flex.F90, cptend_new.F90,
cptends.F90, cptendsm.F90, cptendsmad.F90, cptendsmat.F90, cptendsmtl.F90, cputqy.F90,
cputqy_arome.F90, cputqys.F90, cputqysad.F90, cputqystl.F90, cpwts.F90, cttotvad.F90, cttotvtl.F90,
ctvtot.F90, ctvtotad.F90, ctvtotl.F90, fspglh.F90, gnh_conv_nhvar.F90, gp_derivatives.F90, gp_kappa.F90,
gp_kappaad.F90, gp_kappat.F90, gp_kappatad.F90, gp_kappatl.F90, gp_kappatl.F90, gp_spv.F90,
gp_spvad.F90, gp_spvtl.F90, gp_tndlagadiab_uv.F90, gp_tndlagadiab_uv_ad.F90, gp_tndlagadiab_uv_tl.F90,
gpaddslphy.F90, gpcty_forc.F90, gpept.F90, gpiaw.F90, gpiet.F90, gpinislb.F90, gpinislbad.F90,
gpino3ch.F90, gpinozst.F90, gpmasscor.F90, gpmktend.F90, gpmktendad.F90, gmpmfc.F90, gmpmfc5.F90,
gpnox.F90, gpnoxad.F90, gpnoxtl.F90, gpnspng.F90, gppwcvfe.F90, gprh_2d.F90, gprtad.F90, gprttl.F90,
gpstress.F90, gptf1.F90, gptf1ad.F90, gptf1pc.F90, gptf2.F90, gptf2ad.F90, gptf2pc.F90, gpvcrs.F90,
gpvcts.F90, lacdyn.F90, lacdynad.F90, lacdynshw.F90, lacdynshwad.F90, lacdynshwtl.F90, lacdyntl.F90,
ladad.F90, ladine.F90, ladinead.F90, ladinetl.F90, lainor2.F90, lainor2ad.F90, lainor2tl.F90, laitre_gfl.F90,
laitre_gfl_ad.F90, laitre_gfl_tl.F90, laitre_gmv.F90, laitre_gmv_ad.F90, laitre_gmv_tl.F90, lanhsi.F90,
lanhsib.F90, lapinea.F90, lapinea5.F90, lapineaad.F90, lapineatl.F90, lapineb.F90, lapinebad.F90,
lapinebtl.F90, larche.F90, larche5.F90, larchead.F90, larchetl.F90, larcin2.F90, larcin2ad.F90, larcin2tl.F90,
larcina.F90, larcinaad.F90, larcinatl.F90, larcinb.F90, larcinb5.F90, larcinbad.F90, larcinbtl.F90, larcinha.F90,
larcinhb.F90, larmes.F90, larmes2.F90, larmes25.F90, larmes2ad.F90, larmes2tl.F90, larmes5.F90,
larmesad.F90, larmestl.F90, lassie.F90, lassiead.F90, lassietl.F90, lasure.F90, latte_bbc.F90, latte_kappa.F90,
latte_kappaad.F90, latte_kappatl.F90, latte_stdtdis.F90, lattes.F90, lattesad.F90, lattestl.F90, lattex.F90,
lattex_dnt.F90, lattex_dnt_ad.F90, lattex_tnt.F90, lattexad.F90, lattextl.F90, lavabo.F90, lavabotl.F90,
lavent.F90, laventad.F90, laventtl.F90, postphy.F90, pre_sladrep.F90, si_cccor.F90, sidd.F90, siddad.F90,
sigam.F90, sigamad.F90, siptp.F90, siptpad.F90, siseve.F90, sisevead.F90, sitnu.F90, situad.F90, spc2.F90,
spc2ad.F90, spchor.F90, spchorad.F90, spcimpfinit.F90, spcimpfinitad.F90, spcimpfpost.F90,
spcimpfpostad.F90, spcimpfsolve.F90, spcimpfsolvead.F90, spcmascor.F90, spcsi.F90, spcsiad.F90,
specrt.F90, spnh_conv_nhvar.F90, spnh_conv_prhs.F90, spnhsi.F90

arpifs/c9xx

cseai.F90, incli0.F90, incli10.F90, incli2.F90, incli3.F90, incli6.F90, incli7.F90

arpifs/canari

caclsi.F90, caclsst.F90, cacsts.F90, cadavr.F90, cahuax.F90, calife.F90, can1.F90, canari.F90, caohis.F90,
capotx.F90, carcli.F90, casmswi.F90, castas.F90, cavegi.F90

arpifs/chem

aer2massdia.F90, chem_decay.F90, chem_drydep.F90, chem_init.F90, chem_linco.F90, chem_main.F90,

