

ARPEGE MEMORANDUM

From: GCO
Date: Feb 05, 2018
Subject: New cycle CY45T1

A new cycle CY45T1 has been created. This is not a common cycle with ECMWF. The different contributions for this cycle are described in the following pages.

Contributors:

AUGER Ludovic	auger_CY45_cy45_main_mocon
BERRE Loik	berre_CY45_AEARP_FA berre_CY45_lhybridjbF_sujbwavstats_nva2d_new
BOCHENEK Bogdan	bochenek_CY45_prognostic_graupel
BOUTELOUP Yves	boutelou_CY45_b481 boutelou_CY45_b482 boutelou_CY45_b483 boutelou_CY45_b493 boutelou_CY45_b495
CEBRON Pierrick	cebron_CY45_srtm
DEGRAUWE Daan	degrauwe_CY45_alosfx
EL KHATIB Ryad	khatib_CY45_femars_festat khatib_CY45_fposinoops khatib_CY45_t1.01%apache khatib_CY45_t1.01%fix khatib_CY45_t1.02%portfix khatib_CY45_t1.03%crayport
ETCHEVERS Ingrid	etcheversi_CY45_IsoTPW
GCO (& MOENE Toon)	gco_CY45_main.01%ecmwf gco_CY45_t1
GUILLAUME Frank	guillaum_CY45_hirlam45t1.04 guillaum_CY45_phasage_20171010
MARGUINAUD Philippe	marguina_CY45_DXDY marguina_CY45_mainLFINEW

MARY Alexandre	marguina_CY45_mainPREPFA marguina_CY45_mainSURFEXSETUP marguina_CY45_op2fabec marguina_CY45_op2gribdate marguina_CY45_op2timerange mary_CY45_fajpxtro mary_CY45_fix_pgdororad mary_CY45_mcu_f_encapsulation mary_CY45_merge_hajer_cpl mary_CY45_optional_args_boryana
MASEK Jan	masekj_CY45_alaro
MICHEL Yann	michel_CY45_aearo michel_CY45_festat_nc
PAYAN Christophe	payan_CY45_main01_acntcls-ntrl10mfix payan_CY45_main01_apachfix payan_CY45_main01_scatsat1 payan_CY45_t1v3_scatsat1-updt payan_CY45_t1v6_43t2_tailefer_sfx_catchup
POURRET Vivien	pourretv_CY45_test
RAYNAUD Laure	raynaudl_CY45_clustering
SEITY Yann	seity_CY45_ICE3mod seity_CY45_LIMA seity_CY45_LIMA_clean seity_CY45_bfLIMA seity_CY45_bf_Twall_prep seity_CY45_bfororad seity_CY45_from42op_RAF2 seity_CY45_fromFTsfx3
SMOLIKOVA Petra	smolikovap_CY45_nhvfe2
SPANIEL Oldrich	spaniel_CY45_ol_04
SUZAT Florian	suzat_CY45_DrHack suzat_CY45_newMwSats
VOITUS Fabrice	voitus_CY45_DDH_DEBUG
YESSAD Karim	yessad_CY45_cy45t1V01cor

yessad_CY45_cy45t1V02cor
yessad_CY45_cy45t1V03cor
yessad_CY45_cy45t1V04cor
yessad_CY45_cy45t1V05cor
yessad_CY45_cy45t1V06cor
yessad_CY45_cy45t1V07cor
yessad_CY45_nhqe_and_vfenh

AUGER Ludovic

Doc:

Mocon computation in AROME.

EXPECTED IMPACT:

Fullpos outputs changed.

Projects: arpifs

Git branch: auger_CY45_cy45_main_mocon

Modified:

arpifs/fullpos

phymfpos.F90

BERRE Loik

Doc:

1) Use of *SUENSMEM* to read ensemble members as FA files in several AEARP tasks (inflation, sigmab, wavelets), if the key *LFAMEMBERS* is activated.

2) Replacement of *FEMARS/READVEC*, which is deprecated in cy45, and of *RAW* files for the wavelet coefficients computation.

EXPECTED IMPACT:

Since the data encoding is different between FA and FEMARS (GRIB) files, some minor random differences can be expected.

Projects: arpifs

Git branch: berre_CY45_AEARP_FA

Modified:

arpifs/module	yomvar.F90
arpifs/namelist	namvar.nam.h
arpifs/setup	su0yomb.F90
arpifs/utility	openfa.F90, openfainfo.F90
arpifs/var	bgevecs.F90, inflation_pert.F90, lchtcac.F90, suensmem.F90, subjwavgen_hybrav.F90, subjwavstats.F90, suvar.F90, varcalc.F90

Doc:

* Introduction of key *LHYBRID_JB* in *su0yomb.F90* (as in *subjwavstats.F90*), in order to allow possible activation of any the two options (with *LHYBRID_JB=F* and *LJBWSTATS=T* in order to compute a file *wavelet.cv* from scratch, including an optional normalisation ; otherwise, a preexisting file *wavelet.cv* is read, before being optionally updated).

* Replacement of *NS2D* by *CVA_DATA%NVA2D* in *subjwavrenorm.F90*.

EXPECTED IMPACT:

Bugfix for wavelet B computations

Projects: arpifs

Git branch: berre_CY45_lhybridjbF_subjwavstats_nva2d_new

Modified:

arpifs/setup
arpifs/var

su0yomb.F90
subjwavrenorm.F90

BOCHENEK Bogdan

Doc:

Based on the work of Michiel Van Ginderachter and Joris Van den Bergh that was done on ALADIN code cy38, prognostic graupel was phased into ALADIN code cy43t2 (and cy45). Prognostic graupel can be activated with key LGRAPRO in NAMPHY (by default LGRAPRO is set to FALSE), and with adding YG GFL to NAMGFL.

Test cases show less precipitation for experiment with prognostic graupel. For winter days it seems to improve the forecast, as reference produce forecast with too much precipitation, but for summer convection cases prognostic graupel experiments usually have not enough of rain.

EXPECTED IMPACT:

Only for ALARO.

Projects: arpifs

Git branch: bochenek_CY45_prognostic_graupel

Modified:

arpifs/adiab	cpg.F90, cptend_new.F90, cputqy.F90
arpifs/module	yomphy.F90
arpifs/namelist	namphy.nam.h
arpifs/phys_dmn	acacon.F90, accdev.F90, accoll.F90, accsu.F90, accvud.F90, acevmel.F90, acmodo.F90, acupd.F90, acupm.F90, aplmini.F90, aplmphys.F90, aplpar.F90, initaplpar.F90, mf_phys.F90
arpifs/setup	su0phy.F90

BOUTELOUP Yves

Doc:

Modset to allow post-processing of PCMT prognostic variables.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs

Git branch: boutelou_CY45_b481

Modified:

arpifs/fullpos

endpos.F90, endpos_prepogl.F90, endvpos.F90, fpcordyn.F90

arpifs/setup

suafn1.F90, sufa.F90

Doc:

Modification to avoid the loss of a part of rain and snow. Can be highlighted by the presence of rain with negative temperature (rain but not precipitation flux which is correct !).

EXPECTED IMPACT:

Meteorological impact is very small.

Projects: arpifs

Git branch: boutelou_CY45_b482

Modified:

arpifs/phys_dmn

advprcs.F90

Doc:

Phasing on cy45_main.01 of Françoise Taillefer's branches sfx2,sfx_can,sfx4,sfx5,sfx6 and sfx7.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, mse, surfex

Git branch: boutelou_CY45_b483

Added:

mse/externals	aro_ground_diag_2isba.F90, canari_sfx.F90
mse/interface	aro_ground_diag_2isba.h
surfex/SURFEX	get_surf_var_2isba.F90
Modified:	
arpifs/canari	canari.F90, capotx.F90
arpifs/phys_dmn	aplpar.F90, mf_phys.F90
mse/externals	aro_ground_diag.F90, canari_sx_ics.F90
mse/programs	oi_main.F90
surfex/ASSIM	oi_control.F90

Doc:

- 1) No call to aro_ground_diag_2isba when LELAM.
- 2) Modification of read_gridtype_gauss to allow the use of global surfex v7.3 files in surfex v8.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, surfex
Git branch: boutelou_CY45_b493
Modified:

arpifs/phys_dmn	aplpar.F90
surfex/SURFEX	read_gridtype_gauss.F90

Doc:

Modset in su_surf_flds.F90 to allocate arrays for aro_ground_diag_2isba.F90, only for global model.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs
Git branch: boutelou_CY45_b495
Modified:

arpifs/setup	su_surf_flds.F90
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CEBRON Pierrick

Doc:

Report COMBI fixes from CY42_op2 .

NO NUMERICAL IMPACT IS EXPECTED.

Projects: utilities

Git branch: cebron_CY45_srtm

Modified:

utilities/combi

combi_opti.F90, combi_pert.F90

DEGRAUWE Daan

Doc:

Description:

This contribution allows to combine the turbulence scheme of ALARO-1 (TOUCANS) with the SURFEX surface scheme. Two essential modifications were necessary:

1. Use of drag coefficients from SURFEX in the atmospheric code (aplpar).

To this goal, a field with index MCD is added to the PGPARG array;

- at the beginning of aplpar, PCD is set to this field; except for the first timestep, when PCD is set to the drag coefficient at neutrality PCDN

- after the call to SURFEX (aro_ground_diag), the drag coefficient from SURFEX is stored in PGPARG.

2. Use of stability functions from TOUCANS in SURFEX.

To this goal, TOUCANS parameters are stored in a new derived type (SURF_ATM_TURB), which is passed around in SURFEX to all routines that make a call to surface_cdch_1darp.

The code to calculate TOUCANS stability functions is added to the routine surface_cdch_1darp.

Description of modifications:

arpifs/module/yomparar.F90, arpifs/phys_dmn/suparar.F90

Add field with index MCD to the TPARARG derived data type

arpifs/phys_dmn/aplpar.F90

Store and retrieve value of drag coefficients from PGPARG array

arpifs/phys_dmn/actkezotls.F90

Add Richardson number to output

mse/externals/suphse_surface.F90

Setup YLSURF_ATM_TURB object of type SURF_ATM_TURB from data in YRPHY and YOMQNSE

Add YLSURF_ATM_TURB argument in call to AROINI_SURFC

mse/externals/aroini_surfc.F90

Add YLSURF_ATM_TURB argument, pass it on to INIT_SURF_ATM_N

mse/interface/aroini_surfc.h

Add YLSURF_ATM_TURB argument

mse/module/modd_surfex_aro.F90

Not really changed (added some spaces)

This is necessary to avoid compilation problems with gmckpack.

surfex/SURFEX/modd_surf_atm_turbn.F90

Definition of derived data type holding parameters of atmospheric turbulence

surfex/SURFEX/modd_surfexn.F90

Add components for atmospheric turbulence to tile descriptor types.

mse/programs/offline.F90, surfex/OFFLIN/offline.F90, surfex/SURFEX/init_pgd_surf_atm.F90

Add argument YLATMTURB in call to INIT_SURF_ATM_N

surfex/SURFEX/init_surf_atmn.F90

Perform consistency check between ALARO and SURFEX options.

