

ARPEGE MEMORANDUM

From: GCO

Date: June 30, 2011

Subject: New cycle CY37T1

A new cycle CY37T1 has been created. This is not a common cycle with the ECMWF. The different contributions for this cycle are described in the following pages.

ClearCase label: CY37T1

Contributors:

ALIAS Antoinette	Project:arpege	CCase branch:mrpa589_CY37_gco
	Project:arpege	CCase branch:mrpa589_CY37_gco_CY37_t1
AUDOIN Jean-Marc	Project:arpege	CCase branch:marp001_CY36T1_op1pearp
	Project:arpege	CCase branch:mrpe602_CY37_patatra
	Project:arpege	CCase branch:mrpe602_CY37_tailhail
	Project:arpege	CCase branch:mrpe602_CY37_ustra
AUGER Ludovic	Project:arpege	CCase branch:mrpa645_CY37_bflloi
	Project:arpege	CCase branch:mrpa645_CY37_contribcy37T1
	Project:arpege	CCase branch:mrpa645_CY37_dfi2
BERRE Loik	Project:arpege	CCase branch:mrpa663_CY37_inflpert_uhstrato_zcor
	Project:arpege	CCase branch:mrpa663_CY37_lsbq_stratolow
BOUTELOUP Yves	Project:arpege	CCase branch:mrpa648_CY37_b365
	Project:arpege	CCase branch:mrpa648_CY37_b366
	Project:arpege	CCase branch:mrpa648_CY37_b368
	Project:arpege	CCase branch:mrpa648_CY37_b370
BOUYSSSEL Francois	Project:arpege	CCase branch:mrpa649_CY37_fbydbl345
	Project:arpege	CCase branch:mrpa649_CY37_ratdbl1

BROZKOVA Radmila	Project:arpege	CCase branch:mrpe684_CY37_mcfix
DESROZIERS Gerald	Project:arpege	CCase branch:mrpm611_CY37_inflfact1
EL KHATIB Ryad	Project:arpege	CCase branch:mrpm602_CY37_postraps
GCO	Project:arpege	CCase branch:marp003_CY36T1_fix_combi_optim
	Project:arpege	CCase branch:marp003_CY37_fix_for_g95
	Project:arpege	CCase branch:marp003_CY37_modules2
	Project:arpege	CCase branch:marp003_CY37_remove
	Project:arpege	CCase branch:marp003_CY37_remove_LNOEXTZ
	Project:arpege	CCase branch:marp003_CY37_sucma
	Project:arpege	CCase branch:marp003_CY37_t1fix*
	Project:arpege	CCase branch:marp003_CY37_version_37
GERARD Elisabeth	Project:arpege	CCase branch:mrpe605_CY37_ssmisF18_rars
GUIDARD Vincent	Project:arpege	CCase branch:mrpe710_CY37_ISPhybrid
	Project:arpege	CCase branch:mrpe710_CY37_bfRADTR
	Project:arpege	CCase branch:mrpe710_CY37_rtcoefAirlasi
GUILLAUME Frank	Project:arpege	CCase branch:marp003_CY37_mrpa644_split_radar
	Project:arpege	CCase branch:mrpa644_CY37_bator_radar
	Project:arpege	CCase branch:mrpa644_CY37_bf_radar
	Project:arpege	CCase branch:mrpa644_CY37_bugfix_ctrlcodage
	Project:arpege	CCase branch:mrpa644_CY37_fr37_001
	Project:arpege	CCase branch:mrpa644_CY37_timeslot
HIRLAM Consortium	Project:arpege	CCase branch:marp003_CY37_hirlam
	Project:arpege	CCase branch:mrpe726_CY37_hl37
LABADIE Carole	Project:arpege	CCase branch:mrmn269_CY36T1_combiPEARP3
MARGUINAUD Philippe	Project:arpege	CCase branch:mrpm609_CY37_mrpm609
MOLL Patrick	Project:arpege	CCase branch:marp003_CY37_mrpa646_debug4DVar
	Project:arpege	CCase branch:mrpa646_CY37_bug4Dvar37t1
MONTMERLE Thibaut	Project:arpege	CCase branch:mrpa666_CY37_TM_bugfix

PAYAN Christophe	Project:arpege	CCase branch:mrpa642_CY37_aeo
	Project:arpege	CCase branch:mrpa642_CY37_aeoclean
	Project:arpege	CCase branch:mrpa642_CY37_bfbator
	Project:arpege	CCase branch:mrpa642_CY37_hretrfix
	Project:arpege	CCase branch:mrpa642_CY37_mfblackexpress
	Project:arpege	CCase branch:mrpa642_CY37_odbts
	Project:arpege	CCase branch:mrpa642_CY37_oscat
	Project:arpege	CCase branch:mrpa642_CY37_sigocoef
	Project:arpege	CCase branch:mrpa642_CY37_windarp
	Project:arpege	CCase branch:mrpa642_CY37_windplus
RIVIERE Olivier	Project:arpege	CCase branch:mrpe601_CY37_collec_pour37t2_v2
	Project:arpege	CCase branch:mrpe601_CY37_debug_blend
	Project:arpege	CCase branch:mrpe601_CY37_debug_iostream_lam
	Project:arpege	CCase branch:mrpe601_CY37_odb_et_su0yomb
	Project:arpege	CCase branch:mrpe601_CY37_rattrapage_36t1op2
	Project:arpege	CCase branch:mrpe601_CY37_suite_phys_simpl_valid
SEITY Yann	Project:arpege	CCase branch:marp003_CY37_mrpm637_ratrap_raps_160311
	Project:arpege	CCase branch:marp003_CY37_surfex_v6
	Project:arpege	CCase branch:mrpm637_CY37_aro_37pour37t1_v2
	Project:arpege	CCase branch:mrpm637_CY37_aromebf
	Project:arpege	CCase branch:mrpm637_CY37_bfpourv6
	Project:arpege	CCase branch:mrpm637_CY37_bfspourv5
	Project:arpege	CCase branch:mrpm637_CY37_pourv4
SPANIEL Olda	Project:arpege	CCase branch:mrpe693_CY37_fix0102
TAILLEFER Francoise	Project:arpege	CCase branch:mrpa647_CY37_ftdbl
	Project:arpege	CCase branch:mrpa647_CY37_ftoi
TROJAKOVA Alena	Project:arpege	CCase branch:mrpe694_CY37_abf
VANA Filip	Project:arpege	CCase branch:mrpe706_CY37_fix1

VARELLA Hubert
VOITUS Fabrice
YESSAD Karim

Project:arpege	CCase branch:mrpe706_CY37_toucans
Project:arpege	CCase branch:marp003_CY37_mrpm627_sujbwavelet_normalexit
Project:arpege	CCase branch:mrpm630_CY37_ddhflex2D
Project:arpege	CCase branch:mrpm603_CY37_bf5a
Project:arpege	CCase branch:mrpm603_CY37_dev37pour37t1
Project:arpege	CCase branch:mrpm603_CY37_t1bf

ALIAS Antoinette

Doc:

- 1) Introduction of LALBMERCLIM to allow specific values for ZALBD/ZALBP and PEMIS if LRAYFM in Climat run.
- 2) Dealing with the drift of Insolation according the date when the new key LASTRF is switched to TRUE .
- 3) Relaxation of Mesospheric Specific Humidity (fix).
- 4) Bugfix call to cpnudg with or without LMSE .
- 5) Diagnostic SUNSHINE duration added (SUNSHI. DURATION).
- 6) No nudging of surface and SST when LMSE .
- 7) Add linear ozone.

Project: arpege
ClearCase branch: mrga589_CY37_gco

Modified:

arp/adiab	cpg.F90	cpg_gp.F90	cptend.F90
arp/module	yomphy1.F90	yomrip.F90	
arp/namelist	namphy1.h	namrip.h	
arp/phys_dmn	aplpar.F90	mf_phys.F90	suphmse.F90
	suphy1.F90	surdi15.F90	
arp/setup	su_surf_flds.F90	suafn1.F90	sucst.F90
	sudim1.F90	sunud.F90	surip.F90
arp/utility	updtim.F90		

Doc:

Relaxation of Mesospheric Specific Humidity .

Project: arpege
ClearCase branch: mrga589_CY37_gco_CY37_t1

Modified:

arp/adiab cptend_new.F90
arp/phys_dmn mf_phys.F90

AUDOIN Jean-Marc

Doc:

Changes if subroutine pochec.F , which handles previous terms for TMIN/TMAX: cleaning of calls and hard-coded arrays. Now we content with reading previous term in post-processing file, except for climate forecast.

Project: utilitaires
ClearCase branch: marp001_CY36T1_op1pearp

Modified:
uti/progrid pochec.F

Doc:

Introduction of changes from Mate Mile (Hungary), to allow reading of GRIB files from ECMWF, whatever the format (GRIB1 or GRIB2).

Project: arpege
ClearCase branch: mrpe602_CY37_patatra

Modified:
arp/control cprep1.F90
arp/setup suarg.F90

Doc:

Catch-up from parallel suite: handle field SURFDIAGHAIL in PROGRID .

Project: utilitaires
ClearCase branch: mrpe602_CY37_tailhail

Modified:

uti/progrid procor2.F

Doc:

Introduce modifications allowing to handle fields USTR/VSTR (i.e. TENS.TURB.ZO/TENS.TURB.ME) in model AROME REUNION (identification by model number 190).

Project:

utilitaires

ClearCase branch:

mrpe602_CY37_ustra

Modified:

uti/progrid procor2.F

AUGER Ludovic**Doc:**

Fix a norm violation: key LLOI is renamed to LROI .

Project:

arpege

ClearCase branch:

mrpa645_CY37_bflloi

Modified:

arp/module yomobs.F90
arp/namelist namobs.h
arp/obs_preproc defrun.F90
arp/op_obs slint.F90

Doc:

- 1) *Handle land/see mask for direct observation operators of limit layer, under key LLOI .*
- 2) *Bugfix for DFI grid-point : handling of grid-point q in DFI code is automatically activated.*

Project: arpege
ClearCase branch: mrpa645_CY37_contribcy37T1

Added:

arp/dfi copgfl.F90 corgfl.F90

Modified:

arp/dfi	corgfl.F90	corgfl.F90	dfi2.F90
	dfi2mod.F90	dfi3.F90	digfil.F90
	digp.F90	zeroacu.F90	
arp/module	yomobs.F90		
arp/namelist	namobs.h		
arp/obs_preproc	defrun.F90		
arp/op_obs	slint.F90		

Doc:

Bugfix for incremental DFI, under logical key LFIX_DFI2 .

Project: arpege
ClearCase branch: mrpa645_CY37_dfi2

Modified:

arp/dfi	corgfl.F90	corgfl.F90	dfi2.F90
	suini.F90		
arp/module	yomini.F90		
arp/namelist	namini.h		

BERRE Loik

Doc:

Inflation of forecast perturbations in ensemble assimilation experiments. This is achieved by calculating an inflation factor as a (vertically varying) global ratio between ensemble spread and reference sigma σ 's (in inflcalc.F90, by activating LBACKG, LBACKGE and LINFLATCALC=.TRUE. in NAMJG). The ensemble mean of the forecast ensemble is then calculated in inflation_pert.F90, by activating LENSMEAN_CALC=.TRUE. in NAMJG. Forecast perturbations (defined as departures from the ensemble mean) are finally inflated and added to the ensemble mean in inflcalc.F90, by activating LINFLAT=.TRUE. in NAMCT0. In the case of a 6h-window 4D-Var, the inflation factor is calculated for and applied to 6h forecasts (used as backgrounds for the next upper-air analysis time), and it can be adjusted and applied to 9h forecasts (used as backgrounds for the next CANARI surface analyses) by additionally activating LINFLP9=.TRUE. in NAMCT0 for inflation_pert.F90.

The routine bgevecs.F90 has been modified to be based on departures with respect to the ensemble mean (instead of differences between perturbed members), and the variance calculation includes the appropriate factor 1/(N-1).

The routine subjvarens.F90 has been modified to ensure that calculations for surface pressure are correct whatever the number of processors is (use of index IPTJBPS to avoid unnecessary calculations on the orographic part of SP2 arrays). An unnecessary array allocation has also been avoided.

Routines for observation perturbations (pertobs.F90 and pertobs_uncorr.F90) have been slightly modified to allow them to be used for LAM configurations (spatial correlations of SATOBS are not activated if LELAM is true, since they are currently based on a spherical harmonics model).

Project: arpege
ClearCase branch: mrpa663_CY37_inflpert_uhstrato_zcor

Added:
arp/var inflation_pert.F90 inflcalc.F90

Modified:
arp/canari cagade.F90 canari.F90
arp/control forecast_error.F90

arp/dia	suofname.F90		
arp/module	yomct0.F90	yomjg.F90	yomvar.F90
arp/namelist	namct0.h	namjg.h	namvar.h
arp/obs_preproc	pertobs.F90	pertobs_uncorr.F90	
arp/setup	suct0.F90	sugrida.F90	sumpini.F90
arp/utility	openfa.F90		
arp/var	bgevecs.F90	fltbgerr.F90	inflation_pert.F90
	inflcalc.F90	subj.F90	subvarens.F90

Doc:

Introduction (in sushfce.F90, for the case LRDQERR.AND.LREDNMCQ=.TRUE.) of a vertically dependent inflation of specific humidity (q) background error standard deviations, and setting of low standard deviation values (for q) in the stratosphere.

Project: arpege
ClearCase branch: mrpa663_CY37_ls bq_stratolow

Modified:
arp/var suinfce.F90 subj.F90 susepfce.F90
sushfce.F90

BOUTELOUP Yves

Doc:

Modset from Mohamed Mokthari (desert dust emission/transport/sedimentation).

Project: arpege,Meso-NH physique altitude
ClearCase branch: mrpa648_CY37_b365

Added:
mpa/chem/externals aro_wetdep.f90
mpa/chem/interface aro_wetdep.h

mpa/chem/internals	aer_effic_dep.f90	aer_wet_dep.f90	
mpa/chem/module	modi_aer_effic_dep.f90	modi_aer_wet_dep.f90	
mpa/micro/externals	aroini_wet_dep.f90		
mpa/micro/interface	aroini_wet_dep.h		
mpa/micro/internals	ini_wet_dep.f90		
mpa/micro/module	modd_parameters_dep.f90	modd_wet_dep_descr.f90	modd_wet_dep_param.f90
	modi_ini_wet_dep.f90		

Deleted:

mpa/micro/externals	aroini_frommpa.f90
mpa/micro/interface	aroini_frommpa.h

Modified:

arp/adiab	cptend_new.F90		
arp/module	yomarphy.F90		
arp/phys_dmn	acdifv1.F90	acdifv2.F90	aplpar.F90
	initaplpar.F90	mf_phys.F90	suphmse.F90
arp/setup	su0phy.F90	sudefo_gflattr.F90	
mpa/chem/externals	aro_wetdep.f90		
mpa/chem/interface	aro_wetdep.h		
mpa/chem/internals	aer_effic_dep.f90	aer_wet_dep.f90	
mpa/chem/module	modd_dust.f90	modi_aer_effic_dep.f90	modi_aer_wet_dep.f90
mpa/micro/externals	aroini_wet_dep.f90		
mpa/micro/interface	aroini_wet_dep.h		
mpa/micro/internals	ini_wet_dep.f90		
mpa/micro/module	modd_parameters_dep.f90	modd_wet_dep_descr.f90	modd_wet_dep_param.f90
	modi_ini_wet_dep.f90		

Doc:

- 1) Add two surface fields, one for EDKF (store surface flux for the next time step) , one for MUSC (surface forcing).
- 2) Modset to use EDKF in ARPEGE .
- 3) Modset for MUSC .

Project: arpege,Meso-NH physique altitude
ClearCase branch: mrpa648_CY37_b366

Added:

arp/phys_dmn surf_ideal_flux.F90
mpa/turb/externals arp_shallow_mf.f90

Modified:

arp/adiab	cp_forcing.F90	cpg.F90	cpg_dyn.F90
	cpg_gp.F90	gpcty_forc.F90	
arp/module	surface_fields_mix.F90	yom_ygfl.F90	yomct0.F90
	yomlsforc.F90	yomphy.F90	yomphyds.F90
arp/namelist	namct0.h	namlsforc.h	namphy.h
	namphyds.h		
arp/phys_dmn	aplpar.F90	mf_phys.F90	surf_ideal_flux.F90
arp/setup	su0phy.F90	su_surf_fds.F90	suct0.F90
	sudefo_gflattr.F90	sugrida.F90	sulsforc.F90
	sumpini.F90		
mpa/turb/externals	arp_shallow_mf.f90		

Doc:

Fix phasing bugs.

Project: arpege
ClearCase branch: mrpa648_CY37_b368

Modified:

arp/phys_dmn aplpar.F90

Doc:

- 1) Introduction of the possibility of modifying the calculation of RMU0M via the key LRMU0 in NAMPHY.*
- 2) Addition of the namelist variable NCALLRAD, allowing not to call radiation scheme at the last time step.*

Project: arpege
ClearCase branch: mrpa648_CY37_b370

Modified:

arp/adiab	cpphinp.F90	
arp/module	yomphy.F90	yomrip.F90
arp/namelist	namphy.h	
arp/phys_dmn	aplpar.F90	
arp/setup	su0phy.F90	surip.F90
arp/utility	updtim.F90	

BOUYSEL Francois

Doc:

- 1) *Consideration of the vertical speed resolved in the neighborhood of the surface in case of activation of the modifications "anti-arpegades", in the paramétrisation of deep convection.*
- 2) *Initialization of the field "SURFRESERV.NEIGE" (equivalent contain in water of the snow-covered pack), written in the historic files (ICMSH) from snow plan used in Surfex. This modification concerns ALADIN SURFEX, it is a catching up of what was made recently in AROME.*
- 3) *Change of the threshold determining the presence or not of snow on surface in the analysis of the humidity of the ground with Surfex (OI_MAIN). Change from a numerical value (1e-13 kg/m2) to a physical value (0.1 kg/m2).*

Project: arpege,Meso-NH surface, surfex

ClearCase branch: mrpa649_CY37_fbydbl345

Modified:

arp/module	yomphy0.F90		
arp/phys_dmn	accvimp.F90	aplpar.F90	mf_phys.F90
	suphy0.F90		
mse/programs	oi_main.F90		
surfex/offlin/assim	oi_cacsts.F90		

Doc:

Phasing on cycle CY37_bf.01 of two contributions "arp_mrpa649_CY36T1_fby01" and "arp_mrpa649_CY36T1_dbl2" introduced in the

e-suite CY36T1_op2:

1) Resolved condensation/evaporation and microphysics performed after deep convection (if LADJCLD=T).

2) Correction of resolved condensation/evaporation in case of negative temperature (in acpluiz.F90).

3) Local consumption of moisture convergence when exceeding a threshold on resolved vertical velocity "omega" (if GCVOMGQ>0) .

4) Modulation of convective entrainment function of resolved vertical velocity "omega" (if GCVOMGE>0).

Project: arpege

ClearCase branch: mrpa649_CY37_ratdbl1

Added:

arp/phys_dmn acuptq.F90

Modified:

arp/module yomphy0.F90

arp/namelist namphy0.h

arp/phys_dmn accvimp.F90 acnebn.F90 acpluiz.F90

actke.F90 acuptq.F90 advprcs.F90

aplpar.F90 suphy0.F90

arp/setup su0phy.F90

BROZKOVA Radmila

Doc:

Bugfix in convective updraft and microphysics.

Project: arpege

ClearCase branch: mrpe684_CY37_mcfix

Modified:

arp/phys_dmn accvud.F90 aplmphys.F90

DESROZIERS Gerald

Doc:

Introduce a new key LINFL1 allowing to switch off forecasts inflation in AEARP .

Project: arpege

ClearCase branch: mrpm611_CY37_inflfact1

Modified:

arp/module yomct0.F90

arp/namelist namct0.h

arp/setup suct0.F90 sumpini.F90

arp/var inflation_pert.F90 inflcalc.F90

EL KHATIB Ryad

Doc:

aeo/Scripts/arpifs_excluded_files

ald/var/ebalvertad.F90

ald/var/ebalvert.F90

arp/canari/cabane.F90

arp/obs_preproc/mkglobstab.F90

arp/obs_preproc/thibox.F90

mpa/micro/externals/aroini_frommpa.f90

mpa/micro/internals/rain_ice.f90

tfl/module/trgtol_mod.F90:

Bugfixes

arp/canari/cacsts.F90
arp/control/cdsta.F90
arp/fullpos/endpos.F90
arp/fullpos/sufpsuw.F90
arp/pp_obs/ppreq.F90
arp/utility/iopack.F90
arp/var/ecset.F90
arp/var/rd801.F90
sat/rttov/rttov_ad.F90
sat/rttov/rttov_k.F90
sat/rttov/rttov_setpredictors_7_ad.F90
sat/rttov/rttov_setpredictors_7_tl.F90
sat/rttov/rttov_tl.F90:

Bugfix against bounds violations (includes Intel compiler directives in rttov).

arp/module/goms_mix.F90: Intel compiler directive.

arp/module/yomvar.F90
arp/namelist/namvar.h
arp/var/suvar.F90
arp/var/rdfpinc.F90:

Conditional call to SUSPQLIM to bypass a parallelisation problem.

arp/obs_preproc/defrun.F90
arp/var/jgvcor.F90
arp/var/rdphtrajm.F90
arp/var/rdphtrajtm.F90
arp/var/wrphtrajm.F90
arp/var/wrphtrajtm.F90:

Optimisations.

arp/programs/master.F90: Conditional support for IBM HPM profiler.

obt/bias_sat/magics_correction.F
obt/satmon/sat_add_geo.F90
xrd/module/mpl_probe_mod.F90
xrd/utilities/linuxtrbk.c:

Portability bugfix.

odb/cma2odb/ctxgetdb.F90: An improvement of ODB flexibility

*xrd/module/mpl_close_mod.F90
xrd/module/mpl_init_mod.F90
xrd/module/mpl_open_mod.F90
xrd/module/mpl_read_mod.F90
xrd/module/mpl_write_mod.F90
xrd/module/samio_mod.F90:*

MPI2 defined as default as it was in cycle 36T2 (development by Sami Saarinen in FMI). On should define the cpp macro MPI1 to return to mpi1. ECMWF is expected to upgrade their PC to mpich2.

Project: aeolus,aladin,arpege,Meso-NH physique altitude,obstat,odb,satrad,transformées arpege,auxiliaire
ClearCase branch: mrpm602_CY37_postraps

Modified:

aeo/Scripts	arpifs_excluded_files		
ald/var	ebalvert.F90	ebalvertad.F90	
arp/canari	cabane.F90	cacsts.F90	
arp/control	cdsta.F90		
arp/fullpos	endpos.F90	sufpsuw.F90	
arp/module	goms_mix.F90	yomvar.F90	
arp/namelist	namvar.h		
arp/obs_preproc	defrun.F90	mkglobstab.F90	thibox.F90
arp/pp_obs	ppreq.F90		
arp/programs	master.F90		
arp/utility	iopack.F90		
arp/var	ecset.F90	jgvcor.F90	rd801.F90
	rdfpinc.F90	rdphtrajm.F90	rdphtrajtm.F90
	suvar.F90	wrphtrajm.F90	wrphtrajtm.F90
mpa/micro/externals	aroini_frommpa.f90		
mpa/micro/internals	rain_ice.f90		
obt/bias_sat	magics_correction.F		
obt/satmon	sat_add_geo.F90		
odb/cma2odb	ctxgetdb.F90		
sat/rttov	rttov_ad.F90	rttov_k.F90	rttov_setpredictors_7_ad.F90

tfl/module	rttov_setpredictors_7_tl.F90	rttov_tl.F90	
xrd/module	trgtol_mod.F90		
	mpl_close_mod.F90	mpl_init_mod.F90	mpl_open_mod.F90
	mpl_probe_mod.F90	mpl_read_mod.F90	mpl_write_mod.F90
	samio_mod.F90		
xrd/utilities	linuxtrbk.c		

GCO

Doc:

Use of module RANDOM_NUMBERS_MIX instead of module RANDOM_NUMBERS (NB: module random_numbers.F90 was renamed to random_numbers_mix.F90, and moved to project "algor" in cycle CY35).

Project: utilitaires
ClearCase branch: marp003_CY36T1_fix_combi_optim

Modified:

uti/combi combi_opti.F90

Doc:

Fix compilation errors with g95 .

Project: arpege,odb
ClearCase branch: marp003_CY37_fix_for_g95

Modified:

arp/module varbc_eval.F90
odb/cma2odb getdb.F90 maketimeslot_index.F90

Doc:

Move new modules added in directories "ifs/dia" and "ifs/io_serv" to "ifs/module" directory.

Project:**ClearCase branch:** marp003_CY37_modules2**Renamed:**

arp/dia wrfu_mod.F90 to arp/module/wrfu_mod.F90
wrgrida_mod.F90 to arp/module/wrgrida_mod.F90
wrgridua_mod.F90 to arp/module/wrgridua_mod.F90
wrxfu_mod.F90 to arp/module/wrxfu_mod.F90

arp/io_serv yomio_serv.F90 to arp/module/yomio_serv.F90
yomio_serv_cfield.F90 to arp/module/yomio_serv_cfield.F90
yomio_serv_cfield_fifo.F90 to arp/module/yomio_serv_cfield_fifo.F90
yomio_serv_compress.F90 to arp/module/yomio_serv_compress.F90
yomio_serv_ffield.F90 to arp/module/yomio_serv_ffield.F90
yomio_serv_ffield_fifo.F90 to arp/module/yomio_serv_ffield_fifo.F90
yomio_serv_hdr.F90 to arp/module/yomio_serv_hdr.F90
yomio_serv_recv.F90 to arp/module/yomio_serv_recv.F90
yomio_serv_write.F90 to arp/module/yomio_serv_write.F90

Doc:*Remove obsolete routines.***Project:**

aladin,arpege,auxiliaire,surfex

ClearCase branch:

marp003_CY37_remove

Deleted:

ald/control	espch.F90	espchad.F90	
ald/dia	ewrimova.F90		
ald/setup	esuephypo.F90	suebicu.F90	suesc2.F90
	suespe0.F90		
ald/transform	esperee_der.F90	espuv.F90	
arp/adiab	gpgrvcmus.F90	gpgrvcrs.F90	gptenc.F90
arp/ald_inc/namelist	nembicu.h	nemspcpl.h	
arp/control	cmac.F90	cmacad.F90	cmactl.F90
	spch.F90	spchad.F90	
arp/dfi	copgfl.F90	corgfl.F90	dfi1.F90

arp/dia	redate.F90 spnormbl.F90 wrdistio.F90 wrgridall.F90 wrimova.F90 wrspeca_compress_mt.F90	wmcum.F90 wrfu_mod.F90 wrgridua_mod.F90 wrmlppl.F90 wrxfu_mod.F90	wmovieh.F90 wrgrida_mod.F90 wrimoph.F90 wrspeca_compress.F90
arp/fullpos	sufpdim.F90		
arp/module	yembicu.F90 yemspbc.F90 yommpextra.F90	yemct3.F90 yemspcpl.F90	yemgt3b.F90 yomdimt.F90
arp/nmi	vtranm.F90	vtranmad.F90	
arp/parallel	arordgp_surf.F90 diwrgridunscramble.F90	arowrgp_surf.F90 phcset.F90	diwrgridalltoall.F90
arp/phys_dmn	acuptq.F90	raddiag15.F90	surf_ideal_flux.F90
arp/setup	cpledna35.F90 sualmp0.F90 sugawa35.F90 sumpextra.F90	gawla35.F90 sucma.F90 sugem.F90 sumpiohx.F90	su0dminit.F90 sucuconv_ca.F90 sulunio_serv.F90
arp/transform	speree_der.F90		
arp/utility	allgather_ctlvec_ifsaux.F90 posname.F90 wrgp2fa_compress.F90	copygom5t0.F90 spareordx.F90 wrgp2fa_compress_mt.F90	espareordx.F90 spreordx.F90
arp/var	jccomp.F90		
mpa/chem/internals	data_aersr.F	data_blkiso.F	data_expon.F
mpa/micro/externals	aroend_budget.f90		
surfex/new	interpol_sbl.F90		
xrd/fa	facom1.h	famodu.F	
xrd/utilities	ifc_smax.F	ifc_smin.F	

Doc:

Remove (temporary?) "LNOEXTZ" contribution from Mariano Hortal.