arpifs/phys_ec

apl_arome2intflex.F90, aplmini.F90, aplmphys.F90, aplpar.F90, aplpar2intflex.F90, aplpars.F90, aplparsad.F90, aplparsadt.F90, aplparstl.F90, aplpassh.F90, arocldia.F90, arp_ground_param.F90, bri2acconv.F90, checkmv.F90, cpchet.F90, hlevapprec.F90, hlsnowmelt.F90, initaplar.F90, mf_phys.F90, mf_phys_prep.F90, mf_physad.F90, mf_phystl.F90, mts_phys.F90, open_output_lfa.F90, profilechet.F90, qngcor.F90, sucvmnh.F90, suparar.F90, suphmf.F90, suphmpa.F90, suphmse.F90, suphy0.F90, suphy1.F90, suphy2.F90, suphy3.F90, surf_ideal_flux.F90, sutoph.F90, tridifv1.F90, vdfexcuhl.F90, vdfhghthl.F90, vdfhghtnhl.F90, vdfparcelhl.F90, writechet.F90, writemusc.F90, writephysio.F90, writeprofile.F90, accnemoflux_layer.F90, aer_bdgmtss.F90, aer_cgrowth.F90, aer_clcld.F90, aer_cld.F90, aer_climg.F90, aer_clist.F90, aer_cloud_layer.F90, aer_diag1.F90, aer_dmso.F90, aer_drydep.F90, aer_lidsim.F90, aer_loss.F90, aer_loss_ad.F90, aer_loss_tl.F90, aer_negat.F90, aer_no3nh4.F90, aer_phy1.F90, aer_phy2.F90, aer_phy3.F90, aer_phy3_layer.F90, aer_rad.F90, aer_radon.F90, aer_rrtm.F90, aer_scarb.F90, aer_scarvin.F90, aer_sedimnt.F90, aer_so2so4.F90, aer_src.F90, aer_ssalt.F90, aer_stratcl.F90, aer_tau.F90, aer_tau2mixr.F90, aer_volce.F90, aer_vso2so4.F90, aerc_scav.F90, aerdiag_layer.F90, aerini_layer.F90, aero_init.F90, backscatter_layer.F90, ca_profper.F90, callpar.F90, callparad.F90, callpartl.F90, chem_initflux.F90, chem_main_layer.F90, chemini_layer.F90, clddia_layer.F90, cldpp.F90, cldpp_simplified.F90, cldppad.F90, cldpptl.F90, cldprg_layer.F90, climaer_layer.F90, cloud.F90, cloud_layer.F90, cloud_s_layer.F90, cloudad.F90, cloudsc.F90, cloudst.F90, cloudstad.F90, cloudstl.F90, cloudtl.F90, cloudvar.F90, cond.F90, cond_layer.F90, condad.F90, condtl.F90, convection_ca_layer.F90, convection_layer.F90, convection_s_layer.F90, cos_sza.F90, cover.F90, crm_layer.F90, cuadjtq.F90, cuancape2.F90, cuascn.F90, cuascn2.F90, cuascn2ad.F90, cuascn2tl.F90, cubasen.F90, cubasen2.F90, cubasen2ad.F90, cubasen2tl.F90, cubasmcn.F90, cucalln.F90, cucalln2.F90, cucalln2ad.F90, cucalln2tl.F90, cuccdia.F90, cuccdiaad.F90, cuccdiatl.F90, cuctracer.F90, cuctracerad.F90, cuctraceratl.F90, cuddrafn.F90, cuddrafn2.F90, cuddrafn2ad.F90, cuddrafn2tl.F90, cudlfsn.F90, cudtdqn.F90, cudtdqn2.F90, cudtdqn2ad.F90, cudtdqn2tl.F90, cudtdqnad.F90, cudtdqntl.F90, cududv.F90, cududv2.F90, cududv2ad.F90, cududv2tl.F90, cududvad.F90, cududvtl.F90, cuentr.F90, cuflx2.F90, cuflx2ad.F90, cuflx2tl.F90, cuflxn.F90, cuinin.F90, cuinin2.F90, cuinin2ad.F90, cuinin2tl.F90, culight.F90, culightad.F90, culighttl.F90, culinnox.F90, cumastrn.F90, cumastrn2.F90, cumastrn2ad.F90, cumastrn2tl.F90, cupdra.F90, cupdraad.F90, cupdratl.F90, custrat.F90, define_pointers_mp9.F90, diag_clouds.F90, ec_phys.F90, ec_phys_ad.F90, ec_phys_drv.F90, ec_phys_drv_ad.F90, ec_phys_drv_tl.F90, ec_phys_lslphy.F90, ec_phys_tl.F90, fireinj.F90, gems_init.F90, gems_init_ad.F90, gems_init_tl.F90, gems_tend.F90, gems_tend_ad.F90, gems_tend_tl.F90, ghg_main.F90, gwdrag.F90, gwdrag_layer.F90, gwdrag_wms.F90, gwdrag_wmss.F90, gwdrag_wmssad.F90, gwdrag_wmssstl.F90, gwdragad.F90, gwdrags.F90, gwdragtl.F90, gwdragwms_layer.F90, gwdragwms_s_layer.F90, gwprofil.F90, gwprofilad.F90, gwprofiltl.F90, gwsetup.F90, gwsetupad.F90, gwsetuptl.F90, heldsuarez.F90, ini_spp.F90, liftemis.F90, lightning_layer.F90, local_arrays_ini.F90, local_state_ini.F90, m7.F90, m7_delcoa.F90, m7_dgas.F90, m7_dnum.F90, m7_drydep.F90, m7_emi.F90,

m7_emi_car.F90, m7_emi_du.F90, m7_emi_so2.F90, m7_interface.F90, m7_negat.F90,
 m7_sedimentation.F90, nemoaddflds_layer.F90, nocloud.F90, noconvection.F90, o3chem.F90, phys_ad.F90,
 phys_arrays_ini.F90, phys_nl.F90, phys_tl.F90, postphy_layer.F90, qnegat.F90, qsupersatclip.F90,
 restore_vdfout.F90, rndecay.F90, sltend.F90, sltend_layer.F90, spbsgpupd.F90, sppten.F90, spptgfix.F90,
 state_update.F90, stochpert_layer.F90, store_traj_phys_layer.F90, su_aerm7.F90, su_aerop.F90, su_aerp.F90,
 su_aerv.F90, su_aervole.F90, su_aerw.F90, su_ghgclim.F90, suaerh.F90, suaerv.F90, suclt.F90, sucltp.F90,
 suclopn.F90, sucond.F90, sucumf.F90, sucumf2.F90, suecaec.F90, suecozv.F90, sugwd.F90, sugwwms.F90,
 suphec.F90, suphli.F90, surfbc_layer.F90, surfrad_layer.F90, surftstp_layer.F90, surftstp_s_layer.F90,
 suwcou.F90, turbulence_layer.F90, turbulence_s_layer.F90, update_fields.F90, updtier.F90, vdfdifh.F90,
 vdfdifhs.F90, vdfdifhsad.F90, vdfdifhstl.F90, vdfdpbl.F90, vdfdpbls.F90, vdfeis.F90, vdfexcu.F90,
 vdfexcus.F90, vdfexcusad.F90, vdfexcustl.F90, vdfhghtn.F90, vdfmain.F90, vdfmains.F90, vdfmainsad.F90,
 vdfmainstl.F90, vdfouter.F90, wvcouple.F90, wvwg2rg.F90, wvxf2gb.F90
 arpifs/phys_radi
 acradcoef.F90, acradin.F90, acrads.F90, acradsad.F90, acradstl.F90, acralu.F90, acraneb.F90, acraneb2.F90,
 acraneb_coefs.F90, acraneb_solvs.F90, acraneb_solvt.F90, acraneb_solvt3.F90, acraneb_trans.F90,
 acraneb_transs.F90, acraneb_transt.F90, acrs0.F90, cloud_overlap_decorr_len.F90, ecradfr.F90,
 ecradfr15.F90, hlrad.F90, ice_effective_radius.F90, liquid_effective_radius.F90, lw.F90, lwad.F90, lwai.F90,
 lwaiad.F90, lwaitl.F90, lwbad.F90, lwbv.F90, lwbvad.F90, lwbvlt.F90, lwc.F90, lwcad.F90, lwctl.F90,
 lwinterf.F90, lwneur.F90, lwpad.F90, lwpvl.F90, lwvl.F90, lwu.F90, lwuad.F90, lwutl.F90, lwv.F90,
 lwvad.F90, lwvbad.F90, lwvbrad.F90, lwvd.F90, lwvdad.F90, lwvdr.F90, lwvdrad.F90, lwvnrad.F90,
 lwvnrad.F90, lwvnl.F90, mcica_cld_gen.F90, mcica_cld_generator.F90, radaca.F90, radact.F90, radaer.F90,
 radaer15.F90, radcfg.F90, raddiag.F90, raddrv.F90, radflux_layer.F90, radghg.F90, radheat.F90,
 radheat15.F90, radheatad.F90, radheatn.F90, radheattl.F90, radiation_layer.F90, radiation_scheme.F90,
 radina.F90, radinaad.F90, radinatl.F90, radintg.F90, radlsw.F90, radlswad.F90, radlswr.F90, radlswtl.F90,
 radpar.F90, radvis.F90, radvis_layer.F90, recmwf.F90, rfmr.F90, rrtm_ecrt_140gp.F90,
 rrtm_ecrt_140gp_mcica.F90, rrtm_rrtm_140gp.F90, rrtm_rrtm_140gp_mcica.F90, srtm_spcvrt.F90,
 srtm_spcvrt_mcica.F90, srtm_srtm_224gp.F90, srtm_srtm_224gp_mcica.F90, su_mcica.F90, su_uvradi.F90,
 sualb2si.F90, suecozc.F90, suecozcaqua.F90, suecrad.F90, suecrad15.F90, sulwneur.F90, suovlp.F90,
 surdi.F90, surdi15.F90, surrtmcf.F90, suswn.F90, sw.F90, sw1s.F90, sw1sad.F90, sw1stl.F90, swad.F90,
 swclr.F90, swclrad.F90, swclrtl.F90, swde.F90, swni.F90, swniad.F90, swnitl.F90, swr.F90, swrad.F90,
 swrtl.F90, swtl.F90, swu.F90, swuad.F90, swutl.F90, updtier15.F90, uvclr.F90, uvflx.F90, uvflxa.F90,
 uvr.F90, uvradi.F90, uvradi_layer.F90
 arpifs/pp_obs
 arpifs/programs
 arpifs/raingg
 arpifs/sekf
 apache.F90, pos.F90, pos_prepgfl.F90, ppreq.F90, ppreset.F90, ppthpw.F90, ppwetpoint.F90
 io_serv.F90, master.F90
 raingg_setup.F90
 sekf_write.F90, sm_ekf_main.F90, susekf.F90