Add argument YDATMTURB, and pass it on to INIT_SEA_N, INIT_INLAND_WATER_N, INIT_NATURE_N and INIT_TOWN_N

surfex/SURFEX/init_sean.F90, surfex/SURFEX/init_inland_watern.F90,

surfex/SURFEX/init_naturen.F90, surfex/SURFEX/init_townn.F90

Add argument YDATMTURB, and pass it on to called routines

surfex/SURFEX/init_seafluxn.F90, surfex/SURFEX/init_flaken.F90,

surfex/SURFEX/init_tebn.F90, surfex/SURFEX/init_water_sbl.F90,

surfex/SURFEX/init_watfluxn.F90, surfex/SURFEX/init_seafluxn.F90,

surfex/SURFEX/init_isban.F90, surfex/SURFEX/init_isba_sbl.F90

Add argument YDATMTURB, and store it in tile descriptors

surfex/SURFEX/surface_cdch_1darp.F90

Add argument YDATMTURB, and use it to calculate TOUCANS stability functions

*surfex/SURFEX/coupling_seaflux_sbIn.F90, surfex/SURFEX/ecume_seaflux.F90, surfex/SURFEX/coupling_seafluxn.F90,
surfex/SURFEX/coare30_seaflux.F90, surfex/SURFEX/coupling_icefluxn.F90, surfex/SURFEX/ice_sea_flux.F90,
surfex/SURFEX/coupling_watflux_sbIn.F90, surfex/SURFEX/coupling_watfluxn.F90, surfex/SURFEX/water_flux.F90,
surfex/SURFEX/coupling_flaken.F90, surfex/SURFEX/coupling_flake_sbIn.F90,
surfex/SURFEX/coupling_isban.F90, surfex/SURFEX/coupling_isba_canopyn.F90, surfex/SURFEX/preps_for_meb_drag.F90,
surfex/SURFEX/isba.F90, surfex/SURFEX/drag.F90, surfex/SURFEX/isba_meb.F90, surfex/SURFEX/drag_meb.F90,
surfex/SURFEX/isba_ceb.F90, surfex/SURFEX/isba_snow_agr.F90,
surfex/SURFEX/teb.F90, surfex/SURFEX/urban_exch_coef.F90, surfex/SURFEX/urban_drag.F90, surfex/SURFEX/hvac_autosize.F90,
surfex/SURFEX/teb_garden.F90, surfex/SURFEX/garden.F90, surfex/SURFEX/greenroof.F90, surfex/SURFEX/diag_surf_atmn.F90*
Retreive object YDATMTURB from tile descriptors, and pass as argument to surface drag routines.

Validation:

- The norms of all mitraillette tests (ald and arp) are identical w.r.t. reference cy45_main executable.
(checked with /home/mf/dp/marp/verolive/vortex/vortex/site/arpifs_listings/bin/compare_listings.py)*
- The mitraillette test for ALARO physics does not use SURFEX.*
- So far, focus was on the technical implementation; meteorological performance and possible retuning of TOUCANS remain to be done.*

Projects: arpifs, mse, surfex

Git branch: degrauwe_CY45_alosfx

Added:

surfex/SURFEX modd_surf_atm_turbn.F90

Modified:

arpifs/module	yomparar.F90
arpifs/phys_dmn	actkezotls.F90, aplpar.F90, suparar.F90
mse/externals	aroini_surfc.F90, suphmse_surface.F90
mse/interface	aroini_surfc.h
mse/module	modd_surfex_aro.F90
mse/programs	offline.F90
surfex/OFFLIN	offline.F90
surfex/SURFEX	coare30_seaflux.F90, coupling_flake_sbIn.F90, coupling_flaken.F90, coupling_icefluxn.F90,

coupling_isba_canopyn.F90, coupling_isban.F90, coupling_seaflux_sbln.F90, coupling_seafluxn.F90,
coupling_watflux_sbln.F90, coupling_watfluxn.F90, drag.F90, drag_meb.F90, ecume_seaflux.F90,
garden.F90, greenroof.F90, hvac_autosize.F90, ice_sea_flux.F90, init_flaken.F90, init_inland_watern.F90,
init_isba_sbl.F90, init_isban.F90, init_naturen.F90, init_pgd_surf_atm.F90, init_seafluxn.F90, init_sean.F90,
init_surf_atmn.F90, init_tebn.F90, init_townn.F90, init_water_sbl.F90, init_watfluxn.F90, isba.F90,
isba_ceb.F90, isba_meb.F90, isba_snow_agr.F90, modd_surfexn.F90, preps_for_meb_drag.F90,
surface_cdch_1darp.F90, teb.F90, teb_garden.F90, urban_drag.F90, urban_exch_coef.F90, water_flux.F90

EL KHATIB Ryad

Doc:

Pruning of femars ; replace GRIBEX by GRIB_API in festat ; support of FA files in festat (no need of femars anymore in that case. For GRIB files, epygram has a configuration "femars"). Refer to the documentation "FESTAT FOR FA" to use it.

EXPECTED IMPACT:

Running festat from FA files rather than from GRIB files leads to a speedup of nearly 30%.

Results are slightly different from festat with GRIB files of course. The scientific validation has been made thanks to Yann Michel.

Projects: arpifs, utilities

Git branch: khatib_CY45_femars_festat

Added:

utilities/bcov_lam/interface fespnorms.h, sufespec.h, sufespeca.h
utilities/bcov_lam/others fespnorms.F90, sufespec.F90, sufespeca.F90

Modified:

arpifs/control cnt3.F90, cnt3_femars.F90
arpifs/module yomvar.F90
arpifs/namelist namvar.nam.h
arpifs/var bgvecs.F90, grbspa.F90, grbspa_mf.F90, subjwavgen_hybraw.F90, suvar.F90
utilities/bcov_lam/module reduction_mod.F90, yomfestat.F90
utilities/bcov_lam/others calcov.F90, ebalfestat.F90, ecalcov.F90, eregpdiv.F90, eregpdt.F90, eregpdtq.F90, nmcstat.F90, regpdivo3.F90, regpdt.F90, regvorp.F90, subiaspec.F90, sufespecg1.F90, sufestat.F90
utilities/bcov_lam/programs festat.F90

Doc:

- 1) Fullpos-in-OOPS : post-processor object and constructor.*
- 2) Interoperability ISBA vs Surfexin Fullpos.*
- 3) CFU/XFU buffers in the Fields object.*
- 4) Partial refactoring of the monitoring of coupling update frequency.*

NO NUMERICAL IMPACT IS EXPECTED.

phymfpos.F90, predynfpos.F90, pregpfpos.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, sufpcfu.F90, sufpcip.F90, sufplclifname.F90,
 sufpcconf.F90, sufpcd.F90, sufpcdistrib.F90, sufpcdyn.F90, sufpcf.F90, sufpcfields.F90, sufpcfit.F90, sufpcg.F90,
 sufpcg2.F90, sufpcgrib.F90, sufpcpios.F90, sufpcmapf.F90, sufpcmodelgeo.F90, sufpcofname.F90, sufpcoph.F90,
 sufpcporog.F90, sufpcppy.F90, sufpcprfbuf_clim.F90, sufpcprfbuf_geom.F90, sufpcprfpds.F90, sufpsc2.F90,
 sufpsc2_dep.F90, sufpcsuw.F90, sufptr2.F90, sufpcptrans.F90, sufpcusergeo.F90, sufpcwfbuf.F90,
 sufpcwfpds.F90, sufpcwide.F90, sufpcxfu.F90, sumpfpos.F90, sumpfpos_dep.F90, suprocfp.F90,
 suprocfp_dep.F90, suvfpos.F90, suvfposl.F90, suvpos.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, wrsfp.F90

arpifs/interpol
 fpavg.F90, fpint12.F90, fpint4.F90, fpint4x.F90, fpnear.F90, fpsscaw.F90, fpsscax.F90, slcomm.F90,
 slcset.F90, slxtpol.F90, suehox1.F90, suhox1.F90

arpifs/io_serv
 io_serv_hdr1_init.F90, io_serv_hdr2_init.F90, io_serv_map_recv_part1.F90, io_serv_map_send_part1.F90,
 io_serv_suiosctmpl.F90, io_serv_sync.F90

arpifs/module
 eint_mod.F90, extfpselect_mod.F90, factx_mod.F90, fields_base_mod.F90, fields_mod.F90,
 fullpos_mix.F90, fullpos_oops_mod.F90, iofu_mod.F90, iogride_mod.F90, iogridoe_mod.F90,
 iogridue_mod.F90, iospece_mod.F90, ioxfu_mod.F90, model_mod.F90, parfpos.F90, supergom_class.F90,
 type_fpfields.F90, type_fprqdys.F90, type_fprqphys.F90, type_fpusergeo.F90, yomafn.F90, yomcfu.F90,
 yomdfpb.F90, yomfa.F90, yomfpc.F90, yomfpd.F90, yomfpezo.F90, yomfpc.F90, yomfpcfields.F90,
 yomfpcg.F90, yomfpcgind.F90, yomfpcpios.F90, yomfpcpop.F90, yomfpcsc2.F90, yomfpcptrans.F90,
 yomfpcusergeo.F90, yomgfub.F90, yommcfu.F90, yomoph.F90, yomoph0.F90, yomfpcpb.F90, yomppc.F90,
 yomfpcpb.F90, yomfpcpds.F90, yomvert.F90, yomwfbp.F90, yomwfpds.F90, yomxfu.F90, yomxfub.F90

arpifs/mwave
 mwave_obsop_test.F90

arpifs/namelist
 namafn.nam.h, namfa.nam.h, namfpc.nam.h, namfpd.nam.h, namfpc.nam.h, namfpcg.nam.h, namfpcpios.nam.h,
 namoph.nam.h

arpifs/obs_preproc
 mkglobstab_model.F90

arpifs/ocean
 wrcom.F90

arpifs/oops
 fields_io_mod.F90, fields_write.F90, gp_model_oops.F90

arpifs/op_obs
 cobsall.F90, cobsalltl.F90

arpifs/parallel
 fptratod.F90, fptrdtoa.F90, fptrgtoa.F90

arpifs/phys_dmn
 acsolw.F90, mts_phys.F90, suphmf.F90

arpifs/phys_radi
 radintg.F90, suecrad.F90

arpifs/pp_obs
 apache.F90, pos.F90, pos_prepfl.F90, ppleta.F90, ppreq.F90, ppthpw.F90, ppwetpoint.F90

arpifs/setup	su0yoma.F90, su0yomb.F90, su_grib_api.F90, su_surf_flds.F90, suafn.F90, suafn1.F90, suafn2.F90, suafn3.F90, sucfu.F90, sufa.F90, supilmod.F90, supinif.F90, sugrclia.F90, sugridua_map_part1.F90, sumts.F90, suoph.F90, suoph0.F90, supp.F90, susc2b.F90, suspeca_map_part1.F90, suxfu.F90
arpifs/transform	transdir_fp.F90, transinv_fp.F90
arpifs/utility	deallo.F90, dealsc2.F90, dealsekf.F90, filedate.F90, openfa.F90, openfainfo.F90, prepacka.F90, wrgp2fa.F90, wrresf.F90
arpifs/var	bgvecs.F90, xformev.F90
mse/externals	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, prep_stepx.F90, rdclimosfx.F90, sufpcsfx.F90, sugridsfx.F90, wrsfx.F90
mse/interface	fp2sx1.h, fp2sx2.h, gridfpossfx_init.h, prep1_dumm.h, prep1_real.h, prep2_dumm.h, prep2_real.h, prep_step0.h, prep_step1.h, prep_step2.h, rdclimosfx.h, sufpcsfx.h, sugridsfx.h, wrsfx.h
satrad/rttov/ifs	phrtsetup.F90
surf/offline/driver	suct01s.F90, yomct01s.F90
surfex/SURFEX	prep_grid_extern.F90, prep_hor_isba_field.F90, prep_hor_seaflux_field.F90, prep_hor_snow_field.F90, prep_hor_teb_field.F90, prep_hor_watflux_field.F90

Doc:

Fix merge of apache.F90 for OOPS.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs

Git branch: khatib_CY45_t1.01%apache

Modified:

arpifs/fullpos	endpos.F90
arpifs/oops	allobs_oper_mod.F90
arpifs/op_obs	hop.F90, obsop_conv.F90
arpifs/pp_obs	apache.F90, ppobsap.F90
arpifs/programs	hop_driver.F90
arpifs/var	taskob_thread.F90, taskobad_thread.F90, taskobtl_thread.F90

Doc:

Miscellaneous bugfixes, portability and merge fixes.

EXPECTED IMPACT:

The modification of suvert.F90 (provided by Petra Smolikova) gives back reproducible results with respect to cycle 45 for off-line post-processing of Arpege.