Project:

aladin,arpege,transformées aladin,transformées arpege

ClearCase branch:

marp003_CY37_remove_LNOEXTZ

Deleted:

ald/module	yem_phys_grid.F90	yemcoaphy.F90
ald/setup	esuephypo.F90	
ald/transform	euvspe.F90	
arp/dia	wrgpa.F90	
tal/interface	extper.h	
tal/module	extper_mod.F90	

Modified:

ald/adiab	elarmes.F90		
ald/c9xx	ebicli.F90	eincli1.F90	eincli10.F90
	eincli2.F90	eincli3.F90	eincli4.F90
	eincli5.F90	eincli6.F90	eincli7.F90
	eincli8.F90	eincli9.F90	einclib.F90
	einclir.F90	einter0.F90	eleci.F90
ald/fullpos	fpezzone.F90	sufpezo.F90	
ald/module	yem_phys_grid.F90	yemcoaphy.F90	
ald/setup	elsirf.F90	esuephypo.F90	suebig.F90
	suegeo1.F90	suegeo2.F90	suemp.F90
	suetrans.F90	suezone.F90	
ald/transform	euvspe.F90		
ald/utility	cchien.F90		
arp/adiab	call_sl.F90		
arp/c9xx	incli0.F90	inipz.F90	relnew.F90
arp/canari	casmswi.F90		
arp/control	cnt3.F90	cnt4.F90	gp_model.F90
	gp_model_ad.F90	gp_model_tl.F90	scan2m.F90
	scan2mad.F90	scan2mtl.F90	
arp/dia	wrgpa.F90	wrmlppa.F90	
arp/fullpos	openfpfa.F90	sufpg1.F90	sufpsc2.F90
	sufpwide.F90	suprocfp_dep.F90	wrsfp.F90
arp/module	yomdim.F90		
arp/namelist	namdim.h		
arp/obs_preproc	mkglobstab.F90		

arp/op_obs	slint.F90		
arp/parallel	phcset.F90	slcset.F90	slrset.F90
arp/setup	suallo.F90	sualmp1.F90	sudim1.F90
	sudim2.F90	sueframe.F90	sugrida.F90
	sugridspa.F90	susc2b.F90	
arp/utility	openfa.F90		
arp/var	rdfpinc.F90	suvazx.F90	
tal/external	egpnorm_trans.F90	esetup_trans.F90	etrans_inq.F90
tal/interface	esetup_trans.h	extper.h	
tal/module	easre1b_mod.F90	easre1bad_mod.F90	eftdir_ctl_mod.F90
	eftinvad_mod.F90	eltdir_mod.F90	eprfi2b_mod.F90
	eprfi2bad_mod.F90	extper_mod.F90	suefft_mod.F90
	suemp_trans_mod.F90	suemp_trans_preleg_mod.F90	suemplat_mod.F90
	suemplatb_mod.F90	suestaonl_mod.F90	tpmald_dim.F90
tfl/module	ftinvad_mod.F90	sumplatb_mod.F90	

Doc:

- 1) Change calls to SUCMA into calls to SUCMAF in ODB .
- 2) Remove (useless) JPLAY declaration from parrrtm.F90 .
- 3) Empty the content of obsolete routine phcset.F90 .

Project: arpege,odb
ClearCase branch: marp003_CY37_sucma

Modified:

arp/module	parrrtm.F90		
arp/parallel	phcset.F90		
arp/phys_ec	diag_dcycle.F90		
odb/cma2odb	init_common.F90	obsproc_init.F90	shuffle.F90

Doc:

- 1) Fix miscellaneous phasing bugs.
- 2) Fix INTENT problems in surfex, discovered with g95 .

3) Replace calls to AROWRGP_SURF by calls to AROWRGP_SURF2 (write_surfx*_aro.F90).

4) In sumpioh.F90 , move allocation of IPROC after the block:

```
IF (.NOT.(PRESENT(KFLG).AND.PRESENT(KFLD).AND.PRESENT(KFLDOFF))) THEN
  CALL ABOR1('SUMPIOH: INCORRECT ARGUMENT SET')
ENDIF
```

and protect deallocation of IPROC .

5) The call of CPNUDG under LNUDG was done twice (mf_phys.F90).

6) Use surface temperature from boundaries as SST where it is sea ice, to obtain realistic T2m (HIRLAM).

7) Back return on HIRLAM's modifications.

Project: arpege
ClearCase branch: marp003_CY37_t1fix*

Modified:

ald/setup	suemp.F90		
arp/canari	caclsst.F90		
arp/dia	wrmlppa.F90		
arp/module	diwrgrid_mod.F90	yomsimpl.F90	
arp/phys_dmn	acmripp.F90	actkecoefk.F90	actkehmt.F90
	aplpar.F90	mf_phys.F90	suphmse.F90
arp/setup	su0phy.F90	su0yomb.F90	sudyn.F90
	sumpioh.F90	suxfu.F90	
arp/var	suvar.F90		
mse/internals	write_surfx1_aro.F90	write_surfx2_aro.F90	
odb/pandor/module	bator_init_mod.F90		
sat/programs	rttov_ascii2bin_scattcoef.F90		
surfex/isba/phys	vegetation_update.F90		
surfex/new	ecume_seaflux.F90	garden.F90	isba_albedo.F90
surfex/offlin	fill_id_ol.F90		
surfex/offlin/init	init_outfn_isban.F90		
surfex/offlin/io	read_surf_atm.F90	read_surf_lfi.F90	write_surf_lfi.F90

surfex/prep	prep_hor_snow_fields.F90	
surfex/sea/phys	coare30_seaflux.F90	coupling_seafluxn.F90
xrd/fa/mt	farine_mt.F	

Doc:

Set VERSION_MAJOR to 37 and VERSION_MINOR to 0.000 .

Project: odb
ClearCase branch: marp003_CY37_version_37

Modified:
odb/lib version.c

GERARD Elisabeth

Doc:

Activation of assimilation of AMSUA and AMSUB/HS local datas, received from some "Europe" stations and broadcast by EUMETSAT channel (RARS datas).

Project: black_list
ClearCase branch: mrpe605_CY37_ssmisF18_rars

Modified:
bla mf_blacklist.b

GUIDARD Vincent

Doc:

Implementation of possibility to have a planned realistic satellite picture (ISP) on the MSG disk, an computed with the "ubiquitaire" mode on the rest of the globe.

This mode is activable in namelist by setting the new key LISP_HYBRID to .TRUE. (block NAMMTS). This key cannot be the true at the same time as LUBIQUITAIRE (a test is made in sumts to stop the program in that case). When both key LUBIQUITAIRE and LISP_HYBRID are false, the result is the realistic ISP on the MSG disk and 0 anywhere else.

Project: arpege

ClearCase branch: mrpe710_CY37_ISPhybrid

Modified:

arp/module yommts.F90

arp/namelist nammts.h

arp/phys_dmn mts_phys.F90

arp/setup sumts.F90

Doc:

Fix some array allocations.

Project: arpege

ClearCase branch: mrpe710_CY37_bfRADTR

Modified:

arp/op_obs radtr.F90

Doc:

Use of new RTTOV coefficients for AIRS and IASI .

Project: satrad

ClearCase branch: mrpe710_CY37_rtcoefAirsiasi

Modified:

sat/rttov rttov_ec_tl.F90

GUILLAUME Frank

Doc:

Modifications allowing split of ODB base "radar" in many bases.

Project: odb

ClearCase branch: marp003_CY37_mrpa644_split_radar

Added:

odb/ddl.ECMA data_radar_station.sql

odb/ddl data_radar_station.sql

Deleted:

odb/ddl.CCMA numpool_radar.sql

odb/ddl.ECMA numpool_radar.sql

odb/ddl numpool_radar.sql

Modified:

odb/cma2odb copie_radsta.F90 ctxinitdb.F90

odb/ddl.ECMA ECMA.dep

odb/ddl data_radar_station.sql

Doc:

Fix for BATOR concerning writing of radar ODB databases.

Project: odb

ClearCase branch: mrpa644_CY37_bator_radar

Modified:

odb/pandor/module bator_ecriptions_mod.F90

Doc:

Adaptation of the context call of routine data decoding RADAR .

Project: odb

ClearCase branch: mrpa644_CY37_bf_radar

Modified:

odb/pandor/module bator_decodbufr_mod.F90

Doc:

Fix a potential bug: comparison of tables not in compliance in ControlBufrType() .

Project: odb

ClearCase branch: mrpa644_CY37_bugfix_ctrlcodage

Modified:

odb/pandor/module bator_decodbufr_mod.F90

Doc:

** Fix FCQODB task concerning processing of flags for SYNOP datas (use of column datum_event1 in ODB), and phasing of view for cycle CY37 .*

** Change format and use of entry file "LISTE_LOC" , with the aim to handle the producing sub-center for ATOVS datas . BATOR is still compatible with previous LISTE_LOC format .*

** Fix arrays overflows in BATOR .*

Project: odb

ClearCase branch: mrpa644_CY37_fr37_001

Modified:

odb/ddl fcq_robody_0.sql

odb/pandor/fcq	fcqodb_synop.F90		
odb/pandor/module	bator_decodbufr_mod.F90	bator_ecritures_mod.F90	bator_lectures_mod.F90
	bator_module.F90	bator_saisies_mod.F90	

Doc:

Management of timeslots in BATOR is now correct for all models.

Project: odb
ClearCase branch: mrpa644_CY37_timeslot

Modified:
odb/pandor/module bator_ecritures_mod.F90

HIRLAM Consortium

Doc:

All changes have been tested in cy36t1_bf.09 and works for all of the different physics configurations: ALADIN, ALARO, AROME where applicable

Tested configurations:

Climate generation (e923)

Forecast, with and without SURFEX

Canari

Screening

Minimization

4DVAR

PGD

OI_main

e927

e927 for surfex ini files

fullpos

TL/AD tests

The changes have been merged to the level of cy37_bf.01 and tested as far as possible. However, since cy37_bf.01 did not work properly even without the modifications for e.g. assimilation all the configuration mentioned above has not been tested. It is though verified that the mitraillette configuration AH5E, AH5T, AH4E, AH4T gives the same results with and without the HIRLAM modifications.

[Note: Changeset numbers give access to the actual change set at <https://hirlam.org/trac/changeset/nxxx>]

Sami Saarinen:

Cray X1E portability [6917]

xrd/module/oml_mod.F90

xrd/module/stack_mix.F90

xrd/support/get_opt.F

xrd/svipc/svipc.c

xrd/utilities/n_precision.c

odb/aux/history.c

odb/include/odb.h

odb/include/privpub.h

odb/include/alloc.h

odb/lib/wildcard.c

Deallocation and speed [8795]

mse/internals/fm_read.f90

mse/internals/old_ndim.f90

OpenMP bugfix [8202]

arp/obs_preproc/screen.F90

SAMIO [9040]

xrd/support/csamio.c, SAMIO

xrd/module/samio_mod.F90

xrd/support/opfla_perfmon.c

Serial mpi [8509, 8510]

odb/extras/mpi_serial/cmpi.c (new file)

odb/extras/mpi_serial/mpi_ibsend.F (new file)

odb/extras/mpi_serial/mpi_init_thread.F (new file)

odb/extras/mpi_serial/mpi_ssend.F (new file)

Dr Hook call fixes [8246, 8248]

arp/climate/cormass3b.F90

arp/op_obs/inv_refl1dstat.F90
arp/phys_dmn/hlaconds.F90
arp/phys_ec/aer_strfind.F90
arp/phys_ec/diag_dcycle.F90
bla/library/blackbox_init.F90
sur/external/surfexcdriver.F90
sur/module/sppgust_mod.F90
sur/module/srfsn_lwexp_mod.F90
sur/module/srfsn_rsn_mod.F90
sur/module/surfsebt1_ctl_mod.F90
sur/module/vupdz0sad_mod.F90
sat/emiss/land_ssmi.F90
sat/mwave/mwave_get_rtcoeff.F90
sat/rttov/rttov_eddington_ad.F90
sat/rtlimb/rtlimb_traceray_2d_ad.F90
sat/rttov/rttov_iniscatt_ad.F90
sat/rttov/rttov_iniscatt_tl.F90
sat/rttov/rttov_scatt_ad.F90
sat/rttov/rttov_scatt.F90
sat/rttov/rttov_scatt_tl.F90
odb/bufr2odb/bufr2odb_iasi.F90
odb/bufr2odb/odb2bufr_fos_110.F90
odb/tools/bufr_add_bias.F
odb/pandor/module/bator_decodgrib_mod.F90
odb/extras/emos/blokex.F

Ole Vignes

Reduce amount of duplicated output [8528]

xrd/lfi/lfieng.F

xrd/module/mpl_init_mod.F90

xrd/support/drhoock.c

Trygve Aspelien

Modifications to be able to run OI_main with ALARO. [8977]

surfex/aux/init_io_surf_fan.f90

Fix a bug in diwrgrid causing the IO processor to write out
the value for processor 1 when GATHERV was not used
which is the only way it is used in e.g. WRMLPPA [8167],[8169]

arp/parallel/diwrgrid.F90

arp/parallel/diwrgrid_surf_ext.F90

Mariken Homleid & Trygve Aspelien
Bug-fix for Beljaars SSO [8659]
surfex/isba/phys/sso_beljaars04.f90

Mariken Homleid: Surface assimilation updates [8878]

- * Read SST/LST directly in OI_main, instead of passing them through CANARI, in the case of no SST analysis.
- * Update SST and LST in separate routines that can be called from both OI_MAIN and VARASSIM.
- * Calculate T2m and RH2m increments in all grid points when running with SURFEX.
- * Update surface temperature, water and ice at all NATURE points based on these increments.
- * Use surface temperature from boundaries as SST where it is sea ice, to obtain realistic T2m.
- * Introduce monthly climatological snow density values (SCASNOW in HIRLAM) to scale observed snow depth to snow water equivalent.

arp/canari/caclsst.F90
arp/canari/cacsts.F90
arp/canari/calico.F90
arp/canari/canali.F90
mse/programs/oi_main.f90
surfex/isba/module/modd_assim.f90
surfex/offlin/assim/oi_cacsts.f90
surfex/offlin/assim/ini_assim.f90
surfex/offlin/assim/oi_lst_update.f90 (new file)
surfex/offlin/assim/oi_sst_update.f90 (new file)

Carl Fortelius
Correct assignment [8341]
surfex/pgd/hor_interpol_rotlatlon.f90

Wim de Rooy

1. namelist change, so that LMIXUV is TRUE for edmfem [8579]
2. bug corrections etc. e.g. on the way the updraft rain was used [8579]
3. aro_vdfhght called at kstep+1 instead of KSTEP [8579]
4. couple the edmfem scheme (CMF_UPDRAFT=DUAL) to the modification in the statistical cloud scheme in condensation.F90 [8579]
5. Make height dependent cloud variance optional; however, the default is to have this on in HARMONIE.

arp/module/yomparar.F90
arp/namelist/namparar.h
arp/phys_dmn/apl_arome.F90
arp/phys_dmn/suparar.F90
mpa/micro/externals/aro_adjust.f90
mpa/micro/interface/aro_adjust.h

mpa/micro/internals/condensation.f90
mpa/micro/internals/ice_adjust.f90
mpa/micro/module/modi_condensation.f90
mpa/micro/module/modi_ice_adjust.f90

*Correction for AROME EDMFM option to use relative height
above surface; Reset wu values after iteration; bug fix [9095]*
arp/phys_dmn/vdfhghthl.F90
arp/phys_dmn/vdfhgthnhtl.F90
arp/phys_dmn/vdfparcelhl.F90

Gergely Bologni
*General solution for calculation of background differences:
bdiff program for making forecast differences with
zero differences in ezone. [8768]*
ald/programs/bdiff.F90
ald/setup/suect0.F90
arp/ald_inc/namelist/nemct0.h
arp/module/yemct0.F90
arp/setup/suctrl_gflattr.F90

Magnus Lindskog
Allow for up to 9999 pools [8225,9097]
odb/tools/Bator.F90

Nils Gustafsson
LELAM bugfixes for JCDFI [9113]
arp/var/evjcdfi.F90
arp/var/suscal.F90

Ulf Andrae
Remove Return from main program [9122]
sat/programs/rttov_ascii2bin_scattcoef.F90

Add missing deallocation [8382,9136]
ald/control/espcm.F90
ald/utility/elalo2xy.F90

Fix uninitialized variable [8381]
odb/module/odbmp.F90

Project: aladin,arpege,black_list,Meso-NH surface,odb,satrad,surf,,transformées aladin,transformées
 arpege,auxiliaire,surfex
ClearCase branch: marp003_CY37_hirlam

Added:

ald/module	yem_phys_grid.F90	yemcoaphy.F90	
ald/programs	bdiff.F90		
ald/setup	esuephypo.F90	suebicu.F90	suesc2.F90
	suespe0.F90		
ald/transform	esperee_der.F90	espuv.F90	euvspe.F90
arp/dia	spnormbl.F90	wmcum.F90	wmovieh.F90
	wrgpa.F90	wrimoph.F90	wrimova.F90
	wrmlppl.F90		
arp/parallel	arordgp_surf.F90	arowrgp_surf.F90	phcset.F90
	phrset.F90		
odb/extras/mpi_serial	cmpi.c	mpi_ibsend.F	mpi_init_thread.F
	mpi_ssend.F		
surfex/offlin/assim	oi_hor_extrapol_surf.f90	oi_lst_update.f90	oi_sst_update.f90
tal/interface	extper.h		
tal/module	extper_mod.F90		

Modified:

ald/adiab	elarmes.F90		
ald/c9xx	ebicli.F90	eincli1.F90	eincli10.F90
	eincli2.F90	eincli3.F90	eincli4.F90
	eincli5.F90	eincli6.F90	eincli7.F90
	eincli8.F90	eincli9.F90	einclib.F90
	einclir.F90	einter0.F90	elec1.F90
ald/control	espcm.F90		
ald/fullpos	fpezzone.F90	sufpezo.F90	
ald/module	yem_phys_grid.F90	yemcoaphy.F90	
ald/setup	elsirf.F90	esuephypo.F90	suebig.F90
	suegeo1.F90	suegeo2.F90	suemp.F90
	suetrans.F90	suezone.F90	
ald/transform	euvspe.F90		

ald/utility	cchien.F90	elalo2xy.F90	
arp/adiab	call_sl.F90		
arp/c9xx	incli0.F90	inipz.F90	relnew.F90
	relspe.F90		
arp/canari	casmswi.F90		
arp/climate	cormass3b.F90		
arp/control	cnt3.F90	cnt4.F90	gp_model.F90
	gp_model_ad.F90	gp_model_tl.F90	scan2m.F90
	scan2mad.F90	scan2mtl.F90	
arp/dia	wrgpa.F90	wrmlppa.F90	
arp/fullpos	openfpfa.F90	sufpg1.F90	sufpsc2.F90
	sufpwide.F90	suprocfp_dep.F90	wrsfp.F90
arp/module	yomdim.F90		
arp/namelist	namdim.h		
arp/obs_preproc	mkglobstab.F90	screen.F90	
arp/op_obs	inv_refl1dstat.F90	slint.F90	
arp/parallel	diwrgrid.F90	diwrgrid_surf_ext.F90	phcset.F90
	slcset.F90	slrset.F90	
arp/phys_dmn	hlaconds.F90	vdfhghthl.F90	vdfhghtnhl.F90
	vdfparcelhl.F90		
arp/phys_ec	aer_strfind.F90	diag_dcycle.F90	
arp/setup	suallo.F90	sualmp1.F90	sudim1.F90
	sudim2.F90	sueframe.F90	sugrida.F90
	sugridspa.F90	susc2b.F90	
arp/utility	openfa.F90		
arp/var	evjcdfi.F90	rdfpinc.F90	suscal.F90
	suvazx.F90		
bla/library	blackbox_init.F90		
mse/internals	fm_read.F90	old_ndim.F90	
odb/aux	history.c		
odb/bufr2odb	bufr2odb_iasi.F90	odb2bufr_fos_110.F90	
odb/extras/emos	blokex.F		
odb/extras/mpi_serial	cmpi.c	mpi_ibsend.F	mpi_init_thread.F
	mpi_ssend.F		

odb/include	alloc.h	odb.h	privpub.h
odb/lib	wildcard.c		
odb/module	odbmp.F90		
odb/pandor/module	bator_decodgrib_mod.F90		
odb/tools	Bator.F90	bufr_add_bias.F	
sat/emiss	land_ssmi.F90		
sat/mwave	mwave_get_rtcoeff.F90		
sat/programs	rttov_ascii2bin_scattcoef.F90		
sat/rtlimb	rtlimb_traceray_2d_ad.F90		
sat/rttov	rttov_eddington_ad.F90	rttov_iniscatt_ad.F90	rttov_iniscatt_tl.F90
	rttov_scatt.F90	rttov_scatt_ad.F90	rttov_scatt_tl.F90
sur/external	surfexcdriver.F90		
sur/module	sppgust_mod.F90	srfnsn_lwexp_mod.F90	srfnsn_rsn_mod.F90
	surfsebt_l_ctl_mod.F90	vupdz0sad_mod.F90	
surfex/aux	init_io_surf_fan.F90		
surfex/isba/phys	sso_beljaars04.F90		
surfex/offlin/assim	ini_assim.F90		
surfex/pgd	hor_interpol_rotlatlon.F90		
tal/external	egpnorm_trans.F90	esetup_trans.F90	etrans_inq.F90
tal/interface	esetup_trans.h	extper.h	
tal/module	easre1b_mod.F90	easre1bad_mod.F90	eftdir_ctl_mod.F90
	eftinvad_mod.F90	eltdir_mod.F90	eprfi2b_mod.F90
	eprfi2bad_mod.F90	extper_mod.F90	suefft_mod.F90
	suemp_trans_mod.F90	suemp_trans_preleg_mod.F90	suemplat_mod.F90
	suemplatb_mod.F90	suestaonl_mod.F90	tpmald_dim.F90
tfl/module	ftinvad_mod.F90	sumplatb_mod.F90	
xrd/include	privpub.h		
xrd/module	mpl_init_mod.F90	oml_mod.F90	samio_mod.F90
	stack_mix.F90		
xrd/support	csamio.c	drhook.c	get_opt.F
	opfla_perfmon.c		
xrd/svipc	svipc.c		
xrd/utilities	n_precision.c		

Doc:

arp/dfi/dfi2.F90 (Trygve Aspelien):

If YQ%LGP is .FALSE., call DF13 without the last (optional) argument, because it is not an allocated array.

odb/pandor/module/bator_ecriptions_mod.F90 (Ulf Andrae):

Add _JPRB to constant floating point values to give them the correct kind; use the generic intrinsic function MAX instead of the specific AMAX1 .

surfex/offlin/io/write_surf_lfi.F90 (Ulf Andrae):

Correct missplaced and missing (DE)ALLOCATIONS.

Project: arpege,odb,
ClearCase branch: mrpe726_CY37_hl37

Modified:

arp/dfi dfi2.F90
odb/pandor/module bator_ecriptions_mod.F90
surfex/offlin/io write_surf_lfi.F90

LABADIE Carole**Doc:**

Changes for version n°03 of ARPEGE ensemble forecast: integration of new tropical singular vectors.

Project: utilitaires
ClearCase branch: mrmn269_CY36T1_combiPEARP3

Modified:

uti/combi combi.F90 combi_opti.F90 combi_pert.F90
combi_stat.F90

MARGUINAUD Philippe

Doc:

Fix allowing to run without SURFEX .

Project: arpege
ClearCase branch: mrpm609_CY37_mrpm609

Modified:

arp/setup su_surf_fds.F90

MOLL Patrick

Doc:

Modifications allowing to run 4D-VAR with cycle CY37 .

Project: arpege,odb,auxiliaire
ClearCase branch: marp003_CY37_mrpa646_debug4DVar

Modified:

arp/module	varbc_setup.F90		
arp/obs_preproc	defrun.F90	pre_thinner.F90	readoba.F90
	sortscatidx.F90		
arp/op_obs	hop.F90		
odb/ddl	cancer_roboddy.sql	pre_thinn_roboddy_9.sql	
odb/pandor/module	bator_decodbufr_mod.F90	bator_ecritures_mod.F90	
xrd/module	mpl_allgatherv_mod.F90	mpl_allreduce_mod.F90	mpl_alltoallv_mod.F90

mpl_broadcast_mod.F90
mpl_send_mod.F90

mpl_gatherv_mod.F90

mpl_rcv_mod.F90

Doc:

Bugfixes for 4DVAR .

Project: arpege

ClearCase branch: mrpa646_CY37_bug4Dvar37t1

Modified:

arp/adiab lascaw.F90

arp/dfi dfi2.F90

MONTMERLE Thibaut

Doc:

Remove useless variable LFIX105L .

Project: arpege

ClearCase branch: mrpa666_CY37_TM_bugfix

Modified:

arp/module yomjg.F90

arp/var subj.F90 subjcor.F90

PAYAN Christophe

Doc:

Decoding aeolus BEFR , still in development status (inactive).

Project: odb
ClearCase branch: mrpa642_CY37_aeo

Modified:

odb/cma2odb	getatdb.F90	putatdb.F90	
odb/pandor/module	bator_decodbufr_mod.F90	bator_ecritures_mod.F90	bator_impr_mod.F90
	bator_init_mod.F90	bator_module.F90	bator_saisies_mod.F90

Doc:

- 1) *Fix an array overflow in BATOR.*
- 2) *Miscellaneous cleanings.*

Project: odb
ClearCase branch: mrpa642_CY37_aeoclean

Modified:

odb/pandor/module	bator_ecritures_mod.F90	bator_init_mod.F90
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Doc:

Fix an array overflow.

Project: odb
ClearCase branch: mrpa642_CY37_bfbator

Modified:

odb/pandor/module bator_ecriptions_mod.F90

Doc:

In the case of surface emissivity correction on sea-ice for the AMSUB/MHS instruments, channels 1 and 2 presence is checked (otherwise an overflow may occur).

1) In hretr, in the case of surface emissivity correction on sea-ice for the AMSUB/MHS instruments, channels 1 and 2 presence is checked (otherwise an overflow may occur). Also LLQCATLAS cleaning, no longer used.

2) In scaqc, correct use of quality flag for KNMI wind product from scatterometer Oscat, and variables cleaning.

3) Additional cleanings in arp/obs_preproc/scaqc.F90, arp/obs_preproc/fgwnd.F90: local variables, and use module GOMS_MIX no longer used removed.

Project: arpege

ClearCase branch: mrpa642_CY37_hretrfix

Modified:

arp/obs_preproc fgwnd.F90 scaqc.F90

arp/op_obs hretr.F90

Doc:

1) GPSRO changes (TERRASAR-X, SAC-C no longer blacklisted in mf_blacklist.b, Metop-(B)1 handling) .

2) For winds data, type scatt, satob, now satid(Metop-B(1))=3, correction based on WMO codes manual .

Project: black_list

ClearCase branch: mrpa642_CY37_mfblackexpress

Modified:

bla mf_blacklist.b

Doc:

Add column tsfc in ODB, for model surface temperature.

Bugfixes.

Project: arpege,odb
ClearCase branch: mrpa642_CY37_odbts

Modified:

arp/common	yomdb_defs.h	yomdb_vars.h	
arp/obs_preproc	prech.F90		
odb/cma2odb	initmdb.F90		
odb/ddl	decis_robhdr_1.sql	decis_robhdr_2.sql	modsurf.h
	namecfg.h		

Doc:

- 1) Decoding and assimilation of OSCAT datas (Indian scatterometer).
- 2) Fix producer code (bator_decodbufr_mod.F90).
- 3) Update of status of observations Qscat/Oscat when flag from KNMI is set.

Bugfixes.

Project: arpege,black_list,odb
ClearCase branch: mrpa642_CY37_oscato

Modified:

arp/obs_preproc	scaqc.F90		
bla	mf_blacklist.b		
odb/pandor/module	bator_decodbufr_mod.F90	bator_init_mod.F90	

Doc:

- 1) Tuning of observation errors is now declined by obstype (variable SIGMAO_COEF becomes an array).
- 2) Array SIGMAO_COEF is initialized to 0.9 in defrun.F90 (under .NOT.LECMWF).

Project: arpege,odb
ClearCase branch: mrpa642_CY37_sigocoef

Modified:

arp/module	yomcosjo.F90		
arp/obs_preproc	defrun.F90	ers1if.F90	
arp/op_obs	gpsro_oberror.F90		
odb/pandor/module	bator_ecritures_mod.F90	bator_init_mod.F90	bator_module.F90

Doc:

Maximal number of wind solutions is now declined by codetype of SCATT datas.

Project: arpege
ClearCase branch: mrpa642_CY37_windarp

Modified:

arp/module	yomsccl.F90		
arp/obs_preproc	defrun.F90	scaqc.F90	

Doc:

- 1) *Information on columns likelihood, tracer_correlation, land_sea .*
- 2) *Fix "INBSLOT" from Frank Guillaume in bator_ecritures_mod.F90 .*

Project: arpege,odb
ClearCase branch: mrpa642_CY37_windplus

Modified:

arp/obs_preproc	sortscatidx.F90		
odb/pandor/module	bator_decodbufr_mod.F90	bator_ecritures_mod.F90	bator_init_mod.F90
odb/tools	Bator.F90		

RIVIERE Olivier

Doc:

Introduce in TL/AD of processes of autoconverting, collection, evaporation, and solid rain melting.

Project: arpege

ClearCase branch: mrpe601_CY37_collec_pour37t2_v2

Added:

arp/phys_dmn advprcsad.F90 advprcstl.F90

Modified:

arp/adiab	lascaw.F90		
arp/dfi	dfi2.F90		
arp/module	yomphy0.F90	yomsimphl.F90	
arp/namelist	namphy0.h	namsimphl.h	
arp/phys_dmn	acconvsad.F90	acconvstl.F90	aclsp.F90
	aclspad.F90	aclspstl.F90	acmicroad.F90
	acmicrotl.F90	advprcsad.F90	advprcstl.F90
	aplpar.F90	aplparsad.F90	aplparstl.F90
	mf_physad.F90	mf_phystl.F90	suphy0.F90
arp/setup	su0phy.F90	sutrajp.F90	
arp/var	rdphtrajtm.F90	wrphtrajtm.F90	

Doc:

Debugging of the so-called pseudotraj task that uses program BLEND. The namelist has changed accordingly to documentation on the LACE forum <http://www.rlace.eu/forum/viewtopic.php?f=60&t=227>, and a bug was introduced in cycle 37 (RPI not initialized in echien called by blend since new module for constant yomcst_ifsaux was introduced in echien). Changes have been validated on PC and NEC SX9.

Project: aladin

ClearCase branch: mrpe601_CY37_debug_blend

Modified:

ald/programs blend.F90

Doc:

Due to changes in iostream_mix in cy37, some initializations (now mandatory before reading grib files) were missing in LAM case. Now ini_istream is called in suemp.F90 like it is done for global case in sump.F90. This prevents crash in Aladin 3DVAR.