arpifs/setup

allocate_empty_trajectory.F90, modgrin.F90, rdfa2sp.F90, su0phy.F90, su0yoma.F90, su0yomb.F90, su1yom.F90, su2yom.F90, su_grib_api.F90, su_surf_flds.F90, suafn.F90, suafn1.F90, suafn2.F90, suafn3.F90, sualdyn.F90, sualdynb.F90, suallo.F90, sualnud.F90, submat.F90, sucape.F90, sucfu.F90, sucom.F90, sucpl0.F90, suct1.F90, suctrl_gflattr.F90, sudcmip12_gu.F90, sudefo_gflattr.F90, sudefo_tstep.F90, sudimf1.F90, sudimf2.F90, sudyn.F90, sufa.F90, sufpinif.F90, sugfl.F90, sugfl1.F90, sugfl2.F90, sugfl3.F90, sugpqlim.F90, sugrcfu.F90, sugrclia.F90, sugrib.F90, sugrida.F90, sugrida_fix_toz.F90, sugrida_fixup.F90, sugridf.F90, sugridg.F90, sugrido.F90, sugridu.F90, sugridua.F90, sugridua_fixup.F90, sugridua_map_part1.F90, sugridua_map_part2.F90, sugridug.F90, sugridug1.F90, sugridug2.F90, sugridva.F90, sugrxfu.F90, suhdf.F90, suhdf2.F90, suhdf_ec.F90, suhdir.F90, suhdu.F90, suhdvp.F90, suhdvnp.F90, suheg.F90, suhlconst.F90, suiau.F90, suiauinif.F90, suinif.F90, suinimoderr.F90, suintflex.F90, sulsforc.F90, sumcc.F90, sumcclag.F90, sumcuf.F90, sumisc_spec.F90, sump0.F90, sumts.F90, sunhbmatt.F90, sunhheg.F90, sunhsi.F90, sunhsi_testconv.F90, sunud.F90, suoph.F90, suphy.F90, supp.F90, suptrgppc.F90, surand1.F90, surand2.F90, surayfric.F90, surcordi.F90, surcordi_th.F90, sures.F90, surip.F90, surlx.F90, susavtend.F90, susc2b.F90, susc2c.F90, susi.F90, susimpr.F90, suslad1.F90, suslad2.F90, suslad3.F90, suslb.F90, suslb2.F90, suspe0.F90, suspec.F90, suspeca.F90, suspeca_fixup.F90, suspeca_gp.F90, suspeca_map_part1.F90, suspeca_map_part2.F90, suspecb.F90, suspecg.F90, suspecg1.F90, suspecg2.F90, suspjpg.F90, suspsdt.F90, sutrajp.F90, suvareps.F90, suxfu.F90, updcelaut.F90

arpifs/sinvect

balanced_reduction.F90, chnorm.F90, cun1.F90, cun2.F90, eof_matrix.F90, lcnorad.F90, lcnortl.F90, nalan1.F90, opk.F90, rdtllcz.F90, su_subspace.F90, suforce.F90, sulcz.F90, vdiflcz.F90, vdiflczad.F90, vdiflcztl.F90, wrtllcz.F90, wrtsv.F90

arpifs/transform

relaxgp.F90, transdir_mdl.F90, transdir_mdlad.F90, transdir_wavelet.F90, transdir_waveletad.F90, transdirh.F90, transdirhad.F90, transinv_mdl.F90, transinv_mdlad.F90, transinv_nhconv.F90, transinv_nhconvprhs.F90, transinv_wavelet.F90, transinv_waveletad.F90, transinvh.F90, transinvhad.F90

arpifs/utility

add3to5.F90, add5to3.F90, addbgs.F90, addfgs.F90, dealfpos.F90, deallo.F90, dealmod.F90, dealsc2.F90, dealspa.F90, forecast_days_calc.F90, gpnorm_gfl.F90, gstats_output_ifs.F90, openfa.F90, openfainfo.F90, prtime.F90, rdfa2gp.F90, rdmoderr.F90, rdphtrajt.F90, rdradcoef.F90, rdspec.F90, read_surfgrid_traj_fromfa.F90, reset_accfie_vareps.F90, save_evecs.F90, save_merr_tend.F90, save_test4dinc.F90, savmoderr.F90, sbs5to3.F90, sbsbgs.F90, sbsfgs.F90, state2spec.F90, state2specad.F90, sualspa1.F90, suspvariables.F90, swap53.F90, swap73.F90, tsl.F90, updmooon.F90, updrxref.F90, updtim.F90, wrgp2fa.F90, write_ctlvec_grib.F90, write_grid_grib.F90, write_grid_traj.F90, write_wavelet_initcv_grib.F90, wrresf.F90

arpifs/var

add_moderr_tl.F90, adtest.F90, aerlid_setup.F90, bgevecs.F90, bgpert.F90, bgvecs.F90, cain.F90, cainad.F90, cainin.F90, caininad.F90, chavar.F90, chavarad.F90, chavarin.F90, chavarinad.F90, chkobtim.F90, congrad.F90, cosens.F90, cosjc.F90, cosjl.F90, cosjr.F90, cossmq.F90, costra.F90, cvar2.F90, cvar2ad.F90, cvar2in.F90, cvar2inad.F90, cvar3.F90, cvar3ad.F90, cvar3in.F90, cvar3inad.F90, cvaru2ad.F90, deallt.F90,