Projects: arpifs, ifsaux, utilities

Git branch: khatib_CY45_t1.01%fix

Added:

utilities/bcov_lam/interface ecalcov.h

Modified:

arpifs/control	allfpos.F90, cnt0.F90, csekf1.F90, csekf2.F90
arpifs/fullpos	fpcorphy.F90, vpos.F90, wrmlfp.F90, wrmlfp_io_serv.F90
arpifs/phys_dmn	accoll.F90
arpifs/setup	sufpilmod.F90, sunhqesi.F90, suvert.F90
ifsaux/fa	facgrm.F90
ifsaux/support	drhook.c, env.c
ifsaux/utilities	linuxtrbk.c
utilities/bcov_lam/others	nmcstat.F90
utilities/pearome	clust.F90

Doc:

- Portability fix for BATOR.

Remark : bator now needs the support of HDF5 with fortran 2003. Recent versions of HDF5 are configured by default with the support of fortran 2003 but for old version one may need to explicetely configure HDF5 with --enable-fortran2003.

- Encapsulation of cfu/xfu fields pointers.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, odb

Git branch: khatib_CY45_t1.02%portfix

Modified:

arpifs/control	allfpos.F90
arpifs/dia	cpcfu.F90, cpxfu.F90
arpifs/fullpos	fpmodcfu.F90, fpmodxfu.F90, hpos_cfu.F90, hpos_xfu.F90, vpos.F90
arpifs/module	ptrgfu.F90, ptrxfu.F90, yomcfu.F90, yomxfu.F90
arpifs/setup	sucfu.F90, suxfu.F90
odb/pandor/module	bator_decodhdf5_mod.F90

Doc:

Portability fixes for Cray compiler.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs, ifsaux, mpa, utilities

Git branch: khatib_CY45_t1.03%crayport

Modified:

aladin/adiab	elarchead.F90, elarchetl.F90
aladin/var	sueinfce.F90
arpifs/fullpos	sufpgeometry.F90, sufpioh.F90
ifsaux/fa	facgrm.F90
mpa/micro/internals	init_aerosol_properties.F90, lima_functions.F90
utilities/pearome	clust.F90

ETCHEVERS Ingrid

Doc:

New algorithm of all iso wet-bulb temperature

New field : iso wet-bulb temperature = 1.5°C

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs

Git branch: etcheversi_CY45_IsoTPW

Added:

arpifs/pp_obs

ppltw.F90

Modified:

arpifs/fullpos

endpos.F90, fpcorphy.F90, sufptr2.F90

arpifs/module

yomafn.F90

arpifs/pp_obs

pos.F90

arpifs/setup

suafn1.F90, suafn2.F90, suafn3.F90

GCO

Doc:

Bugfix: YD_JB_STRUCTURE%WAVELET_VCORs is allocated in SUJBWAVELET and used in SUJBWAVSTATS, so SUJBWAVELET has to be called before SUJBWAVSTATS.

Projects: arpifs

Git branch: gco_CY45_main.01%ecmwf

Modified:

arpifs/setup su0yomb.F90

Doc:

1) *Miscellaneous phasing fixes:*

- *fix phasing bugs;*
- *phasing of ppobsap.F90 upon cycle CY45 (from Christophe Payan) + dirty fix to make it compile... ;*
- *cleaning(s) ;*
- *subvarens.F90: set INTENT of argument YDGEOMETRY to INOUT.*

2) *Report fix from Toon Moene initially made in branch moene_CY45_hirlam_B1 (rain_ice.F90) in rain_ice_old.F90 .*

Projects: arpifs, mpa, utilities

Git branch: gco_CY45_t1

Deleted:

mpa mfput.log

Modified:

arpifs/adiab cpg.F90, gnhqe_tndlagadiab_gw.F90
arpifs/fullpos endpos_prepfl.F90, phymfpos.F90, sufpxfu.F90
arpifs/phys_dmn apl_arome.F90, suphmpa.F90
arpifs/pp_obs ppobsap.F90
arpifs/var subvarens.F90
mpa/micro/internals budget.F90, rain_ice_old.F90
utilities/combi combi_pert.F90

GUILLAUME Frank

Doc:

- 1) In routine which process ODIM radars, tests used to define correct values of parameters DBZH/TH/VRAD have been fixed, in order to take into account the lack of measurement (RABSO).
- 2) Changes in subroutine ControlBufType to allow the recognizing of some BUFR files (TEMP/TEMPDROP) which agree with new OMM recommandation.
- 3) Add some contributions from HIRLAM, under preprocessing key HIRLAM.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, odb

Git branch: guillaum_CY45_hirlam45t1.04

Modified:

arpifs/module	yomcoctp.F90
odb/pandor/module	bator_decodbuf_r_mod.F90, bator_decodhdf5_mod.F90, bator_ecritures_mod.F90, bator_impr_mod.F90, bator_lectures_mod.F90, bator_saisies_mod.F90, bator_util_mod.F90
odb/tools	Bator.F90

Doc:

- * Pre-processing of datas AMSR-2, MTVZA-GY (HDF5 format), ODIM radars (HDF5 format).
- * Redesign pre-processing of Lannion SEVIRI datas.
- * Create namelists BUFR, HDF5, GRIB, and NETCDF.
- * Generalize use of module varni_module.F90 .
- * Cleaning and partial revision of source code.
- * Bugfix in BATOR_RAD_POSTPROC.
- * Update of input file "param.cfg".

NO NUMERICAL IMPACT IS EXPECTED.

Projects: odb

Git branch: guillaum_CY45_phasage_20171010

Added:

odb/pandor/module

bator_decodhdf5_mod.F90

Modified:

odb/pandor/module

bator_datetime_mod.F90, bator_decodbufr_mod.F90, bator_decodnetcdf_mod.F90, bator_ecritures_mod.F90,
bator_init_mod.F90, bator_lectures_mod.F90, bator_module.F90, bator_rad_postproc_mod.F90,
bator_saisies_mod.F90

odb/pandor/namelist

bator_namelist.nam.h

odb/tools

Bator.F90

MARGUINAUD Philippe

Doc:

Report marguina_CY41T1_DXDY.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: surfex

Git branch: marguina_CY45_DXDY

Modified:

surfex/SURFEX

mode_gridtype_conf_proj.F90

Doc:

Use the LFI library written in C by default; it is still possible to use the old Fortran library by setting the environment variable LFI_HNDL_SPEC=:0. This variable can also be used to force the old Fortran library on specific Fortran units; eg : LFI_HNDL_SPEC=77:0, will force the Fortran library on unit 77; LFI_HNDL_SPEC=77:0,90-100:0 will force the Fortran library on unit 77 and units from 90 to 100. The Fortran library will be removed in a future cycle.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: ifsaux

Git branch: marguina_CY45_mainLFINEW

Modified:

ifsaux/lfi_alt

lfi_grok.c

Doc:

This branch implements the PREP using and producing files in FA format (the one ingested by ARPEGE and AROME).

It is necessary to turn on the following namelist switches :

&NAM_IO_OFFLINE

LFAGMAP = .TRUE.,

CSURF_FILETYPE = 'FA ',

/

Bit reproducibility with fa2lfi, PREP, lfi2fa.

It is possible to select the compression method using NVGRIBSFX :

&NAMSFXCMP

NVGRIBSFX=0, ! 0=no compression, 2=GRIB0, 121=GRIB2

/

Other NAMSFXCMP parameters are available.

Tested using ARPEGE -> AROME, AROME -> AROME, ARPEGE -> ARPEGE

NO NUMERICAL IMPACT IS EXPECTED.

Projects: ifsaux, mse, surfex

Git branch: marguina_CY45_mainPREPFA

Modified:

ifsaux/fa	faieno.h
ifsaux/module	fa_mod.F90
mse/module	modd_io_surf_aro.F90, sfxflddesc_mod.F90
mse/new	sfxlfi2fa.F90
mse/programs	prep.F90
surfex/OFFLIN	modn_io_offline.F90, write_header_mnh.F90
surfex/SURFEX	modd_io_surf_fa.F90, mode_read_surf_fa.F90, mode_write_surf_fa.F90

Doc:

SURFEX setup with OpenMP; a loop on NPROMA blocks is implemented in aroini_surfc.F90. The gain is about 20s in the setup.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: mse, surfex

Git branch: marguina_CY45_mainSURFEXSETUP

Modified:

mse/externals	aroini_surfc.F90
mse/module	modd_io_surf_aro.F90

surfex/SURFEX

ini_data_cover.F90, modd_surfex_mpi.F90, modd_surfex_omp.F90, read_surf.F90

Doc:

Report marguina_CY42_op2fabec .

NO NUMERICAL IMPACT IS EXPECTED.

Projects: ifsaux

Git branch: marguina_CY45_op2fabec

Modified:

ifsaux/fa

facgrm.F90, fagote.F90, faquin.F90

ifsaux/programs

faconvgrib.F90

Doc:

Report marguina_CY42_op2gribdate .

NO NUMERICAL IMPACT IS EXPECTED.

Projects: ifsaux

Git branch: marguina_CY45_op2gribdate

Modified:

ifsaux/fa

facgrm.F90

Doc:

Report marguina_CY42_op2timerange .

NO NUMERICAL IMPACT IS EXPECTED.

Projects: ifsaux

Git branch: marguina_CY45_op2timerange

Modified:

ifsaux/fa

facgrm.F90

MARY Alexandre

Doc:

Raise JPXTRO to 2000 for Arp-HR in FA.

EXPECTED IMPACT:

A bit more memory needed.

Projects: ifsaux

Git branch: mary_CY45_fajpxtro

Modified:

ifsaux/module fa_mod.F90

Doc:

Fix missing code in PGD to compute fractional subscale orography (LORORAD=T).

EXPECTED IMPACT:

Fields SFX.FRAC_DIR?? and SFX.SLOPE_DIR?? of PGD are now actually computed using subscale information.

Projects: surfex

Git branch: mary_CY45_fix_pgdororad

Modified:

surfex/SURFEX average1_orography.F90, average2_orography.F90, refresh_pgdwork.F90

Doc:

Encapsulation of MCFUF stuff in FIELDS. Work by O.Douba during phasing stay.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs

Git branch: mary_CY45_mcfuf_encapsulation

Modified:

arpifs/control cnt4.F90, cprep3.F90

arpifs/dia	sp2gpmcuf.F90, spmcuf.F90
arpifs/module	fields_mod.F90, fullpos_oops_mod.F90, iospeca_mod.F90, yommcuf.F90
arpifs/setup	su0yomb.F90, sumcuf.F90
arpifs/utility	deallo.F90

Doc:

Finalization of LBC encapsulation, work by Hajer Dhouioui based on cy45, rephased upon cy45_t1.02 . Renaming of namelist blocks (accordingly to renaming of modules) remains to be done in a further cycle (not done here for namelists maintenance).