Project: aladin

ClearCase branch: mrpe601_CY37_debug_istream_lam

Modified:

ald/setup suemp.F90

Doc:

- 1) Changes in su0yomb.F90 for going through coupling .
- 2) Fix in ctxinitdb.F90 .
- 3) Changes in shuffle_odb.F90: bf + LIFS added to allow to run conversion from ECMA to ECMA outside the screening.

Project: arpege,odb

ClearCase branch: mrpe601_CY37_odb_et_su0yomb

Modified:

arp/setup su0yomb.F90

odb/cma2odb ctxinitdb.F90 shuffle_odb.F90

Doc:

Tuning of values of RHcri in simplified physics and correction of a bug in minimization with qv set as gridpoint variables.

Project: arpege

ClearCase branch: mrpe601_CY37_rattrapage_36t1op2

Modified:

arp/control	cva1.F90	
arp/module	yomsimphl.F90	
arp/namelist	namsimphl.h	
arp/setup	su0phy.F90	
arp/utility	add3to5.F90	add5to3.F90
arp/var	suallt.F90	

Doc:

Introduction of autoconversion and betts-miller convective scheme in TL/AD for simplified physics .

Project: arpege
ClearCase branch: mrpe601_CY37_suite_phys_simpl_valid

Added:

arp/phys_dmn	acconvsad.F90	acconvstl.F90	acmicroad.F90
	acmicrotl.F90	acnuages.F90	acnuagesad.F90
	acnuagestl.F90		

Modified:

arp/adiab	cpg.F90		
arp/module	yomsimphl.F90		
arp/namelist	namsimphl.h		
arp/phys_dmn	acconvsad.F90	acconvstl.F90	aclspstad.F90
	aclspstl.F90	acmicroad.F90	acmicrotl.F90
	acnebsmad.F90	acnebsmtl.F90	acnuages.F90
	acnuagesad.F90	acnuagestl.F90	aplpar.F90
	aplparsad.F90	aplparstl.F90	mf_physad.F90
	mf_phystl.F90		
arp/setup	su0phy.F90	sutrajp.F90	
arp/var	rdphtrajtm.F90	wrphtrajtm.F90	

SEITY Yann

Doc:

- 1) Phasing of latest benchmark developments done in CY36t1 by Ryad El Khatib and Philippe Marguinaud.
- 2) IO server, bugfixes, and optimisations elsewhere.

Project: arpege,Meso-NH surface,odb,satrad,auxiliaire
ClearCase branch: marp003_CY37_mrpm637_ratrap_raps_160311

Added:

arp/dia	wrdistio.F90	wrfu_mod.F90	wrgrida_mod.F90
	wrgridall.F90	wrgridua_mod.F90	wrspeca_compress.F90
	wrspeca_compress_mt.F90	wrxfu_mod.F90	
arp/io_serv	gio_serv_alloc_buf.F90	gio_serv_alloc_non_blocking_std.F90	gio_serv_close.F90
	gio_serv_compress.F90	gio_serv_compress_run.F90	gio_serv_flush.F90
	gio_serv_hdr_grok_size.F90	gio_serv_hdr_nanify.F90	gio_serv_log.F90
	gio_serv_open.F90	gio_serv_reclaim_buf_space.F90	gio_serv_recv.F90
	gio_serv_recv_cleanup.F90	gio_serv_recv_run.F90	gio_serv_recv_setup.F90
	gio_serv_send.F90	gio_serv_suiosctmpl.F90	gio_serv_sumpioh.F90
	gio_serv_terminate.F90	gio_serv_wrgp2fa_compress.F90	gio_serv_write.F90
	gio_serv_write_run.F90	gio_serv_wrspeca_compress.F90	gyomio_serv.F90
	gyomio_serv_cfield.F90	gyomio_serv_cfield_fifo.F90	gyomio_serv_compress.F90
	gyomio_serv_ffield.F90	gyomio_serv_ffield_fifo.F90	gyomio_serv_hdr.F90
	gyomio_serv_recv.F90	gyomio_serv_write.F90	io_serv_alloc_buf.F90
	io_serv_alloc_non_blocking_std.F90	io_serv_close.F90	io_serv_compress.F90
	io_serv_compress_run.F90	io_serv_flush.F90	io_serv_hdr_grok_size.F90
	io_serv_hdr_nanify.F90	io_serv_log.F90	io_serv_open.F90
	io_serv_reclaim_buf_space.F90	io_serv_recv.F90	io_serv_recv_cleanup.F90
	io_serv_recv_run.F90	io_serv_recv_setup.F90	io_serv_send.F90
	io_serv_suiosctmpl.F90	io_serv_sumpioh.F90	io_serv_terminate.F90
	io_serv_wrgp2fa_compress.F90	io_serv_write.F90	io_serv_write_run.F90
	io_serv_wrspeca_compress.F90	yomio_serv.F90	yomio_serv_cfield.F90
	yomio_serv_cfield_fifo.F90	yomio_serv_compress.F90	yomio_serv_ffield.F90
	yomio_serv_ffield_fifo.F90	yomio_serv_hdr.F90	yomio_serv_recv.F90

	yomio_serv_write.F90		
arp/module	yommpextra.F90		
arp/parallel	diwrgridalltoall.F90	diwrgridunscramble.F90	
arp/programs	io_serv.F90		
arp/setup	sulunio_serv.F90	sumpextra.F90	sumpiohx.F90
arp/utility	espareordx.F90	posname.F90	spareordx.F90
	spreordx.F90	wrgp2fa_compress.F90	wrgp2fa_compress_mt.F90
xrd/fa	fa_mod.F	mt	
xrd/fa/mt	fa_limits_mt.F	facade_mt.F	facadi_mt.F
	facage_mt.F	facdec_mt.F	facies_mt.F
	facile_mt.F	facine_mt.F	facoch_mt.F
	facodx_mt.F	facom_mt.h	facond_mt.F
	facsim_mt.F	factec_mt.F	factui_mt.F
	factum_mt.F	fadeci_mt.F	fadeco_mt.F
	fadecx_mt.F	fadies_mt.F	fagiot_mt.F
	fagote_mt.F	faicor_mt.F	faienc_mt.F
	faifla_mt.F	fainig_mt.F	fainoc_mt.F
	faipag_mt.F	faipar_mt.F	fairme_mt.F
	fairno_mt.F	fais2f_mt.F	faisan_mt.F
	faisc1_mt.F	faisc2_mt.F	faitou_mt.F
	faixla_mt.F	falais_mt.F	falimu_mt.F
	falsif_mt.F	famiso_mt.F	fandai_mt.F
	fandar_mt.F	fanerg_mt.F	fanfar_mt.F
	fanime_mt.F	fanion_mt.F	fanmsg_mt.F
	fanouv_mt.F	fanuca_mt.F	fanumu_mt.F
	fapula_mt.F	farcis_mt.F	faregi_mt.F
	faregu_mt.F	farflu_mt.F	farine_mt.F
	farpar_mt.F	fatale_mt.F	fatran_mt.F
	fautif_mt.F	faveur_mt.F	favori_mt.F
	faxion_mt.F		
xrd/fi_libc	fi_libc.c	fi_libc.h	
xrd/fi_pthread	fi_pthread.c	fi_pthread.h	fifo_body.h
	fifo_decl.h		
xrd/hack	groksize.c	paddrs.c	

xrd/lfi	lfimoe.F	mt	
xrd/lfi/mt	lfiafm_mt.F	lficap_mt.F	lficaq_mt.F
	lficas_mt.F	lficax_mt.F	lficfg_mt.F
	lfichi_mt.F	lficom_mt.h	lfidah_mt.F
	lfideb_mt.F	lfidst_mt.F	lfiecc_mt.F
	lfiecd_mt.F	lfiecr_mt.F	lfiecx_mt.F
	lfiedo_mt.F	lfiefr_mt.F	lfiems_mt.F
	lfieng_mt.F	lfierf_mt.F	lfifer_mt.F
	lfifmd_mt.F	lfifmp_mt.F	lfifra_mt.F
	lfiini_mt.F	lfiintecr_mt.F	lfiintlec_mt.F
	lfiist_mt.F	lfilaf_mt.F	lfilap_mt.F
	lfilas_mt.F	lfilcc_mt.F	lfildo_mt.F
	lfilec_mt.F	lfiled_mt.F	lfimoe_mt.F
	lfimst_mt.F	lfinaf_mt.F	lfineg_mt.F
	lfinfo_mt.F	lfinim_mt.F	lfinmg_mt.F
	lfinsg_mt.F	lfinum_mt.F	lfioef_mt.F
	lfioeg_mt.F	lfiofd_mt.F	lfiofm_mt.F
	lfiomf_mt.F	lfiomg_mt.F	lfiosf_mt.F
	lfiosg_mt.F	lfiouv_mt.F	lfipha_mt.F
	lfipim_mt.F	lfipos_mt.F	lfipxa_mt.F
	lfipxf_mt.F	lfirac_mt.F	lfiran_mt.F
	lfirec_mt.F	lfiree_mt.F	lfiren_mt.F
	lfisfm_mt.F	lfista_mt.F	lfisup_mt.F
	lfitam_mt.F	lfiver_mt.F	lfivid_mt.F
xrd/module	mpl_testsome_mod.F90		

Modified:

arp/dia	fpgpnorm.F90	inifaout.F90	wrdistio.F90
	wrfu.F90	wrfu_mod.F90	wrgrida.F90
	wrgrida_mod.F90	wrgridall.F90	wrgridua.F90
	wrgridua_mod.F90	wrmlppa.F90	wrspeca.F90
	wrspeca_compress.F90	wrspeca_compress_mt.F90	wrxfu.F90
	wrxfu_mod.F90		
arp/fullpos	ini3wrfp.F90	wrhfp.F90	

arp/io_serv	io_serv_alloc_buf.F90 io_serv_compress.F90 io_serv_hdr_grok_size.F90 io_serv_open.F90 io_serv_rcv_cleanup.F90 io_serv_send.F90 io_serv_terminate.F90 io_serv_write_run.F90 yomio_serv_cfield.F90 yomio_serv_ffield.F90 yomio_serv_rcv.F90	io_serv_alloc_non_blocking_std.F90 io_serv_compress_run.F90 io_serv_hdr_nanify.F90 io_serv_reclaim_buf_space.F90 io_serv_rcv_run.F90 io_serv_suiosctmpl.F90 io_serv_wrgp2fa_compress.F90 io_serv_wrspeca_compress.F90 yomio_serv_cfield_fifo.F90 yomio_serv_ffield_fifo.F90 yomio_serv_write.F90	io_serv_close.F90 io_serv_flush.F90 io_serv_log.F90 io_serv_rcv.F90 io_serv_rcv_setup.F90 io_serv_sumpioh.F90 io_serv_write.F90 yomio_serv.F90 yomio_serv_compress.F90 yomio_serv_hdr.F90
arp/module	diwrgrid_mod.F90 yomct0.F90 yommp.F90	parrtm.F90 yomjg.F90 yommpextra.F90	varbc_pred.F90 yomlun.F90 yomvar.F90
arp/namelist	nampar1.h	namvar.h	
arp/obs_preproc	readoba.F90		
arp/op_obs	hradp.F90 radtrtl.F90	hradpad.F90	hradptl.F90
arp/parallel	diwrgridalltoall.F90	diwrgridunscramble.F90	diwrspe0.F90
arp/prism	couplo4_endmpi.F90	couplo4_inimpi.F90	
arp/programs	io_serv.F90	master.F90	
arp/setup	su0yomb.F90 sulunio_serv.F90 sumpiohx.F90	sugrida.F90 sump0.F90 suspeca.F90	sulun.F90 sumpextra.F90
arp/utility	deallo.F90 posname.F90 wrgp2fa.F90	espareordx.F90 spareordx.F90 wrgp2fa_compress.F90	posnam.F90 spreordx.F90 wrgp2fa_compress_mt.F90
arp/var	sujb.F90 writeoba.F90	sujbcor.F90	suvar.F90
mse/module	modd_io_surf_aro.F90		
odb/aux	codb_netcdf.c		
odb/cma2odb	shuffle.F90	shuffle_odb.F90	
odb/interface	shuffle_odb.h		
odb/pandor/module	bator_decodbufr_mod.F90	bator_init_mod.F90	bator_module.F90

odb/pandor/namelist	bator_namelist.h		
odb/tools	Bator.F90		
sat/onedvar	onedvar_obsop_grad_rttov.F90	onedvar_obsop_rttov.F90	onedvar_obsop_tl_rttov.F90
xrd/fa	decf10.F	ellips.F	fa_limits.F
	fa_mod.F	facade.F	facadi.F
	facage.F	facdec.F	facies.F
	facile.F	facine.F	facoch.F
	facodx.F	facom2.h	facond.F
	facsim.F	factec.F	factui.F
	factum.F	fadeci.F	fadeco.F
	fadecx.F	fadies.F	fagiot.F
	fagote.F	faicor.F	faienc.F
	faifla.F	fainig.F	fainoc.F
	faipag.F	faipar.F	fairme.F
	fairno.F	fais2f.F	faisan.F
	faisc1.F	faisc2.F	faitou.F
	faixla.F	falais.F	falimu.F
	falsif.F	famiso.F	fandai.F
	fandar.F	fanerg.F	fanfar.F
	fanime.F	fanion.F	fanmsg.F
	fanouv.F	fanuca.F	fanumu.F
	fapula.F	farcis.F	faregi.F
	faregu.F	farflu.F	farine.F
	farpar.F	fatale.F	fatran.F
	fautif.F	faveur.F	favori.F
	faxion.F		
xrd/fa/mt	fa_limits_mt.F	facade_mt.F	facadi_mt.F
	facage_mt.F	facdec_mt.F	facies_mt.F
	facile_mt.F	facine_mt.F	facoch_mt.F
	facodx_mt.F	facom_mt.h	facond_mt.F
	facsim_mt.F	factec_mt.F	factui_mt.F
	factum_mt.F	fadeci_mt.F	fadeco_mt.F
	fadecx_mt.F	fadies_mt.F	fagiot_mt.F
	fagote_mt.F	faicor_mt.F	faienc_mt.F

	faifla_mt.F	fainig_mt.F	fainoc_mt.F
	faipag_mt.F	faipar_mt.F	fairme_mt.F
	fairno_mt.F	fais2f_mt.F	faisan_mt.F
	faisc1_mt.F	faisc2_mt.F	faitou_mt.F
	faixla_mt.F	falais_mt.F	falimu_mt.F
	falsif_mt.F	famiso_mt.F	fandai_mt.F
	fandar_mt.F	fanerg_mt.F	fanfar_mt.F
	fanime_mt.F	fanion_mt.F	fanmsg_mt.F
	fanouv_mt.F	fanuca_mt.F	fanumu_mt.F
	fapula_mt.F	farcis_mt.F	faregi_mt.F
	faregu_mt.F	farflu_mt.F	farine_mt.F
	farpar_mt.F	fatale_mt.F	fatran_mt.F
	fautif_mt.F	faveur_mt.F	favori_mt.F
	faxion_mt.F		
xrd/fi_libc	fi_libc.c	fi_libc.h	
xrd/fi_pthread	fi_pthread.c	fi_pthread.h	fifo_body.h
	fifo_decl.h		
xrd/hack	groksize.c	paddrs.c	
xrd/lfi	lfiafm.F	lficap.F	lficaq.F
	lficas.F	lficax.F	lficfg.F
	lfichi.F	lficom2.h	lfidah.F
	lfideb.F	lfidst.F	lfiecc.F
	lfiecd.F	lfiecr.F	lfiecx.F
	lfiedo.F	lfiefr.F	lfiems.F
	lfieng.F	lfierf.F	lfifer.F
	lfifmd.F	lfifmp.F	lfifra.F
	lfiini.F	lfiintecr.F	lfiintlec.F
	lfiist.F	lfilaf.F	lfilap.F
	lfilas.F	lfilcc.F	lfildo.F
	lfilec.F	lfiled.F	lfimod.F
	lfimoe.F	lfimst.F	lfinaf.F
	lfineg.F	lfinfo.F	lfinim.F
	lfinmg.F	lfinsg.F	lfinum.F
	lfioef.F	lfioeg.F	lfiofd.F

	lfiofm.F	lfiomf.F	lfiomg.F
	lfiosf.F	lfiosg.F	lfiouv.F
	lfipha.F	lfipim.F	lfipos.F
	lfipxa.F	lfipxf.F	lfirac.F
	lfiran.F	lfirec.F	lfiree.F
	lfiren.F	lfisfm.F	lfista.F
	lfisup.F	lfitam.F	lfiver.F
	lfivid.F		
xrd/lfi/mt	lfiafm_mt.F	lficap_mt.F	lficaq_mt.F
	lficas_mt.F	lficax_mt.F	lficfg_mt.F
	lfichi_mt.F	lficom_mt.h	lfidah_mt.F
	lfideb_mt.F	lfidst_mt.F	lfiecc_mt.F
	lfiecd_mt.F	lfiecr_mt.F	lfiecx_mt.F
	lfiedo_mt.F	lfiefr_mt.F	lfiems_mt.F
	lfieng_mt.F	lfierf_mt.F	lfifer_mt.F
	lfifmd_mt.F	lfifmp_mt.F	lfifra_mt.F
	lfiini_mt.F	lfiintecr_mt.F	lfiintlec_mt.F
	lfiist_mt.F	lfilaf_mt.F	lfilap_mt.F
	lfilas_mt.F	lfilcc_mt.F	lfildo_mt.F
	lfilec_mt.F	lfiled_mt.F	lfimoe_mt.F
	lfimst_mt.F	lfinaf_mt.F	lfineg_mt.F
	lfinfo_mt.F	lfinim_mt.F	lfinmg_mt.F
	lfinsg_mt.F	lfinum_mt.F	lfioef_mt.F
	lfioeg_mt.F	lfiofd_mt.F	lfiofm_mt.F
	lfiomf_mt.F	lfiomg_mt.F	lfiosf_mt.F
	lfiosg_mt.F	lfiouv_mt.F	lfipha_mt.F
	lfipim_mt.F	lfipos_mt.F	lfipxa_mt.F
	lfipxf_mt.F	lfirac_mt.F	lfiran_mt.F
	lfirec_mt.F	lfiree_mt.F	lfiren_mt.F
	lfisfm_mt.F	lfista_mt.F	lfisup_mt.F
	lfitam_mt.F	lfiver_mt.F	lfivid_mt.F
xrd/module	mpl_init_mod.F90	mpl_probe_mod.F90	mpl_send_mod.F90
	mpl_testsome_mod.F90		
xrd/programs	testfa.F	tstlfi.F	

Doc:

Optimized version of Surfex6 (called surfex6+).

Bugfixes and optimizations.

Project: Meso-NH surface,surfex
ClearCase branch: marp003_CY37_surfex_v6

Added:

mse/dummy	write_surfc0_ol.F90	write_surfl0_ol.F90	write_surfl1_ol.F90
	write_surfn0_ol.F90	write_surfn1_ol.F90	write_surft0_ol.F90
	write_surft1_ol.F90	write_surfx0_ol.F90	write_surfx1_ol.F90
	write_surfx1_time_ol.F90	write_surfx2_ol.F90	
mse/externals	.aro_ground_diag.F90.swp		
mse/interface	arordgp_surf2.intfb.h	arwrgp_surf2.intfb.h	close_prep_surfex_aro.h
	disgrid_surf_ext2.intfb.h	diwrgrid_surf_ext2.intfb.h	get_bufc0.h
	get_bufn0.h	get_bufn1.h	get_bufx0.h
	get_bufx1.h	put_bufc0.h	put_bufn0.h
	put_bufn1.h	put_bufx0.h	put_bufx1.h
mse/module	modd_frommpa.F90		
mse/new	arordgp_surf2.F90	arowrgp_surf2.F90	disgrid_surf_ext2.F90
	diwrgrid_surf_ext2.F90		
mse/programs	driver_off_omp.F90		
surfex/isba/phys	get_sso_stddevn.F90		
surfex/new	alloc_diag_teb_gardenn.F90	allocate_teb_garden.F90	average1_cti.F90
	average2_cti.F90	avg_albedo_emis_garden.F90	avg_urban_fluxes.F90
	build_emisstabn.F90	build_pronoslistn.F90	carbon_control.F90
	carbon_evol.F90	carbon_init.F90	carbon_litter.F90
	carbon_soil.F90	co2_teb_garden_initn.F90	coupling_icefluxn.F90
	coupling_seaflux_sbIn.F90	default_prep_teb_garden.F90	diag_cpl_esm_isba.F90
	diag_cpl_esm_sea.F90	diag_cpl_esm_water.F90	diag_surf_budgetc_sea.F90
	diag_surf_budgetc_water.F90	diag_teb_garden_initn.F90	ecume_flux.F90
	ecume_seaflux.F90	garden.F90	garden_properties.F90

gauss_index.F90
get_grid_dim_lonlatval.F90
get_near_mesher_lonlatval.F90
hydro_glacier.F90
init_isba_sbl.F90
interpol_quadra.F90
interpol_ts_water_mth.F90
latlon_gridtype_lonlatval.F90
modd_agri_gardenn.F90
modd_deepsoil_garden.F90
modd_get_mesh_index_lonlatval.F90
modd_prep_teb_garden.F90
modd_teb_gardenn.F90
modn_agri_garden.F90
modn_prep_garden_snow.F90
modn_prep_teb_garden.F90
modn_teb_gardenn.F90
pack_grid_lonlatval.F90
pgd_teb_garden_par.F90
prep_hor_teb_garden_field.F90
prep_teb_garden_buffer.F90
prep_teb_garden_grib.F90
put_rad_sean.F90
read_cover_garden.F90
read_direct_gauss.F90
read_ksnow_ntel.F90
read_nam_pgd_gauss_index.F90
read_namelist_prep_flaken.F90
read_namelist_prep_seafluxn.F90
read_namelist_prep_watfluxn.F90
read_namelists_garden.F90
read_namelists_io.F90
read_namelists_seafluxn.F90
read_namelists_surfn.F90

get_adj_mes_lonlatval.F90
get_mesh_dim_lonlatval.F90
get_sfxcpln.F90
ini_surf_csts.F90
init_teb_gardenn.F90
interpol_sbl.F90
isba_albedo.F90
latlonmask_lonlatval.F90
modd_assim_garden.F90
modd_diag_teb_gardenn.F90
modd_gr_biog_gardenn.F90
modd_snow_metamo.F90
mode_gauss_index.F90
modn_assim_garden.F90
modn_prep_isba_carbon.F90
modn_prep_teb_snow.F90
modn_write_cover_tex.F90
pgd_gauss_index.F90
pgd_topo_index.F90
prep_teb_garden.F90
prep_teb_garden_canopy.F90
prep_teb_garden_unif.F90
put_rad_watn.F90
read_default_surf_atm.F90
read_gridtype_lonlatval.F90
read_nam_gridtype_lonlatval.F90
read_nam_pgd_orography.F90
read_namelist_prep_gardenn.F90
read_namelist_prep_surfn.F90
read_namelists_dst.F90
read_namelists_gardenn.F90
read_namelists_isba.F90
read_namelists_slit.F90
read_namelists_tebn.F90

get_grid_coord_lonlatval.F90
get_mesh_index_lonlatval.F90
gregod.F90
init_from_data_grdn.F90
init_water_sbl.F90
interpol_sst_mth.F90
isba_properties.F90
modd_agri_garden.F90
modd_data_teb_gardenn.F90
modd_flood_par.F90
modd_point_overlay.F90
modd_teb_garden_canopyn.F90
mode_gridtype_lonlatval.F90
modn_deepsoil_garden.F90
modn_prep_isba_snow.F90
modn_soiltemp_arp.F90
nitro_carbon_decline.F90
pgd_teb_garden.F90
prep_flake_ascllv.F90
prep_teb_garden_ascllv.F90
prep_teb_garden_extern.F90
prep_ver_teb_garden.F90
put_sfxcpln.F90
read_default_teb_gardenn.F90
read_isba_conf.F90
read_nam_pgd_cover.F90
read_nam_write_cover_tex.F90
read_namelist_prep_isban.F90
read_namelist_prep_tebn.F90
read_namelists_flaken.F90
read_namelists_idealn.F90
read_namelists_isban.F90
read_namelists_surf.F90
read_namelists_watfluxn.F90

	read_pgd_cover_garden.F90	read_pgd_teb_garden_parn.F90	read_pgd_teb_gardenn.F90
	read_precipn.F90	read_prep_garden_snow.F90	read_prep_isba_carbon.F90
	read_prep_teb_garden_conf.F90	read_prep_teb_snow.F90	read_surf_atm_conf.F90
	read_teb_garden_canopyn.F90	read_teb_garden_conf.F90	read_teb_garden_confn.F90
	read_teb_gardenn.F90	rw_precipn.F90	snowcro.F90
	snowcroupgrid.F90	spinup_wood_biomass.F90	teb_garden.F90
	town_presence.F90	update_esm_isban.F90	update_esm_seafluxn.F90
	update_esm_surf_atmn.F90	update_esm_watfluxn.F90	update_rad_isban.F90
	update_rad_seawat.F90	vegt_to_patch_grid_grdn.F90	write_diag_pgd_grdnn.F90
	write_gridtype_lonlatval.F90	writesurf_precipn.F90	writesurf_teb_gardenn.F90
surfex/offlin	close_fileout_ol.F90	fill_id_ol.F90	get_date_ol.F90
	main_carb_spinup.F90	main_wood_spinup.F90	modd_read_namelist.F90
	oi_hor_extrapol_surf.F90	ol_find_file_read.F90	ol_find_file_write.F90
	openclose_filein_ol.F90	read_all_namelists.F90	
surfex/trip	get_lonlat_trip.F90	read_namelists_tripn.F90	