	diag_filter.F90, djbdy.F90, estsig.F90, evcost.F90, evjcdfi.F90, fltbgcalc.F90, fltbgvarens.F90, get_traj_phys.F90, getmini.F90, grbspa.F90, grtest.F90, inflation_pert.F90, jbchvar.F90, jbchvarad.F90, jbchvari.F90, jbchvariad.F90, lchtcalc.F90, littest.F90, preppcm.F90, rd801.F90, rdfpinc.F90, rdnhtrajm.F90, rdphtrajm.F90, rdphtrajtm.F90, rdphtrajtm_nl.F90, sacmac1.F90, savmini.F90, savmini2.F90, sualcos.F90, suallt.F90, suallt7.F90, suanebuf.F90, sucos.F90, suecgcs.F90, suensmem.F90, suinfce.F90, suinrenormfce.F90, subj.F90, subjcov.F90, subjcovsignal.F90, subjdat.F90, subjtest.F90, subjvarens.F90, subjwavelet.F90, subjwavelet_stdevs.F90, subjwavgen.F90, subjwavgen_hybraw.F90, subjwavrenorm.F90, subjwavstats.F90, subjwavtrans.F90, subjwavwri.F90, sujc.F90, sujq.F90, sujqstd.F90, sumoderr.F90, suprecov.F90, suprepjcdfi.F90, suqnorm.F90, surad.F90, sureo3.F90, suscal.F90, suscal_jb.F90, suspqlim_part2.F90, suvazx.F90, suvifce.F90, symtransin.F90, taskob.F90, taskob_thread.F90, taskobad.F90, taskobad_thread.F90, taskobtl.F90, taskobtl_thread.F90, tprop.F90, tltest.F90, upspec.F90, varcalc.F90, vec2gp.F90, wrchres.F90, writelct.F90, writesd.F90, writestd.F90, writetmp.F90, wrnhtrajm.F90, wrphtrajm.F90, wrphtrajtm.F90, wrphtrajtm_nl.F90, xforme.F90
ifsaux/include	eggx_n.h
ifsaux/utilities	eggx_n.F90
odb/build	Install, build_odb, export_source_code, lib_links, module_links, odb_init_sh
odb/perl	calltree.pl, checkargs.pl, cmdbgen.pl, ddltree.pl, dumptree.pl, find_use.pl, genddl.pl, inc2h.pl, mdbkeys.pl, robfilt.pl, screening.pl, skeleton.pl
oopsifs/cmake	FindIFS.cmake
oopsifs/src/ifs	CMakeLists.txt, FieldsIFS.cc, FieldsIFS.interface.F90, GomData.interface.F90, IfsFortran.h, LinearModelIFS.cc, LinearModelIFS.h, ModelIFS.interface.F90, ObsBias.cc, ObsBias.h, ObsBiasCovariance.cc, ObsBiasCovariance.h, ObsBiasIncrement.cc, ObsBiasIncrement.h, ObsVector.cc, ObsVector.interface.F90, StateIFS.cc, StateIFS.h, mpi_wrapper.F90
satrad/rttov/ifs	phrtsetup.F90
trans/external	dir_transad.F90

MARSDEN Olivier & al

Doc:

Pre-cycle CY45 in version 07, back from ECMWF.

Projects: arpifs, ifsaux, odb, oopsifs, trans

Git branch: gco_CY44_cy45.06%ecmwf

Deleted:

arpifs/oops	stepo_traj_oops.F90
ifsaux/utilities	erien.F90
trans/external	pass_mylevs_to_trans.F90
trans/interface	pass_mylevs_to_trans.h

Renamed:

arpifs/control	stepo_oops.F90 arpifs/oops/stepo_oops.F90
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Added:

arpifs/module	fspgl_mod.F90
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Modified:

arpifs/adiab	fspglh.F90
arpifs/control	stepo.F90, stepotl.F90
arpifs/fullpos	stepo_fpos.F90
arpifs/module	fields_mod.F90, fullpos_oops_mod.F90, geometry_setup_mod.F90, gom_mod.F90, gom_plus.F90, model_mod.F90, yomgmv.F90
arpifs/oops	error_covariance_3d_mod.F90, fields_io_mod.F90, ifs_init.F90, stepo_oops_traj.F90, stepotl_oops.F90
arpifs/op_obs	hop.F90, map_varno_to_nvar.F90, obsop_conv.F90
arpifs/phys_ec	su_aerw.F90, vdfmainsad.F90, vdfmainstl.F90, vdfouter.F90
arpifs/phys_radi	acradin.F90, acraneb.F90, acraneb2.F90, lw.F90, lwad.F90, lwbv.F90, lwbvad.F90, lwbvtl.F90, lwpad.F90, lwptl.F90, lwtl.F90, lwv.F90, lwvad.F90, mcica_cld_gen.F90, radcfg.F90, raddrv.F90, radflux_layer.F90, radiation_layer.F90, radiation_scheme.F90, radina.F90, radinaad.F90, radinatl.F90, radintg.F90, radlsw.F90, radlswad.F90, radlswr.F90, radlswtl.F90, radpar.F90, radvis_layer.F90, recmwf.F90, rrtm_rrtm_140gp.F90, rrtm_rrtm_140gp_mcica.F90, srtm_setcoef.F90, srtm_srtm_224gp.F90, srtm_srtm_224gp_mcica.F90, suecrad.F90, sw.F90, sw1sad.F90, sw1stl.F90, swad.F90, swni.F90, swniad.F90, swnitl.F90, swrad.F90,

arpifs/setup	swtl.F90, uvflx.F90, uvflxa.F90, uvradi.F90, uvradi_layer.F90
arpifs/transform	get_spp_conf.F90, su_surf_flds.F90, sugeometry.F90, sugfl2.F90, sugfl3.F90, suspeca.F90
arpifs/utility	transinv_mdl.F90, transinvh.F90
arpifs/var	spec_fields_interp.F90, wrgp2fa.F90
ifsaux/utilities	suecgcs.F90
odb/module	sha256_hash.c, sha256_wrapper.F90
oopsifs/src/ifs	odbiomap.F90
	AllObs.cc, AllObs.h, AllObs.interface.F90, AllObsCovariance.interface.F90, AllObsTLAD.cc, AllObsTLAD.h, AllObsTLAD.interface.F90, FieldsIFS.cc, FieldsIFS.h, FieldsIFS.interface.F90, GomData.cc, GomData.h, GomData.interface.F90, GomsIFS.h, IFSFortran.h, IncrementIFS.cc, IncrementIFS.h, LinearModelIFS.cc, LinearModelIFS.h, LocationsIFS.cc, ModelIFS.cc, ModelIFS.h, ModelIFS.interface.F90, RunTestIFS.cc, StateIFS.cc, StateIFS.h, VariablesIFS.h
trans/external	inv_trans.F90
trans/module	dealloc_resol_mod.F90, fspgl_int_mod.F90, ltinv_ctl_mod.F90, ltinv_mod.F90, tpm_distr.F90

MARY Alexandre

Doc:

Miscellaneous fixes.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs

Git branch: mary_CY44_fixes4v6

Modified:

aladin/c9xx	ebicli.F90
aladin/coupling	elswa3.F90
aladin/setup	suedyn.F90
arpifs/module	erlbc_mod.F90
arpifs/phys_dmn	suphmf.F90
arpifs/setup	su0yomb.F90, su_surf_flds.F90
arpifs/utility	wrgp2fa.F90

Doc:

End of spamming and technical changes from ECMWF for CY45 + mse/mpa/aladin phasing.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs, mse, oopsifs, satrad

Git branch: mary_CY44_merge_olivier11mai

Added:

arpifs/module	parphy.F90
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Modified:

aladin/adiab	elarmes.F90, elarmes5.F90, elarmesad.F90, elarmestl.F90
aladin/c9xx	eincli1.F90, eincli10.F90
aladin/setup	elsac.F90, sueqlimsat.F90
aladin/var	einflcalc.F90, suescal.F90

aladin/wavelet

arpifs/adiab

arpifs/chem

arpifs/control

arpifs/fullpos

arpifs/module

arpifs/namelist

arpifs/obs_preproc

arpifs/oops

arpifs/op_obs

arpifs/phys_dmn

suejwav_read_siglab.F90

cpeuldynad.F90, cpeuldynl.F90, cpg_dyn.F90, cpg_dyn_ad.F90, cpg_dyn_tl.F90, cpg_gp_ad.F90, cpg_gp_tl.F90, cpglagad.F90, cpglagtl.F90, cttotvad.F90, cttotvtl.F90, ctvtotad.F90, ctvtotl.F90, fspglh.F90, gp_tndlagadiab_uv.F90, gp_tndlagadiab_uv_ad.F90, gp_tndlagadiab_uv_tl.F90, gprcpad.F90, gprcptl.F90, gprrad.F90, gprrtl.F90, lassiead.F90, lassietl.F90

chem_noxadv.F90

cnt0.F90, cnt3_femars.F90, cprep1.F90, cuconvca.F90, stepo.F90, stepo_oops.F90, stepotl.F90

gridfpos.F90

ddh_mix.F90, field_container_gp_mod.F90, field_gfl_wrapper.F90, fields_base_mod.F90, fields_mod.F90, geometry_mod.F90, geometry_setup_mod.F90, gfl_subs_mod.F90, gom_plus.F90, intdynsl_mod.F90, model_mod.F90, model_physics_general_mod.F90, ptrgppc.F90, ptrslb1.F90, ptrslb15.F90, ptrslb2.F90, radiation_interface.F90, radiation_setup.F90, rrtmg_sw_refra.F90, spng_mod.F90, stoph_mix.F90, supergom_class.F90, surface_fields_mix.F90, traj_global_mod.F90, traj_physics_mod_oops.F90, trajectory_mod_oops.F90, type_model.F90, yoe_cuconvca.F90, yoe_mcica.F90, yoe_uvrad.F90, yoeaerd.F90, yoeaermap.F90, yoeclad.F90, yoecladp.F90, yoeclnd.F90, yoeumf.F90, yoeumf2.F90, yoedbug.F90, yoegwd.F90, yoegwdwms.F90, yoegwwms.F90, yoelwrad.F90, yoeneur.F90, yoeovlp.F90, yoerdi.F90, yoerip.F90, yoevdf.F90, yoewcou.F90, yomaerd15.F90, yomarphy.F90, yomatlas.F90, yomcddh.F90, yomcfu.F90, yomchem.F90, yomcom.F90, yomcompo.F90, yomcou.F90, yomcumfs.F90, yomcvmnh.F90, yomdim.F90, yomdimv.F90, yomdyn.F90, yomdyna.F90, yomgem.F90, yomgfl.F90, yomgpddh.F90, yomlap.F90, yomladdh.F90, yomleg.F90, yommcc.F90, yommddh.F90, yommp.F90, yommse.F90, yomncl.F90, yomozo.F90, yompaddh.F90, yomparar.F90, yomphy3.F90, yomphyds.F90, yomprad.F90, yomradf.F90, yomrandom_streams.F90, yomrcoef.F90, yomsddh.F90, yomsimphl.F90, yomslphy.F90, yomslrep.F90, yomspddh.F90, yomsphyhist.F90, yomsrftlad.F90, yomsta.F90, yomstadlr.F90, yomtddh.F90, yomtnh.F90, yomtoph.F90, yomtrc.F90, yomvdoz.F90, yomvert.F90, yomvsplip.F90, yomxfu.F90, yophlc.F90, yophnc.F90

namdyn.nam.h, namdyna.nam.h

defrun.F90

ec_phys_drv_oops.F90, error_covariance_3d_mod.F90, fields_interp_mod.F90, fields_io_mod.F90, obs_space_mod.F90, stepo_oops_traj.F90, stepo_traj_oops.F90, stepoad_oops.F90, stepotl_oops.F90, stepotl_traj_oops.F90

cobs.F90, cobsall.F90, exchco.F90, exchco_vdf.F90, exchco_vdfad.F90, exchco_vdftl.F90, exchcoad.F90, exchcotl.F90, radtr_ml_tl.F90, rousea.F90, rouseaad.F90, rouseatl.F90, z0sea.F90, z0seaad.F90, z0seatl.F90

acbl89.F90, acevolet.F90, aclender.F90, acmicro.F90, acpluiz.F90, actke.F90, acturb.F90, advprcs.F90, apl_arome.F90, aplpar.F90, cpchet.F90, mf_phys.F90, mf_physad.F90, suphmf.F90, suphmse.F90,

arpifs/phys_ec	vdfexcuhl.F90, vdfhghthl.F90, vdfhghtnhl.F90 aer_wind.F90, callpar.F90, callparad.F90, callpartl.F90, cldpp.F90, cldprg_layer.F90, climaer_layer.F90, convection_layer.F90, convection_s_layer.F90, cubasen.F90, cubasen2.F90, cubasen2ad.F90, cubasen2tl.F90, cucalln.F90, cucalln2.F90, cucalln2tl.F90, custrat.F90, ec_phys_drv.F90, phys_ad.F90, phys_nl.F90, phys_tl.F90, spbsgpupd.F90, sugwwms.F90, suphec.F90, suvdf.F90, vdfdifhs.F90, vdfdifhsad.F90, vdfdifhstl.F90, vdfdifms.F90, vdfdifmsad.F90, vdfdifmstl.F90, vdfdpbl.F90, vdfdpbls.F90, vdfexcu.F90, vdfexcus.F90, vdfexcusad.F90, vdfexcustl.F90, vdfhghtn.F90, vdfincrs.F90, vdfincrsad.F90, vdfincrstl.F90, vdfmain.F90, vdfmains.F90, vdfmainsad.F90, vdfmainstl.F90, vdfouter.F90, vdfstofdc.F90, vdfstofdcs.F90
arpifs/phys_radi	radiation_scheme.F90, radpar.F90, suecrad.F90
arpifs/programs	hop_driver.F90
arpifs/setup	modgrin.F90, sualdyn.F90, sudyn.F90, sudyna.F90, sugfl1.F90, sugfl2.F90, sugridg.F90, suphy.F90, surayfric.F90
arpifs/sinvect	vdiflcz.F90, vdiflczad.F90, vdiflcztl.F90
arpifs/transform	transinv_mdl.F90, transinvh.F90
arpifs/var	jgcori.F90, suecges.F90, sujbdad.F90, supert.F90, trunc_read.F90, vec2gp.F90
mse/externals	aro_surf_diagh.F90, canari_sx_ics.F90, fp2sx1.F90, gridfpossfx_init.F90, prep1_real.F90, prep_step1.F90, sugridsfx.F90, suphmse_surface.F90
mse/interface	fp2sx1.h, gridfpossfx_init.h, prep1_real.h, prep_step1.h, sugridsfx.h, suphmse_surface.h
oopsifs/src/ifs	ErrorCovariance3D.cc, ErrorCovariance3D.h, FieldsIFS.cc, FieldsIFS.h, FieldsIFS.interface.F90, IfsFortran.h, ModelIFS.h, ObsSpaceODB.cc
satrad/rttov/ifs	phrtsetup.F90