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs, coupling, mse

Git branch: mary_CY45_merge_hajer_cpl

Deleted:

arpifs/module	elbc0a_mod.F90, elbc0b_mod.F90, elbc0c_mod.F90, model_lam_coupling_mod.F90, yemgeolbc.F90
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Added:

arpifs/module	yemlbc_fields.F90, yemlbc_geo.F90, yemlbc_init.F90, yemlbc_model.F90
---------------	--

Modified:

aladin/control	espcm.F90
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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, suegeolbc.F90, sueinif.F90
--------------	---

aladin/utility	create_pert.F90, deello.F90
----------------	-----------------------------

aladin/var	evarjkini.F90, ewrlsgrad.F90, moevar.F90, suejbttest.F90
------------	--

arpifs/adiab	cpg.F90, cpg_drv.F90, cpg_end.F90, cpg_gp.F90
--------------	---

arpifs/canari	canari.F90, carcli.F90
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arpifs/control	cnt0.F90, cnt3_lam.F90, cnt4.F90, cnt4ad.F90, cnt4tl.F90, gp_model.F90, iopack.F90, restart_cnt3.F90, sim4d.F90, stepo.F90, stepoad.F90, stepotl.F90, testli.F90, testlievol.F90
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arpifs/dfi	dfi2.F90, sudfi.F90
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arpifs/dia	wrmlppa.F90
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arpifs/fp_serv	suinif_fp.F90
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arpifs/fullpos	gridfpos.F90
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arpifs/module	fields_mod.F90, gmv_subs_mod.F90, model_mod.F90, traj_global_mod.F90, traj_main_mod.F90,
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	traj_main_mod_oops.F90, trajectory_mod.F90, trajectory_mod_oops.F90, type_geometry.F90, type_model.F90, yemlbc_model.F90
arpifs/oops	cpg_drv_oops.F90, gp_model_oops.F90, stepotl_oops.F90, stepotl_traj_oops.F90
arpifs/parallel	read_spec_fromfa.F90
arpifs/setup	su0yoma.F90, su0yomb.F90, su1yom.F90, sufpinif.F90, sugrcfu.F90, sugrcfia.F90, sugrida.F90, sugridf.F90, sugridu.F90, sugridua.F90, sugridva.F90, sugrxfu.F90, suiauinif.F90, suinif.F90, suspec.F90, suspeca.F90, suspeca_gp.F90
arpifs/sinvect	opk.F90
arpifs/utility	openfa.F90, rdfa2gp.F90, updtim.F90
arpifs/var	chavar.F90, cvar2.F90, rd801.F90, suecges.F90, suensmem.F90, subjtest.F90
coupling/external/spnud	espcpl.F90
mse/externals	gridfpossfx_init.F90, prep1_real.F90, prep_step1.F90, sugridsfx.F90, suphmse_surface.F90
mse/interface	gridfpossfx_init.h, prep1_real.h, prep_step1.h, sugridsfx.h

Doc:

Labelling of missing labels in optional arguments, which may lead to tricky bugs. Work by B. Tsenova during phasing stay.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs

Git branch: mary_CY45_optional_args_boryana

Modified:

arpifs/control	cnt4.F90, cnt4ad.F90, cnt4tl.F90, iopack.F90
arpifs/dia	wrspeca.F90
arpifs/module	iostream_mix.F90
arpifs/phys_dmn	apl_arome.F90, aplpar.F90
arpifs/phys_ec	cldpp.F90, stochpert_layer.F90
arpifs/phys_radi	radflux_layer.F90, radiation_scheme.F90, radintg.F90, radlswr.F90
arpifs/utility	savmoderr.F90
arpifs/var	add_moderr_tl.F90

MASEK Jan

Doc:

Description:

Modset contains several fixes for ALARO-1. Some of them are already included in cy43t2_bf, the rest should be harmonized. Apart from fix of quadratic and cubic coupling, all other fixes are specific to ALARO-1, having no influence on ALARO-0 and AROME. List of fixes:

==> already in cy43t2_bf:

*1) Fixed bug in quadratic and cubic coupling (all LAM configurations).
(J. Vivoda)*

*WARNING: Fix is only provisional, eliminating a bug in swapping LBC buffers P*CPL entering ESC2R by adjusting time interpolation weights EBW in SUELBC0B (module ELBC0B_MOD) accordingly. It is highly desirable to correct directly the swapping of LBC buffers.*

*2) Removed incorrect protection of shear term (TOUCANS only).
(R. Brozkova)*

*3) Removed forgotten lines increasing protected convective cloudiness by shallow part coming from turbulence (TOUCANS only).
(R. Brozkova)*

==> not yet cy43t2_bf:

*4) Fixed calculation of moist Richardson number at lowest model level in case of mass flux scheme (TOUCANS only).
(R. Brozkova)*

5) *Avoided costly calculation of bracketing weights in the last model timestep (ACRANEB2 only).*

(J. Masek)

6) *Prevented extrapolation of gaseous optical depths in shortwave intermittency, optimized last timestep. (ACRANEB2 only).*

(J. Masek)

N.B.: TOUCANS and ACRANEB2 are used only in ALARO-1 configuration.

Description of modifications:

adiab/cpg_drv.F90

Shifted dimensioning of argument PGMU0.

adiab/cpg.F90

Shifted dimensioning of argument PGMU0.

module/elbc0b_mod.F90

Provisional fix of bug in quadratic and cubic coupling (options LQCPL and LCCPL).

oops/cpg_drv_oops.F90

Shifted dimensioning of argument PGMU0.

phys_dmn/acdifv2.F90

Removed incorrect protection of shear term.

phys_dmn/aplpar.F90

Removed forgotten lines increasing protected convective cloudiness by shallow part coming from turbulence. Shifted dimensioning of argument PGMU0.

phys_dmn/acmrip.F90

Fixed calculation of moist Richardson number at lowest model level

in case of mass flux scheme.

phys_dmn/mf_phys.F90

Shifted dimensioning of argument PGMU0.

phys_radi/acraneb2.F90

Optimized last timestep when intermittency is on. Prevented extrapolation of gaseous optical depths in shortwave intermittency.

setup/sudyn.F90

Added safety for ACRANE2 intermittency with DFI.

setup/susc2b.F90

Shifted dimensioning of global array YDTRC%GMU0.

Validation:

Modifications 2)-6) are specific to ALARO-1, which is not yet in Mitraillette. Modification 1) affects ALARO-0 integration since the timestep corresponding to validity of 2nd LBC file. Bit reproducibility of ALARO-0 with respect to cy45_main can be obtained by setting LQCPL=.F. (linear coupling).

For ALARO-1, spectral norms after 2-hour integration are identical to 3 digits with respect to cy43t2_bf.01 reference (in some cases third digit differs by one), which is meteorological reproducibility. It is confirmed by visual comparison of fields after 12 hour integration.

Projects: arpifs

Git branch: masekj_CY45_alaro

Modified:

arpifs/adiab cpg.F90, cpg_drv.F90

arpifs/module elbc0b_mod.F90

arpifs/oops cpg_drv_oops.F90

arpifs/phys_dmn
arpifs/phys_radi
arpifs/setup

acdifv2.F90, acmrip.F90, aplpar.F90, mf_phys.F90
acraneb2.F90
sudyn.F90, susc2b.F90

MICHEL Yann

Doc:

Pack for AROME 3DVar and AROME EDA, including :

- *new way of applying varying sigmab in AROME 3DVar*
- *option for NETCDF input of B-matrix*
- *update of the calculations of EDA sigma_b, including change of variable for the wind and gridpoint filtering*
- *update of the EDA inflation scheme*
- *possibility to diagnose a column of the B-Matrix*

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs

Git branch: michel_CY45_aearo

Added:

aladin/module

yom_pll_recf.F90

aladin/var

eapply_pll_recf.F90, ecvargpad.F90, ecvargptl.F90, ediagb_psot.F90, einflation_mean.F90, ereadsigmab.F90, eadstd.F90, esetup_pll_recf.F90, gp_horizflt.F90, ncerr.F90, readjbbal_nc.F90, readjbd96_nc.F90, sueinfce.F90

Modified:

aladin/var

einflation_pert.F90, ewritestd.F90, readjbbal.F90, readjbd96.F90, suejbbal.F90, suejbd96.F90

arpifs/canari

canari.F90

arpifs/control

forecast_error.F90

arpifs/module

yomjg.F90

arpifs/setup

su0yomb.F90

arpifs/utility

openfa.F90, openfainfo.F90

arpifs/var

cvar3in.F90, cvar3inad.F90, jbtomodel.F90, jbtomodelad.F90, lchtcalc.F90, sqrtbin.F90, sqrtbinad.F90, subj.F90, subjvarens.F90, varcalc.F90, varflt_crt.F90, varflt_trunc.F90

Doc:

Allow for NETCDF output in FESTAT for LAM, under key LNETCDF_IO=.TRUE.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: utilities

Git branch: michel_CY45_festat_nc

Added:

utilities/bcov_lam/others

ewgsabal_nc.F90, ewgsacov_nc.F90, sufestat.F90~

Modified:

utilities/bcov_lam/module

yomfestat.F90

utilities/bcov_lam/others

ecalcov.F90, nmcstat.F90, sufestat.F90

PAYAN Christophe

Doc:

Catchup of the neutral wind operator bf (from CY42_op2): removal of max threshold to 1 of ratio neutral wind speed/real wind speed at model level the closest to the surface.

EXPECTED IMPACT:

Reduce the speed bias of scatterometer winds to analysis.

Projects: arpifs

Git branch: payan_CY45_main01_acntcls-ntrl10mfix

Modified:

arpifs/phys_dmn acntcls.F90, acntclsad.F90, acntclstl.F90

Doc:

From CY43t2_bf.02: resolves miscalculation in apache option.

EXPECTED IMPACT:

Should allow to have similar results to oper suite for TEMP/PILOT data assimilation.

Projects: arpifs

Git branch: payan_CY45_main01_apachfix

Modified:

arpifs/op_obs obsop_conv.F90
arpifs/pp_obs apache.F90, ppobsap.F90

Doc:

Allows the handling of ScatSat-1 data, which should be provided by the OSI-SAF soon.

EXPECTED IMPACT:

Numerical impact when ScatSat-1 oceanic surface neutral wind will be available, hopefully in the next months, otherwise none.

Projects: arpifs

Git branch: payan_CY45_main01_scatsat1

Modified:

arpifs/module yomsc.F90
arpifs/namelist namsc.nam.h
arpifs/obs_preproc defrun.F90, kscatin.F90, scaqc.F90

Doc:

From 43t2, minor change (in a cleaner way) for handling the specified observation error in Bator level, in the specific case of the ScatSat-1 instrument and in the default case for scatterometer winds.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: odb

Git branch: payan_CY45_t1v3_scatsat1-updt

Modified:

odb/pandor/module bator_ecriptions_mod.F90

Doc:

Two points:

- mainly catchup of the branch nicknamed *_sfx*, from 43t2 towards 45t1 (in short mainly generalization of the use of inputs from SURFEX for the surface data assimilation including the surface (neutral) winds, refer to the *tailefer_CY42_sfx* documentation for more details);
- oops refactoring, *GOM_MISSING_VALUE* is tested for ice/liquid water *gom_plus* use (allowing to remove the *YGFL* variable in *ppobsap* (limited to changes in *ppobsap/gom_plus*)), with *AJGBD* support.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, mse

Git branch: payan_CY45_t1v6_43t2_tailefer_sfx_catchup

Added:

arpifs/dia cpcls_assim.F90

Modified:

arpifs/adiab cpg.F90, cpg_dia.F90, cpg_drv.F90, cpg_end.F90
arpifs/canari caclsi.F90, capotx.F90
arpifs/control gp_model.F90
arpifs/dia cpxfu.F90

arpifs/fullpos	endpos.F90, fpachmt.F90, hpos_xfu.F90, phymfpos.F90, sufpd.F90, sufpxfu.F90, vpos.F90
arpifs/module	gom_mod.F90, gom_plus.F90, iogrida_mod.F90, ptrxfu.F90, surface_fields_mix.F90, yomafn.F90, yomfa.F90, yomxfu.F90
arpifs/namelist	namafn.nam.h
arpifs/obs_preproc	scaqc.F90, sugoms.F90
arpifs/oops	cpg_drv_oops.F90, gp_model_oops.F90
arpifs/op_obs	cobs.F90, obsop_conv.F90
arpifs/phys_dmn	acdraglad.F90, actkecls.F90, actkehmt.F90, apl_arome.F90, aplpar.F90, initaplpar.F90, mf_phys.F90
arpifs/pp_obs	ppobsac.F90, ppobsap.F90
arpifs/setup	su_surf_flds.F90, suafn1.F90, suafn2.F90, suafn3.F90, sufa.F90, suxfu.F90
mse/externals	aro_ground_diag.F90
mse/interface	aro_ground_diag.h
mse/programs	driver_off_omp.F90

POURRET Vivien

Doc:

BATOR :

- reading AEOLUS BUFR with namelist modification in &NADIRS where INBTYPEOBS=130
- writing ODB AEOLUS database
- Using the libaeolus

ARPEGE :

- modifications to read CCMA AEOLUS database

EXPECTED IMPACT:

Impact if assimilation of aeolus data is triggered.