Renamed:

mse/dummy

close_file_mnh.f90 to mse/dummy/close_file_mnh.F90
default_grid_mnh.f90 to mse/dummy/default_grid_mnh.F90
default_schemes_mnh.f90 to mse/dummy/default_schemes_mnh.F90
detect_field_mnh.f90 to mse/dummy/detect_field_mnh.F90
fmlook_II.f90 to mse/dummy/fmlook_II.F90
fmwrit.f90 to mse/dummy/fmwrit.F90
les_mean_subgrid_3d.f90 to mse/dummy/les_mean_subgrid_3d.F90
les_mean_subgrid_surf.f90 to mse/dummy/les_mean_subgrid_surf.F90
mnhclose_aux_io_surf.f90 to mse/dummy/mnhclose_aux_io_surf.F90
mnhclose_namelist.f90 to mse/dummy/mnhclose_namelist.F90
mnhclose_write_cover_tex.f90 to mse/dummy/mnhclose_write_cover_tex.F90
mnhend_io_surf_n.f90 to mse/dummy/mnhend_io_surf_n.F90
mnhget_desfm_n.f90 to mse/dummy/mnhget_desfm_n.F90
mnhget_luout.f90 to mse/dummy/mnhget_luout.F90
mnhget_size_full_n.f90 to mse/dummy/mnhget_size_full_n.F90
mnhinit_io_surf_n.f90 to mse/dummy/mnhinit_io_surf_n.F90
mnhopen_aux_io_surf.f90 to mse/dummy/mnhopen_aux_io_surf.F90

mnhopen_namelist.f90 to mse/dummy/mnhopen_namelist.F90
mnhopen_write_cover_tex.f90 to mse/dummy/mnhopen_write_cover_tex.F90
open_file_mnh.f90 to mse/dummy/open_file_mnh.F90
pgd_grid_io_init_mnh.f90 to mse/dummy/pgd_grid_io_init_mnh.F90
read_surfc0_mnh.f90 to mse/dummy/read_surfc0_mnh.F90
read_surfl0_mnh.f90 to mse/dummy/read_surfl0_mnh.F90
read_surfl1_mnh.f90 to mse/dummy/read_surfl1_mnh.F90
read_surfn0_mnh.f90 to mse/dummy/read_surfn0_mnh.F90
read_surfn1_mnh.f90 to mse/dummy/read_surfn1_mnh.F90
read_surft0_mnh.f90 to mse/dummy/read_surft0_mnh.F90
read_surft1_mnh.f90 to mse/dummy/read_surft1_mnh.F90
read_surfx0_mnh.f90 to mse/dummy/read_surfx0_mnh.F90
read_surfx1_mnh.f90 to mse/dummy/read_surfx1_mnh.F90
read_surfx2_mnh.f90 to mse/dummy/read_surfx2_mnh.F90
second_mnh.f90 to mse/dummy/second_mnh.F90
write_surfc0_mnh.f90 to mse/dummy/write_surfc0_mnh.F90
write_surfl0_mnh.f90 to mse/dummy/write_surfl0_mnh.F90
write_surfl1_mnh.f90 to mse/dummy/write_surfl1_mnh.F90
write_surfn0_mnh.f90 to mse/dummy/write_surfn0_mnh.F90
write_surfn1_mnh.f90 to mse/dummy/write_surfn1_mnh.F90
write_surft0_mnh.f90 to mse/dummy/write_surft0_mnh.F90
write_surft1_mnh.f90 to mse/dummy/write_surft1_mnh.F90
write_surfx0_mnh.f90 to mse/dummy/write_surfx0_mnh.F90
write_surfx1_mnh.f90 to mse/dummy/write_surfx1_mnh.F90
write_surfx2_mnh.f90 to mse/dummy/write_surfx2_mnh.F90
aro_ground_diag.f90 to mse/externals/aro_ground_diag.F90
aro_ground_param.f90 to mse/externals/aro_ground_param.F90
aro_put_zs.f90 to mse/externals/aro_put_zs.F90
aro_surf_diag.f90 to mse/externals/aro_surf_diag.F90
aroini_surf.f90 to mse/externals/aroini_surf.F90
atm2sx_env.f90 to mse/externals/atm2sx_env.F90
atm2sx_field.f90 to mse/externals/atm2sx_field.F90
close_buffer_surfex.f90 to mse/externals/close_buffer_surfex.F90
close_prep_surfex_aro.f90 to mse/externals/close_prep_surfex_aro.F90

mse/externals

deallmse.f90 to mse/externals/deallmse.F90
get_bufc0.f90 to mse/externals/get_bufc0.F90
get_bufn0.f90 to mse/externals/get_bufn0.F90
get_bufn1.f90 to mse/externals/get_bufn1.F90
get_bufx0.f90 to mse/externals/get_bufx0.F90
get_bufx1.f90 to mse/externals/get_bufx1.F90
ini_prep_surfex_aro.f90 to mse/externals/ini_prep_surfex_aro.F90
prep_surf_aro.f90 to mse/externals/prep_surf_aro.F90
put_bufc0.f90 to mse/externals/put_bufc0.F90
put_bufn0.f90 to mse/externals/put_bufn0.F90
put_bufn1.f90 to mse/externals/put_bufn1.F90
put_bufx0.f90 to mse/externals/put_bufx0.F90
put_bufx1.f90 to mse/externals/put_bufx1.F90
suallmse.f90 to mse/externals/suallmse.F90
mse/internals
aroclose_aux_io_surf.f90 to mse/internals/aroclose_aux_io_surf.F90
aroclose_namelist.f90 to mse/internals/aroclose_namelist.F90
aroclose_write_cover_tex.f90 to mse/internals/aroclose_write_cover_tex.F90
aroend_io_surf_n.f90 to mse/internals/aroend_io_surf_n.F90
aroget_desfm_n.f90 to mse/internals/aroget_desfm_n.F90
aroget_luout.f90 to mse/internals/aroget_luout.F90
aroget_size_full_n.f90 to mse/internals/aroget_size_full_n.F90
aroinit_io_surf_n.f90 to mse/internals/aroinit_io_surf_n.F90
aropen_aux_io_surf.f90 to mse/internals/aropen_aux_io_surf.F90
aropen_namelist.f90 to mse/internals/aropen_namelist.F90
aropen_write_cover_tex.f90 to mse/internals/aropen_write_cover_tex.F90
detect_field_aro.f90 to mse/internals/detect_field_aro.F90
error_read.f90 to mse/internals/error_read.F90
error_read_surf_asc.f90 to mse/internals/error_read_surf_asc.F90
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error_write_surf_asc.f90 to mse/internals/error_write_surf_asc.F90
error_write_surf_txt.f90 to mse/internals/error_write_surf_txt.F90
fm_read.f90 to mse/internals/fm_read.F90
fm_writ.f90 to mse/internals/fm_writ.F90
fmattr.f90 to mse/internals/fmattr.F90

fmclos.f90 to mse/internals/fmclos.F90
fmfree.f90 to mse/internals/fmfree.F90
fminit.f90 to mse/internals/fminit.F90
fmlook.f90 to mse/internals/fmlook.F90
fmopen.f90 to mse/internals/fmopen.F90
fmreadc0.f90 to mse/internals/fmreadc0.F90
fmreadl0.f90 to mse/internals/fmreadl0.F90
fmreadl1.f90 to mse/internals/fmreadl1.F90
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fmwritt0.f90 to mse/internals/fmwritt0.F90
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fmwritx1.f90 to mse/internals/fmwritx1.F90
fmwritx2.f90 to mse/internals/fmwritx2.F90
fmwritx3.f90 to mse/internals/fmwritx3.F90
fmwritx4.f90 to mse/internals/fmwritx4.F90
fmwritx5.f90 to mse/internals/fmwritx5.F90
fmwritx6.f90 to mse/internals/fmwritx6.F90
ini_sun.f90 to mse/internals/ini_sun.F90

ini_sw_setup.f90 to mse/internals/ini_sw_setup.F90
old_ndim.f90 to mse/internals/old_ndim.F90
pack_1d_1d_from2d.f90 to mse/internals/pack_1d_1d_from2d.F90
pack_1d_1d_from3d.f90 to mse/internals/pack_1d_1d_from3d.F90
pack_1d_1d_from4d.f90 to mse/internals/pack_1d_1d_from4d.F90
pack_1d_1d_fromi2d.f90 to mse/internals/pack_1d_1d_fromi2d.F90
pack_2d_1d_from2d.f90 to mse/internals/pack_2d_1d_from2d.F90
pack_2d_1d_from3d.f90 to mse/internals/pack_2d_1d_from3d.F90
pack_2d_1d_from4d.f90 to mse/internals/pack_2d_1d_from4d.F90
pack_2d_1d_fromi2d.f90 to mse/internals/pack_2d_1d_fromi2d.F90
pack_2d_1d_froml2d.f90 to mse/internals/pack_2d_1d_froml2d.F90
read_in_lfi_x2.f90 to mse/internals/read_in_lfi_x2.F90
read_in_lfi_x3.f90 to mse/internals/read_in_lfi_x3.F90
read_surfc0_aro.f90 to mse/internals/read_surfc0_aro.F90
read_surfl0_aro.f90 to mse/internals/read_surfl0_aro.F90
read_surfl1_aro.f90 to mse/internals/read_surfl1_aro.F90
read_surfn0_aro.f90 to mse/internals/read_surfn0_aro.F90
read_surfn1_aro.f90 to mse/internals/read_surfn1_aro.F90
read_surft0_aro.f90 to mse/internals/read_surft0_aro.F90
read_surfx0_aro.f90 to mse/internals/read_surfx0_aro.F90
read_surfx1_aro.f90 to mse/internals/read_surfx1_aro.F90
read_surfx2_aro.f90 to mse/internals/read_surfx2_aro.F90
unpack_1d_1d_from2d.f90 to mse/internals/unpack_1d_1d_from2d.F90
unpack_1d_1d_from3d.f90 to mse/internals/unpack_1d_1d_from3d.F90
unpack_1d_1d_from4d.f90 to mse/internals/unpack_1d_1d_from4d.F90
unpack_1d_1d_fromi2d.f90 to mse/internals/unpack_1d_1d_fromi2d.F90
unpack_1d_2d_from2d.f90 to mse/internals/unpack_1d_2d_from2d.F90
unpack_1d_2d_from3d.f90 to mse/internals/unpack_1d_2d_from3d.F90
unpack_1d_2d_from4d.f90 to mse/internals/unpack_1d_2d_from4d.F90
unpack_1d_2d_fromi2d.f90 to mse/internals/unpack_1d_2d_fromi2d.F90
write_in_lfi_x1.f90 to mse/internals/write_in_lfi_x1.F90
write_in_lfi_x2.f90 to mse/internals/write_in_lfi_x2.F90
write_in_lfi_x3.f90 to mse/internals/write_in_lfi_x3.F90
write_surfc0_aro.f90 to mse/internals/write_surfc0_aro.F90

write_surfl0_aro.f90 to mse/internals/write_surfl0_aro.F90
write_surfl1_aro.f90 to mse/internals/write_surfl1_aro.F90
write_surfn0_aro.f90 to mse/internals/write_surfn0_aro.F90
write_surfn1_aro.f90 to mse/internals/write_surfn1_aro.F90
write_surft0_aro.f90 to mse/internals/write_surft0_aro.F90
write_surfx0_aro.f90 to mse/internals/write_surfx0_aro.F90
write_surfx1_aro.f90 to mse/internals/write_surfx1_aro.F90
write_surfx2_aro.f90 to mse/internals/write_surfx2_aro.F90
mse/module
modd_aro_ini_surf.f90 to mse/module/modd_aro_ini_surf.F90
modd_bufc0.f90 to mse/module/modd_bufc0.F90
modd_bufn0.f90 to mse/module/modd_bufn0.F90
modd_bufn1.f90 to mse/module/modd_bufn1.F90
modd_bufx0.f90 to mse/module/modd_bufx0.F90
modd_bufx1.f90 to mse/module/modd_bufx1.F90
modd_fmdeclar.f90 to mse/module/modd_fmdeclar.F90
modd_fmmulti.f90 to mse/module/modd_fmmulti.F90
modd_io_nam.f90 to mse/module/modd_io_nam.F90
modd_io_surf_aro.f90 to mse/module/modd_io_surf_aro.F90
modi_aroget_size_full_n.f90 to mse/module/modi_aroget_size_full_n.F90
modi_aroopen_aux_io_surf.f90 to mse/module/modi_aroopen_aux_io_surf.F90
modi_fmread.f90 to mse/module/modi_fmread.F90
modi_fm writ.f90 to mse/module/modi_fm writ.F90
modi_ini_sun_aro.f90 to mse/module/modi_ini_sun_aro.F90
modi_ini_sw_setup.f90 to mse/module/modi_ini_sw_setup.F90
modi_pack_1d_1d.f90 to mse/module/modi_pack_1d_1d.F90
modi_pack_2d_1d.f90 to mse/module/modi_pack_2d_1d.F90
modi_unpack_1d_1d.f90 to mse/module/modi_unpack_1d_1d.F90
modi_unpack_1d_2d.f90 to mse/module/modi_unpack_1d_2d.F90
mse/programs
oi_main.f90 to mse/programs/oi_main.F90
pgd.f90 to mse/programs/pgd.F90
prep.f90 to mse/programs/prep.F90
sxpost.f90 to mse/programs/sxpost.F90
surfex/aux
abor1_sfx.f90 to surfex/aux/abor1_sfx.F90
close_aux_io_surf.f90 to surfex/aux/close_aux_io_surf.F90

close_aux_io_surf_asc.f90 to surfex/aux/close_aux_io_surf_asc.F90
close_aux_io_surf_fa.f90 to surfex/aux/close_aux_io_surf_fa.F90
close_file.f90 to surfex/aux/close_file.F90
close_file_asc.f90 to surfex/aux/close_file_asc.F90
close_file_fa.f90 to surfex/aux/close_file_fa.F90
close_namelist.f90 to surfex/aux/close_namelist.F90
close_namelist_asc.f90 to surfex/aux/close_namelist_asc.F90
close_namelist_fa.f90 to surfex/aux/close_namelist_fa.F90
dealloc_ideal_flux.f90 to surfex/aux/dealloc_ideal_flux.F90
dealloc_sean.f90 to surfex/aux/dealloc_sean.F90
end_io_surf_ascn.f90 to surfex/aux/end_io_surf_ascn.F90
end_io_surf_fan.f90 to surfex/aux/end_io_surf_fan.F90
end_io_surfn.f90 to surfex/aux/end_io_surfn.F90
get_1d_mask.f90 to surfex/aux/get_1d_mask.F90
get_aosn.f90 to surfex/aux/get_aosn.F90
get_coordn.f90 to surfex/aux/get_coordn.F90
get_default_namn.f90 to surfex/aux/get_default_namn.F90
get_dim_fulln.f90 to surfex/aux/get_dim_fulln.F90
get_fluxn.f90 to surfex/aux/get_fluxn.F90
get_fracn.f90 to surfex/aux/get_fracn.F90
get_lonlatn.f90 to surfex/aux/get_lonlatn.F90
get_luout.f90 to surfex/aux/get_luout.F90
get_size_fulln.f90 to surfex/aux/get_size_fulln.F90
get_sson.f90 to surfex/aux/get_sson.F90
get_surf_grid_dimn.f90 to surfex/aux/get_surf_grid_dimn.F90
get_surf_maskn.f90 to surfex/aux/get_surf_maskn.F90
get_surf_sizen.f90 to surfex/aux/get_surf_sizen.F90
get_surf_undef.f90 to surfex/aux/get_surf_undef.F90
get_surf_varn.f90 to surfex/aux/get_surf_varn.F90
get_type_dimn.f90 to surfex/aux/get_type_dimn.F90
get_z0n.f90 to surfex/aux/get_z0n.F90
get_zsn.f90 to surfex/aux/get_zsn.F90
init_io_surf_ascn.f90 to surfex/aux/init_io_surf_ascn.F90
init_io_surf_fan.f90 to surfex/aux/init_io_surf_fan.F90

init_io_surfn.f90 to surfex/aux/init_io_surfn.F90
io_buff_cleann.f90 to surfex/aux/io_buff_cleann.F90
io_buffn.f90 to surfex/aux/io_buffn.F90
modd_io_buffn.f90 to surfex/aux/modd_io_buffn.F90
modd_io_surf_asc.f90 to surfex/aux/modd_io_surf_asc.F90
modd_io_surf_fa.f90 to surfex/aux/modd_io_surf_fa.F90
modd_timing.f90 to surfex/aux/modd_timing.F90
open_aux_io_surf.f90 to surfex/aux/open_aux_io_surf.F90
open_aux_io_surf_asc.f90 to surfex/aux/open_aux_io_surf_asc.F90
open_aux_io_surf_fa.f90 to surfex/aux/open_aux_io_surf_fa.F90
open_file.f90 to surfex/aux/open_file.F90
open_file_asc.f90 to surfex/aux/open_file_asc.F90
open_file_fa.f90 to surfex/aux/open_file_fa.F90
open_namelist.f90 to surfex/aux/open_namelist.F90
open_namelist_asc.f90 to surfex/aux/open_namelist_asc.F90
open_namelist_fa.f90 to surfex/aux/open_namelist_fa.F90
read_ascllv.f90 to surfex/aux/read_ascllv.F90
read_binllv.f90 to surfex/aux/read_binllv.F90
read_binllvfast.f90 to surfex/aux/read_binllvfast.F90
read_buffer.f90 to surfex/aux/read_buffer.F90
read_direct.f90 to surfex/aux/read_direct.F90
read_dummyn.f90 to surfex/aux/read_dummyn.F90
read_eco2_irrig.f90 to surfex/aux/read_eco2_irrig.F90
read_grib.f90 to surfex/aux/read_grib.F90
read_grid.f90 to surfex/aux/read_grid.F90
read_lclim_lai.f90 to surfex/aux/read_lclim_lai.F90
read_lecoclimap.f90 to surfex/aux/read_lecoclimap.F90
read_netcdf.f90 to surfex/aux/read_netcdf.F90
read_pre_surfa_dat_conf.f90 to surfex/aux/read_pre_surfa_dat_conf.F90
read_sson.f90 to surfex/aux/read_sson.F90
read_surf.f90 to surfex/aux/read_surf.F90
read_surf_asc.f90 to surfex/aux/read_surf_asc.F90
read_surf_atm_conf.f90 to surfex/aux/read_surf_atm_conf.F90
read_surf_atm_date.f90 to surfex/aux/read_surf_atm_date.F90

read_surf_fa.f90 to surfex/aux/read_surf_fa.F90
readhead.f90 to surfex/aux/readhead.F90
readwrite_emis_fieldn.f90 to surfex/aux/readwrite_emis_fieldn.F90
second_sfx.f90 to surfex/aux/second_sfx.F90
surf_version.f90 to surfex/aux/surf_version.F90
write_header_fa.f90 to surfex/aux/write_header_fa.F90
write_surf.f90 to surfex/aux/write_surf.F90
write_surf_asc.f90 to surfex/aux/write_surf_asc.F90
write_surf_fa.f90 to surfex/aux/write_surf_fa.F90

surfex/canopy
canopy_evolution.f90 to surfex/canopy/canopy_evolution.F90
canopy_evolution_temp.f90 to surfex/canopy/canopy_evolution_temp.F90
canopy_evolution_tke.f90 to surfex/canopy/canopy_evolution_tke.F90
canopy_evolution_wind.f90 to surfex/canopy/canopy_evolution_wind.F90
canopy_grid.f90 to surfex/canopy/canopy_grid.F90
canopy_grid_update.f90 to surfex/canopy/canopy_grid_update.F90
modd_canopy_turb.f90 to surfex/canopy/modd_canopy_turb.F90
mode_sbils.f90 to surfex/canopy/mode_sbils.F90

surfex/flake/init
default_prep_flake.f90 to surfex/flake/init/default_prep_flake.F90
init_flaken.f90 to surfex/flake/init/init_flaken.F90
modd_prep_flake.f90 to surfex/flake/init/modd_prep_flake.F90
modn_prep_flake.f90 to surfex/flake/init/modn_prep_flake.F90
pgd_flake.f90 to surfex/flake/init/pgd_flake.F90
prep_ctrl_flake.f90 to surfex/flake/init/prep_ctrl_flake.F90
prep_flake.f90 to surfex/flake/init/prep_flake.F90
prep_flake_buffer.f90 to surfex/flake/init/prep_flake_buffer.F90
prep_flake_extern.f90 to surfex/flake/init/prep_flake_extern.F90
prep_flake_grib.f90 to surfex/flake/init/prep_flake_grib.F90
prep_flake_sbl.f90 to surfex/flake/init/prep_flake_sbl.F90
prep_flake_unif.f90 to surfex/flake/init/prep_flake_unif.F90
prep_hor_flake_field.f90 to surfex/flake/init/prep_hor_flake_field.F90
prep_ver_flake.f90 to surfex/flake/init/prep_ver_flake.F90
read_pgd_flaken.f90 to surfex/flake/init/read_pgd_flaken.F90
read_prep_flake_conf.f90 to surfex/flake/init/read_prep_flake_conf.F90
writesurf_pgd_flaken.f90 to surfex/flake/init/writesurf_pgd_flaken.F90

surfex/flake/module
modd_diag_flaken.f90 to surfex/flake/module/modd_diag_flaken.F90
modd_diag_misc_flaken.f90 to surfex/flake/module/modd_diag_misc_flaken.F90
modd_flake_gridn.f90 to surfex/flake/module/modd_flake_gridn.F90
modd_flake_sbIn.f90 to surfex/flake/module/modd_flake_sbIn.F90
modd_flaken.f90 to surfex/flake/module/modd_flaken.F90
modn_flaken.f90 to surfex/flake/module/modn_flaken.F90

surfex/flake/phys
SfcFlx.f90 to surfex/flake/phys/SfcFlx.F90
coupling_flake_orographyn.f90 to surfex/flake/phys/coupling_flake_orographyn.F90
coupling_flake_sbIn.f90 to surfex/flake/phys/coupling_flake_sbIn.F90
coupling_flaken.f90 to surfex/flake/phys/coupling_flaken.F90
dealloc_flaken.f90 to surfex/flake/phys/dealloc_flaken.F90
default_diag_flake.f90 to surfex/flake/phys/default_diag_flake.F90
default_flake.f90 to surfex/flake/phys/default_flake.F90
diag_flake_initn.f90 to surfex/flake/phys/diag_flake_initn.F90
diag_flaken.f90 to surfex/flake/phys/diag_flaken.F90
diag_inline_flaken.f90 to surfex/flake/phys/diag_inline_flaken.F90
diag_misc_flaken.f90 to surfex/flake/phys/diag_misc_flaken.F90
flake.f90 to surfex/flake/phys/flake.F90
flake_albedo_ref.f90 to surfex/flake/phys/flake_albedo_ref.F90
flake_configure.f90 to surfex/flake/phys/flake_configure.F90
flake_derivedtypes.f90 to surfex/flake/phys/flake_derivedtypes.F90
flake_interface.f90 to surfex/flake/phys/flake_interface.F90
flake_parameters.f90 to surfex/flake/phys/flake_parameters.F90
flake_paramoptic_ref.f90 to surfex/flake/phys/flake_paramoptic_ref.F90
goto_wrapper_flake.f90 to surfex/flake/phys/goto_wrapper_flake.F90
read_default_flaken.f90 to surfex/flake/phys/read_default_flaken.F90
read_flake_confn.f90 to surfex/flake/phys/read_flake_confn.F90
read_flake_date.f90 to surfex/flake/phys/read_flake_date.F90
read_flake_sbIn.f90 to surfex/flake/phys/read_flake_sbIn.F90
read_flaken.f90 to surfex/flake/phys/read_flaken.F90
read_pre_flake_dat_conf.f90 to surfex/flake/phys/read_pre_flake_dat_conf.F90
write_diag_flaken.f90 to surfex/flake/phys/write_diag_flaken.F90
write_diag_misc_flaken.f90 to surfex/flake/phys/write_diag_misc_flaken.F90
write_diag_seb_flaken.f90 to surfex/flake/phys/write_diag_seb_flaken.F90

write_flaken.f90 to surfex/flake/phys/write_flaken.F90
writsurf_flake_confn.f90 to surfex/flake/phys/writsurf_flake_confn.F90
writsurf_flake_sbln.f90 to surfex/flake/phys/writsurf_flake_sbln.F90
writsurf_flaken.f90 to surfex/flake/phys/writsurf_flaken.F90
surfex/ideal coupling_ideal_flux.f90 to surfex/ideal/coupling_ideal_flux.F90
coupling_tsz0n.f90 to surfex/ideal/coupling_tsz0n.F90
default_diag_ideal.f90 to surfex/ideal/default_diag_ideal.F90
diag_ideal_initn.f90 to surfex/ideal/diag_ideal_initn.F90
diag_idealn.f90 to surfex/ideal/diag_idealn.F90
goto_wrapper_ideal.f90 to surfex/ideal/goto_wrapper_ideal.F90
init_ideal_flux.f90 to surfex/ideal/init_ideal_flux.F90
modd_diag_idealn.f90 to surfex/ideal/modd_diag_idealn.F90
modd_ideal_flux.f90 to surfex/ideal/modd_ideal_flux.F90
modd_idealn.f90 to surfex/ideal/modd_idealn.F90
modn_idealn.f90 to surfex/ideal/modn_idealn.F90
read_default_idealn.f90 to surfex/ideal/read_default_idealn.F90
read_ideal_confn.f90 to surfex/ideal/read_ideal_confn.F90
read_ideal_flux_conf.f90 to surfex/ideal/read_ideal_flux_conf.F90
tsz0.f90 to surfex/ideal/tsz0.F90
surfex/isba/init ch_init_dep_isban.f90 to surfex/isba/init/ch_init_dep_isban.F90
co2_initn.f90 to surfex/isba/init/co2_initn.F90
cotwoinitn.f90 to surfex/isba/init/cotwoinitn.F90
default_prep_isba.f90 to surfex/isba/init/default_prep_isba.F90
diag_isba_initn.f90 to surfex/isba/init/diag_isba_initn.F90
dst_init_modes.f90 to surfex/isba/init/dst_init_modes.F90
dst_init_names.f90 to surfex/isba/init/dst_init_names.F90
ini_csts.f90 to surfex/isba/init/ini_csts.F90
ini_cturbs.f90 to surfex/isba/init/ini_cturbs.F90
init_dstn.f90 to surfex/isba/init/init_dstn.F90
init_from_data_isban.f90 to surfex/isba/init/init_from_data_isban.F90
init_isban.f90 to surfex/isba/init/init_isban.F90
init_naturen.f90 to surfex/isba/init/init_naturen.F90
init_snow_lw.f90 to surfex/isba/init/init_snow_lw.F90
init_top.f90 to surfex/isba/init/init_top.F90

pack_pgd_isba.f90 to surfex/isba/init/pack_pgd_isba.F90
pgd_isba.f90 to surfex/isba/init/pgd_isba.F90
pgd_isba_par.f90 to surfex/isba/init/pgd_isba_par.F90
pgd_nature.f90 to surfex/isba/init/pgd_nature.F90
prep_ctrl_isba.f90 to surfex/isba/init/prep_ctrl_isba.F90
prep_hor_isba_field.f90 to surfex/isba/init/prep_hor_isba_field.F90
prep_isba.f90 to surfex/isba/init/prep_isba.F90
prep_isba_ascllv.f90 to surfex/isba/init/prep_isba_ascllv.F90
prep_isba_buffer.f90 to surfex/isba/init/prep_isba_buffer.F90
prep_isba_canopy.f90 to surfex/isba/init/prep_isba_canopy.F90
prep_isba_extern.f90 to surfex/isba/init/prep_isba_extern.F90
prep_isba_grib.f90 to surfex/isba/init/prep_isba_grib.F90
prep_isba_unif.f90 to surfex/isba/init/prep_isba_unif.F90
prep_nature.f90 to surfex/isba/init/prep_nature.F90
prep_ver_isba.f90 to surfex/isba/init/prep_ver_isba.F90
read_nam_pgd_isba.f90 to surfex/isba/init/read_nam_pgd_isba.F90
read_pgd_isba_parn.f90 to surfex/isba/init/read_pgd_isba_parn.F90
read_pgd_isban.f90 to surfex/isba/init/read_pgd_isban.F90
read_prep_isba_conf.f90 to surfex/isba/init/read_prep_isba_conf.F90
read_prep_isba_date_conf.f90 to surfex/isba/init/read_prep_isba_date_conf.F90
read_prep_isba_snow.f90 to surfex/isba/init/read_prep_isba_snow.F90
write_diag_pgd_isban.f90 to surfex/isba/init/write_diag_pgd_isban.F90
writesurf_pgd_isba_parn.f90 to surfex/isba/init/writesurf_pgd_isba_parn.F90
writesurf_pgd_isban.f90 to surfex/isba/init/writesurf_pgd_isban.F90
interpol_sbl.f90 to surfex/isba/interpol_sbl.F90
modd_agri.f90 to surfex/isba/module/modd_agri.F90
modd_agrin.f90 to surfex/isba/module/modd_agrin.F90
modd_assim.f90 to surfex/isba/module/modd_assim.F90
modd_ch_isba.f90 to surfex/isba/module/modd_ch_isba.F90
modd_ch_isban.f90 to surfex/isba/module/modd_ch_isban.F90
modd_csts.f90 to surfex/isba/module/modd_csts.F90
modd_cturbs.f90 to surfex/isba/module/modd_cturbs.F90
modd_data_isban.f90 to surfex/isba/module/modd_data_isban.F90
modd_deepsoil.f90 to surfex/isba/module/modd_deepsoil.F90

surfex/isba

surfex/isba/module

modd_diag_evap_isban.f90 to surfex/isba/module/modd_diag_evap_isban.F90
modd_diag_isban.f90 to surfex/isba/module/modd_diag_isban.F90
modd_diag_misc_isban.f90 to surfex/isba/module/modd_diag_misc_isban.F90
modd_dst.f90 to surfex/isba/module/modd_dst.F90
modd_dst_surf.f90 to surfex/isba/module/modd_dst_surf.F90
modd_dstn.f90 to surfex/isba/module/modd_dstn.F90
modd_isba_canopyn.f90 to surfex/isba/module/modd_isba_canopyn.F90
modd_isba_gridn.f90 to surfex/isba/module/modd_isba_gridn.F90
modd_isba_par.f90 to surfex/isba/module/modd_isba_par.F90
modd_isban.f90 to surfex/isba/module/modd_isban.F90
modd_pack_ch_isba.f90 to surfex/isba/module/modd_pack_ch_isba.F90
modd_pack_diag_isba.f90 to surfex/isba/module/modd_pack_diag_isba.F90
modd_pack_isba.f90 to surfex/isba/module/modd_pack_isba.F90
modd_prep_isba.f90 to surfex/isba/module/modd_prep_isba.F90
modd_sgh_par.f90 to surfex/isba/module/modd_sgh_par.F90
modd_snow_par.f90 to surfex/isba/module/modd_snow_par.F90
modd_type_snow.f90 to surfex/isba/module/modd_type_snow.F90
modn_agri.f90 to surfex/isba/module/modn_agri.F90
modn_assim.f90 to surfex/isba/module/modn_assim.F90
modn_deepsoil.f90 to surfex/isba/module/modn_deepsoil.F90
modn_dst.f90 to surfex/isba/module/modn_dst.F90
modn_isban.f90 to surfex/isba/module/modn_isban.F90
modn_prep_isba.f90 to surfex/isba/module/modn_prep_isba.F90
surfex/isba/phys
albedo.f90 to surfex/isba/phys/albedo.F90
albedo_from_nir_vis.f90 to surfex/isba/phys/albedo_from_nir_vis.F90
albedo_ta96.f90 to surfex/isba/phys/albedo_ta96.F90
allocate_gr_snow.f90 to surfex/isba/phys/allocate_gr_snow.F90
average_diag_evap_isban.f90 to surfex/isba/phys/average_diag_evap_isban.F90
average_diag_isban.f90 to surfex/isba/phys/average_diag_isban.F90
average_diag_misc_isban.f90 to surfex/isba/phys/average_diag_misc_isban.F90
averaged_albedo_emis_isba.f90 to surfex/isba/phys/averaged_albedo_emis_isba.F90
ccetr.f90 to surfex/isba/phys/ccetr.F90
ch_dep_isba.f90 to surfex/isba/phys/ch_dep_isba.F90
cls_tq.f90 to surfex/isba/phys/cls_tq.F90

cls_wind.f90 to surfex/isba/phys/cls_wind.F90
convert_cover_ch_isba.f90 to surfex/isba/phys/convert_cover_ch_isba.F90
convert_cover_isba.f90 to surfex/isba/phys/convert_cover_isba.F90
cotwo.f90 to surfex/isba/phys/cotwo.F90
cotwores.f90 to surfex/isba/phys/cotwores.F90
cotworestress.f90 to surfex/isba/phys/cotworestress.F90
coupling_dstn.f90 to surfex/isba/phys/coupling_dstn.F90
coupling_isba_canopyn.f90 to surfex/isba/phys/coupling_isba_canopyn.F90
coupling_isba_orographyn.f90 to surfex/isba/phys/coupling_isba_orographyn.F90
coupling_isba_svatn.f90 to surfex/isba/phys/coupling_isba_svatn.F90
coupling_isban.f90 to surfex/isba/phys/coupling_isban.F90
dealloc_isban.f90 to surfex/isba/phys/dealloc_isban.F90
dealloc_naturen.f90 to surfex/isba/phys/dealloc_naturen.F90
deepsoil_update.f90 to surfex/isba/phys/deepsoil_update.F90
default_agri.f90 to surfex/isba/phys/default_agri.F90
default_assim.f90 to surfex/isba/phys/default_assim.F90
default_deepsoil.f90 to surfex/isba/phys/default_deepsoil.F90
default_diag_isba.f90 to surfex/isba/phys/default_diag_isba.F90
default_dstn.f90 to surfex/isba/phys/default_dstn.F90
default_isba.f90 to surfex/isba/phys/default_isba.F90
diag_evap_isban.f90 to surfex/isba/phys/diag_evap_isban.F90
diag_inline_isban.f90 to surfex/isba/phys/diag_inline_isban.F90
diag_isban.f90 to surfex/isba/phys/diag_isban.F90
diag_misc_isban.f90 to surfex/isba/phys/diag_misc_isban.F90
diag_naturen.f90 to surfex/isba/phys/diag_naturen.F90
diag_surf_budget_isba.f90 to surfex/isba/phys/diag_surf_budget_isba.F90
drag.f90 to surfex/isba/phys/drag.F90
dry_wet_soil_albedos.f90 to surfex/isba/phys/dry_wet_soil_albedos.F90
dst_dep.f90 to surfex/isba/phys/dst_dep.F90
dst_velgrav1d.f90 to surfex/isba/phys/dst_velgrav1d.F90
e_budget.f90 to surfex/isba/phys/e_budget.F90
emis_from_veg.f90 to surfex/isba/phys/emis_from_veg.F90
exp_decay_soil.f90 to surfex/isba/phys/exp_decay_soil.F90
gammas.f90 to surfex/isba/phys/gammas.F90