Doc:

Last bunch of fixes and cleanings for CY45.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs

Git branch: mary_CY44_oublis_spamming-cleanings

Modified:

aladin/adiab	espchor.F90, espchorad.F90, espcsi.F90, espcsiad.F90, espfilt.F90, espiau.F90, espnhsi.F90
aladin/control	espcm.F90, espcmadv.F90
aladin/coupling	ecoupl1.F90, ecoupl1ad.F90, ecoupl2.F90, ecoupl2ad.F90, elsin0ta.F90, elsrw.F90, elswa3.F90, erlbc.F90, eseimpls.F90, eseimplsad.F90, etenc.F90

aladin/setup	elsac.F90, erlbc_post_req.F90, sueinif.F90
aladin/var	ewrlsgrad.F90
arpifs/adiab	cpg_gp.F90
arpifs/control	cnt4.F90, cnt4ad.F90, cnt4tl.F90, stepo.F90, stepoad.F90, stepotl.F90
arpifs/fullpos	wrgp2fafp.F90, wrsfp.F90
arpifs/module	elbc0b_mod.F90, elbc0c_mod.F90, yemdyn.F90

Doc:

precy45: moves and deletions

reset 2 erroneously reverted files

remove 2 erroneously re-entered files

further fixes

Phasing MF sources (aladin, mse, mpa) w/r/t ECMWF spamming of the MODEL object for CY45.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs, etrans, ifsaux, mpa, mse, satrad, trans

Git branch: mary_CY44_phasing2ok

Deleted:

aladin/utility	euvcopy.F90
arpifs/namelist	namjfh.nam.h
mse/externals	suafn2sfx.F90, suafn3sfx.F90

Renamed:

arpifs/phys_ec	cloud.F90 arpifs/phys_ec/ccloud.F90
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Added:

arpifs/namelist	namjfh.nam.h
ifsaux/include	erien.h
ifsaux/utilities	erien.F90

Modified:

aladin/adiab	elarche.F90, elarche5.F90, elarchead.F90, elarchetl.F90, elarmes.F90, elarmes5.F90, elarmesad.F90, elarmestl.F90, espchor.F90, espchorad.F90, espcsi.F90, espcsiad.F90, especrt.F90, espfilt.F90, espiau.F90, espnhsi.F90
aladin/c9xx	ebicli.F90, eincli1.F90, eincli10.F90, eincli2.F90, eincli3.F90, eincli4.F90, eincli5.F90, eincli6.F90, eincli7.F90, eincli8.F90, eincli9.F90
aladin/control	espcm.F90, espcmad.F90
aladin/coupling	ecoupl1.F90, ecoupl1ad.F90, ecoupl2.F90, ecoupl2ad.F90, elsin0ta.F90, elsrw.F90, elswa3.F90, erlbc.F90, eseimpls.F90, eseimplsad.F90, etenc.F90
aladin/fullpos	esfpf.F90, fpezo2h.F90, fpezzone.F90, fpfillb.F90, posfpbipos.F90, prefpbipos.F90, suefpfg3.F90
aladin/interpol	elascaw.F90, elascawad.F90, elascawtl.F90, eslextpol.F90
aladin/module	eshrinkstretch_mod.F90
aladin/programs	holo.F90, unholo.F90
aladin/setup	elsac.F90, erlbc_post_req.F90, suedyn.F90, suehdf.F90, suehdvnpn.F90, sueheg.F90, sueinif.F90, sueldynb.F90, suenhheg.F90, sueqlimsat.F90, suetrans.F90
aladin/sinvect	echnorm.F90, ewrtsv.F90
aladin/transform	etransdir_jb.F90, etransdir_jbad.F90, etransdir_mdl.F90, etransdir_mdlad.F90, etransdirh.F90, etransdirhad.F90, etransinv_jb.F90, etransinv_jbad.F90, etransinv_mdl.F90, etransinv_mdlad.F90, etransinv_nhconv.F90, etransinv_nhconvprhs.F90, etransinvh.F90, etransinvh_oops.F90, etransinvhad.F90
aladin/utility	create_pert.F90, deello.F90, euvcopy.F90, sp3to7.F90, sp7to3.F90
aladin/var	ecoptra.F90, ecosjr.F90, einflation_pert.F90, einflcalc.F90, evarjk.F90, evarjkini.F90, ewreini.F90, ewritestd.F90, ewrlsgrad.F90, moevar.F90, suejbttest.F90, suelljk.F90, suemodjk.F90, suescal.F90
arpifs/adiab	cpg.F90, cpg_dia.F90, cpg_gp.F90, lapinea.F90, lapinea5.F90, lapineaad.F90, lapineatl.F90, lapineb.F90, lapinebad.F90, lapinebtl.F90, larcina.F90, larcinaad.F90, larcinatl.F90, larcinha.F90, spnh_conv_nhvar.F90, spnh_conv_prhs.F90
arpifs/ald_inc/namelist	nemdyn.nam.h
arpifs/c9xx	inclio.F90
arpifs/canari	can1.F90, canari.F90
arpifs/control	cgr1.F90, cnt0.F90, cnt3.F90, cnt3_lam.F90, cnt4.F90, cnt4ad.F90, cnt4tl.F90, cprep1.F90, cprep3.F90, forecast_error.F90, iopack.F90, stepo.F90, stepoad.F90, stepotl.F90
arpifs/dfi	dfi2.F90, dfi3.F90
arpifs/dia	cpdyddhlag.F90, wrmlppa.F90, wrspeca_map.F90
arpifs/fullpos	fullpos_drv.F90, gridfpos.F90, predynfpos.F90, spaconvert.F90, stepo_fpos.F90, su4fpos.F90, sufpc.F90
arpifs/module	ddh_mix.F90, fields_mod.F90, fullpos_oops_mod.F90, geometry_setup_mod.F90, iospeca_mod.F90,