Projects: arpifs, odb

Git branch: pourretv_CY45_test

Added:

odb/ddl.CCMA

bator_hdr_7.sql, sat_aeolusl2c.sql

odb/ddl.ECMA

bator_hdr_7.sql, obsort_aeolus_auxmet.sql, obsort_aeolus_hdr.sql, obsort_aeolus_l2c.sql

odb/ddl

bator_hdr_7.sql, obsort_aeolus_auxmet.sql, obsort_aeolus_hdr.sql, obsort_aeolus_l2c.sql

Modified:

arpifs/op_obs

hop_decide_required_sqls.F90

odb/cma2odb

ctxinitdb.F90, putatdb.F90, shuffledb.F90, xchangedatadb.F90

odb/pandor/module

bator_decodbufr_mod.F90, bator_ecritures_mod.F90, bator_init_mod.F90, bator_module.F90,
bator_saisies_mod.F90, bator_util_mod.F90

RAYNAUD Laure

Doc:

Report of clustering bugfix from CY42.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: utilities

Git branch: raynaudl_CY45_clustering

Modified:

utilities/pearome

clust.F90

SEITY Yann

Doc:

Modified ICE3/4 to reduce time step dependency.

Multiple corrections and improvements in the ICE3 microphysical scheme in order to reduce the scheme time step dependency.

The old version remains by default, the new version is activatable by CMICRO=ICE3. In addition, hail is usable in this new version (CMICRO=ICE4).

EXPECTED IMPACT:

In the old version, there is a numerical impact due to

- bf in rho00 calculation (ini_rain_ice)

- new organisation of calculations in microphysics adjustment (aro_adjust, ice_adjust et condensation)

In case new scheme is activated, there is a stronger impact (less graupel in convective clouds for instance -> lower values of hail diagnostic)

Projects: arpifs, mpa

Git branch: seity_CY45_ICE3mod

Added:

mpa/micro/internals

ice4_compute_pdf.F90, ice4_fast_rg.F90, ice4_fast_rh.F90, ice4_fast_ri.F90, ice4_fast_rs.F90,
ice4_nucleation.F90, ice4_nucleation_wrapper.F90, ice4_rainfr_vert.F90, ice4_rimltc.F90, ice4_rrhong.F90,
ice4_rsrimgc_old.F90, ice4_sedimentation_split.F90, ice4_sedimentation_stat.F90, ice4_slow.F90,
ice4_tendencies.F90, ice4_warm.F90, rain_ice_old.F90, read_xker_rweth.F90

mpa/micro/module

modi_ice4_compute_pdf.F90, modi_ice4_fast_rg.F90, modi_ice4_fast_rh.F90, modi_ice4_fast_ri.F90,
modi_ice4_fast_rs.F90, modi_ice4_nucleation.F90, modi_ice4_nucleation_wrapper.F90,
modi_ice4_rainfr_vert.F90, modi_ice4_rimltc.F90, modi_ice4_rrhong.F90, modi_ice4_rsrimgc_old.F90,
modi_ice4_sedimentation_split.F90, modi_ice4_sedimentation_stat.F90, modi_ice4_slow.F90,
modi_ice4_tendencies.F90, modi_ice4_warm.F90, modi_rain_ice_old.F90, modi_read_xker_rweth.F90

Modified:

arpifs/module

yomparar.F90

arpifs/namelist

namparar.nam.h

arpifs/phys_dmn

apl_arome.F90, suparar.F90, suphmpa.F90

mpa/micro/externals

aro_adjust.F90, aro_rain_ice.F90, aroini_micro.F90

mpa/micro/interface

aro_adjust.h, aro_rain_ice.h, aroini_micro.h

mpa/micro/internals	condensation.F90, ice_adjust.F90, ini_rain_ice.F90, rain_ice.F90
mpa/micro/module	modd_param_ice.F90, modd_rain_ice_param.F90, modi_condensation.F90, modi_ice_adjust.F90, modi_rain_ice.F90
mpa/turb/internals	compute_frac_ice1d.F90, shallow_mf.F90, th_r_from_thl_rt_1d.F90

Doc:

*LIMA microphysics 2 moments code (from Vie et al., GMD, 2016) under switch CMICRO=LIMA .
(new code in the AROME microphysics (mpa/micro/*/*lima*), and modifications in arp to setup new GFL LIMA variables)*

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, mpa

Git branch: seity_CY45_LIMA

Added:

arpifs/namelist	namlima.nam.h
mpa/micro/externals	aro_adjust_lima.F90, aro_lima.F90, aroini_micro_lima.F90
mpa/micro/interface	aro_adjust_lima.h, aro_lima.h, aroini_micro_lima.h
mpa/micro/internals	hygeo.F90, hypser.F90, ini_lima.F90, ini_lima_cold_mixed.F90, ini_lima_warm.F90, init_aerosol_properties.F90, lima.F90, lima_adjust.F90, lima_bergeron.F90, lima_ccn_activation.F90, lima_ccn_hom_freezing.F90, lima_cold.F90, lima_cold_hom_nucl.F90, lima_cold_sedimentation.F90, lima_cold_slow_processes.F90, lima_conversion_melting_snow.F90, lima_droplets_accretion.F90, lima_droplets_autoconversion.F90, lima_droplets_hom_freezing.F90, lima_droplets_riming_snow.F90, lima_droplets_self_collection.F90, lima_drops_break_up.F90, lima_drops_hom_freezing.F90, lima_drops_self_collection.F90, lima_functions.F90, lima_graupel.F90, lima_graupel_deposition.F90, lima_ice_aggregation_snow.F90, lima_ice_melting.F90, lima_ice_snow_deposition.F90, lima_inst_procs.F90, lima_meyers.F90, lima_meyers_nucleation.F90, lima_mixed.F90, lima_mixed_fast_processes.F90, lima_mixed_slow_processes.F90, lima_nucleation_procs.F90, lima_phillips.F90, lima_phillips_ifn_nucleation.F90, lima_phillips_integ.F90, lima_phillips_ref_spectrum.F90, lima_precip_scavenging.F90, lima_rain_accr_snow.F90, lima_rain_evaporation.F90, lima_rain_freezing.F90, lima_tendencies.F90, lima_warm.F90, lima_warm_coal.F90, lima_warm_evap.F90, lima_warm_nucl.F90, lima_warm_sedimentation.F90
mpa/micro/module	modd_lima_precip_scavengingn.F90, modd_param_lima.F90, modd_param_lima_cold.F90, modd_param_lima_mixed.F90, modd_param_lima_warm.F90

Modified:

arpifs/module
arpifs/namelist
arpifs/phys_dmn
arpifs/setup
mpa/micro/module

gfl_subs_mod.F90, type_gflflds.F90, yom_ygfl.F90, yomarphy.F90, yomparar.F90
namgfl.nam.h
apl_arome.F90, mf_phys.F90, suparar.F90, suphmpa.F90, suphmse.F90
su0phy.F90, suctrl_gflattr.F90, sudefo_gflattr.F90, sugfl1.F90, sugfl2.F90, sugfl3.F90
modd_budget.F90, modd_lunit.F90, modd_nsv.F90, modd_parameters.F90

Doc:

Cleanings for LIMA.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, mpa

Git branch: seity_CY45_LIMA_clean

Modified:

arpifs/module
arpifs/namelist
arpifs/phys_dmn
mpa/micro/externals
mpa/micro/interface
mpa/micro/internals

yomparar.F90
namlima.nam.h, namparar.nam.h
apl_arome.F90, suparar.F90, suphmpa.F90
aro_adjust_lima.F90, aro_lima.F90, aroini_micro_lima.F90
aro_lima.h, aroini_micro_lima.h
ini_lima.F90, ini_lima_cold_mixed.F90, init_aerosol_properties.F90, lima.F90, lima_adjust.F90,
lima_ccn_activation.F90, lima_cold.F90, lima_cold_slow_processes.F90, lima_graupel.F90,
lima_inst_procs.F90, lima_mixed.F90, lima_mixed_fast_processes.F90, lima_nucleation_procs.F90,
lima_tendencies.F90, lima_warm.F90, lima_warm_coal.F90
modd_param_lima.F90

mpa/micro/module

Doc:

Bugfix for lima variables in turbulence.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs

Git branch: seity_CY45_bfLIMA

Modified:

arpifs/phys_dmn

apl_arome.F90

arpifs/adiab	cpg.F90, cpg_dia.F90
arpifs/control	cnt4.F90
arpifs/dia	cpxfu.F90
arpifs/fullpos	fpcorphy.F90, hpos_xfu.F90, sufpxfu.F90
arpifs/module	ptrxfu.F90, yomafn.F90, yomfa.F90, yomxfu.F90
arpifs/namelist	namafn.nam.h, namxfu.nam.h
arpifs/setup	suafn1.F90, suafn2.F90, suafn3.F90, sufa.F90, suxfu.F90
mse/externals	aro_ground_diag.F90

Doc:

New constants for CV and TAUICE in surfex (under LARP_PN switch).

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, surfex

Git branch: seity_CY45_fromFTsfx3

Modified:

arpifs/module	yomphy0.F90
arpifs/namelist	namphy0.nam.h
arpifs/phys_dmn	suphy0.F90
surfex/SURFEX	default_surf_atm.F90, ini_data_param.F90, init_veg_pgdn.F90, modd_surf_atm.F90, modn_surf_atm.F90, read_namelists_surf.F90

SMOLIKOVA Petra

Doc:

NHVFE bugfix for CY45T1

** Description:*

Cleaning and several fixes for finite elements used in the vertical discretization of NH dynamics.

** Contributors: P.Smolikova, J.Vivoda*

** Description of modifications:*

siseve - remove double cycle along JLEV

sunhbmata - call minv_caller

sunhsi - removed multiplication of ZID with Cv/RTCp; results in

ZCOR = -RT A1*

*ZCOR2 = (Cv/R) (1/r) A2; where (1/r) is multiplication
with SITR/SITRAM(l) in siseve;*

rescale Id to get eigenvalues of (1/r) ((Cv/R) A2 - Id)

sunh_vertfespline - remove obsolete ZETAB + remove LDVDA in suvertfeb call

sunh_vertfespline_half - remove LDVDA in suvertfeb call

sunh_vertfespline_inv - remove LDVDA in suvertfeb call

suvert - remove VP00

- move print of full levels A,B after 'INTEGRAL OF 1.'

*suvertfe - remove obsolete arrays ZETAF_OUT, ZETAH_OUT, ZETAB, IORDER,
ITYPE, ITYPEB, CLTAG*

suvertfeb - remove LDVDA
- remove third derivative in BC definition (not used)
- call minv_caller

suvfe_basis - remove obsolete comment

verdisint - option (CDOPER=="DDER" & IBC==1) changed; influences only
NVFE_DERBC=1 option with NH VFE

* Validation/effect on integration:

No effect of cleanings in any model run.

Changed calculation of ZCOR, ZCOR2 only for diagnostics (NPRINTLEV>0,NDLNPR=O with LNHDYN) => changed listing.

Changed listing (just the order of listed items) through suvert. With LNHEE=T, LVERTFE=T, LVFE_LAPL=T, NVFE_DERBC=1 results of integration are changed through verdisint.

Projects: arpifs

Git branch: smolikovap_CY45_nhvfe2

Modified:

arpifs/adiab

siseve.F90

arpifs/setup

sunh_vertfespline.F90, sunh_vertfespline_half.F90, sunh_vertfespline_inv.F90, sunhbmat.F90, sunhsi.F90,
suvert.F90, suvertfe.F90, suvertfeb.F90, suvfe_basis.F90

arpifs/utility

verdisint.F90

SPANIEL Oldrich

Doc:

Fix for ALARO-SFX by DEGRAUWE Daan.

Projects: surfex

Git branch: spaniel_CY45_ol_04

Modified:

surfex/SURFEX

surface_cdch_1darp.F90

SUZAT Florian

Doc:

ARPIFS has become a huge and complicated program. Debugging it can be very painful especially for newbies. Documenting it is also a huge and tedious job.

The idea behind “drHack” is basically to hack drHook: using the calls "IF (LHOOK) CALL DR_HOOK('XXX',I,ZHOOK_HANDLE)" (where XXX is the name of a routine, and I is 0 at the beginning of the routine and 1 at the end) in order to build a big XML file describing the ARPIFS calling tree. At initialization, if both environmental variables DR_HOOK and DR_HACK are set equal to 1, then the hack is activated, otherwise everything works as usual.

IMPORTANT: for the moment, it does not work with openmp (need to run with openmp=1)

When active, we first open a file drhack.txt. Every time the program enters a routine, we append to the file, and every time the routine is left, we append (mind the “/” extra character). Then, at the end of the run, the (big!) file drhack.txt contains the calling tree of the MPI processor number 0 as an XML file.