get_isba_confn.f90 to surfex/isba/phys/get_isba_confn.F90
get_var_naturen.f90 to surfex/isba/phys/get_var_naturen.F90
get_vegtype_2_patch_mask.f90 to surfex/isba/phys/get_vegtype_2_patch_mask.F90
goto_wrapper_isba.f90 to surfex/isba/phys/goto_wrapper_isba.F90
green_from_lai.f90 to surfex/isba/phys/green_from_lai.F90
heatcapz.f90 to surfex/isba/phys/heatcapz.F90
hydro.f90 to surfex/isba/phys/hydro.F90
hydro_dt92.f90 to surfex/isba/phys/hydro_dt92.F90
hydro_sgh.f90 to surfex/isba/phys/hydro_sgh.F90
hydro_snow.f90 to surfex/isba/phys/hydro_snow.F90
hydro_soil.f90 to surfex/isba/phys/hydro_soil.F90
hydro_soildif.f90 to surfex/isba/phys/hydro_soildif.F90
hydro_veg.f90 to surfex/isba/phys/hydro_veg.F90
ice_soildif.f90 to surfex/isba/phys/ice_soildif.F90
irrigation_update.f90 to surfex/isba/phys/irrigation_update.F90
isba.f90 to surfex/isba/phys/isba.F90
isba_canopy.f90 to surfex/isba/phys/isba_canopy.F90
isba_flood_properties.f90 to surfex/isba/phys/isba_flood_properties.F90
isba_flood_updaten.f90 to surfex/isba/phys/isba_flood_updaten.F90
isba_fluxes.f90 to surfex/isba/phys/isba_fluxes.F90
isba_sgh_update.f90 to surfex/isba/phys/isba_sgh_update.F90
isba_snow_agr.f90 to surfex/isba/phys/isba_snow_agr.F90
isba_snow_frac.f90 to surfex/isba/phys/isba_snow_frac.F90
laigain.f90 to surfex/isba/phys/laigain.F90
lailoss.f90 to surfex/isba/phys/lailoss.F90
mkflag_snow.f90 to surfex/isba/phys/mkflag_snow.F90
mode_dst_surf.f90 to surfex/isba/phys/mode_dst_surf.F90
mode_dstmbl.f90 to surfex/isba/phys/mode_dstmbl.F90
mode_dstmblutl.f90 to surfex/isba/phys/mode_dstmblutl.F90
mode_pos_surf.f90 to surfex/isba/phys/mode_pos_surf.F90
mode_snow3l.f90 to surfex/isba/phys/mode_snow3l.F90
mode_soil.f90 to surfex/isba/phys/mode_soil.F90
mode_surf_flood_frac.f90 to surfex/isba/phys/mode_surf_flood_frac.F90
mode_surf_snow_frac.f90 to surfex/isba/phys/mode_surf_snow_frac.F90

mode_thermos.f90 to surfex/isba/phys/mode_thermos.F90
nitro_decline.f90 to surfex/isba/phys/nitro_decline.F90
pack_ch_isba_patchn.f90 to surfex/isba/phys/pack_ch_isba_patchn.F90
pack_diag_patchn.f90 to surfex/isba/phys/pack_diag_patchn.F90
pack_isba_patchn.f90 to surfex/isba/phys/pack_isba_patchn.F90
param_cls.f90 to surfex/isba/phys/param_cls.F90
put_on_all_vegtypes.f90 to surfex/isba/phys/put_on_all_vegtypes.F90
put_zs_naturen.f90 to surfex/isba/phys/put_zs_naturen.F90
read_default_dstn.f90 to surfex/isba/phys/read_default_dstn.F90
read_default_isban.f90 to surfex/isba/phys/read_default_isban.F90
read_dst_confn.f90 to surfex/isba/phys/read_dst_confn.F90
read_gr_snow.f90 to surfex/isba/phys/read_gr_snow.F90
read_isba_canopyn.f90 to surfex/isba/phys/read_isba_canopyn.F90
read_isba_confn.f90 to surfex/isba/phys/read_isba_confn.F90
read_isba_date.f90 to surfex/isba/phys/read_isba_date.F90
read_isban.f90 to surfex/isba/phys/read_isban.F90
set_rough.f90 to surfex/isba/phys/set_rough.F90
snow3L_isba.f90 to surfex/isba/phys/snow3L_isba.F90
snow3l.f90 to surfex/isba/phys/snow3l.F90
snow_heat_to_t_wliq.f90 to surfex/isba/phys/snow_heat_to_t_wliq.F90
snow_t_wliq_to_heat.f90 to surfex/isba/phys/snow_t_wliq_to_heat.F90
soil.f90 to surfex/isba/phys/soil.F90
soil_albedo.f90 to surfex/isba/phys/soil_albedo.F90
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soildif.f90 to surfex/isba/phys/soildif.F90
soilgrid.f90 to surfex/isba/phys/soilgrid.F90
soilstress.f90 to surfex/isba/phys/soilstress.F90
soiltemp_arp_par.f90 to surfex/isba/phys/soiltemp_arp_par.F90
sso.f90 to surfex/isba/phys/sso.F90
sso_beljaars04.f90 to surfex/isba/phys/sso_beljaars04.F90
subscale_z0eff.f90 to surfex/isba/phys/subscale_z0eff.F90
sunpos.f90 to surfex/isba/phys/sunpos.F90
surf_patch.f90 to surfex/isba/phys/surf_patch.F90

surface_aero_cond.f90 to surfex/isba/phys/surface_aero_cond.F90
surface_cd.f90 to surfex/isba/phys/surface_cd.F90
surface_cdch_1darp.f90 to surfex/isba/phys/surface_cdch_1darp.F90
surface_ri.f90 to surfex/isba/phys/surface_ri.F90
thrmcondz.f90 to surfex/isba/phys/thrmcondz.F90
tridiag_ground.f90 to surfex/isba/phys/tridiag_ground.F90
tridiag_surf.f90 to surfex/isba/phys/tridiag_surf.F90
unpack_ch_isba_patchn.f90 to surfex/isba/phys/unpack_ch_isba_patchn.F90
unpack_diag_patchn.f90 to surfex/isba/phys/unpack_diag_patchn.F90
unpack_isba_patchn.f90 to surfex/isba/phys/unpack_isba_patchn.F90
veg.f90 to surfex/isba/phys/veg.F90
veg_from_lai.f90 to surfex/isba/phys/veg_from_lai.F90
vegetation_evol.f90 to surfex/isba/phys/vegetation_evol.F90
vegetation_update.f90 to surfex/isba/phys/vegetation_update.F90
vegtype_grid_to_patch_grid.f90 to surfex/isba/phys/vegtype_grid_to_patch_grid.F90
vegtype_to_patch.f90 to surfex/isba/phys/vegtype_to_patch.F90
wet_leaves_frac.f90 to surfex/isba/phys/wet_leaves_frac.F90
wind_threshold.f90 to surfex/isba/phys/wind_threshold.F90
write_cover_tex_isba.f90 to surfex/isba/phys/write_cover_tex_isba.F90
write_cover_tex_isba_par.f90 to surfex/isba/phys/write_cover_tex_isba_par.F90
write_diag_isban.f90 to surfex/isba/phys/write_diag_isban.F90
write_diag_misc_isban.f90 to surfex/isba/phys/write_diag_misc_isban.F90
write_diag_naturen.f90 to surfex/isba/phys/write_diag_naturen.F90
write_diag_seb_isban.f90 to surfex/isba/phys/write_diag_seb_isban.F90
write_dst_confn.f90 to surfex/isba/phys/write_dst_confn.F90
write_isban.f90 to surfex/isba/phys/write_isban.F90
write_naturen.f90 to surfex/isba/phys/write_naturen.F90
writesurf_gr_snow.f90 to surfex/isba/phys/writesurf_gr_snow.F90
writesurf_isba_canopyn.f90 to surfex/isba/phys/writesurf_isba_canopyn.F90
writesurf_isba_confn.f90 to surfex/isba/phys/writesurf_isba_confn.F90
writesurf_isban.f90 to surfex/isba/phys/writesurf_isban.F90
z0eff.f90 to surfex/isba/phys/z0eff.F90
z0v_from_lai.f90 to surfex/isba/phys/z0v_from_lai.F90
ini_assim.f90 to surfex/offlin/assim/ini_assim.F90

surfex/offlin/assim

oi_acsolw.f90 to surfex/offlin/assim/oi_acsolw.F90
oi_bc_soil_moisture.f90 to surfex/offlin/assim/oi_bc_soil_moisture.F90
oi_cacsts.f90 to surfex/offlin/assim/oi_cacsts.F90
oi_cavegi.f90 to surfex/offlin/assim/oi_cavegi.F90
oi_fctveg.f90 to surfex/offlin/assim/oi_fctveg.F90
oi_jacobians.f90 to surfex/offlin/assim/oi_jacobians.F90
oi_kalman_gain.f90 to surfex/offlin/assim/oi_kalman_gain.F90
oi_latlon_conf_proj.f90 to surfex/offlin/assim/oi_latlon_conf_proj.F90
oi_tsl.f90 to surfex/offlin/assim/oi_tsl.F90

surfex/offlin/init

trans_chaine.f90 to surfex/offlin/assim/trans_chaine.F90
init_coupling_surf_trip_n.f90 to surfex/offlin/init/init_coupling_surf_trip_n.F90
init_io_surf_binn.f90 to surfex/offlin/init/init_io_surf_binn.F90
init_io_surf_lfin.f90 to surfex/offlin/init/init_io_surf_lfin.F90
init_io_surf_oln.f90 to surfex/offlin/init/init_io_surf_oln.F90
init_io_surf_txtn.f90 to surfex/offlin/init/init_io_surf_txtn.F90
init_outfn_flaken.f90 to surfex/offlin/init/init_outfn_flaken.F90
init_outfn_isban.f90 to surfex/offlin/init/init_outfn_isban.F90
init_outfn_sean.f90 to surfex/offlin/init/init_outfn_sean.F90
init_outfn_surf_atmn.f90 to surfex/offlin/init/init_outfn_surf_atmn.F90
init_outfn_tebn.f90 to surfex/offlin/init/init_outfn_tebn.F90
init_outfn_watern.f90 to surfex/offlin/init/init_outfn_watern.F90
init_surf_tripn.f90 to surfex/offlin/init/init_surf_tripn.F90
init_write_bin.f90 to surfex/offlin/init/init_write_bin.F90
init_write_txt.f90 to surfex/offlin/init/init_write_txt.F90

surfex/offlin/io

close_aux_io_surf_lfi.f90 to surfex/offlin/io/close_aux_io_surf_lfi.F90
close_aux_io_surf_ol.f90 to surfex/offlin/io/close_aux_io_surf_ol.F90
close_file_lfi.f90 to surfex/offlin/io/close_file_lfi.F90
close_file_ol.f90 to surfex/offlin/io/close_file_ol.F90
close_namelist_lfi.f90 to surfex/offlin/io/close_namelist_lfi.F90
close_namelist_ol.f90 to surfex/offlin/io/close_namelist_ol.F90
close_write_cover_tex_lfi.f90 to surfex/offlin/io/close_write_cover_tex_lfi.F90
create_file.f90 to surfex/offlin/io/create_file.F90
def_var_netcdf.f90 to surfex/offlin/io/def_var_netcdf.F90
end_io_surf_lfin.f90 to surfex/offlin/io/end_io_surf_lfin.F90

end_io_surf_oln.f90 to surfex/offlin/io/end_io_surf_oln.F90
get_conf_isban.f90 to surfex/offlin/io/get_conf_isban.F90
get_dimlen_netcdf.f90 to surfex/offlin/io/get_dimlen_netcdf.F90
get_grid_conf_isban.f90 to surfex/offlin/io/get_grid_conf_isban.F90
get_offline_conf.f90 to surfex/offlin/io/get_offline_conf.F90
handle_err.f90 to surfex/offlin/io/handle_err.F90
lfiget_luout.f90 to surfex/offlin/io/lfiget_luout.F90
ol_read_atm.f90 to surfex/offlin/io/ol_read_atm.F90
ol_read_atm_ascii.f90 to surfex/offlin/io/ol_read_atm_ascii.F90
ol_read_atm_binary.f90 to surfex/offlin/io/ol_read_atm_binary.F90
ol_read_atm_conf.f90 to surfex/offlin/io/ol_read_atm_conf.F90
ol_read_atm_conf_ascii.f90 to surfex/offlin/io/ol_read_atm_conf_ascii.F90
ol_read_atm_conf_netcdf.f90 to surfex/offlin/io/ol_read_atm_conf_netcdf.F90
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open_aux_io_surf_lfi.f90 to surfex/offlin/io/open_aux_io_surf_lfi.F90
open_aux_io_surf_ol.f90 to surfex/offlin/io/open_aux_io_surf_ol.F90
open_close_bin_asc_forc.f90 to surfex/offlin/io/open_close_bin_asc_forc.F90
open_file_lfi.f90 to surfex/offlin/io/open_file_lfi.F90
open_file_ol.f90 to surfex/offlin/io/open_file_ol.F90
open_namelist_lfi.f90 to surfex/offlin/io/open_namelist_lfi.F90
open_namelist_ol.f90 to surfex/offlin/io/open_namelist_ol.F90
open_write_cover_tex_lfi.f90 to surfex/offlin/io/open_write_cover_tex_lfi.F90
read_surf_atm.f90 to surfex/offlin/io/read_surf_atm.F90
read_surf_lfi.f90 to surfex/offlin/io/read_surf_lfi.F90
read_surf_ol.f90 to surfex/offlin/io/read_surf_ol.F90
read_topo_sgh.f90 to surfex/offlin/io/read_topo_sgh.F90
write_header_mnh.f90 to surfex/offlin/io/write_header_mnh.F90
write_surf_bin.f90 to surfex/offlin/io/write_surf_bin.F90
write_surf_lfi.f90 to surfex/offlin/io/write_surf_lfi.F90
write_surf_ol.f90 to surfex/offlin/io/write_surf_ol.F90
write_surf_txt.f90 to surfex/offlin/io/write_surf_txt.F90
surfex/offlin/module
modd_io_surf_bin.f90 to surfex/offlin/module/modd_io_surf_bin.F90
modd_io_surf_lfi.f90 to surfex/offlin/module/modd_io_surf_lfi.F90
modd_io_surf_ol.f90 to surfex/offlin/module/modd_io_surf_ol.F90

modd_io_surf_txt.f90 to surfex/offlin/module/modd_io_surf_txt.F90
modd_ol_fileid.f90 to surfex/offlin/module/modd_ol_fileid.F90
modd_select.f90 to surfex/offlin/module/modd_select.F90
modd_write_bin.f90 to surfex/offlin/module/modd_write_bin.F90
modd_write_txt.f90 to surfex/offlin/module/modd_write_txt.F90
modn_io_offline.f90 to surfex/offlin/module/modn_io_offline.F90
modn_select.f90 to surfex/offlin/module/modn_select.F90
surfex/offlin/phys compare_orography.f90 to surfex/offlin/phys/compare_orography.F90
coupling_surf_tripn.f90 to surfex/offlin/phys/coupling_surf_tripn.F90
mode_coupling_var_isba_trip.f90 to surfex/offlin/phys/mode_coupling_var_isba_trip.F90
ncpost.f90 to surfex/offlin/phys/ncpost.F90
offline.f90 to surfex/offlin/phys/offline.F90
ol_alloc_atm.f90 to surfex/offlin/phys/ol_alloc_atm.F90
ol_time_interp_atm.f90 to surfex/offlin/phys/ol_time_interp_atm.F90
prep_coupling_surf_trip_n.f90 to surfex/offlin/phys/prep_coupling_surf_trip_n.F90
prep_surf_trip.f90 to surfex/offlin/phys/prep_surf_trip.F90
surfex/pgd arpege_stretch_a.f90 to surfex/pgd/arpege_stretch_a.F90
arrange_cover.f90 to surfex/pgd/arrange_cover.F90
av_pgd.f90 to surfex/pgd/av_pgd.F90
average1_cover.f90 to surfex/pgd/average1_cover.F90
average1_mesh.f90 to surfex/pgd/average1_mesh.F90
average1_orography.f90 to surfex/pgd/average1_orography.F90
average2_cover.f90 to surfex/pgd/average2_cover.F90
average2_mesh.f90 to surfex/pgd/average2_mesh.F90
average2_orography.f90 to surfex/pgd/average2_orography.F90
convert_cover.f90 to surfex/pgd/convert_cover.F90
convert_cover_frac.f90 to surfex/pgd/convert_cover_frac.F90
cover301_573.f90 to surfex/pgd/cover301_573.F90
data_parameters.f90 to surfex/pgd/data_parameters.F90
default_grid.f90 to surfex/pgd/default_grid.F90
default_schemes.f90 to surfex/pgd/default_schemes.F90
detect_field.f90 to surfex/pgd/detect_field.F90
ecoclimap2_lai.f90 to surfex/pgd/ecoclimap2_lai.F90
get_adj_mes_cart.f90 to surfex/pgd/get_adj_mes_cart.F90

get_adj_mes_conf_proj.f90 to surfex/pgd/get_adj_mes_conf_proj.F90
get_adj_mes_gauss.f90 to surfex/pgd/get_adj_mes_gauss.F90
get_adj_mes_ign.f90 to surfex/pgd/get_adj_mes_ign.F90
get_adj_mes_lonlat_reg.f90 to surfex/pgd/get_adj_mes_lonlat_reg.F90
get_adjacent_meshes.f90 to surfex/pgd/get_adjacent_meshes.F90
get_covern.f90 to surfex/pgd/get_covern.F90
get_grid_coord.f90 to surfex/pgd/get_grid_coord.F90
get_grid_coord_cartesian.f90 to surfex/pgd/get_grid_coord_cartesian.F90
get_grid_coord_conf_proj.f90 to surfex/pgd/get_grid_coord_conf_proj.F90
get_grid_coord_gauss.f90 to surfex/pgd/get_grid_coord_gauss.F90
get_grid_coord_ign.f90 to surfex/pgd/get_grid_coord_ign.F90
get_grid_coord_lonlat_reg.f90 to surfex/pgd/get_grid_coord_lonlat_reg.F90
get_grid_dim.f90 to surfex/pgd/get_grid_dim.F90
get_grid_dim_cartesian.f90 to surfex/pgd/get_grid_dim_cartesian.F90
get_grid_dim_conf_proj.f90 to surfex/pgd/get_grid_dim_conf_proj.F90
get_grid_dim_gauss.f90 to surfex/pgd/get_grid_dim_gauss.F90
get_grid_dim_lonlat_reg.f90 to surfex/pgd/get_grid_dim_lonlat_reg.F90
get_jcovern.f90 to surfex/pgd/get_jcovern.F90
get_latlonmaskn.f90 to surfex/pgd/get_latlonmaskn.F90
get_lcovern.f90 to surfex/pgd/get_lcovern.F90
get_mesh_dim.f90 to surfex/pgd/get_mesh_dim.F90
get_mesh_dim_cartesian.f90 to surfex/pgd/get_mesh_dim_cartesian.F90
get_mesh_dim_conf_proj.f90 to surfex/pgd/get_mesh_dim_conf_proj.F90
get_mesh_dim_gauss.f90 to surfex/pgd/get_mesh_dim_gauss.F90
get_mesh_dim_ign.f90 to surfex/pgd/get_mesh_dim_ign.F90
get_mesh_dim_lonlat_reg.f90 to surfex/pgd/get_mesh_dim_lonlat_reg.F90
get_mesh_index.f90 to surfex/pgd/get_mesh_index.F90
get_mesh_index_conf_proj.f90 to surfex/pgd/get_mesh_index_conf_proj.F90
get_mesh_index_gauss.f90 to surfex/pgd/get_mesh_index_gauss.F90
get_mesh_index_ign.f90 to surfex/pgd/get_mesh_index_ign.F90
get_mesh_index_lonlat_reg.f90 to surfex/pgd/get_mesh_index_lonlat_reg.F90
get_near_meshes.f90 to surfex/pgd/get_near_meshes.F90
get_near_meshes_cartesian.f90 to surfex/pgd/get_near_meshes_cartesian.F90
get_near_meshes_conf_proj.f90 to surfex/pgd/get_near_meshes_conf_proj.F90

get_near_meshes_gauss.f90 to surfex/pgd/get_near_meshes_gauss.F90
get_near_meshes_ign.f90 to surfex/pgd/get_near_meshes_ign.F90
get_near_meshes_lonlat_reg.f90 to surfex/pgd/get_near_meshes_lonlat_reg.F90
grid_from_file.f90 to surfex/pgd/grid_from_file.F90
grid_modif.f90 to surfex/pgd/grid_modif.F90
grid_modification_cartesian.f90 to surfex/pgd/grid_modification_cartesian.F90
grid_modification_conf_proj.f90 to surfex/pgd/grid_modification_conf_proj.F90
hor_interpol_latlon.f90 to surfex/pgd/hor_interpol_latlon.F90
hor_interpol_rotlatlon.f90 to surfex/pgd/hor_interpol_rotlatlon.F90
ini_data_cover.f90 to surfex/pgd/ini_data_cover.F90
ini_data_param.f90 to surfex/pgd/ini_data_param.F90
ini_data_soil.f90 to surfex/pgd/ini_data_soil.F90
ini_ssowork.f90 to surfex/pgd/ini_ssowork.F90
init_pgd_surf_atm.f90 to surfex/pgd/init_pgd_surf_atm.F90
interp_grid.f90 to surfex/pgd/interp_grid.F90
latlon_grid.f90 to surfex/pgd/latlon_grid.F90
latlon_gridtype_cartesian.f90 to surfex/pgd/latlon_gridtype_cartesian.F90
latlon_gridtype_conf_proj.f90 to surfex/pgd/latlon_gridtype_conf_proj.F90
latlon_gridtype_gauss.f90 to surfex/pgd/latlon_gridtype_gauss.F90
latlon_gridtype_ign.f90 to surfex/pgd/latlon_gridtype_ign.F90
latlon_gridtype_lonlat_reg.f90 to surfex/pgd/latlon_gridtype_lonlat_reg.F90
latlonmask.f90 to surfex/pgd/latlonmask.F90
latlonmask_cartesian.f90 to surfex/pgd/latlonmask_cartesian.F90
latlonmask_conf_proj.f90 to surfex/pgd/latlonmask_conf_proj.F90
latlonmask_ign.f90 to surfex/pgd/latlonmask_ign.F90
latlonmask_lonlat_reg.f90 to surfex/pgd/latlonmask_lonlat_reg.F90
latlontoxy1d.f90 to surfex/pgd/latlontoxy1d.F90
modd_arch.f90 to surfex/pgd/modd_arch.F90
modd_data_cover.f90 to surfex/pgd/modd_data_cover.F90
modd_data_cover_par.f90 to surfex/pgd/modd_data_cover_par.F90
modd_dummy_surf_fieldsn.f90 to surfex/pgd/modd_dummy_surf_fieldsn.F90
modd_get_mesh_index_conf_proj.f90 to surfex/pgd/modd_get_mesh_index_conf_proj.F90
modd_get_mesh_index_gauss.f90 to surfex/pgd/modd_get_mesh_index_gauss.F90
modd_get_mesh_index_ign.f90 to surfex/pgd/modd_get_mesh_index_ign.F90

modd_get_mesh_index_lonlat_reg.f90 to surfex/pgd/modd_get_mesh_index_lonlat_reg.F90
modd_grid_arome.f90 to surfex/pgd/modd_grid_arome.F90
modd_grid_buffer.f90 to surfex/pgd/modd_grid_buffer.F90
modd_grid_cartesian.f90 to surfex/pgd/modd_grid_cartesian.F90
modd_grid_conf_proj.f90 to surfex/pgd/modd_grid_conf_proj.F90
modd_grid_gauss.f90 to surfex/pgd/modd_grid_gauss.F90
modd_grid_grib.f90 to surfex/pgd/modd_grid_grib.F90
modd_grid_latlonregul.f90 to surfex/pgd/modd_grid_latlonregul.F90
modd_grid_rotlatlon.f90 to surfex/pgd/modd_grid_rotlatlon.F90
modd_ign.f90 to surfex/pgd/modd_ign.F90
modd_pgd_grid.f90 to surfex/pgd/modd_pgd_grid.F90
modd_pgdwork.f90 to surfex/pgd/modd_pgdwork.F90
modd_write_cover_tex.f90 to surfex/pgd/modd_write_cover_tex.F90
mode_char2real.f90 to surfex/pgd/mode_char2real.F90
mode_cover.f90 to surfex/pgd/mode_cover.F90
mode_cover_301_573.f90 to surfex/pgd/mode_cover_301_573.F90
mode_eggangles.f90 to surfex/pgd/mode_eggangles.F90
mode_geo_gauss.f90 to surfex/pgd/mode_geo_gauss.F90
mode_gridtype_cartesian.f90 to surfex/pgd/mode_gridtype_cartesian.F90
mode_gridtype_conf_proj.f90 to surfex/pgd/mode_gridtype_conf_proj.F90
mode_gridtype_gauss.f90 to surfex/pgd/mode_gridtype_gauss.F90
mode_gridtype_ign.f90 to surfex/pgd/mode_gridtype_ign.F90
mode_gridtype_lonlat_reg.f90 to surfex/pgd/mode_gridtype_lonlat_reg.F90
mode_write_cover_tex.f90 to surfex/pgd/mode_write_cover_tex.F90
modn_pgd_grid.f90 to surfex/pgd/modn_pgd_grid.F90
modn_pgd_schemes.f90 to surfex/pgd/modn_pgd_schemes.F90
orography_filter.f90 to surfex/pgd/orography_filter.F90
pack_grid.f90 to surfex/pgd/pack_grid.F90
pack_grid_cartesian.f90 to surfex/pgd/pack_grid_cartesian.F90
pack_grid_conf_proj.f90 to surfex/pgd/pack_grid_conf_proj.F90
pack_grid_gauss.f90 to surfex/pgd/pack_grid_gauss.F90
pack_grid_ign.f90 to surfex/pgd/pack_grid_ign.F90
pack_grid_lonlat_reg.f90 to surfex/pgd/pack_grid_lonlat_reg.F90
pack_pgd.f90 to surfex/pgd/pack_pgd.F90

pack_pgd_soil.f90 to surfex/pgd/pack_pgd_soil.F90
pgd_bathyfield.f90 to surfex/pgd/pgd_bathyfield.F90
pgd_chemistry.f90 to surfex/pgd/pgd_chemistry.F90
pgd_cover.f90 to surfex/pgd/pgd_cover.F90
pgd_dummy.f90 to surfex/pgd/pgd_dummy.F90
pgd_ecoclimap2_data.f90 to surfex/pgd/pgd_ecoclimap2_data.F90
pgd_field.f90 to surfex/pgd/pgd_field.F90
pgd_frac.f90 to surfex/pgd/pgd_frac.F90
pgd_grid.f90 to surfex/pgd/pgd_grid.F90
pgd_grid_io_init.f90 to surfex/pgd/pgd_grid_io_init.F90
pgd_orography.f90 to surfex/pgd/pgd_orography.F90
pgd_sea.f90 to surfex/pgd/pgd_sea.F90
pgd_surf_atm.f90 to surfex/pgd/pgd_surf_atm.F90
pt_by_pt_treatment.f90 to surfex/pgd/pt_by_pt_treatment.F90
read_arrange_cover.f90 to surfex/pgd/read_arrange_cover.F90
read_covern.f90 to surfex/pgd/read_covern.F90
read_gridtype.f90 to surfex/pgd/read_gridtype.F90
read_gridtype_cartesian.f90 to surfex/pgd/read_gridtype_cartesian.F90
read_gridtype_conf_proj.f90 to surfex/pgd/read_gridtype_conf_proj.F90
read_gridtype_gauss.f90 to surfex/pgd/read_gridtype_gauss.F90
read_gridtype_ign.f90 to surfex/pgd/read_gridtype_ign.F90
read_gridtype_lonlat_reg.f90 to surfex/pgd/read_gridtype_lonlat_reg.F90
read_latlon.f90 to surfex/pgd/read_latlon.F90
read_lcover.f90 to surfex/pgd/read_lcover.F90
read_nam_gridtype.f90 to surfex/pgd/read_nam_gridtype.F90
read_nam_gridtype_cartesian.f90 to surfex/pgd/read_nam_gridtype_cartesian.F90
read_nam_gridtype_conf_proj.f90 to surfex/pgd/read_nam_gridtype_conf_proj.F90
read_nam_gridtype_gauss.f90 to surfex/pgd/read_nam_gridtype_gauss.F90
read_nam_gridtype_ign.f90 to surfex/pgd/read_nam_gridtype_ign.F90
read_nam_gridtype_lonlat_reg.f90 to surfex/pgd/read_nam_gridtype_lonlat_reg.F90
read_nam_pgd_dummy.f90 to surfex/pgd/read_nam_pgd_dummy.F90
read_nam_pgd_seabathy.f90 to surfex/pgd/read_nam_pgd_seabathy.F90
read_pgd_arrange_cover.f90 to surfex/pgd/read_pgd_arrange_cover.F90
read_pgd_schemes.f90 to surfex/pgd/read_pgd_schemes.F90