arpifs/obs_preproc	model_mod.F90, radiation_interface.F90, type_model.F90, yoe_cuconvca.F90
arpifs/oops	defrun.F90 ec_phys_drv_oops.F90, error_covariance_3d_mod.F90, ifs_init.F90, stepo_oops_traj.F90, stepo_traj_oops.F90, stepotl_traj_oops.F90
arpifs/op_obs	slint.F90, slintad.F90
arpifs/phys_dmn	apl_arome.F90, suphmf.F90, suphmse.F90
arpifs/phys_ec	callparad.F90, clddia_layer.F90, cloud.F90, ec_phys_drv.F90
arpifs/phys_radi	radintg.F90, radpar.F90
arpifs/programs	hop_driver.F90
arpifs/setup	su0yoma.F90, su0yomb.F90, su_surf_flds.F90, suarg.F90, sudyn.F90, sufpinif.F90, sugfl2.F90, suauiunif.F90, suinif.F90, sunhsi.F90, suphy.F90, susi.F90
arpifs/sinvect	nalan1.F90, opk.F90
arpifs/var	bgpert.F90, costra.F90, rdfpinc.F90, sujbdad.F90
etrans/external	esetup_trans.F90
ifsaux/include	echien.h
ifsaux/module	eggpack.F90
ifsaux/utilities	echien.F90, eggx_n.F90
mpa/micro/externals	aro_adjust.F90, aro_convbu.F90, aro_rain_ice.F90, aro_startbu.F90
mpa/micro/interface	aro_adjust.h, aro_convbu.h, aro_rain_ice.h, aro_startbu.h
mpa/micro/internals	budget.F90, ice_adjust.F90, rain_ice.F90
mpa/micro/module	modi_budget.F90, modi_ice_adjust.F90, modi_rain_ice.F90
mpa/turb/internals	tke_eps_sources.F90, turb.F90
mpa/turb/module	modi_tke_eps_sources.F90
mse/externals	aro_surf_diag.F90, aro_surf_diagh.F90, aroini_surfa.F90, aroini_surfc.F90, canari_sx_ics.F90, fp2sx1.F90, fp2sx2.F90, gridfpossfx_init.F90, prep1_dumm.F90, prep1_real.F90, prep2_dumm.F90, prep2_real.F90, prep_step0.F90, prep_step1.F90, prep_step2.F90, rdclimosfx.F90, suafn1sfx.F90, suafn2sfx.F90, suafn3sfx.F90, sufpcsf.F90, sugridsfx.F90, suphmse_surface.F90, wrsf.F90
mse/interface	aro_surf_diagh.h, canari_sx_ics.h, fp2sx1.h, fp2sx2.h, gridfpossfx_init.h, prep1_dumm.h, prep1_real.h, prep2_real.h, prep_step0.h, prep_step1.h, prep_step2.h, rdclimosfx.h, suafn2sfx.h, sufpcsf.h, sugridsfx.h, suphmse_surface.h, wrsf.h
mse/module	modd_io_surf_aro.F90
satrad/rttov/ifs	phrtsetup.F90

trans/external

dir_transad.F90

PAYAN Christophe

Doc:

Several fixes for bugs found in CY43/43T2 merged for the pre-CY45:

aladin/var/suejbcov.F90 => call abort1 commented, but SUEJBTEST not more tested!

arpifs/control/cva2.F90 => arguments list fix (PM/FS)

arpifs/module/traj_main_mod.F90 => LELAM part added (TM)

arpifs/module/varbc_rad.F90 => smis predictor's initialization: 30 to 36 changing (VG)

arpifs/module/varbc_eval.F90 => fix (?) "if(a.and.b)" with a=F and b undefined giving seg fault?

arpifs/module/gom_plus.F90 => MF sea-ice based on sst fix (PC)

arpifs/op_obs/obsop_conv.F90 (FS/PM)

=> _ remove various call ABOR1

_ Index corrections into PPOBS -> P.Moll*

_ Correction for Arome RADARs

The obsop_radar call in hop.F90 is before the obsop_conv.F90 (because the pseudo H obs is filled in the vertical pressure coordinate in obsop_radar --> E.Wattrelot)

For radar yset, there is 29,192,and 195 varnos. The obsop_radar.F90 fill the phofx array for the 2 last one.

To avoid an "RMDI scratching" for this information, the solution is to add into the obsop_conv.F90 JVNM loop a statement

"IF(JVNM==VARNO%DOPP .OR. JVNM==VARNO%REFL) CYCLE" at line 306

arpifs/op_obs/map_varno_to_nvar.F90 => NOTVAR handling, initialisation changing, see also hop.F90 (FS)

arpifs/op_obs/co2slicing_ml.F90 => spurious prints

arpifs/op_obs/hop.F90

=> add MUPTRA/=0 statement to avoid the CALL ABOR1 for MF 3dvar line 200 +NOTVAR mecanism changing line 311 (initially confusion between nvar index et nvar value)

arpifs/op_obs/dopplsim_tl.F90

arpifs/op_obs/dopplsim.F90

arpifs/op_obs/dopplsim_ad.F90

arpifs/op_obs/obsop_radar.F90

=> varno handling +cleaning (TM)

arpifs/op_obs/hradp_ml_o3clrt.F90

arpifs/op_obs/hradp_ml_tl.F90

arpifs/op_obs/hradp_ml.F90

arpifs/op_obs/radtr_ml.F90
 arpifs/op_obs/hretr_rad.F90 => optional arg added line 907 LLCO2SLICING=.TRUE. (VG)
 arpifs/phys_dmn/mts_phys.F90
 => reintroduction of MF vertical interpolation recipe for ozone (under "ELSE" of "IF(LECMWF)" block). Improves drastically the fit to IR sensors! Seems to be removed in CY42_r1. Concerns also hradp_* routines (just above) (VG)
 arpifs/pp_obs/ppsta.F90 => rewriting in an optimized way else fails in debug mode (ddt tool)
 arpifs/pp_obs/pprhad.F90
 arpifs/pp_obs/pprhtl.F90
 => PT5/PQ5 order swapping in agreement with the call in ppnew (same order as PQ/PT)
 arpifs/setup/suxfu.F90 => undef pointer initialization, compilation error with option -gO0
 arpifs /setup/surip.F90 => undef pointer initialization, compilation error with option -gO0
 arpifs/utility/rdfa2gp.F90 => IF test splitting else fails in debug mode (ddt)
 ifsaux/module/mpl_init_mod.F90 => LLINIT type change (boolean used as an integer)

EXPECTED IMPACT:

Various effects depending on the correction, view the documentation.

Projects: aladin, arpifs, ifsaux

Git branch: payan_CY44_45v05_bf43t2

Modified:

aladin/var	suejbcov.F90
arpifs/control	cva2.F90
arpifs/module	gom_plus.F90, traj_main_mod.F90, varbc_eval.F90, varbc_rad.F90
arpifs/op_obs	co2slicing_ml.F90, dopplsim.F90, dopplsim_ad.F90, dopplsim_tl.F90, hop.F90, hradp_ml.F90, hradp_ml_o3clrt.F90, hradp_ml_tl.F90, hretr_rad.F90, map_varno_to_nvar.F90, obsop_conv.F90, obsop_radar.F90, radtr_ml.F90
arpifs/phys_dmn	mts_phys.F90
arpifs/pp_obs	pprhad.F90, pprhtl.F90, ppsta.F90
arpifs/setup	surip.F90, suxfu.F90
arpifs/utility	rdfa2gp.F90
ifsaux/module	mpl_init_mod.F90

SEITY Yann

Doc:

These new options are required for 500m horizontal resolution over the Alps for instance.

new namelists options appear in SURFEX namelist NAM_ZS_FILTER

NOPTFILTER = 0 : filtering is done everywhere

NOPTFILTER = 1 : filtering is done at locations where orography is above a threshold

RCOFILTER ! Filtering coefficient

RTHFILTER ! Filtering threshold

EXPECTED IMPACT:

Impact only if one change default namelist values.