The resulting files are not usable as is (because they are too big). But with a few lines of python, it is easy to produce a condensed version of the drhack.txt file (if you want an example script, you may ask florian.suzat@meteo.fr). Then, with html and javascript, these condensed files are read and a dynamic collapsible search tree is built. Illustrations of such pages can be seen at <http://intra.cnrm.meteo.fr/drhack/> (only from the MeteoFrance network... If you want an export, mail florian.suzat@meteo.fr)

Hope this help...

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, ifsaux

Git branch: suzat_CY45_DrHack

Modified:

arpifs/module	yomlun.F90
ifsaux/module	yomlun_ifsaux.F90
ifsaux/support	dr_hook_util.F90

Doc:

AMSR2 and MTVZAGY monitoring (compilation passed)

This modifications permit to use 2 new instruments AMSR2 and MTVZA-GY .

WARNING: the contribs for BATOR will be made later by Frank

For the moment, they are in monitoring --> to change later for assim if good (or at least neutral ;-)) scores

EXPECTED IMPACT:

more observations !

Projects: arpifs, ifsaux

Git branch: suzat_CY45_newMwSats

Modified:

arpifs/op_obs

hsatang.F90

ifsaux/module

rttov_const.F90

VOITUS Fabrice

Doc:

Flexible DDH OpenMP debugging :

-Introduction of a new DDH type devoted to DDH budget in APL_AROME.

-Fix for the storing and the cleaning of DDH structure when KSTEP=0.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, mpa

Git branch: voitus_CY45_DDH_DEBUG

Added:

mpa/micro/externals aro_suintbudget_omp.F90

Modified:

arpifs/adiab cpg.F90
arpifs/dia cpdyddhlag.F90, sunddh.F90
arpifs/module ddh_mix.F90
arpifs/phys_dmn apl_arome.F90
mpa/micro/externals aro_suintbudget.F90
mpa/micro/internals budget.F90
mpa/micro/module moddb_intbudget.F90

YESSAD Karim

Doc:

* *Bugfix.*

* *Minor rewritings.*

* *MITRAILLETTE (v022017) update to run CY45T1 vs CY45.*

* *Directive files for tnt.py can be used now from CY39.*

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, arpifs, mitraille

Git branch: yessad_CY45_cy45t1V01cor

Added:

mitraille/namelist_ref

GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_RW2TLFF_TL030S.namtest,
GM_FCTI_HYD_SL2_VFE_ARPPHYISBA_SLT_IOSV_TL798S.namtest,
GM_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCC_TL030S.namtest,
GM_FCTI_NHE_SL2_VFD_ARPPHYISBA_GWADV2_PCC_TL030S.namtest,
GM_FPIN_HYD_GPLALON_ARPPHYISBA.namtest,
GM_FPIN_NHE_GPLALON_ARPPHYISBA.namtest,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMALP1300.namtest,
L3_FCTI_HYD_SL2_VFE_ADIAB_PGAL.namtest,
L3_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCC_FROC.namtest

mitraille/procedure

directives_updnam_cy39_to_cy39t1.py, directives_updnam_cy39t1_to_cy40.py,
directives_updnam_cy40_to_cy40t1.py, directives_updnam_cy40t1_to_cy41.py,
directives_updnam_cy41_to_cy41t1.py, directives_updnam_cy41t1_to_cy42.py,
directives_updnam_cy45_to_cy45t1.py

mitraille/protojobs/beaufix

config_CY45T1

Modified:

aladin/adiab

espnhqesi_prodskap.F90

arpifs/adiab

siskapi.F90, spnhqesi_prodskap.F90

arpifs/setup

sudyna.F90, sunhqesi.F90, sunhsi.F90, susi.F90, suvert.F90

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_DHVD_EUL_VFD_ADIAB_TL031U.nam,
GM_FCST_DHVD_SL2_VFD_ADIAB_SETTLS_XIDT_TL031U.nam,
GM_FCST_DHVD_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_DHVD_EUL_VFD_ADIAB_TL030S.nam,
GM_FCTI_DHVD_SL2_VFE_ADIAB_SETTLS_NDEC_TL030S.nam,
GM_FCTI_DHVD_SL3_VFD_ADIAB_TL030S.nam,
GM_FCTI_DNHE_EUL_VFD_ADIAB_PCF_TL030S.nam,
GM_FCTI_DNHE_SL2_VFD_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCTI_DNHE_SL2_VFD_ADIAB_RDBBC1_PCF_TL030S.nam,
GM_FCTI_DNHE_SL3_VFD_ADIAB_RDBBC1_TL030S.nam,
GM_FCTI_HYD_EUL_VFD_ADIAB_TL030S.nam,
GM_FCTI_HYD_EUL_VFD_ARPPHYISBA_TL030S.nam,
GM_FCTI_HYD_SL2_RVFE_ADIAB_SETTLS_NDEC_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_EXTCLA_XIDT_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_LELTRA_XIDT_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_PCF_NDEC_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_VESL_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_MSLHD_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_NDPSFI_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_OSLHD_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_RW2TLFF_TL030S.nam,

GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SLHD_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SPRTGPQ_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SPRTSPQ_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SSLHD_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ARPPHYISBA_SETTLS_XIDT_NDPSFI_TL030S.nam,
GM_FCTI_HYD_SL2_VFE_ADIAB_SETTLS_NDEC_RW2TLFF_RFRIC_TL030S.nam,
GM_FCTI_HYD_SL2_VFE_ADIAB_SETTLS_NDEC_TL030S.nam,
GM_FCTI_HYD_SL2_VFE_ARPPHYISBA_FLT_IOSV_TL798S.nam,
GM_FCTI_HYD_SL2_VFE_ARPPHYISBA_SETTLS_NDEC_TL030S.nam,
GM_FCTI_HYD_SL2_VFE_ARPPHYISBA_SLT_IOSV_TL798S.nam,
GM_FCTI_HYD_SL2_VFE_ARPPHYISBA_SLT_REST_TL798S.nam,
GM_FCTI_HYD_SL3_VFD_ADIAB_TL030S.nam,
GM_FCTI_HYD_SL3_VFD_ARPPHYISBA_TL030S.nam,
GM_FCTI_NHE_EUL_VFD_ADIAB_PCF_TL030S.nam,
GM_FCTI_NHE_EUL_VFD_ADIAB_SI_TL030S.nam,
GM_FCTI_NHE_EUL_VFD_ARPPHYISBA_PCF_TL030S.nam,
GM_FCTI_NHE_EUL_VFD_ARPPHYISBA_SI_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_GWADV1_PCC_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_GWADV1_PCF_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_GWADV1_SI_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_RDBBC1_PCC_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_RDBBC1_PCF_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_RDBBC1_SI_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_PCC_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ARPPHYISBA_GWADV1_PCF_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ARPPHYISBA_GWADV2_PCC_TL030S.nam,
GM_FCTI_NHE_SL2_VFE_ADIAB_GWADV1_PCC_TL030S.nam,
GM_FCTI_NHE_SL2_VFE_ADIAB_GWADV1_PCF_TL030S.nam,
GM_FCTI_NHE_SL2_VFE_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCTI_NHE_SL3_VFD_ADIAB_RDBBC1_TL030S.nam,
GM_FCTI_NHE_SL3_VFD_ARPPHYISBA_RDBBC1_TL030S.nam,
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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_SURFLELAM.nam, GM_FPOF_NHE_GPLALON_ARPPHYISBA.nam,
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L2_FCTI_NHE_SL2_VFD_ADIAB_RDBBC1_PCF_NESC.nam,
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L3_C923_LELAM_FRANCE_lin.nam, L3_C923_LELAM_FRANCE_quad.nam,
L3_C923_LELAM_LACE.nam, L3_C923_LELAM_REUNION_lin.nam,
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L3_FCTI_NHE_SL2_VFD_ADIAB_GWADV1_PCF_FROC.nam,
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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, vide
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,
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GM_FCST_DHYP_EUL_VFD_ADIAB_TL031U.nam,
GM_FCST_DHYP_SL2_VFD_ADIAB_SETTLS_XIDT_TL031U.nam,
GM_FCST_DHYP_SL3_VFD_ADIAB_TL031U.nam,
GM_FCST_HYD_EUL_VFD_ADIAB_TL031U.nam,
GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL031U.nam,
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GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_VESL_TL031U.nam,

mitraille/namelist_ref

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L3_FCTI_NHE_SL2_VFD_ARPPHYISBA_GRANLMRT.nam,

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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, aainfo, vide
PRO_FILE.currentcycle_aldef, PRO_FILE.currentcycle_arpref

Doc:

- New project "validation"; directory mitraille becomes validation/mitraille.
- MITRAILLETTE updates.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: mitraille, validation

Git branch: yessad_CY45_cy45t1V02cor

Renamed:

mitraille * to validation/mitraille/*

Added:

validation/mitraille/procedure directives_updnam_cy37t1_to_cy38.py, directives_updnam_cy38_to_cy38t1.py,
directives_updnam_cy38t1_to_cy39.py

Modified:

validation/mitraille/doc history_difnam
validation/mitraille/procedure directives_updnam_cy45_to_cy45t1.py

Doc:

- Switch to v102017 of MITRAILLETTE.
- Provisional bf allowing old use of LNHDYN.
- Add missing labels for optional dummy arguments.
- NHQE bugfixes.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: arpifs, coupling, validation

Git branch: yessad_CY45_cy45t1V03cor

Deleted:

validation/mitraille/namelist GM_FCST_DHYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL031U.nam,
GM_FCST_DHYD_SL3_VFD_ADIAB_TL031U.nam
validation/mitraille/namelist_ref GM_FCST_DHYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL031U.nam,
GM_FCST_DHYD_SL3_VFD_ADIAB_TL031U.nam
validation/mitraille/protojobs GM_FCST_DHYD_EUL_VFD_ADIAB_TL031U.pjob,
GM_FCST_DHYD_SL3_VFD_ADIAB_TL031U.pjob,
GM_FCTI_NHE_SL2_VFD_ADIAB_RDBBC1_PCF_TL030S.pjob,
GM_FCTI_NHE_SL2_VFD_ADIAB_RDBBC1_SI_TL030S.pjob

Renamed:

validation/mitraille/namelist GM_C401_HYD_EUL_VFD_ADIAB.nam
validation/mitraille/namelist/GM_C401_HYD_EUL_VFD_ADIAB_TL030S.nam,
GM_C401_HYD_SL2_VFE_ADIAB.nam
validation/mitraille/namelist/GM_C401_HYD_SL2_VFE_ADIAB_TL030S.nam,
GM_C401_HYD_SL2_VFE_ADIAB_SLHD.nam
validation/mitraille/namelist/GM_C401_HYD_SL2_VFE_ADIAB_SLHD_TL030S.nam,
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validation/mitraille/namelist/GM_C501_HYD_SL2_VFE_ADIAB_TL030S.nam,
GM_C501_HYD_SL2_VFE_ADIAB_SLHD.nam
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validation/mitraille/protojobs/L3_FCTI_NHE_SL3_VFD_ADIAB_RDBBC2_FROC.pjob,
beaufix/config_CY43T1 validation/mitraille/protojobs/beaufix/config_CY45T0
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validation/mitraille/protojobs/beaufix

Added:

validation/mitraille/namelist

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validation/mitraille/namelist_ref