refresh_pgdwork.f90 to surfex/pgd/refresh_pgdwork.F90
regular_grid_spawn.f90 to surfex/pgd/regular_grid_spawn.F90
snow_cover_1layer.f90 to surfex/pgd/snow_cover_1layer.F90
subscale_aos.f90 to surfex/pgd/subscale_aos.F90
temporal_dists.f90 to surfex/pgd/temporal_dists.F90
temporal_lts.f90 to surfex/pgd/temporal_lts.F90
treat_field.f90 to surfex/pgd/treat_field.F90
update_data_cover.f90 to surfex/pgd/update_data_cover.F90
write_cover_tex.f90 to surfex/pgd/write_cover_tex.F90
write_cover_tex_cover.f90 to surfex/pgd/write_cover_tex_cover.F90
write_cover_tex_end.f90 to surfex/pgd/write_cover_tex_end.F90
write_cover_tex_start.f90 to surfex/pgd/write_cover_tex_start.F90
write_data.f90 to surfex/pgd/write_data.F90
write_ecoclimap2_data.f90 to surfex/pgd/write_ecoclimap2_data.F90
write_grid.f90 to surfex/pgd/write_grid.F90
write_gridtype_cartesian.f90 to surfex/pgd/write_gridtype_cartesian.F90
write_gridtype_conf_proj.f90 to surfex/pgd/write_gridtype_conf_proj.F90
write_gridtype_gauss.f90 to surfex/pgd/write_gridtype_gauss.F90
write_gridtype_ign.f90 to surfex/pgd/write_gridtype_ign.F90
write_gridtype_lonlat_reg.f90 to surfex/pgd/write_gridtype_lonlat_reg.F90
writesurf_covern.f90 to surfex/pgd/writesurf_covern.F90
writesurf_dummyn.f90 to surfex/pgd/writesurf_dummyn.F90
writesurf_sson.f90 to surfex/pgd/writesurf_sson.F90
zoom_pgd_cover.f90 to surfex/pgd/zoom_pgd_cover.F90
zoom_pgd_isba.f90 to surfex/pgd/zoom_pgd_isba.F90
zoom_pgd_isba_full.f90 to surfex/pgd/zoom_pgd_isba_full.F90
zoom_pgd_nature.f90 to surfex/pgd/zoom_pgd_nature.F90
zoom_pgd_orography.f90 to surfex/pgd/zoom_pgd_orography.F90
zoom_pgd_sea.f90 to surfex/pgd/zoom_pgd_sea.F90
zoom_pgd_surf_atm.f90 to surfex/pgd/zoom_pgd_surf_atm.F90
zoom_pgd_teb.f90 to surfex/pgd/zoom_pgd_teb.F90
zoom_pgd_town.f90 to surfex/pgd/zoom_pgd_town.F90
zsfilter.f90 to surfex/pgd/zsfilter.F90
adapt_horibl_surf.f90 to surfex/prep/adapt_horibl_surf.F90

surfex/prep

bilin.f90 to surfex/prep/bilin.F90
clean_prep_output_grid.f90 to surfex/prep/clean_prep_output_grid.F90
coef_ver_interp_lin_surf.f90 to surfex/prep/coef_ver_interp_lin_surf.F90
hor_extrapol_surf.f90 to surfex/prep/hor_extrapol_surf.F90
hor_interp.f90 to surfex/prep/hor_interp.F90
hor_interp_arome.f90 to surfex/prep/hor_interp_arome.F90
hor_interp_buffer.f90 to surfex/prep/hor_interp_buffer.F90
hor_interp_cartesian.f90 to surfex/prep/hor_interp_cartesian.F90
hor_interp_conf_proj.f90 to surfex/prep/hor_interp_conf_proj.F90
hor_interp_gauss.f90 to surfex/prep/hor_interp_gauss.F90
hor_interp_none.f90 to surfex/prep/hor_interp_none.F90
horibl_surf.f90 to surfex/prep/horibl_surf.F90
interp_3pts.f90 to surfex/prep/interp_3pts.F90
interp_field.f90 to surfex/prep/interp_field.F90
interp_splines.f90 to surfex/prep/interp_splines.F90
modd_prep.f90 to surfex/prep/modd_prep.F90
modd_prep_snow.f90 to surfex/prep/modd_prep_snow.F90
modd_ver_interp_lin_surf.f90 to surfex/prep/modd_ver_interp_lin_surf.F90
mode_read_buffer.f90 to surfex/prep/mode_read_buffer.F90
mode_read_cdf.f90 to surfex/prep/mode_read_cdf.F90
mode_read_extern.f90 to surfex/prep/mode_read_extern.F90
mode_read_grib.f90 to surfex/prep/mode_read_grib.F90
mode_read_netcdf_mercator.f90 to surfex/prep/mode_read_netcdf_mercator.F90
modn_prep_surf_atm.f90 to surfex/prep/modn_prep_surf_atm.F90
prep_buffer_grid.f90 to surfex/prep/prep_buffer_grid.F90
prep_ctrl_ideal.f90 to surfex/prep/prep_ctrl_ideal.F90
prep_ctrl_surf_atm.f90 to surfex/prep/prep_ctrl_surf_atm.F90
prep_grib_grid.f90 to surfex/prep/prep_grib_grid.F90
prep_grid_cartesian.f90 to surfex/prep/prep_grid_cartesian.F90
prep_grid_conf_proj.f90 to surfex/prep/prep_grid_conf_proj.F90
prep_grid_extern.f90 to surfex/prep/prep_grid_extern.F90
prep_grid_gauss.f90 to surfex/prep/prep_grid_gauss.F90
prep_hor_ocean_field.f90 to surfex/prep/prep_hor_ocean_field.F90
prep_hor_ocean_fields.f90 to surfex/prep/prep_hor_ocean_fields.F90

prep_hor_snow_field.f90 to surfex/prep/prep_hor_snow_field.F90
prep_hor_snow_fields.f90 to surfex/prep/prep_hor_snow_fields.F90
prep_ocean_netcdf.f90 to surfex/prep/prep_ocean_netcdf.F90
prep_ocean_unif.f90 to surfex/prep/prep_ocean_unif.F90
prep_output_grid.f90 to surfex/prep/prep_output_grid.F90
prep_perm_snow.f90 to surfex/prep/prep_perm_snow.F90
prep_sea.f90 to surfex/prep/prep_sea.F90
prep_snow_buffer.f90 to surfex/prep/prep_snow_buffer.F90
prep_snow_extern.f90 to surfex/prep/prep_snow_extern.F90
prep_snow_grib.f90 to surfex/prep/prep_snow_grib.F90
prep_snow_unif.f90 to surfex/prep/prep_snow_unif.F90
prep_sst_init.f90 to surfex/prep/prep_sst_init.F90
prep_surf_atm.f90 to surfex/prep/prep_surf_atm.F90
prep_ver_snow.f90 to surfex/prep/prep_ver_snow.F90
read_prep_file_date.f90 to surfex/prep/read_prep_file_date.F90
read_prep_surf_atm_conf.f90 to surfex/prep/read_prep_surf_atm_conf.F90
ver_interp_lin_surf.f90 to surfex/prep/ver_interp_lin_surf.F90
default_prep_seaflux.f90 to surfex/sea/init/default_prep_seaflux.F90
ini_ocean_csts.f90 to surfex/sea/init/ini_ocean_csts.F90
init_from_data_seafluxn.f90 to surfex/sea/init/init_from_data_seafluxn.F90
init_seafluxn.f90 to surfex/sea/init/init_seafluxn.F90
init_sean.f90 to surfex/sea/init/init_sean.F90
init_sltn.f90 to surfex/sea/init/init_sltn.F90
pack_pgd_seaflux.f90 to surfex/sea/init/pack_pgd_seaflux.F90
pgd_seaflux.f90 to surfex/sea/init/pgd_seaflux.F90
pgd_seaflux_par.f90 to surfex/sea/init/pgd_seaflux_par.F90
prep_ctrl_seaflux.f90 to surfex/sea/init/prep_ctrl_seaflux.F90
prep_hor_seaflux_field.f90 to surfex/sea/init/prep_hor_seaflux_field.F90
prep_seaflux.f90 to surfex/sea/init/prep_seaflux.F90
prep_seaflux_buffer.f90 to surfex/sea/init/prep_seaflux_buffer.F90
prep_seaflux_extern.f90 to surfex/sea/init/prep_seaflux_extern.F90
prep_seaflux_grib.f90 to surfex/sea/init/prep_seaflux_grib.F90
prep_seaflux_netcdf.f90 to surfex/sea/init/prep_seaflux_netcdf.F90
prep_seaflux_sbl.f90 to surfex/sea/init/prep_seaflux_sbl.F90

surfex/sea/init

prep_seaflux_unif.f90 to surfex/sea/init/prep_seaflux_unif.F90
prep_ver_seaflux.f90 to surfex/sea/init/prep_ver_seaflux.F90
read_pgd_seaflux_parn.f90 to surfex/sea/init/read_pgd_seaflux_parn.F90
read_pgd_seafluxn.f90 to surfex/sea/init/read_pgd_seafluxn.F90
read_prep_seaflux_conf.f90 to surfex/sea/init/read_prep_seaflux_conf.F90
writesurf_pgd_seaf_parn.f90 to surfex/sea/init/writesurf_pgd_seaf_parn.F90
writesurf_pgd_seafluxn.f90 to surfex/sea/init/writesurf_pgd_seafluxn.F90
zoom_pgd_seaflux.f90 to surfex/sea/init/zoom_pgd_seaflux.F90

surfex/sea/module
modd_ch_seafluxn.f90 to surfex/sea/module/modd_ch_seafluxn.F90
modd_data_seafluxn.f90 to surfex/sea/module/modd_data_seafluxn.F90
modd_diag_oceann.f90 to surfex/sea/module/modd_diag_oceann.F90
modd_diag_seafluxn.f90 to surfex/sea/module/modd_diag_seafluxn.F90
modd_ocean_csts.f90 to surfex/sea/module/modd_ocean_csts.F90
modd_ocean_gridn.f90 to surfex/sea/module/modd_ocean_gridn.F90
modd_oceann.f90 to surfex/sea/module/modd_oceann.F90
modd_prep_seaflux.f90 to surfex/sea/module/modd_prep_seaflux.F90
modd_seaflux_gridn.f90 to surfex/sea/module/modd_seaflux_gridn.F90
modd_seaflux_sbl.f90 to surfex/sea/module/modd_seaflux_sbl.F90
modd_seafluxn.f90 to surfex/sea/module/modd_seafluxn.F90
modd_slit.f90 to surfex/sea/module/modd_slit.F90
modd_slit_surf.f90 to surfex/sea/module/modd_slit_surf.F90
modd_sltn.f90 to surfex/sea/module/modd_sltn.F90
modn_prep_seaflux.f90 to surfex/sea/module/modn_prep_seaflux.F90
modn_seafluxn.f90 to surfex/sea/module/modn_seafluxn.F90
modn_slit.f90 to surfex/sea/module/modn_slit.F90

surfex/sea/phys
coare30_flux.f90 to surfex/sea/phys/coare30_flux.F90
coare30_seaflux.f90 to surfex/sea/phys/coare30_seaflux.F90
coupling_seaflux_orographyn.f90 to surfex/sea/phys/coupling_seaflux_orographyn.F90
coupling_seaflux_sbl.f90 to surfex/sea/phys/coupling_seaflux_sbl.F90
coupling_seafluxn.f90 to surfex/sea/phys/coupling_seafluxn.F90
coupling_sltn.f90 to surfex/sea/phys/coupling_sltn.F90
dealloc_seafluxn.f90 to surfex/sea/phys/dealloc_seafluxn.F90
default_diag_seaflux.f90 to surfex/sea/phys/default_diag_seaflux.F90
default_seaflux.f90 to surfex/sea/phys/default_seaflux.F90

default_sltn.f90 to surfex/sea/phys/default_sltn.F90
diag_inline_oceann.f90 to surfex/sea/phys/diag_inline_oceann.F90
diag_inline_seafluxn.f90 to surfex/sea/phys/diag_inline_seafluxn.F90
diag_seaflux_initn.f90 to surfex/sea/phys/diag_seaflux_initn.F90
diag_seafluxn.f90 to surfex/sea/phys/diag_seafluxn.F90
diag_sean.f90 to surfex/sea/phys/diag_sean.F90
diag_surf_budget_sea.f90 to surfex/sea/phys/diag_surf_budget_sea.F90
flag_update.f90 to surfex/sea/phys/flag_update.F90
get_var_sean.f90 to surfex/sea/phys/get_var_sean.F90
goto_wrapper_ocean.f90 to surfex/sea/phys/goto_wrapper_ocean.F90
goto_wrapper_seaflux.f90 to surfex/sea/phys/goto_wrapper_seaflux.F90
ice_sea_flux.f90 to surfex/sea/phys/ice_sea_flux.F90
mixtln.f90 to surfex/sea/phys/mixtln.F90
mod1dn.f90 to surfex/sea/phys/mod1dn.F90
mode_coare30_psi.f90 to surfex/sea/phys/mode_coare30_psi.F90
mode_sl_tsurf.f90 to surfex/sea/phys/mode_sl_tsurf.F90
mode_sl_ttbl.f90 to surfex/sea/phys/mode_sl_ttbl.F90
ocean_mercatorvergrid.f90 to surfex/sea/phys/ocean_mercatorvergrid.F90
put_zs_sean.f90 to surfex/sea/phys/put_zs_sean.F90
read_default_seafluxn.f90 to surfex/sea/phys/read_default_seafluxn.F90
read_default_sltn.f90 to surfex/sea/phys/read_default_sltn.F90
read_oceann.f90 to surfex/sea/phys/read_oceann.F90
read_pre_seaf_dat_conf.f90 to surfex/sea/phys/read_pre_seaf_dat_conf.F90
read_seaflux_conf.f90 to surfex/sea/phys/read_seaflux_conf.f90
read_seaflux_date.f90 to surfex/sea/phys/read_seaflux_date.F90
read_seaflux_sbIn.f90 to surfex/sea/phys/read_seaflux_sbIn.F90
read_seafluxn.f90 to surfex/sea/phys/read_seafluxn.F90
read_sl_tconf.f90 to surfex/sea/phys/read_sl_tconf.f90
sl_tdep.f90 to surfex/sea/phys/sl_tdep.F90
sl_tinit_modes.f90 to surfex/sea/phys/sl_tinit_modes.F90
sl_tinit_names.f90 to surfex/sea/phys/sl_tinit_names.F90
sl_tvelgrav1d.f90 to surfex/sea/phys/sl_tvelgrav1d.F90
sst_update.f90 to surfex/sea/phys/sst_update.F90
treat_bathyfield.f90 to surfex/sea/phys/treat_bathyfield.F90

write_diag_seafluxn.f90 to surfex/sea/phys/write_diag_seafluxn.F90
write_diag_sean.f90 to surfex/sea/phys/write_diag_sean.F90
write_diag_seb_oceann.f90 to surfex/sea/phys/write_diag_seb_oceann.F90
write_diag_seb_seafluxn.f90 to surfex/sea/phys/write_diag_seb_seafluxn.F90
write_seafluxn.f90 to surfex/sea/phys/write_seafluxn.F90
write_sean.f90 to surfex/sea/phys/write_sean.F90
writesurf_oceann.f90 to surfex/sea/phys/writesurf_oceann.F90
writesurf_seaflux_confn.f90 to surfex/sea/phys/writesurf_seaflux_confn.F90
writesurf_seaflux_sbIn.f90 to surfex/sea/phys/writesurf_seaflux_sbIn.F90
writesurf_seafluxn.f90 to surfex/sea/phys/writesurf_seafluxn.F90
surfex/surf_atm/init
ch_init_depconst.f90 to surfex/surf_atm/init/ch_init_depconst.F90
ch_init_emissionn.f90 to surfex/surf_atm/init/ch_init_emissionn.F90
ch_init_names.f90 to surfex/surf_atm/init/ch_init_names.F90
init_surf_atmn.f90 to surfex/surf_atm/init/init_surf_atmn.F90
surfex/surf_atm/module
modd_atm_cst.f90 to surfex/surf_atm/module/modd_atm_cst.F90
modd_bvoc_par.f90 to surfex/surf_atm/module/modd_bvoc_par.F90
modd_ch_emis_fieldn.f90 to surfex/surf_atm/module/modd_ch_emis_fieldn.F90
modd_ch_surf.f90 to surfex/surf_atm/module/modd_ch_surf.F90
modd_ch_surfn.f90 to surfex/surf_atm/module/modd_ch_surfn.F90
modd_chs_aerosol.f90 to surfex/surf_atm/module/modd_chs_aerosol.F90
modd_co2v_par.f90 to surfex/surf_atm/module/modd_co2v_par.F90
modd_diag_surf_atmn.f90 to surfex/surf_atm/module/modd_diag_surf_atmn.F90
modd_emis_gr_fieldn.f90 to surfex/surf_atm/module/modd_emis_gr_fieldn.F90
modd_forc_atm.f90 to surfex/surf_atm/module/modd_forc_atm.F90
modd_gr_biogn.f90 to surfex/surf_atm/module/modd_gr_biogn.F90
modd_surf_atm.f90 to surfex/surf_atm/module/modd_surf_atm.F90
modd_surf_atm_gridn.f90 to surfex/surf_atm/module/modd_surf_atm_gridn.F90
modd_surf_atm_sson.f90 to surfex/surf_atm/module/modd_surf_atm_sson.F90
modd_surf_atmn.f90 to surfex/surf_atm/module/modd_surf_atmn.F90
modd_surf_conf.f90 to surfex/surf_atm/module/modd_surf_conf.F90
modd_surf_par.f90 to surfex/surf_atm/module/modd_surf_par.F90
modd_svn.f90 to surfex/surf_atm/module/modd_svn.F90
modd_type_date_surf.f90 to surfex/surf_atm/module/modd_type_date_surf.F90
modd_type_efutil.f90 to surfex/surf_atm/module/modd_type_efutil.F90

surfex/surf_atm/phys

modd_write_surf_atm.f90 to surfex/surf_atm/module/modd_write_surf_atm.F90
modn_chs_orilam.f90 to surfex/surf_atm/module/modn_chs_orilam.F90
modn_surf_atm.f90 to surfex/surf_atm/module/modn_surf_atm.F90
modn_surf_atmn.f90 to surfex/surf_atm/module/modn_surf_atmn.F90
modn_write_surf_atm.f90 to surfex/surf_atm/module/modn_write_surf_atm.F90
add_forecast_to_date_surf.f90 to surfex/surf_atm/phys/add_forecast_to_date_surf.F90
alloc_diag_surf_atmn.f90 to surfex/surf_atm/phys/alloc_diag_surf_atmn.F90
alloc_surfex.f90 to surfex/surf_atm/phys/alloc_surfex.F90
average_diag.f90 to surfex/surf_atm/phys/average_diag.F90
average_flux.f90 to surfex/surf_atm/phys/average_flux.F90
average_rad.f90 to surfex/surf_atm/phys/average_rad.F90
ch_aer_dep.f90 to surfex/surf_atm/phys/ch_aer_dep.F90
ch_aer_emission.f90 to surfex/surf_atm/phys/ch_aer_emission.F90
ch_aer_velgrav1d.f90 to surfex/surf_atm/phys/ch_aer_velgrav1d.F90
ch_bvocemn.f90 to surfex/surf_atm/phys/ch_bvocemn.F90
ch_emission_fluxn.f90 to surfex/surf_atm/phys/ch_emission_fluxn.F90
ch_open_inputb.f90 to surfex/surf_atm/phys/ch_open_inputb.F90
coupling_inland_watern.f90 to surfex/surf_atm/phys/coupling_inland_watern.F90
coupling_naturen.f90 to surfex/surf_atm/phys/coupling_naturen.F90
coupling_sean.f90 to surfex/surf_atm/phys/coupling_sean.F90
coupling_surf_atmn.f90 to surfex/surf_atm/phys/coupling_surf_atmn.F90
coupling_townn.f90 to surfex/surf_atm/phys/coupling_townn.F90
dealloc_diag_surf_atmn.f90 to surfex/surf_atm/phys/dealloc_diag_surf_atmn.F90
dealloc_surf_atmn.f90 to surfex/surf_atm/phys/dealloc_surf_atmn.F90
dealloc_surfex.f90 to surfex/surf_atm/phys/dealloc_surfex.F90
default_ch_bio_flux.f90 to surfex/surf_atm/phys/default_ch_bio_flux.F90
default_ch_dep.f90 to surfex/surf_atm/phys/default_ch_dep.F90
default_ch_surf_atm.f90 to surfex/surf_atm/phys/default_ch_surf_atm.F90
default_diag_surf_atm.f90 to surfex/surf_atm/phys/default_diag_surf_atm.F90
default_sso.f90 to surfex/surf_atm/phys/default_sso.F90
default_surf_atm.f90 to surfex/surf_atm/phys/default_surf_atm.F90
default_write_surf_atm.f90 to surfex/surf_atm/phys/default_write_surf_atm.F90
diag_inline_surf_atmn.f90 to surfex/surf_atm/phys/diag_inline_surf_atmn.F90
diag_surf_atmn.f90 to surfex/surf_atm/phys/diag_surf_atmn.F90

surfex/teb/init

forcing_vert_shift.f90 to surfex/surf_atm/phys/forcing_vert_shift.F90
goto_surfex.f90 to surfex/surf_atm/phys/goto_surfex.F90
goto_wrapper_surfatm.f90 to surfex/surf_atm/phys/goto_wrapper_surfatm.F90
mode_aer_surf.f90 to surfex/surf_atm/phys/mode_aer_surf.F90
mode_modeln_surfex_handler.f90 to surfex/surf_atm/phys/mode_modeln_surfex_handler.F90
modn_sso.f90 to surfex/surf_atm/phys/modn_sso.F90
pack_same_rank.f90 to surfex/surf_atm/phys/pack_same_rank.F90
put_zs_surf_atmn.f90 to surfex/surf_atm/phys/put_zs_surf_atmn.F90
put_zsn.f90 to surfex/surf_atm/phys/put_zsn.F90
read_default_surf_atmn.f90 to surfex/surf_atm/phys/read_default_surf_atmn.F90
sso_z0_friction_n.f90 to surfex/surf_atm/phys/sso_z0_friction_n.F90
test_nam_var_surf.f90 to surfex/surf_atm/phys/test_nam_var_surf.F90
unpack_same_rank.f90 to surfex/surf_atm/phys/unpack_same_rank.F90
unpack_same_rank2.f90 to surfex/surf_atm/phys/unpack_same_rank2.F90
write_diag_seb_surf_atmn.f90 to surfex/surf_atm/phys/write_diag_seb_surf_atmn.F90
write_diag_surf_atmn.f90 to surfex/surf_atm/phys/write_diag_surf_atmn.F90
write_surf_atmn.f90 to surfex/surf_atm/phys/write_surf_atmn.F90
writesurf_atm_confn.f90 to surfex/surf_atm/phys/writesurf_atm_confn.F90
writesurf_ch_emisn.f90 to surfex/surf_atm/phys/writesurf_ch_emisn.F90
default_prep_teb.f90 to surfex/teb/init/default_prep_teb.F90
diag_teb_initn.f90 to surfex/teb/init/diag_teb_initn.F90
init_from_data_tebn.f90 to surfex/teb/init/init_from_data_tebn.F90
init_tebn.f90 to surfex/teb/init/init_tebn.F90
init_townn.f90 to surfex/teb/init/init_townn.F90
pgd_teb.f90 to surfex/teb/init/pgd_teb.F90
pgd_teb_par.f90 to surfex/teb/init/pgd_teb_par.F90
pgd_town.f90 to surfex/teb/init/pgd_town.F90
prep_ctrl_teb.f90 to surfex/teb/init/prep_ctrl_teb.F90
prep_hor_teb_field.f90 to surfex/teb/init/prep_hor_teb_field.F90
prep_teb.f90 to surfex/teb/init/prep_teb.F90
prep_teb_buffer.f90 to surfex/teb/init/prep_teb_buffer.F90
prep_teb_canopy.f90 to surfex/teb/init/prep_teb_canopy.F90
prep_teb_extern.f90 to surfex/teb/init/prep_teb_extern.F90
prep_teb_grib.f90 to surfex/teb/init/prep_teb_grib.F90

prep_teb_unif.f90 to surfex/teb/init/prep_teb_unif.F90
prep_town.f90 to surfex/teb/init/prep_town.F90
prep_ver_teb.f90 to surfex/teb/init/prep_ver_teb.F90
read_pgd_teb_parn.f90 to surfex/teb/init/read_pgd_teb_parn.F90
read_pgd_tebn.f90 to surfex/teb/init/read_pgd_tebn.F90
read_prep_teb_conf.f90 to surfex/teb/init/read_prep_teb_conf.F90
read_prep_teb_date_conf.f90 to surfex/teb/init/read_prep_teb_date_conf.F90
writesurf_pgd_teb_parn.f90 to surfex/teb/init/writesurf_pgd_teb_parn.F90
writesurf_pgd_tebn.f90 to surfex/teb/init/writesurf_pgd_tebn.F90
surfex/teb/module
modd_ch_tebn.f90 to surfex/teb/module/modd_ch_tebn.F90
modd_data_tebn.f90 to surfex/teb/module/modd_data_tebn.F90
modd_diag_misc_tebn.f90 to surfex/teb/module/modd_diag_misc_tebn.F90
modd_diag_tebn.f90 to surfex/teb/module/modd_diag_tebn.F90
modd_prep_teb.f90 to surfex/teb/module/modd_prep_teb.F90
modd_teb_canopyn.f90 to surfex/teb/module/modd_teb_canopyn.F90
modd_teb_gridn.f90 to surfex/teb/module/modd_teb_gridn.F90
modd_tebn.f90 to surfex/teb/module/modd_tebn.F90
modn_prep_teb.f90 to surfex/teb/module/modn_prep_teb.F90
modn_tebn.f90 to surfex/teb/module/modn_tebn.F90
surfex/teb/phys
averaged_albedo_teb.f90 to surfex/teb/phys/averaged_albedo_teb.F90
averaged_tsrاد_teb.f90 to surfex/teb/phys/averaged_tsrاد_teb.F90
bld_e_budget.f90 to surfex/teb/phys/bld_e_budget.F90
ch_dep_town.f90 to surfex/teb/phys/ch_dep_town.F90
convert_cover_teb.f90 to surfex/teb/phys/convert_cover_teb.F90
coupling_teb_orographyn.f90 to surfex/teb/phys/coupling_teb_orographyn.F90
coupling_tebn.f90 to surfex/teb/phys/coupling_tebn.F90
dealloc_tebn.f90 to surfex/teb/phys/dealloc_tebn.F90
dealloc_townn.f90 to surfex/teb/phys/dealloc_townn.F90
default_diag_teb.f90 to surfex/teb/phys/default_diag_teb.F90
default_teb.f90 to surfex/teb/phys/default_teb.F90
diag_inline_tebn.f90 to surfex/teb/phys/diag_inline_tebn.F90
diag_misc_tebn.f90 to surfex/teb/phys/diag_misc_tebn.F90
diag_surf_budget_teb.f90 to surfex/teb/phys/diag_surf_budget_teb.F90
diag_tebn.f90 to surfex/teb/phys/diag_tebn.F90

diag_townn.f90 to surfex/teb/phys/diag_townn.F90
get_var_townn.f90 to surfex/teb/phys/get_var_townn.F90
goto_wrapper_teb.f90 to surfex/teb/phys/goto_wrapper_teb.F90
put_zs_townn.f90 to surfex/teb/phys/put_zs_townn.F90
read_default_tebn.f90 to surfex/teb/phys/read_default_tebn.F90
read_teb_canopyn.f90 to surfex/teb/phys/read_teb_canopyn.F90
read_teb_confn.f90 to surfex/teb/phys/read_teb_confn.F90
read_teb_date.f90 to surfex/teb/phys/read_teb_date.F90
read_tebn.f90 to surfex/teb/phys/read_tebn.F90
rmc01_surf.f90 to surfex/teb/phys/rmc01_surf.F90
road_wall_layer_e_budget.f90 to surfex/teb/phys/road_wall_layer_e_budget.F90
roof_layer_e_budget.f90 to surfex/teb/phys/roof_layer_e_budget.F90
teb.f90 to surfex/teb/phys/teb.F90
teb_canopy.f90 to surfex/teb/phys/teb_canopy.F90
urban_drag.f90 to surfex/teb/phys/urban_drag.F90
urban_exch_coef.f90 to surfex/teb/phys/urban_exch_coef.F90
urban_fluxes.f90 to surfex/teb/phys/urban_fluxes.F90
urban_hydro.f90 to surfex/teb/phys/urban_hydro.F90
urban_lw_coef.f90 to surfex/teb/phys/urban_lw_coef.F90
urban_snow_evol.f90 to surfex/teb/phys/urban_snow_evol.F90
urban_solar_abs.f90 to surfex/teb/phys/urban_solar_abs.F90
write_cover_tex_teb.f90 to surfex/teb/phys/write_cover_tex_teb.F90
write_diag_misc_tebn.f90 to surfex/teb/phys/write_diag_misc_tebn.F90
write_diag_seb_tebn.f90 to surfex/teb/phys/write_diag_seb_tebn.F90
write_diag_tebn.f90 to surfex/teb/phys/write_diag_tebn.F90
write_diag_townn.f90 to surfex/teb/phys/write_diag_townn.F90
write_tebn.f90 to surfex/teb/phys/write_tebn.F90
write_townn.f90 to surfex/teb/phys/write_townn.F90
writesurf_teb_canopyn.f90 to surfex/teb/phys/writesurf_teb_canopyn.F90
writesurf_teb_confn.f90 to surfex/teb/phys/writesurf_teb_confn.F90
writesurf_tebn.f90 to surfex/teb/phys/writesurf_tebn.F90
init_diag_tripn.f90 to surfex/trip/init/init_diag_tripn.F90
init_param_tripn.f90 to surfex/trip/init/init_param_tripn.F90
init_restart_tripn.f90 to surfex/trip/init/init_restart_tripn.F90