Projects: surfex

Git branch: seity_CY44_PGD_orog_filter

Modified:

surfex/OFFLIN

orography_filter.F90, pgd_orog_filter.F90, read_nam_pgd_orog_filter.F90

surfex/SURFEX

zsfilter.F90

Doc:

Bugfix from Françoise Taillefer, concerning a problem of reordering of spectral coefficient of orography field in E923 configuration.

It fixes a pb of 'orography mismatch' between atmosphere/surfex when running model forecasts.

EXPECTED IMPACT:

e923 orography is the only field modified.

Projects: aladin

Git branch: seity_CY44_bf923

Modified:

aladin/c9xx

eincli1.F90

YESSAD Karim

Doc:

MITRAILLETTE environnement update for CY45

Base cy44_cy45.02

Target cy44_cy45.03

"namelist_ref" contains CY44 namelists

NO NUMERICAL IMPACT IS EXPECTED.

Projects: mitraille

Git branch: yessad_CY44_cy45V02cor

Added:

mitraille/procedure

directives_updnam_cy44_to_cy45.py

mitraille/protojobs/beaufix

config_CY45

Modified:

mitraille/doc

history_difnam

mitraille/namelist

GE_C901.nam, GM_C401_HYD_EUL_VFD_ADIAB.nam,
GM_C401_HYD_EUL_VFD_SIM4PHYISBA.nam, GM_C401_HYD_SL2_VFE_ADIAB.nam,
GM_C401_HYD_SL2_VFE_ADIAB_SLHD.nam, GM_C401_HYD_SL2_VFE_SIM4PHYISBA.nam,
GM_C501_HYD_EUL_VFD_ADIAB.nam, GM_C501_HYD_EUL_VFD_SIM5PHYISBA.nam,
GM_C501_HYD_SL2_VFE_ADIAB.nam, GM_C501_HYD_SL2_VFE_ADIAB_SLHD.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_TL798S_lin.nam, GM_C923_TL798S_quad.nam,
GM_FCST_DHYD_EUL_VFD_ADIAB_TL031U.nam,
GM_FCST_DHYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL031U.nam,
GM_FCST_DHYD_SL3_VFD_ADIAB_TL031U.nam,
GM_FCST_HYD_EUL_VFD_ADIAB_TL031U.nam,
GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL031U.nam,
GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_XIDT_TL031U.nam,
GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_VESL_TL031U.nam,
GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL031U.nam,

GM_FCST_HYD_SL3_VFD_ADIAB_TL031U.nam, GM_FCTI_DHYD_EUL_VFD_ADIAB_TL030S.nam,
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mitraille/namelist_ref

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L3_FCTI_HYD_SL2_VFD_ADIAB_SLHD_PGAL.nam,
L3_FCTI_HYD_SL2_VFD_ALRPHYISBA_OLDLACE.nam,
L3_FCTI_HYD_SL2_VFE_ADIAB_PGAL.nam, L3_FCTI_HYD_SL2_VFE_ALRPHYISBA_LACE.nam,
L3_FCTI_HYD_SL2_VFE_ARPPHYISBA_GRANLMRT.nam,
L3_FCTI_HYD_SL2_VFE_ARPPHYISBA_TSTDFI_FRAN.nam,
L3_FCTI_HYD_SL2_VFE_ARPPHYISBA_FRAN.nam, 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_GWADV1_PCF_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_RDBBC1_PCC_FROC.nam,
L3_FCTI_NHE_SL2_VFD_ADIAB_RDBBC1_PCF_FROC.nam,
L3_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_PCF_FROC.nam,
L3_FCTI_NHE_SL2_VFD_ARPPHYISBA_GRANLMRT.nam,
L3_FCTI_NHE_SL2_VFE_ADIAB_GWADV1_PCF_FROC.nam,
L3_FCTI_NHE_SL3_VFD_ADIAB_RDBBC1_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,
L3_PGDI_LELAM_FRANCE.selnam_pgd, aainfo, vide, vv_ddh, vv_phy_AROPHYSFEX,
vv_phy_ARPPHYISBA, vv_phy_SIM1PHYISBA, vv_phy_SIM4PHYISBA, vv_phy_SIM5PHYISBA
mitraille/pro_file PRO_FILE.currentcycle_aldref, PRO_FILE.currentcycle_arpref

Doc:

MITRAILLETTE updates.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: mitraille

Git branch: yessad_CY44_cy45V03cor

Modified:

mitraille/doc	history_difnam
mitraille/namelist	GM_FCTI_HYD_SL2_VFE_ADIAB_SETTLS_NDEC_RW2TLFF_RFRIC_TL030S.nam
mitraille/procedure	directives_updnam_cy44_to_cy45.py

Doc:

MITRAILLETTE updates for V05 (move LDRY_ECMWF from NAMDYN to NAMDYNA).

NO NUMERICAL IMPACT IS EXPECTED.

Projects: mitraille

Git branch: yessad_CY44_cy45V04cor

Modified:

mitraille/doc	history_difnam
mitraille/namelist	GM_C401_HYD_EUL_VFD_ADIAB.nam, GM_C401_HYD_EUL_VFD_SIM4PHYISBA.nam, GM_C401_HYD_SL2_VFE_ADIAB.nam, GM_C401_HYD_SL2_VFE_ADIAB_SLHD.nam, GM_C401_HYD_SL2_VFE_SIM4PHYISBA.nam, GM_C501_HYD_EUL_VFD_ADIAB.nam, GM_C501_HYD_EUL_VFD_SIM5PHYISBA.nam, GM_C501_HYD_SL2_VFE_ADIAB.nam, GM_C501_HYD_SL2_VFE_ADIAB_SLHD.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
mitraille/procedure	directives_updnam_cy44_to_cy45.py

Doc:

Simplification of (E)LASCAW

Layer numbering is now always 1 to KFLEV inside (E)LASCAW.

EXPECTED IMPACT:

- * No numerical impact for configurations which do not use semi-Lagrangian scheme.*
- * Numerical differences may be expected for experiments using semi-Lagrangian scheme, especially those using NH with LGWADV=T.*

Projects: aladin, arpifs

Git branch: yessad_CY44_cy45V04simplifylascaw

Modified:

aladin/interpol

arpifs/adiab

arpifs/interpol

arpifs/op_obs

elaskaw.F90, elascawad.F90, elascawtl.F90

call_sl.F90, lapinea.F90, lapineb.F90, larcin2.F90, larcin2ad.F90, larcina.F90, larcinha.F90, larcinhb.F90

lascaw.F90, lascaw_cla.F90, lascaw_clo.F90, lascaw_vintw.F90, lascaw_vintw_ad.F90, lascaw_vintw_tl.F90,

lascawad.F90, lascawtl.F90, suvsleta.F90

slint.F90, slintad.F90