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L3_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCC_FROC.nam,
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L3_FCTI_NHQ_SL2_VFE_ADIAB_GWADV2_PCF_FROC.nam,
L3_PGDI_LALON_OC0500.selnam_pgd, L3_PGDI_LELAM_OC0500.selnam_pgd,
L3_PGDS_LELAM_OC0500.selnam_pgd, vv_phy_ARPPHYSFEX

validation/mitraille/protojobs

GM_C401_HYD_EUL_VFD_ADIAB_TL031U.pjob, GM_C401_HYD_SL2_VFE_ADIAB_TL030S.pjob,
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GM_C501_HYD_SL2_VFE_ADIAB_TL030S.pjob, GM_C501_HYD_SL2_VFE_ADIAB_TL031U.pjob,
GM_C923_SFEX_JAN_TL798S.pjob, GM_C923_SFEX_TL798S.pjob,
GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL030S.pjob,
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GM_FCTI_HYD_SL2_VFE_ARPPHYISBA_SLT_TL798S.pjob,
GM_FCTI_HYD_SL2_VFE_ARPPHYSFEX_SLT_IOSV_TL1198S.pjob,
GM_FCTI_HYD_SL2_VFE_ARPPHYSFEX_SLT_IOSV_TL798S.pjob,
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config_CY45T0B

validation/mitraille/protojobs/beaufix

Modified:

arpifs/adiab

arpifs/dia

arpifs/fullpos

arpifs/pp_obs

arpifs/setup

coupling/external/gpcou

validation/mitraille/doc

validation/mitraille/namelist

config_CY45T0B

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wrmlppg.F90

phymfpos.F90

pos.F90, pprh.F90

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epak3w.F90

doc_mitraillette.pdf

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L2_FCTI_HYD_SL2_VFD_ADIAB.nam, L2_FCTI_HYD_SL3_VFD_ADIAB.nam,
L2_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCF_NESC.nam,

validation/mitraille/namelist_ref

L3_C601_HYD_EUL_VFD_VSIPHY_PGAL.nam, L3_C601_HYD_SL2_VFD_VSIPHY_PGAL.nam,
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L3_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCC_FROC.nam,
L3_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCF_FROC.nam,
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arome.selnam_fp_0, arome.selnam_fp_3, vide_selnam_exseg1, vv_phy_AROPHYSFEX,
vv_phy_ARPPHYISBA, vv_phy_SIM1PHYISBA, vv_phy_SIM4PHYISBA, vv_phy_SIM5PHYISBA
PRO_FILE.currentcycle_aldref, PRO_FILE.currentcycle_arpref
mitraillette.x
GE_C901.pjob, GM_C401_HYD_EUL_VFD_SIM4PHYISBA.pjob,
GM_C401_HYD_SL2_VFE_SIM4PHYISBA.pjob, GM_C501_HYD_EUL_VFD_SIM5PHYISBA.pjob,
GM_C501_HYD_SL2_VFE_SIM5PHYISBA.pjob, GM_C601_HYD_EUL_VFD_ADIAB.pjob,
GM_C601_HYD_EUL_VFD_VSIPHY.pjob, GM_C601_HYD_SL2_VFE_ADIAB.pjob,
GM_C601_HYD_SL2_VFE_VSIPHY.pjob, GM_C923_TL798S.pjob, GM_DILA.pjob,
GM_DILA_HRES.pjob, GM_FCST_HYD_EUL_VFD_ADIAB_TL031U.pjob,

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

GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL031U.pjob,
GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_XIDT_TL031U.pjob,
GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_VESL_TL031U.pjob,
GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL031U.pjob,
GM_FCST_HYD_SL3_VFD_ADIAB_TL031U.pjob, GM_FCTI_HYD_EUL_VFD_ADIAB_TL030S.pjob,
GM_FCTI_HYD_EUL_VFD_ARPPHYISBA_TL030S.pjob,
GM_FCTI_HYD_SL2_RVFE_ADIAB_SETTLS_NDEC_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_EXTCLA_XIDT_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_PCF_NDEC_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_VESL_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_MSLHD_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_NDPSFI_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_OSLHD_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_RW2TLFF_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SLHD_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SPRTGPQ_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SPRTSPQ_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SSLHD_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL030S.pjob,
GM_FCTI_HYD_SL2_VFD_ARPPHYISBA_SETTLS_XIDT_NDPSFI_TL030S.pjob,
GM_FCTI_HYD_SL2_VFE_ADIAB_SETTLS_NDEC_RW2TLFF_RFRIC_TL030S.pjob,
GM_FCTI_HYD_SL2_VFE_ADIAB_SETTLS_NDEC_TL030S.pjob,
GM_FCTI_HYD_SL2_VFE_ARPPHYISBA_FLT_IOSV_TL798S.pjob,
GM_FCTI_HYD_SL2_VFE_ARPPHYISBA_SETTLS_NDEC_TL030S.pjob,
GM_FCTI_HYD_SL2_VFE_ARPPHYISBA_SLT_IOSV_TL798S.pjob,
GM_FCTI_HYD_SL2_VFE_ARPPHYISBA_SLT_REST_TL798S.pjob,
GM_FCTI_HYD_SL3_VFD_ADIAB_TL030S.pjob,
GM_FCTI_HYD_SL3_VFD_ARPPHYISBA_TL030S.pjob,
GM_FCTI_NHE_EUL_VFD_ADIAB_PCF_TL030S.pjob,
GM_FCTI_NHE_EUL_VFD_ADIAB_SI_TL030S.pjob,
GM_FCTI_NHE_EUL_VFD_ARPPHYISBA_PCF_TL030S.pjob,
GM_FCTI_NHE_EUL_VFD_ARPPHYISBA_SI_TL030S.pjob,
GM_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCC_TL030S.pjob,
GM_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_PCC_TL030S.pjob,

GM_FCTI_NHE_SL2_VFD_ARPPHYISBA_GWADV2_PCC_TL030S.pjob,
GM_FCTI_NHE_SL2_VFE_ADIAB_GWADV2_PCC_TL030S.pjob,
GM_FPIN_HYD_GPLALON_ARPPHYISBA.pjob, GM_FPIN_NHE_GPLALON_ARPPHYISBA.pjob,
GM_FPMF_HYD_GPLALON_CPRD.pjob, GM_FPMF_HYD_GPLALON_INRD.pjob,
GM_FPOF_HYD_SPGAUSS.pjob, GM_FPOF_HYD_GPLALON_ARPPHYISBA.pjob,
GM_FPOF_HYD_MODEL.pjob, GM_FPOF_HYD_MODEL_ADDGPQ.pjob,
GM_FPOF_HYD_MODEL_ADDNHVAR.pjob, GM_FPOF_HYD_MODEL_CHANGELEVELS.pjob,
GM_FPOF_HYD_SPGAUSS_H2L.pjob, GM_FPOF_HYD_SPGAUSS_L2H.pjob,
GM_FPOF_HYD_SPLELAM_ARU.pjob, GM_FPOF_HYD_SPLELAM_CIE_LAM2.pjob,
GM_FPOF_HYD_SPLELAM_COU.pjob, GM_FPOF_HYD_SURFLELAM.pjob,
GM_FPOF_NHE_GPLALON_ARPPHYISBA.pjob, GM_RGRI.pjob,
L1_FCST_HYD_SL2_VFD_AROPHY1D.pjob, L1_FCST_HYD_SL2_VFD_ARPPHY1D.pjob,
L2_FCST_NHE_SL3_VFD_ADIAB.pjob, L2_FCTI_HYD_SL2_VFD_ADIAB.pjob,
L2_FCTI_HYD_SL3_VFD_ADIAB.pjob,
L2_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCF_NESC.pjob,
L3_C401_HYD_EUL_VFD_ADIAB_PGAL.pjob, L3_C401_HYD_SL2_VFD_ADIAB_PGAL.pjob,
L3_C401_HYD_SL2_VFE_ADIAB_PGAL.pjob, L3_C501_HYD_EUL_VFD_ADIAB_PGAL.pjob,
L3_C501_HYD_SL2_VFD_ADIAB_PGAL.pjob, L3_C501_HYD_SL2_VFE_ADIAB_PGAL.pjob,
L3_C601_HYD_EUL_VFD_VSIPHY_PGAL.pjob, L3_C601_HYD_SL2_VFD_VSIPHY_PGAL.pjob,
L3_C601_HYD_SL2_VFE_VSIPHY_PGAL.pjob, L3_C923_LALON_FRANX01.pjob,
L3_C923_LELAM_FRANCE.pjob, L3_C923_LELAM_LACE.pjob, L3_C923_LELAM_REUNION.pjob,
L3_FCST_HYD_SL2_VFD_AROPHYSFEX_AROMALP1300.pjob,
L3_FCST_HYD_SL2_VFD_AROPHYSFEX_MAD_AROMALP1300.pjob,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCCMADIOS_AROMALP1300.pjob,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMALP1300.pjob,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCC_AROMALP1300.pjob,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCFMADIOS_AROMALP1300.pjob,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCFMAD_AROMALP1300.pjob,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCF_AROMALP1300.pjob,
L3_FCTI_HYD_EUL_VFD_ADIAB_PGAL.pjob, L3_FCTI_HYD_SL2_VFD_ADIAB_PGAL.pjob,
L3_FCTI_HYD_SL2_VFD_ADIAB_SLHD_PGAL.pjob,
L3_FCTI_HYD_SL2_VFD_ALRPHYISBA_OLDLACE.pjob,
L3_FCTI_HYD_SL2_VFE_ADIAB_PGAL.pjob, L3_FCTI_HYD_SL2_VFE_ALRPHYISBA_LACE.pjob,
L3_FCTI_HYD_SL2_VFE_ARPPHYISBA_GRANLMRT.pjob,
L3_FCTI_HYD_SL2_VFE_ARPPHYISBA_TSTDFI_FRAN.pjob,

L3_FCTI_HYD_SL2_VFE_ARPPHYSFEX_FRAN.pjob, L3_FCTI_HYD_SL3_VFD_ADIAB_PGAL.pjob,
L3_FCTI_HYD_SL3_VFD_ADIAB_SLHD_PGAL.pjob, L3_FCTI_HYD_SL3_VFE_ADIAB_PGAL.pjob,
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,
L3_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_PCF_FROC.pjob,
L3_FCTI_NHE_SL2_VFD_ARPPHYSBA_GRANLMRT.pjob,
L3_FPIN_HYD_MODEL_ARPPHYSBA.pjob, L3_FPOF_HYD_GPLALON_LAL.pjob,
L3_FPOF_HYD_GPLALON_OPE2_ARPPHYSBA.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_PGDI_LELAM_FRANCE.pjob, aainfo, config_CY43T2,
config_CY44, config_CY45, config_CY45T1, profil_table, z_GM_frame.pjob, z_L3_frame.pjob
validation/mitraille/protojobs/beaufix config_CY43T2, config_CY44, config_CY45, config_CY45T1, profil_table

Doc:

NHQE and MITRAILLETTE environnement fixes.

NO NUMERICAL IMPACT IS EXPECTED.