surfex/trip/init

	init_trip_par.f90 to surfex/trip/init/init_trip_par.F90
	init_tripn.f90 to surfex/trip/init/init_tripn.F90
	prep_trip.f90 to surfex/trip/init/prep_trip.F90
surfex/trip/module	modd_diag_tripn.f90 to surfex/trip/module/modd_diag_tripn.F90
	modd_trip_gridn.f90 to surfex/trip/module/modd_trip_gridn.F90
	modd_trip_par.f90 to surfex/trip/module/modd_trip_par.F90
	modd_tripn.f90 to surfex/trip/module/modd_tripn.F90
	modn_tripn.f90 to surfex/trip/module/modn_tripn.F90
surfex/trip/phys	default_trip.f90 to surfex/trip/phys/default_trip.F90
	diag_tripn.f90 to surfex/trip/phys/diag_tripn.F90
	flood_update.f90 to surfex/trip/phys/flood_update.F90
	get_conf_tripn.f90 to surfex/trip/phys/get_conf_tripn.F90
	get_grid_conf_tripn.f90 to surfex/trip/phys/get_grid_conf_tripn.F90
	get_trip_sizen.f90 to surfex/trip/phys/get_trip_sizen.F90
	goto_trip.f90 to surfex/trip/phys/goto_trip.F90
	goto_wrapper_trip.f90 to surfex/trip/phys/goto_wrapper_trip.F90
	mode_convert.f90 to surfex/trip/phys/mode_convert.F90
	mode_grid_trip.f90 to surfex/trip/phys/mode_grid_trip.F90
	mode_modeln_trip_handler.f90 to surfex/trip/phys/mode_modeln_trip_handler.F90
	mode_rw_trip.f90 to surfex/trip/phys/mode_rw_trip.F90
	mode_trip_function.f90 to surfex/trip/phys/mode_trip_function.F90
	mode_trip_init.f90 to surfex/trip/phys/mode_trip_init.F90
	mode_trip_netcdf.f90 to surfex/trip/phys/mode_trip_netcdf.F90
	read_nam_grid_trip.f90 to surfex/trip/phys/read_nam_grid_trip.F90
	read_trip_conf.n.f90 to surfex/trip/phys/read_trip_conf.n.F90
	restart_tripn.f90 to surfex/trip/phys/restart_tripn.F90
	trip.f90 to surfex/trip/phys/trip.F90
	trip_gound_water.f90 to surfex/trip/phys/trip_gound_water.F90
	trip_interface.f90 to surfex/trip/phys/trip_interface.F90
	trip_surface_water.f90 to surfex/trip/phys/trip_surface_water.F90
	trip_surface_water_flood.f90 to surfex/trip/phys/trip_surface_water_flood.F90
	trip_surface_water_velvar.f90 to surfex/trip/phys/trip_surface_water_velvar.F90
surfex/water/init	default_prep_watflux.f90 to surfex/water/init/default_prep_watflux.F90
	init_inland_watern.f90 to surfex/water/init/init_inland_watern.F90

init_watfluxn.f90 to surfex/water/init/init_watfluxn.F90
modd_prep_watflux.f90 to surfex/water/init/modd_prep_watflux.F90
modn_prep_watflux.f90 to surfex/water/init/modn_prep_watflux.F90
pgd_inland_water.f90 to surfex/water/init/pgd_inland_water.F90
pgd_watflux.f90 to surfex/water/init/pgd_watflux.F90
prep_ctrl_watflux.f90 to surfex/water/init/prep_ctrl_watflux.F90
prep_hor_watflux_field.f90 to surfex/water/init/prep_hor_watflux_field.F90
prep_inland_water.f90 to surfex/water/init/prep_inland_water.F90
prep_ver_watflux.f90 to surfex/water/init/prep_ver_watflux.F90
prep_watflux.f90 to surfex/water/init/prep_watflux.F90
prep_watflux_buffer.f90 to surfex/water/init/prep_watflux_buffer.F90
prep_watflux_extern.f90 to surfex/water/init/prep_watflux_extern.F90
prep_watflux_grib.f90 to surfex/water/init/prep_watflux_grib.F90
prep_watflux_sbl.f90 to surfex/water/init/prep_watflux_sbl.F90
prep_watflux_unif.f90 to surfex/water/init/prep_watflux_unif.F90
read_pgd_watfluxn.f90 to surfex/water/init/read_pgd_watfluxn.F90
read_prep_watflux_conf.f90 to surfex/water/init/read_prep_watflux_conf.F90
writesurf_pgd_watfluxn.f90 to surfex/water/init/writesurf_pgd_watfluxn.F90
zoom_pgd_inland_water.f90 to surfex/water/init/zoom_pgd_inland_water.F90

surfex/water/module

modd_ch_watfluxn.f90 to surfex/water/module/modd_ch_watfluxn.F90
modd_diag_watfluxn.f90 to surfex/water/module/modd_diag_watfluxn.F90
modd_water_par.f90 to surfex/water/module/modd_water_par.F90
modd_watflux_gridn.f90 to surfex/water/module/modd_watflux_gridn.F90
modd_watflux_sbln.f90 to surfex/water/module/modd_watflux_sbln.F90
modd_watfluxn.f90 to surfex/water/module/modd_watfluxn.F90
modn_watfluxn.f90 to surfex/water/module/modn_watfluxn.F90

surfex/water/phys

ch_dep_water.f90 to surfex/water/phys/ch_dep_water.F90
coupling_watflux_orographyn.f90 to surfex/water/phys/coupling_watflux_orographyn.F90
coupling_watflux_sbln.f90 to surfex/water/phys/coupling_watflux_sbln.F90
coupling_watfluxn.f90 to surfex/water/phys/coupling_watfluxn.F90
dealloc_inland_watern.f90 to surfex/water/phys/dealloc_inland_watern.F90
dealloc_watfluxn.f90 to surfex/water/phys/dealloc_watfluxn.F90
default_diag_watflux.f90 to surfex/water/phys/default_diag_watflux.F90
default_watflux.f90 to surfex/water/phys/default_watflux.F90

diag_inland_watern.f90 to surfex/water/phys/diag_inland_watern.F90
 diag_inline_watfluxn.f90 to surfex/water/phys/diag_inline_watfluxn.F90
 diag_surf_budget_water.f90 to surfex/water/phys/diag_surf_budget_water.F90
 diag_watflux_initn.f90 to surfex/water/phys/diag_watflux_initn.F90
 diag_watfluxn.f90 to surfex/water/phys/diag_watfluxn.F90
 get_var_watern.f90 to surfex/water/phys/get_var_watern.F90
 goto_wrapper_watflux.f90 to surfex/water/phys/goto_wrapper_watflux.F90
 mr98.f90 to surfex/water/phys/mr98.F90
 put_zs_inland_watern.f90 to surfex/water/phys/put_zs_inland_watern.F90
 read_default_watfluxn.f90 to surfex/water/phys/read_default_watfluxn.F90
 read_pre_watf_dat_conf.f90 to surfex/water/phys/read_pre_watf_dat_conf.F90
 read_watflux_confn.f90 to surfex/water/phys/read_watflux_confn.F90
 read_watflux_date.f90 to surfex/water/phys/read_watflux_date.F90
 read_watflux_sbIn.f90 to surfex/water/phys/read_watflux_sbIn.F90
 read_watfluxn.f90 to surfex/water/phys/read_watfluxn.F90
 water_flux.f90 to surfex/water/phys/water_flux.F90
 write_cover_tex_water.f90 to surfex/water/phys/write_cover_tex_water.F90
 write_diag_inland_watern.f90 to surfex/water/phys/write_diag_inland_watern.F90
 write_diag_seb_watfluxn.f90 to surfex/water/phys/write_diag_seb_watfluxn.F90
 write_diag_watfluxn.f90 to surfex/water/phys/write_diag_watfluxn.F90
 write_inland_watern.f90 to surfex/water/phys/write_inland_watern.F90
 write_watfluxn.f90 to surfex/water/phys/write_watfluxn.F90
 writesurf_watflux_confn.f90 to surfex/water/phys/writesurf_watflux_confn.F90
 writesurf_watflux_sbIn.f90 to surfex/water/phys/writesurf_watflux_sbIn.F90
 writesurf_watfluxn.f90 to surfex/water/phys/writesurf_watfluxn.F90

Deleted:

surfex/isba/phys	cls_2m.f90	flood_intercept.f90	gammad_inc.fx90
surfex/offlin/assim	oi_hor_extrapol_surf.f90		
surfex/offlin/io	ol_find_file.f90		
surfex/sea/phys	unitfp_flux.f90	unitfp_seaflux.f90	
surfex/surf_atm/module	modd_surfmax.f90		
surfex/surf_atm/phys	ch_buildemissn.f90	ch_buildpronosn.f90	modi_subscale_z0eff.f90
	modi_subscale_z0eff_1d.f90	subscale_z0eff_1d.f90	subscale_z0eff_1d_nveg.f90

surfex/trip/module subscale_z0eff_1d_patch.f90
modd_tripmax.f90

Modified:

mse/dummy	write_surfc0_ol.F90 write_surfn0_ol.F90 write_surft1_ol.F90 write_surfx1_time_ol.F90	write_surf10_ol.F90 write_surfn1_ol.F90 write_surfx0_ol.F90 write_surfx2_ol.F90	write_surf11_ol.F90 write_surft0_ol.F90 write_surfx1_ol.F90
mse/externals	aro_ground_diag.F90 aroini_surf.F90 get_bufc0.F90 get_bufx0.F90 put_bufc0.F90 put_bufx0.F90	aro_ground_param.F90 atm2sx_env.F90 get_bufn0.F90 ini_prep_surfex_aro.F90 put_bufn0.F90 put_bufx1.F90	aro_surf_diag.F90 deallmse.F90 get_bufn1.F90 prep_surf_aro.F90 put_bufn1.F90
mse/interface	aro_ground_diag.h aroini_surf.h close_prep_surfex_aro.h get_bufc0.h get_bufx0.h put_bufn0.h put_bufx1.h	aro_ground_param.h arordgp_surf2.intfb.h disgrid_surf_ext2.intfb.h get_bufn0.h get_bufx1.h put_bufn1.h	aro_surf_diag.h arwrgp_surf2.intfb.h diwrgrid_surf_ext2.intfb.h get_bufn1.h put_bufc0.h put_bufx0.h
mse/internals	aroinit_io_surf_n.F90 error_write.F90 fm_read.F90 fmclos.F90 fmlook.F90 fmreadx2.F90 fmreadx5.F90 fmwritx3.F90 ini_sun.F90 read_surfc0_aro.F90 read_surfn0_aro.F90 read_surfx0_aro.F90 unpack_1d_1d_from2d.F90	error_read.F90 error_write_surf_asc.F90 fm_writ.F90 fmfree.F90 fmopen.F90 fmreadx3.F90 fmwritn2.F90 fmwritx4.F90 read_in_lfi_x2.F90 read_surf10_aro.F90 read_surfn1_aro.F90 read_surfx1_aro.F90 unpack_1d_1d_from3d.F90	error_read_surf_asc.F90 error_write_surf_txt.F90 fmattr.F90 fminit.F90 fmreadn2.F90 fmreadx4.F90 fmwritx2.F90 fmwritx5.F90 read_in_lfi_x3.F90 read_surf11_aro.F90 read_surft0_aro.F90 read_surfx2_aro.F90 unpack_1d_1d_from4d.F90

	unpack_1d_1d_fromi2d.F90	unpack_1d_2d_from2d.F90	unpack_1d_2d_from3d.F90
	unpack_1d_2d_from4d.F90	unpack_1d_2d_fromi2d.F90	write_in_lfi_x1.F90
	write_in_lfi_x2.F90	write_in_lfi_x3.F90	write_surfn0_aro.F90
	write_surfn1_aro.F90	write_surfx1_aro.F90	write_surfx2_aro.F90
mse/module	modd_frommpa.F90	modd_io_surf_aro.F90	
mse/new	arordgp_surf2.F90	arowrgp_surf2.F90	disgrid_surf_ext2.F90
	diwrgrid_surf_ext2.F90		
mse/programs	driver_off_omp.F90	oi_main.F90	pgd.F90
	prep.F90	sxpost.F90	
surfex/aux	abor1_sfx.F90	close_aux_io_surf.F90	close_aux_io_surf_asc.F90
	close_aux_io_surf_fa.F90	close_file.F90	close_file_asc.F90
	close_file_fa.F90	close_namelist.F90	close_namelist_asc.F90
	close_namelist_fa.F90	dealloc_ideal_flux.F90	dealloc_sean.F90
	end_io_surf_ascn.F90	end_io_surf_fan.F90	end_io_surfn.F90
	get_1d_mask.F90	get_aosn.F90	get_coordn.F90
	get_default_namn.F90	get_dim_fulln.F90	get_fluxn.F90
	get_fracn.F90	get_lonlatn.F90	get_luout.F90
	get_size_fulln.F90	get_sson.F90	get_surf_grid_dimn.F90
	get_surf_maskn.F90	get_surf_sizen.F90	get_surf_undef.F90
	get_surf_varn.F90	get_type_dimn.F90	get_z0n.F90
	get_zsn.F90	init_io_surf_ascn.F90	init_io_surf_fan.F90
	init_io_surfn.F90	io_buff_cleann.F90	io_buffn.F90
	modd_io_buffn.F90	modd_io_surf_fa.F90	open_aux_io_surf.F90
	open_aux_io_surf_asc.F90	open_aux_io_surf_fa.F90	open_file.F90
	open_file_asc.F90	open_file_fa.F90	open_namelist.F90
	open_namelist_asc.F90	open_namelist_fa.F90	read_ascllv.F90
	read_binllv.F90	read_binllvfast.F90	read_buffer.F90
	read_direct.F90	read_dummysn.F90	read_eco2_irrig.F90
	read_grib.F90	read_grid.F90	read_lclim_lai.F90
	read_lecoclimap.F90	read_netcdf.F90	read_pre_surfa_dat_conf.F90
	read_sson.F90	read_surf.F90	read_surf_asc.F90
	read_surf_atm_conf.F90	read_surf_atm_date.F90	read_surf_fa.F90
	readhead.F90	readwrite_emis_fieldn.F90	second_sfx.F90
	surf_version.F90	write_header_fa.F90	write_surf.F90

surfex/canopy	write_surf_asc.F90 canopy_evolution.F90 canopy_evolution_wind.F90 mode_sbIs.F90	write_surf_fa.F90 canopy_evolution_temp.F90 canopy_grid.F90	canopy_evolution_tke.F90 canopy_grid_update.F90
surfex/flake/init	default_prep_flake.F90 pgd_flake.F90 prep_flake_buffer.F90 prep_flake_sbI.F90 prep_ver_flake.F90 writesurf_pgd_flaken.F90	init_flaken.F90 prep_ctrl_flake.F90 prep_flake_extern.F90 prep_flake_unif.F90 read_pgd_flaken.F90	modn_prep_flake.F90 prep_flake.F90 prep_flake_grib.F90 prep_hor_flake_field.F90 read_prep_flake_conf.F90
surfex/flake/module	modd_diag_flaken.F90 modd_flake_sbIn.F90	modd_diag_misc_flaken.F90 modd_flaken.F90	modd_flake_gridn.F90 modn_flaken.F90
surfex/flake/phys	SfcFlx.F90 coupling_flaken.F90 default_flake.F90 diag_inline_flaken.F90 flake_albedo_ref.F90 flake_interface.F90 goto_wrapper_flake.F90 read_flake_date.F90 read_pre_flake_dat_conf.F90 write_diag_seb_flaken.F90 writesurf_flake_sbIn.F90	coupling_flake_orography.F90 dealloc_flaken.F90 diag_flake_initn.F90 diag_misc_flaken.F90 flake_configure.F90 flake_parameters.F90 read_default_flaken.F90 read_flake_sbIn.F90 write_diag_flaken.F90 write_flaken.F90 writesurf_flaken.F90	coupling_flake_sbIn.F90 default_diag_flake.F90 diag_flaken.F90 flake.F90 flake_derivedtypes.F90 flake_paramoptic_ref.F90 read_flake_conf.F90 read_flaken.F90 write_diag_misc_flaken.F90 writesurf_flake_conf.F90
surfex/ideal	coupling_ideal_flux.F90 diag_ideal_initn.F90 init_ideal_flux.F90 modn_idealn.F90 read_ideal_flux_conf.F90	coupling_tsz0n.F90 diag_idealn.F90 modd_diag_idealn.F90 read_default_idealn.F90 tsz0.F90	default_diag_ideal.F90 goto_wrapper_ideal.F90 modd_idealn.F90 read_ideal_conf.F90
surfex/isba/init	ch_init_dep_isban.F90 default_prep_isba.F90 dst_init_names.F90 init_dstn.F90 init_naturen.F90 pack_pgd_isba.F90	co2_initn.F90 diag_isba_initn.F90 ini_csts.F90 init_from_data_isban.F90 init_snow_lw.F90 pgd_isba.F90	cotwoinitn.F90 dst_init_modes.F90 ini_cturbs.F90 init_isban.F90 init_top.F90 pgd_isba_par.F90

	pgd_nature.F90	prep_ctrl_isba.F90	prep_hor_isba_field.F90
	prep_isba.F90	prep_isba_ascllv.F90	prep_isba_buffer.F90
	prep_isba_canopy.F90	prep_isba_extern.F90	prep_isba_grib.F90
	prep_isba_unif.F90	prep_nature.F90	prep_ver_isba.F90
	read_nam_pgd_isba.F90	read_pgd_isba_parn.F90	read_pgd_isban.F90
	read_prep_isba_conf.F90	read_prep_isba_date_conf.F90	read_prep_isba_snow.F90
surfex/isba/module	write_diag_pgd_isban.F90	writesurf_pgd_isba_parn.F90	writesurf_pgd_isban.F90
	modd_agrin.F90	modd_assim.F90	modd_ch_isban.F90
	modd_csts.F90	modd_data_isban.F90	modd_diag_evap_isban.F90
	modd_diag_isban.F90	modd_diag_misc_isban.F90	modd_dst.F90
	modd_dst_surf.F90	modd_dstn.F90	modd_isba_canopyn.F90
	modd_isba_gridn.F90	modd_isban.F90	modd_pack_diag_isba.F90
	modd_pack_isba.F90	modd_prep_isba.F90	modd_sgh_par.F90
	modd_snow_par.F90	modd_type_snow.F90	modn_dst.F90
	modn_isban.F90	modn_prep_isba.F90	
surfex/isba/phys	albedo.F90	albedo_from_nir_vis.F90	albedo_ta96.F90
	allocate_gr_snow.F90	average_diag_evap_isban.F90	average_diag_isban.F90
	average_diag_misc_isban.F90	averaged_albedo_emis_isba.F90	ccetr.F90
	ch_dep_isba.F90	cls_tq.F90	cls_wind.F90
	convert_cover_ch_isba.F90	convert_cover_isba.F90	cotwo.F90
	cotwores.F90	cotworessstress.F90	coupling_dstn.F90
	coupling_isba_canopyn.F90	coupling_isba_orographyn.F90	coupling_isba_svatn.F90
	coupling_isban.F90	dealloc_isban.F90	dealloc_naturen.F90
	deepsoil_update.F90	default_agri.F90	default_assim.F90
	default_deepsoil.F90	default_diag_isba.F90	default_dstn.F90
	default_isba.F90	dgam.F	diag_evap_isban.F90
	diag_inline_isban.F90	diag_isban.F90	diag_misc_isban.F90
	diag_naturen.F90	diag_surf_budget_isba.F90	dlga.F
	drag.F90	dry_wet_soil_albedos.F90	dst_dep.F90
	dst_velgrav1d.F90	e_budget.F90	emis_from_veg.F90
	exp_decay_soil.F90	gammas.F90	get_isba_confn.F90
	get_sso_stdevn.F90	get_var_naturen.F90	get_vegtype_2_patch_mask.F90
	goto_wrapper_isba.F90	green_from_lai.F90	heatcapz.F90
	hydro.F90	hydro_dt92.F90	hydro_sgh.F90

hydro_snow.F90	hydro_soil.F90	hydro_soildif.F90
hydro_veg.F90	ice_soildif.F90	irrigation_update.F90
isba.F90	isba_canopy.F90	isba_flood_properties.F90
isba_flood_updaten.F90	isba_fluxes.F90	isba_sgh_update.F90
isba_snow_agr.F90	isba_snow_frac.F90	laigain.F90
lailoss.F90	mkflag_snow.F90	mode_dst_surf.F90
mode_dstmbl.F90	mode_dstmblutl.F90	mode_pos_surf.F90
mode_snow3l.F90	mode_soil.F90	mode_surf_flood_frac.F90
mode_surf_snow_frac.F90	mode_thermos.F90	nitro_decline.F90
pack_ch_isba_patchn.F90	pack_diag_patchn.F90	pack_isba_patchn.F90
param_cls.F90	put_on_all_vegtypes.F90	put_zs_naturen.F90
read_default_dstn.F90	read_default_isban.F90	read_dst_confn.F90
read_gr_snow.F90	read_isba_canopyn.F90	read_isba_confn.F90
read_isba_date.F90	read_isban.F90	set_rough.F90
snow3L_isba.F90	snow3l.F90	snow_heat_to_t_wliq.F90
snow_t_wliq_to_heat.F90	soil.F90	soil_albedo.F90
soil_heatdif.F90	soil_temp_arp.F90	soildif.F90
soilgrid.F90	soilstress.F90	soiltemp_arp_par.F90
sso.F90	sso_beljaars04.F90	subscale_z0eff.F90
sunpos.F90	surf_patch.F90	surface_aero_cond.F90
surface_cd.F90	surface_cdch_1darp.F90	surface_ri.F90
thrmcondz.F90	tridiag_ground.F90	tridiag_surf.F90
unpack_ch_isba_patchn.F90	unpack_diag_patchn.F90	unpack_isba_patchn.F90
veg.F90	veg_from_lai.F90	vegetation_evol.F90
vegetation_update.F90	vegtype_grid_to_patch_grid.F90	vegtype_to_patch.F90
wet_leaves_frac.F90	wind_threshold.F90	write_cover_tex_isba.F90
write_cover_tex_isba_par.F90	write_diag_isban.F90	write_diag_misc_isban.F90
write_diag_naturen.F90	write_diag_seb_isban.F90	write_dst_confn.F90
write_isban.F90	write_naturen.F90	writesurf_gr_snow.F90
writesurf_isba_canopyn.F90	writesurf_isba_confn.F90	writesurf_isban.F90
z0eff.F90	z0v_from_lai.F90	
alloc_diag_teb_gardenn.F90	allocate_teb_garden.F90	average1_cti.F90
average2_cti.F90	avg_albedo_emis_garden.F90	avg_urban_fluxes.F90
build_emisstabn.F90	build_pronoslistn.F90	carbon_control.F90

surfex/new

carbon_evol.F90
carbon_soil.F90
coupling_seaflux_sbln.F90
diag_cpl_esm_sea.F90
diag_surf_budgetc_water.F90
ecume_seaflux.F90
gauss_index.F90
get_grid_dim_lonlatval.F90
get_near_meshes_lonlatval.F90
hydro_glacier.F90
init_isba_sbl.F90
interpol_quadra.F90
interpol_ts_water_mth.F90
latlon_gridtype_lonlatval.F90
modd_agri_gardenn.F90
modd_deepsoil_garden.F90
modd_get_mesh_index_lonlatval.F90
modd_prep_teb_garden.F90
modd_teb_gardenn.F90
modn_agri_garden.F90
modn_prep_garden_snow.F90
modn_prep_teb_garden.F90
modn_teb_gardenn.F90
pack_grid_lonlatval.F90
pgd_teb_garden_par.F90
prep_hor_teb_garden_field.F90
prep_teb_garden_buffer.F90
prep_teb_garden_grib.F90
put_rad_sean.F90
read_cover_garden.F90
read_direct_gauss.F90
read_lsnow_ntel.F90
read_nam_pgd_gauss_index.F90
read_namelist_prep_flaken.F90
carbon_init.F90
co2_teb_garden_initn.F90
default_prep_teb_garden.F90
diag_cpl_esm_water.F90
diag_teb_garden_initn.F90
garden.F90
get_adj_mes_lonlatval.F90
get_mesh_dim_lonlatval.F90
get_sfxcpln.F90
ini_surf_csts.F90
init_teb_gardenn.F90
interpol_sbl.F90
isba_albedo.F90
latlonmask_lonlatval.F90
modd_assim_garden.F90
modd_diag_teb_gardenn.F90
modd_gr_biog_gardenn.F90
modd_snow_metamo.F90
mode_gauss_index.F90
modn_assim_garden.F90
modn_prep_isba_carbon.F90
modn_prep_teb_snow.F90
modn_write_cover_tex.F90
pgd_gauss_index.F90
pgd_topo_index.F90
prep_teb_garden.F90
prep_teb_garden_canopy.F90
prep_teb_garden_unif.F90
put_rad_watn.F90
read_default_surf_atm.F90
read_gridtype_lonlatval.F90
read_nam_gridtype_lonlatval.F90
read_nam_pgd_orography.F90
read_namelist_prep_gardenn.F90
carbon_litter.F90
coupling_icefluxn.F90
diag_cpl_esm_isba.F90
diag_surf_budgetc_sea.F90
ecume_flux.F90
garden_properties.F90
get_grid_coord_lonlatval.F90
get_mesh_index_lonlatval.F90
gregod.F90
init_from_data_grdn.F90
init_water_sbl.F90
interpol_sst_mth.F90
isba_properties.F90
modd_agri_garden.F90
modd_data_teb_gardenn.F90
modd_flood_par.F90
modd_point_overlay.F90
modd_teb_garden_canopyn.F90
mode_gridtype_lonlatval.F90
modn_deepsoil_garden.F90
modn_prep_isba_snow.F90
modn_soiltemp_arp.F90
nitro_carbon_decline.F90
pgd_teb_garden.F90
prep_flake_ascllv.F90
prep_teb_garden_ascllv.F90
prep_teb_garden_extern.F90
prep_ver_teb_garden.F90
put_sfxcpln.F90
read_default_teb_gardenn.F90
read_isba_conf.F90
read_nam_pgd_cover.F90
read_nam_write_cover_tex.F90
read_namelist_prep_isban.F90

	read_namelist_prep_seafluxn.F90	read_namelist_prep_surfn.F90	read_namelist_prep_tebn.F90
	read_namelist_prep_watfluxn.F90	read_namelists_dst.F90	read_namelists_flaken.F90
	read_namelists_garden.F90	read_namelists_gardenn.F90	read_namelists_idealn.F90
	read_namelists_io.F90	read_namelists_isba.F90	read_namelists_isban.F90
	read_namelists_seafluxn.F90	read_namelists_sl_t.F90	read_namelists_surf.F90
	read_namelists_surfn.F90	read_namelists_tebn.F90	read_namelists_watfluxn.F90
	read_pgd_cover_garden.F90	read_pgd_teb_garden_parn.F90	read_pgd_teb_gardenn.F90
	read_precipn.F90	read_prep_garden_snow.F90	read_prep_isba_carbon.F90
	read_prep_teb_garden_conf.F90	read_prep_teb_snow.F90	read_surf_atm_conf.F90
	read_teb_garden_canopyn.F90	read_teb_garden_conf.F90	read_teb_garden_conf.F90
	read_teb_gardenn.F90	rw_precipn.F90	snowcro.F90
	snowcroupgrid.F90	spinup_wood_biomass.F90	teb_garden.F90
	town_presence.F90	update_esm_isban.F90	update_esm_seafluxn.F90
	update_esm_surf_atmn.F90	update_esm_watfluxn.F90	update_rad_isban.F90
	update_rad_seawat.F90	vegt_to_patch_grid_grdn.F90	write_diag_pgd_grdnn.F90
	write_gridtype_lonlatval.F90	writesurf_precipn.F90	writesurf_teb_gardenn.F90
surfex/offlin/assim	ini_assim.F90	oi_acsolw.F90	oi_bc_soil_moisture.F90
	oi_cacsts.F90	oi_cavegi.F90	oi_fctveg.F90
	oi_jacobians.F90	oi_kalman_gain.F90	oi_latlon_conf_proj.F90
	oi_tsl.F90	trans_chaine.F90	
surfex/offlin	close_fileout_ol.F90	fill_id_ol.F90	get_date_ol.F90
surfex/offlin/init	init_coupling_surf_trip_n.F90	init_io_surf_binn.F90	init_io_surf_lfin.F90
	init_io_surf_oln.F90	init_io_surf_txtn.F90	init_outfn_flaken.F90
	init_outfn_isban.F90	init_outfn_sean.F90	init_outfn_surf_atmn.F90
	init_outfn_tebn.F90	init_outfn_watern.F90	init_surf_tripn.F90
	init_write_bin.F90	init_write_txt.F90	
surfex/offlin/io	close_aux_io_surf_lfi.F90	close_aux_io_surf_ol.F90	close_file_lfi.F90
	close_file_ol.F90	close_namelist_lfi.F90	close_namelist_ol.F90
	close_write_cover_tex_lfi.F90	create_file.F90	def_var_netcdf.F90
	end_io_surf_lfin.F90	end_io_surf_oln.F90	get_conf_isban.F90
	get_dimlen_netcdf.F90	get_grid_conf_isban.F90	get_offline_conf.F90
	handle_err.F90	lfiget_luout.F90	ol_read_atm.F90
	ol_read_atm_ascii.F90	ol_read_atm_binary.F90	ol_read_atm_conf.F90
	ol_read_atm_conf_ascii.F90	ol_read_atm_conf_netcdf.F90	ol_read_atm_netcdf.F90