Projects: aladin, algor, arpifs, validation

Git branch: yessad_CY45_cy45t1V04cor

Deleted:

validation/mitraille/namelist_ref

GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_RW2TLFF_TL030S.namtest,
GM_FCTI_HYD_SL2_VFE_ARPPHYSBA_SLT_IOSV_TL798S.namtest,
GM_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCC_TL030S.namtest,
GM_FCTI_NHE_SL2_VFD_ARPPHYSBA_GWADV2_PCC_TL030S.namtest,
GM_FPIN_HYD_GPLALON_ARPPHYSBA.namtest,
GM_FPIN_NHE_GPLALON_ARPPHYSBA.namtest,
L3_FCST_NHE_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMALP1300.namtest,
L3_FCTI_HYD_SL2_VFE_ADIAB_PGAL.namtest,
L3_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCC_FROC.namtest

Added:

algor/interface

minv_caller.h

validation/mitraille/namelist

L3_FCST_NH_Q_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMOC0500.selnam_fp,

validation/mitraille/namelist_ref

L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCFMAD_AROMOC0500.selnam_fp
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMOC0500.selnam_fp,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCFMAD_AROMOC0500.selnam_fp

Modified:

aladin/adiab

espnhqesi.F90

aladin/coupling

eseimpls.F90

arpifs/adiab

cpeuldyn.F90, gnhqe_conv_tempe.F90, lanhqesi.F90, silkap.F90, silkapi.F90, spnhqesi.F90

arpifs/setup

sunhbmam.F90, sunhqesi.F90, sunhsi.F90, susi.F90, suvertfeb.F90

validation/mitraille/namelist

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,
GM_FCST_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL031U.nam,
GM_FCST_HYD_SL2_VFE_ADIAB_SETTLS_NDEC_RW2TLFF_RFRIC_TL030S.nam,
GM_FCST_HYD_SL2_VFE_ADIAB_SETTLS_NDEC_TL030S.nam,
GM_FCST_HYD_SL3_VFD_ADIAB_TL030S.nam, GM_FCST_HYD_SL3_VFD_ADIAB_TL031U.nam,
GM_FCST_NHE_EUL_VFD_ADIAB_PCF_TL030S.nam,
GM_FCST_NHE_EUL_VFD_ADIAB_SI_TL030S.nam,
GM_FCST_NHE_SL2_VFD_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCST_NHE_SL2_VFD_ADIAB_GWADV2_PCF_TL030S.nam,

GM_FCST_NHE_SL2_VFD_ADIAB_GWADV2_SI_TL030S.nam,
GM_FCST_NHE_SL2_VFD_ADIAB_RDBBC2_PCC_TL030S.nam,
GM_FCST_NHE_SL2_VFD_ADIAB_RDBBC2_PCF_TL030S.nam,
GM_FCST_NHE_SL2_VFD_ADIAB_RDBBC2_SI_TL030S.nam,
GM_FCST_NHE_SL2_VFE_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCST_NHE_SL2_VFE_ADIAB_GWADV2_PCF_TL030S.nam,
GM_FCST_NHE_SL3_VFD_ADIAB_RDBBC2_TL030S.nam,
GM_FCST_NHQ_EUL_VFD_ADIAB_PCF_TL030S.nam,
GM_FCST_NHQ_EUL_VFD_ADIAB_SI_TL030S.nam,
GM_FCST_NHQ_SL2_VFD_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCST_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_TL030S.nam,
GM_FCST_NHQ_SL2_VFD_ADIAB_GWADV2_SI_TL030S.nam,
GM_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCC_TL030S.nam,
GM_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_TL030S.nam,
GM_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_SI_TL030S.nam,
GM_FCST_NHQ_SL2_VFE_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCST_NHQ_SL2_VFE_ADIAB_GWADV2_PCF_TL030S.nam,
GM_FCST_NHQ_SL3_VFD_ADIAB_RDBBC2_TL030S.nam,
GM_FCTI_HYD_EUL_VFD_ADIAB_TL030S.nam,
GM_FCTI_HYD_EUL_VFD_ARPPHYISBA_TL030S.nam,
GM_FCTI_HYD_SL2_RVFE_ADIAB_SETTLS_NDEC_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_EXTCLA_XIDT_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_PCF_NDEC_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_VESL_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_MSLHD_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_NDPSFI_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_OSLHD_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_RW2TLFF_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SLHD_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SPRTGPQ_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SPRTSPQ_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_SSLHD_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL030S.nam,
GM_FCTI_HYD_SL2_VFD_ARPPHYISBA_SETTLS_XIDT_NDPSFI_TL030S.nam,

GM_FCTI_HYD_SL2_VFE_ADIAB_SETTLS_NDEC_RW2TLFF_RFRIC_TL030S.nam,
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GM_FCTI_HYD_SL2_VFE_ARPPHYSBA_SETTLS_NDEC_TL030S.nam,
GM_FCTI_HYD_SL2_VFE_ARPPHYSFEX_SLT_IOSV_TL798S.nam,
GM_FCTI_HYD_SL2_VFE_ARPPHYSFEX_SLT_TL798S.nam,
GM_FCTI_HYD_SL3_VFD_ADIAB_TL030S.nam,
GM_FCTI_HYD_SL3_VFD_ARPPHYSBA_TL030S.nam,
GM_FCTI_NHE_EUL_VFD_ADIAB_PCF_TL030S.nam,
GM_FCTI_NHE_EUL_VFD_ADIAB_SI_TL030S.nam,
GM_FCTI_NHE_EUL_VFD_ARPPHYSBA_PCF_TL030S.nam,
GM_FCTI_NHE_EUL_VFD_ARPPHYSBA_SI_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_PCF_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_GWADV2_SI_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_PCC_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_PCF_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ADIAB_RDBBC2_SI_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ARPPHYSBA_GWADV2_PCC_TL030S.nam,
GM_FCTI_NHE_SL2_VFD_ARPPHYSBA_GWADV2_PCF_TL030S.nam,
GM_FCTI_NHE_SL2_VFE_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCTI_NHE_SL2_VFE_ADIAB_GWADV2_PCF_TL030S.nam,
GM_FCTI_NHE_SL3_VFD_ADIAB_RDBBC2_TL030S.nam,
GM_FCTI_NHE_SL3_VFD_ARPPHYSBA_RDBBC2_TL030S.nam,
GM_FCTI_NHQ_EUL_VFD_ADIAB_PCF_TL030S.nam,
GM_FCTI_NHQ_EUL_VFD_ADIAB_SI_TL030S.nam,
GM_FCTI_NHQ_EUL_VFD_ARPPHYSBA_PCF_TL030S.nam,
GM_FCTI_NHQ_EUL_VFD_ARPPHYSBA_SI_TL030S.nam,
GM_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCC_TL030S.nam,
GM_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_TL030S.nam,
GM_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_SI_TL030S.nam,
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_ARPPHYSBA_GWADV2_PCC_TL030S.nam,
GM_FCTI_NHQ_SL2_VFD_ARPPHYSBA_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_NHE_GPLALON_ARPPHYISBA.nam, GM_FPIN_NHQ_GPLALON_ARPPHYISBA.nam,
GM_FPOF_NHE_GPLALON_ARPPHYISBA.nam, GM_FPOF_NHQ_GPLALON_ARPPHYISBA.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_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,
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validation/mitraille/namelist_ref

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validation/mitraille/protojobs

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L2_FCST_NHQ_EUL_VFD_ADIAB.pjob,
L2_FCST_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_NESC.pjob,
L2_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_NESC.pjob,
L2_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_SETTLS.pjob,
L2_FCST_NHQ_SL3_VFD_ADIAB.pjob,
L2_FCTI_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_NESC.pjob,
L2_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_NESC.pjob,
L2_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_SETTLS.pjob,

L2_FCTI_NHQ_SL3_VFD_ADIAB.pjob, L3_FCST_NHQ_EUL_VFD_ADIAB_FROC.pjob,
L3_FCST_NHQ_SL2_VFD_ADIAB_GWADV2_PCC_FROC.pjob,
L3_FCST_NHQ_SL2_VFD_ADIAB_GWADV2_PCF_FROC.pjob,
L3_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCC_FROC.pjob,
L3_FCST_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_FROC.pjob,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCCMADIOS_AROMALP1300.pjob,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMALP1300.pjob,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCCMAD_AROMOC0500.pjob,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCC_AROMALP1300.pjob,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCFMADIOS_AROMALP1300.pjob,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCFMAD_AROMALP1300.pjob,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCFMAD_AROMOC0500.pjob,
L3_FCST_NHQ_SL2_VFD_AROPHYSFEX_GWADV2_PCF_AROMALP1300.pjob,
L3_FCST_NHQ_SL2_VFE_ADIAB_GWADV2_PCF_FROC.pjob,
L3_FCST_NHQ_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,
L3_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCC_FROC.pjob,
L3_FCTI_NHQ_SL2_VFD_ADIAB_RDBBC2_PCF_FROC.pjob,
L3_FCTI_NHQ_SL2_VFD_ARPPHYISBA_GRANLMRT.pjob,
L3_FCTI_NHQ_SL2_VFE_ADIAB_GWADV2_PCF_FROC.pjob,
L3_FCTI_NHQ_SL3_VFD_ADIAB_RDBBC2_FROC.pjob, config_CY45T1
validation/mitraille/protojobs/beaufix config_CY45T1

Doc:

NHQE bugfixes.

EXPECTED IMPACT:

NHQE model results are different

Projects: arpifs

Git branch: yessad_CY45_cy45t1V05cor

Deleted:

arpifs/adiab

sivderi.F90

- Various cleanings.

EXPECTED IMPACT:

Some of these modifications may have a numerical impact, especially in the NHEE model.

Projects: aladin, algor, arpifs

Git branch: yessad_CY45_nhqe_and_vfenh

Added:

aladin/adiab	espnhqesi.F90, espnhqesi_prodskap.F90
algor/external/linalg	minv_caller.F90
arpifs/adiab	cpg_gp_hyd.F90, cpg_gp_nhee.F90, cpg_gp_nhqe.F90, gnhee_grp.F90, gnhqe_conv_nhvar.F90, gnhqe_conv_tempe.F90, gnhqe_grp.F90, gnhqe_nhx.F90, gnhqe_preh.F90, gnhqe_tndlagadiab_gw.F90, gnhqe_tndlagadiab_svd.F90, gnhqe_xxd.F90, gprcph.F90, gpskap.F90, lanhqesi.F90, silkap.F90, silkapi.F90, sinhqe_seve.F90, siqq.F90, siskap.F90, siskapi.F90, sivderi.F90, spnhqesi.F90, spnhqesi_prodskap.F90
arpifs/setup	sunh_vertfespline.F90, sunh_vertfespline_half.F90, sunh_vertfespline_inv.F90, sunhqebmat.F90, sunhqesi.F90, suvfe_implicitbc.F90, suvfe_oper_setup.F90
arpifs/utility	verdisint.F90
Modified:	
aladin/adiab	espfilt.F90, espnhsi.F90
aladin/control	espcm.F90
aladin/coupling	eseimpls.F90, eseimplsad.F90
aladin/setup	sueldynb.F90
aladin/transform	etransinv_nhconv.F90
arpifs/adiab	cpeuldyn.F90, cpg5_gp.F90, cpg_gp.F90, cpglag.F90, gnh_conv_nhvar.F90, gnh_conv_prhs.F90, gnh_tndlagadiab_gw.F90, gnh_tndlagadiab_svd.F90, gnhdlr.F90, gnhrdlr.F90, gnhrgrw.F90, gnhrgw2svd.F90, gnhrgw2svdarome.F90, gnhrpre.F90, gnhrpreh.F90, gnhrsvd2gw.F90, gnhrx.F90, gpcty.F90, gpgeo.F90, gpgrgeo.F90, gpgrp.F90, gpgrxyb.F90, gpgw.F90, gphpre.F90, gpinislb.F90, gppvo.F90, gppwcvfe.F90, gprcp.F90, gptf1pc.F90, gptf2pc.F90, gpxx.F90, lacdyn.F90, laitre_gmv.F90, lanhsi.F90, lanhsib.F90, lapinea.F90, lapineb.F90, larcinb.F90, larcinhb.F90, lattes.F90, lattex.F90, lavabo.F90, sidd.F90, sigam.F90, siseve.F90, sitnu.F90, spnh_conv_nhvar.F90, spnhhsi.F90
arpifs/climate	cormassdry.F90
arpifs/control	cnt4.F90, cnt4ad.F90, cnt4tl.F90, gp_model.F90, spcm.F90, stepo.F90, stepotl.F90
arpifs/dfi	dfi3.F90
arpifs/fullpos	vpos.F90

arpifs/module	field_definitions.F90, field_gfl_wrapper.F90, gmv_subs_mod.F90, intdyn_mod.F90, type_gmvs.F90, yomct0.F90, yomcver.F90, yomdyn.F90, yomdyna.F90, yomgwdiag.F90, yomvert.F90
arpifs/namelist	namct0.nam.h, namdyn.nam.h, namdyna.nam.h
arpifs/oops	cpglag_oops.F90, stepo_oops.F90, stepo_oops_traj.F90, stepotl_oops.F90
arpifs/phys_dmn	mf_phys.F90, mf_phys_prep.F90
arpifs/pp_obs	pos.F90
arpifs/setup	sualdyn.F90, sualdynb.F90, suct0.F90, sudyn.F90, sudyna.F90, suheg.F90, sunhbmat.F90, sunhheg.F90, sunhsi.F90, sunhsi_testconv.F90, suptrgppc.F90, susi.F90, suslb.F90, suvert.F90, suvertfe.F90, suvertfeb.F90, suvfe_basis.F90, suvfe_cpsplines.F90, suvfe_knot.F90, suvfe_matrix.F90, suvfe_testoper.F90, suvv1.F90
arpifs/transform	transinv_nhconv.F90