	open_aux_io_surf_lfi.F90	open_aux_io_surf_ol.F90	open_close_bin_asc_forc.F90
	open_file_lfi.F90	open_file_ol.F90	open_namelist_lfi.F90
	open_namelist_ol.F90	open_write_cover_tex_lfi.F90	read_surf_atm.F90
	read_surf_lfi.F90	read_surf_ol.F90	read_topo_sgh.F90
	write_header_mnh.F90	write_surf_bin.F90	write_surf_lfi.F90
	write_surf_ol.F90	write_surf_txt.F90	
surfex/offlin	main_carb_spinup.F90	main_wood_spinup.F90	modd_read_namelist.F90
surfex/offlin/module	modd_io_surf_lfi.F90	modd_io_surf_ol.F90	modd_ol_fileid.F90
	modd_write_bin.F90	modd_write_txt.F90	modn_io_offline.F90
surfex/offlin	oi_hor_extrapol_surf.F90	ol_find_file_read.F90	ol_find_file_write.F90
	openclose_filein_ol.F90		
surfex/offlin/phys	compare_orography.F90	coupling_surf_tripn.F90	mode_coupling_var_isba_trip.F90
	ncpost.F90	offline.F90	ol_alloc_atm.F90
	ol_time_interp_atm.F90	prep_coupling_surf_trip_n.F90	prep_surf_trip.F90
surfex/offlin	read_all_namelist.F90		
surfex/pgd	arpege_stretch_a.F90	arrange_cover.F90	av_pgd.F90
	average1_cover.F90	average1_mesh.F90	average1_orography.F90
	average2_cover.F90	average2_mesh.F90	average2_orography.F90
	convert_cover_frac.F90	cover301_573.F90	data_parameters.F90
	default_grid.F90	default_schemes.F90	detect_field.F90
	ecoclimap2_lai.F90	get_adj_mes_cart.F90	get_adj_mes_conf_proj.F90
	get_adj_mes_gauss.F90	get_adj_mes_ign.F90	get_adj_mes_lonlat_reg.F90
	get_adjacent_meshes.F90	get_covern.F90	get_grid_coord.F90
	get_grid_coord_cartesian.F90	get_grid_coord_conf_proj.F90	get_grid_coord_gauss.F90
	get_grid_coord_ign.F90	get_grid_coord_lonlat_reg.F90	get_grid_dim.F90
	get_grid_dim_cartesian.F90	get_grid_dim_conf_proj.F90	get_grid_dim_gauss.F90
	get_grid_dim_lonlat_reg.F90	get_jcovern.F90	get_latlonmaskn.F90
	get_lcovern.F90	get_mesh_dim.F90	get_mesh_dim_cartesian.F90
	get_mesh_dim_conf_proj.F90	get_mesh_dim_gauss.F90	get_mesh_dim_ign.F90
	get_mesh_dim_lonlat_reg.F90	get_mesh_index.F90	get_mesh_index_conf_proj.F90
	get_mesh_index_gauss.F90	get_mesh_index_ign.F90	get_mesh_index_lonlat_reg.F90
	get_near_meshes.F90	get_near_meshes_cartesian.F90	get_near_meshes_conf_proj.F90
	get_near_meshes_gauss.F90	get_near_meshes_ign.F90	get_near_meshes_lonlat_reg.F90
	grid_from_file.F90	grid_modif.F90	grid_modification_cartesian.F90

grid_modification_conf_proj.F90
ini_data_cover.F90
ini_ssowork.F90
latlon_grid.F90
latlon_gridtype_gauss.F90
latlonmask.F90
latlonmask_ign.F90
modd_data_cover.F90
modd_get_mesh_index_gauss.F90
modd_pgdwork.F90
mode_cover_301_573.F90
mode_gridtype_cartesian.F90
mode_gridtype_ign.F90
modn_pgd_schemes.F90
pack_grid_cartesian.F90
pack_grid_ign.F90
pack_pgd_soil.F90
pgd_cover.F90
pgd_field.F90
pgd_grid_io_init.F90
pgd_surf_atm.F90
read_covern.F90
read_gridtype_conf_proj.F90
read_gridtype_lonlat_reg.F90
read_nam_gridtype.F90
read_nam_gridtype_gauss.F90
read_nam_pgd_dummy.F90
read_pgd_schemes.F90
snow_cover_1layer.F90
temporal_dists.F90
update_data_cover.F90
write_cover_tex_end.F90
write_ecoclimap2_data.F90
write_gridtype_conf_proj.F90

hor_interpol_latlon.F90
ini_data_param.F90
init_pgd_surf_atm.F90
latlon_gridtype_cartesian.F90
latlon_gridtype_ign.F90
latlonmask_cartesian.F90
latlonmask_lonlat_reg.F90
modd_data_cover_par.F90
modd_grid_conf_proj.F90
mode_char2real.F90
mode_eggangles.F90
mode_gridtype_conf_proj.F90
mode_gridtype_lonlat_reg.F90
orography_filter.F90
pack_grid_conf_proj.F90
pack_grid_lonlat_reg.F90
pgd_bathyfield.F90
pgd_dummy.F90
pgd_frac.F90
pgd_orography.F90
pt_by_pt_treatment.F90
read_gridtype.F90
read_gridtype_gauss.F90
read_latlon.F90
read_nam_gridtype_cartesian.F90
read_nam_gridtype_ign.F90
read_nam_pgd_seabathy.F90
refresh_pgdwork.F90
splines.F
temporal_lts.F90
write_cover_tex.F90
write_cover_tex_start.F90
write_grid.F90
write_gridtype_gauss.F90

hor_interpol_rotlatlon.F90
ini_data_soil.F90
interp_grid.F90
latlon_gridtype_conf_proj.F90
latlon_gridtype_lonlat_reg.F90
latlonmask_conf_proj.F90
latlontoxy1d.F90
modd_dummy_surf_fieldsn.F90
modd_ign.F90
mode_cover.F90
mode_geo_gauss.F90
mode_gridtype_gauss.F90
mode_write_cover_tex.F90
pack_grid.F90
pack_grid_gauss.F90
pack_pgd.F90
pgd_chemistry.F90
pgd_ecoclimap2_data.F90
pgd_grid.F90
pgd_sea.F90
read_arrange_cover.F90
read_gridtype_cartesian.F90
read_gridtype_ign.F90
read_lcover.F90
read_nam_gridtype_conf_proj.F90
read_nam_gridtype_lonlat_reg.F90
read_pgd_arrange_cover.F90
regular_grid_spawn.F90
subscale_aos.F90
treat_field.F90
write_cover_tex_cover.F90
write_data.F90
write_gridtype_cartesian.F90
write_gridtype_ign.F90

	write_gridtype_lonlat_reg.F90	writesurf_covern.F90	writesurf_dummys.F90
	writesurf_sson.F90	zoom_pgd_cover.F90	zoom_pgd_isba.F90
	zoom_pgd_isba_full.F90	zoom_pgd_nature.F90	zoom_pgd_orography.F90
	zoom_pgd_sea.F90	zoom_pgd_surf_atm.F90	zoom_pgd_teb.F90
surfex/prep	zoom_pgd_town.F90	zsfilter.F90	
	adapt_horibl_surf.F90	bilin.F90	clean_prep_output_grid.F90
	coef_ver_interp_lin_surf.F90	hor_extrapol_surf.F90	hor_interp.F90
	hor_interp_arome.F90	hor_interp_buffer.F90	hor_interp_cartesian.F90
	hor_interp_conf_proj.F90	hor_interp_gauss.F90	hor_interp_none.F90
	horibl_surf.F90	interp_3pts.F90	interp_field.F90
	interp_splines.F90	modd_prep_snow.F90	mode_read_buffer.F90
	mode_read_cdf.F90	mode_read_extern.F90	mode_read_grib.F90
	mode_read_netcdf_mercator.F90	prep_buffer_grid.F90	prep_ctrl_ideal.F90
	prep_ctrl_surf_atm.F90	prep_grib_grid.F90	prep_grid_cartesian.F90
	prep_grid_conf_proj.F90	prep_grid_extern.F90	prep_grid_gauss.F90
	prep_hor_ocean_field.F90	prep_hor_ocean_fields.F90	prep_hor_snow_field.F90
	prep_hor_snow_fields.F90	prep_ocean_netcdf.F90	prep_ocean_unif.F90
	prep_output_grid.F90	prep_perm_snow.F90	prep_sea.F90
	prep_snow_buffer.F90	prep_snow_extern.F90	prep_snow_grib.F90
	prep_snow_unif.F90	prep_sst_init.F90	prep_surf_atm.F90
	prep_ver_snow.F90	read_prep_file_date.F90	read_prep_surf_atm_conf.F90
	ver_interp_lin_surf.F90		
surfex/sea/init	default_prep_seaflux.F90	ini_ocean_csts.F90	init_from_data_seafluxn.F90
	init_seafluxn.F90	init_sean.F90	init_sltn.F90
	pack_pgd_seaflux.F90	pgd_seaflux.F90	pgd_seaflux_par.F90
	prep_ctrl_seaflux.F90	prep_hor_seaflux_field.F90	prep_seaflux.F90
	prep_seaflux_buffer.F90	prep_seaflux_extern.F90	prep_seaflux_grib.F90
	prep_seaflux_netcdf.F90	prep_seaflux_sbl.F90	prep_seaflux_unif.F90
	prep_ver_seaflux.F90	read_pgd_seaflux_parn.F90	read_pgd_seafluxn.F90
	read_prep_seaflux_conf.F90	writesurf_pgd_seaf_parn.F90	writesurf_pgd_seafluxn.F90
	zoom_pgd_seaflux.F90		
surfex/sea/module	modd_ch_seafluxn.F90	modd_data_seafluxn.F90	modd_diag_oceann.F90
	modd_diag_seafluxn.F90	modd_ocean_gridn.F90	modd_oceann.F90
	modd_seaflux_gridn.F90	modd_seaflux_sbl.F90	modd_seafluxn.F90

surfex/sea/phys	modd_slt_surf.F90 modn_seafluxn.F90 coare30_flux.F90 coupling_seaflux_sbl.F90 dealloc_seafluxn.F90 default_sltm.F90 diag_seaflux_initn.F90 diag_surf_budget_sea.F90 goto_wrapper_ocean.F90 mixtln.F90 mode_slt_surf.F90 put_zs_sean.F90 read_oceann.F90 read_seaflux_date.F90 read_slt_confm.F90 slt_init_names.F90 treat_bathyfield.F90 write_diag_seb_oceann.F90 write_sean.F90 writesurf_seaflux_sblm.F90	modd_sltm.F90 modn_slt.F90 coare30_seaflux.F90 coupling_seafluxn.F90 default_diag_seaflux.F90 diag_inline_oceann.F90 diag_seafluxn.F90 flag_update.F90 goto_wrapper_seaflux.F90 mod1dn.F90 mode_sltmbl.F90 read_default_seafluxn.F90 read_pre_seaf_dat_conf.F90 read_seaflux_sblm.F90 slt_dep.F90 slt_velgrav1d.F90 write_diag_seafluxn.F90 write_diag_seb_seafluxn.F90 writesurf_oceann.F90 writesurf_seafluxn.F90	modn_prep_seaflux.F90 coupling_seaflux_orography.F90 coupling_sltm.F90 default_seaflux.F90 diag_inline_seafluxn.F90 diag_sean.F90 get_var_sean.F90 ice_sea_flux.F90 mode_coare30_psi.F90 ocean_mercatorvergrid.F90 read_default_sltm.F90 read_seaflux_confm.F90 read_seafluxn.F90 slt_init_modes.F90 sst_update.F90 write_diag_sean.F90 write_seafluxn.F90 writesurf_seaflux_confm.F90
surfex/surf_atm/init	ch_init_depconst.F90 init_surf_atmn.F90	ch_init_emissionn.F90	ch_init_names.F90
surfex/surf_atm/module	modd_ch_emis_fieldn.F90 modd_co2v_par.F90 modd_forc_atm.F90 modd_surf_atm_gridn.F90 modd_svm.F90 modn_surf_atmn.F90	modd_ch_surfn.F90 modd_diag_surf_atmn.F90 modd_gr_biogn.F90 modd_surf_atm_sson.F90 modn_chs_orilam.F90	modd_chs_aerosol.F90 modd_emis_gr_fieldn.F90 modd_surf_atm.F90 modd_surf_atmn.F90 modn_surf_atm.F90
surfex/surf_atm/phys	add_forecast_to_date_surf.F90 average_diag.F90 ch_aer_dep.F90 ch_bvocemn.F90 coupling_inland_watern.F90 coupling_surf_atmn.F90	alloc_diag_surf_atmn.F90 average_flux.F90 ch_aer_emission.F90 ch_emission_fluxn.F90 coupling_naturen.F90 coupling_townn.F90	alloc_surfex.F90 average_rad.F90 ch_aer_velgrav1d.F90 ch_open_inputb.F90 coupling_sean.F90 dealloc_diag_surf_atmn.F90

	dealloc_surf_atmn.F90	dealloc_surfex.F90	default_ch_bio_flux.F90
	default_ch_dep.F90	default_ch_surf_atm.F90	default_diag_surf_atm.F90
	default_sso.F90	default_surf_atm.F90	default_write_surf_atm.F90
	diag_inline_surf_atmn.F90	diag_surf_atmn.F90	forcing_vert_shift.F90
	goto_surfex.F90	goto_wrapper_surfatm.F90	mode_aer_surf.F90
	mode_modeln_surfex_handler.F90	modn_sso.F90	pack_same_rank.F90
	put_zs_surf_atmn.F90	put_zsn.F90	read_default_surf_atmn.F90
	sso_z0_friction_n.F90	test_nam_var_surf.F90	unpack_same_rank.F90
	unpack_same_rank2.F90	write_diag_seb_surf_atmn.F90	write_diag_surf_atmn.F90
	write_surf_atmn.F90	writesurf_atm_confn.F90	writesurf_ch_emisn.F90
surfex/teb/init	default_prep_teb.F90	diag_teb_initn.F90	init_from_data_tebn.F90
	init_tebn.F90	init_townn.F90	pgd_teb.F90
	pgd_teb_par.F90	pgd_town.F90	prep_ctrl_teb.F90
	prep_hor_teb_field.F90	prep_teb.F90	prep_teb_buffer.F90
	prep_teb_canopy.F90	prep_teb_extern.F90	prep_teb_grib.F90
	prep_teb_unif.F90	prep_town.F90	prep_ver_teb.F90
	read_pgd_teb_parn.F90	read_pgd_tebn.F90	read_prep_teb_conf.F90
	read_prep_teb_date_conf.F90	writesurf_pgd_teb_parn.F90	writesurf_pgd_tebn.F90
surfex/teb/module	modd_ch_tebn.F90	modd_data_tebn.F90	modd_diag_misc_tebn.F90
	modd_diag_tebn.F90	modd_prep_teb.F90	modd_teb_canopyn.F90
	modd_teb_gridn.F90	modd_tebn.F90	modn_prep_teb.F90
	modn_tebn.F90		
surfex/teb/phys	averaged_albedo_teb.F90	averaged_tsrاد_teb.F90	bld_e_budget.F90
	ch_dep_town.F90	convert_cover_teb.F90	coupling_teb_orographyn.F90
	coupling_tebn.F90	dealloc_tebn.F90	dealloc_townn.F90
	default_diag_teb.F90	default_teb.F90	diag_inline_tebn.F90
	diag_misc_tebn.F90	diag_surf_budget_teb.F90	diag_tebn.F90
	diag_townn.F90	flxsurf3bx.F	get_var_townn.F90
	goto_wrapper_teb.F90	put_zs_townn.F90	read_default_tebn.F90
	read_teb_canopyn.F90	read_teb_confn.F90	read_teb_date.F90
	read_tebn.F90	rnc01_surf.F90	road_wall_layer_e_budget.F90
	roof_layer_e_budget.F90	teb.F90	teb_canopy.F90
	urban_drag.F90	urban_exch_coef.F90	urban_fluxes.F90
	urban_hydro.F90	urban_lw_coef.F90	urban_snow_evol.F90

	urban_solar_abs.F90	write_cover_tex_teb.F90	write_diag_misc_tebn.F90
	write_diag_seb_tebn.F90	write_diag_tebn.F90	write_diag_townn.F90
	write_tebn.F90	write_townn.F90	writesurf_teb_canopyn.F90
	writesurf_teb_confn.F90	writesurf_tebn.F90	
surfex/trip	get_lonlat_trip.F90		
surfex/trip/init	init_diag_tripn.F90	init_param_tripn.F90	init_restart_tripn.F90
	init_trip_par.F90	init_tripn.F90	prep_trip.F90
surfex/trip/module	modd_diag_tripn.F90	modd_trip_gridn.F90	modd_trip_par.F90
	modd_tripn.F90	modn_tripn.F90	
surfex/trip/phys	default_trip.F90	diag_tripn.F90	flood_update.F90
	get_conf_tripn.F90	get_grid_conf_tripn.F90	get_trip_sizen.F90
	goto_trip.F90	goto_wrapper_trip.F90	mode_convert.F90
	mode_grid_trip.F90	mode_modeln_trip_handler.F90	mode_rw_trip.F90
	mode_trip_function.F90	mode_trip_init.F90	mode_trip_netcdf.F90
	read_nam_grid_trip.F90	read_trip_confn.F90	restart_tripn.F90
	trip.F90	trip_gound_water.F90	trip_interface.F90
	trip_surface_water.F90	trip_surface_water_flood.F90	trip_surface_water_velvar.F90
surfex/trip	read_namlists_tripn.F90		
surfex/water/init	default_prep_watflux.F90	init_inland_watern.F90	init_watfluxn.F90
	modn_prep_watflux.F90	pgd_inland_water.F90	pgd_watflux.F90
	prep_ctrl_watflux.F90	prep_hor_watflux_field.F90	prep_inland_water.F90
	prep_ver_watflux.F90	prep_watflux.F90	prep_watflux_buffer.F90
	prep_watflux_extern.F90	prep_watflux_grib.F90	prep_watflux_sbl.F90
	prep_watflux_unif.F90	read_pgd_watfluxn.F90	read_prep_watflux_conf.F90
	writesurf_pgd_watfluxn.F90	zoom_pgd_inland_water.F90	
surfex/water/module	modd_ch_watfluxn.F90	modd_diag_watfluxn.F90	modd_water_par.F90
	modd_watflux_gridn.F90	modd_watflux_sbln.F90	modd_watfluxn.F90
	modn_watfluxn.F90		
surfex/water/phys	ch_dep_water.F90	coupling_watflux_orographyn.F90	coupling_watflux_sbln.F90
	coupling_watfluxn.F90	dealloc_inland_watern.F90	dealloc_watfluxn.F90
	default_diag_watflux.F90	default_watflux.F90	diag_inland_watern.F90
	diag_inline_watfluxn.F90	diag_surf_budget_water.F90	diag_watflux_initn.F90
	diag_watfluxn.F90	get_var_watern.F90	goto_wrapper_watflux.F90
	mr98.F90	put_zs_inland_watern.F90	read_default_watfluxn.F90

read_pre_watf_dat_conf.F90	read_watflux_conf.F90	read_watflux_date.F90
read_watflux_sbIn.F90	read_watfluxn.F90	water_flux.F90
write_cover_tex_water.F90	write_diag_inland_watern.F90	write_diag_seb_watfluxn.F90
write_diag_watfluxn.F90	write_inland_watern.F90	write_watfluxn.F90
writesurf_watflux_conf.F90	writesurf_watflux_sbIn.F90	writesurf_watfluxn.F90

Doc:

- 1) Optimized version of Surfex6 (called surfex6+) .
- 2) Cleanings of mse, in order to separate it from mpa and arp projects (remove some use modules).
- 3) Optimisations for AROME done during the benchmark.
- 4) Merge of AROME 36t1_op2 devs (parallel suite).
- 5) Contributions from ARPEGE-Climat (mainly in surfex and in radiation code [calculation of MU0 at t+dt for coupling with Surfex and modifications in radheat to update solar fluxes between two consecutive full radiation calls]).

Project: aladin,arpege,Meso-NH physique altitude,algebre linéaire,auxiliaire

ClearCase branch: mrpm637_CY37_aro_37pour37t1_v2

Added:

mpa/micro/externals	aroini_frommpa.f90		
mpa/micro/interface	aroini_frommpa.h		
xrd/programs	facat.F90		
xrd/support	isrchfge.body.h	isrchfge.decl.h	isrchfltpv.body.h
	isrchfltpv.decl.h		

Modified:

ald/c9xx	ebicli.F90		
ald/fullpos	extfpezo.F90	fpezone.F90	incfpezo.F90
ald/setup	suebicu.F90		
arp/adiab	cpg.F90	cpg_dia.F90	cpphinp.F90
arp/control	cnt4.F90		
arp/dia	aro_surf_diagh.F90	cpdyddh.F90	cpxfu.F90
	inifaout.F90	ppopen.F90	wrcfupp.F90
	wrmlppa.F90	wrspeca.F90	wrxfupp.F90
arp/fullpos	fpcica.F90	hpos.F90	sufptr2.F90
	sufpxfu.F90	wrhfp.F90	wrsfp.F90

arp/module	ptrxfu.F90 yomct0.F90 yomrip.F90	yomafn.F90 yommp.F90 yomxfu.F90	yomarphy.F90 yomparar.F90
arp/namelist	namafn.h nampar1.h	namarphy.h namparar.h	namct0.h namxfu.h
arp/ocean	wrcpl.F90		
arp/phys_dmn	acradin.F90 hl_aplpar.F90 radaer.F90 suphmse.F90	apl_arome.F90 mf_phys.F90 recmwf.F90	aplpar.F90 mf_physad.F90 suparar.F90
arp/phys_ec	callparad.F90 radintg.F90	radheat.F90 radlsw.F90	radina.F90
arp/pp_obs	ppltp.F90		
arp/setup	su0phy.F90 suafn1.F90 suct0.F90 sumpini.F90 suxfu.F90	su0yomb.F90 suafn2.F90 sugrida.F90 sumpioh.F90	su_surf_flds.F90 suafn3.F90 sump0.F90 suspeca.F90
arp/utility	pkgrida.F90 updtim.F90	pkspeca.F90 wrgp2fa.F90	pksurfa.F90
mpa/conv/internals	convect_trigger_shal.f90		
mpa/micro/externals	aro_adjust.f90	aro_rain_ice.f90	aroini_frommpa.f90
mpa/micro/interface	aro_adjust.h	aro_rain_ice.h	aroini_frommpa.h
mpa/micro/internals	condensation.f90	ice_adjust.f90	rain_ice.f90
mpa/micro/module	modi_condensation.f90	modi_ice_adjust.f90	modi_rain_ice.f90
mpa/turb/externals	aro_turb_mnh.f90		
mpa/turb/interface	aro_turb_mnh.h		
mpa/turb/internals	compute_updraft.f90		
mpa/turb/module	modi_turb.f90		
xla/internal/minim	mlis0r.F		
xrd/eclite	n_compat.F		
xrd/fa	faicor.F		
xrd/include	isrchfltpv.body.h	isrchfltpv.decl.h	
xrd/programs	facat.F90	splitgrib.F	

xrd/support

isrchfge.body.h

isrchfge.decl.h

Doc:

1) Renaming of MITM in MLSM (asked by Karim).

arp/module/yomparar.F90

arp/phys_dmn/suparar.F90

arp/phys_dmn/suphmse.F90

arp/setup/sugrida.F90

2) Protection in edkf scheme (to prevent 0 divide).

mpa/turb/internals/compute_bl89_ml.F90

3) Initialisation at 0 of tendencies from turbulence.

Correction of a bug in radiation fluxes passed to surfex.

Correction of unit problem in wind stress saved in output files.

arp/phys_dmn/apl_arome.F90

1) Bugfix for SURFRESEV.NEIGE activated in AROME in parallel suite CY36T1_op2 .

2) Remove surfex/sea/phys/coupling_seaflux_sbl.F90, and move surfex/new/coupling_seaflux_sbln.F90 to directory surfex/sea/phys .

Project: arpege,surfex

ClearCase branch: mrpm637_CY37_aromebf

Renamed:

surfex/new coupling_seaflux_sbln.F90 to surfex/sea/phys/coupling_seaflux_sbln.F90

Deleted:

surfex/sea/phys coupling_seaflux_sbl.F90

Modified:

arp/module yomparar.F90

arp/phys_dmn apl_arome.F90 suparar.F90 suphmse.F90

arp/setup su_surf_fds.F90 sugrida.F90 sumpioh.F90

mpa/turb/internals compute_bl89_ml.f90

Doc:

Bugfix for snow schemes different of 'D95'. Results not modified when using D95 (as in AROME and ALADIN-oper).

Project:
ClearCase branch: mrpm637_CY37_bfpourv6

Modified:
surfex/isba/phys e_budget.F90

Doc:

arp/control/cnt4.F90 : bugfix for surfex at diagnostic time step
arp/fullpos/endpos.F90 : bugfix for Fullpos array over-writing
arp/phys_dmn/apl_arome.F90 : bugfix when runing AROME without aerosols (NAER=0)
mse/externals/aro_ground_param.F90 : bugfix for implicit coupling with Surfex
surfex/isba/init/read_prep_isba_conf.F90 : bugfix for preparation of init surfex file
surfex/new/read_namelists_surfn.F90 : bugfix for SSO friction
surfex/surf_atm/init/init_surf_atmn.F90 : idem
surfex/surf_atm/module/modd_surf_atm_sson.F90 : idem
surfex/surf_atm/phys/coupling_surf_atmn.F90 : idem
xrd/fa/fa_mod.F : bugfix for Fullpos array over-writing

Rename surfex/sea/phys/coupling_seaflux_sbIn.F90 to surfex/sea/phys/coupling_seaflux_sbl.F90 .

Project: arpege,Meso-NH surface,,auxiliaire
ClearCase branch: mrpm637_CY37_bfspourv5

Renamed:
surfex/sea/phys coupling_seaflux_sbIn.F90 to surfex/sea/phys/coupling_seaflux_sbl.F90

Modified:

arp/control	cnt4.F90	
arp/fullpos	endpos.F90	
arp/phys_dmn	apl_arome.F90	surf_ideal_flux.F90
mse/externals	aro_ground_param.F90	
surfex/isba/init	read_prep_isba_conf.F90	
surfex/new	read_namelists_surfn.F90	
surfex/surf_atm/init	init_surf_atmn.F90	
surfex/surf_atm/module	modd_surf_atm_sson.F90	
surfex/surf_atm/phys	coupling_surf_atmn.F90	
xrd/fa	fa_mod.F	

Doc:

ald/adiab/elascaw.F90:
Bugfix in CANARI (Mohamed Jidane).

ald/setup/suemp.F90:
Due to changes in iostream_mix in cy37 some initializations (now mandatory before reading grib files) were missing in LAM case.

arp/adiab/spcimpfsolve.F90
arp/adiab/spcimpfsolvead.F90:
Module YOMLAP was declared twice.

arp/control/cfcsens2obs.F90:
Module PARKIND1 was declared twice.

arp/op_obs/hdepart.F90:
Module YOMCOCTP was declared twice.

arp/op_obs/slintad.F90:
Bugfix (Mohamed Jidane).

arp/phys_dmn/acvppkf.F90:
Bugfix discovered during benchmark (François Bouyssel).

arp/setup/su_surf_flds.F90:
This fix was done in order not to activate SUNSHI.DURA in AROME case.

odb/pandor/module/bator_ecriptions_mod.F90:
Fix for solid/liquid humidity (Mohamed Jidane).

surfex/surf_atm/init/init_surf_atmn.F90
surfex/surf_atm/phys/sso_z0_friction_n.F90:
Fix namelist initialisation variable.

arp/io_serv/yomio_serv_hdr.F90
utility/wrgp2fa_compress.F90
utility/wrgp2fa_compress_mt.F90:
Declare CDSUFF (LEN=16) instead of (LEN=12) to correct truncated fieds name in FA files.

Project: aladin,arpege,odb,surfex
ClearCase branch: mrpm637_CY37_pourv4

Modified:

ald/adiab	elascaw.F90	
ald/setup	suemp.F90	
arp/adiab	spcimpfsolve.F90	spcimpfsolvead.F90
arp/control	cfcsens2obs.F90	
arp/io_serv	yomio_serv_hdr.F90	
arp/op_obs	hdepart.F90	slintad.F90
arp/phys_dmn	acvppkf.F90	
arp/setup	su_surf_flds.F90	
arp/utility	wrgp2fa_compress.F90	wrgp2fa_compress_mt.F90
odb/pandor/module	bator_ecritures_mod.F90	
surfex/surf_atm/init	init_surf_atmn.F90	
surfex/surf_atm/phys	sso_z0_friction_n.F90	

SPANIEL Oida

Doc:

Miscellaneous bugfixes.

Project: arpege,transformées aladin
ClearCase branch: mrpe693_CY37_fix0102

Modified:

arp/adiab	call_sl.F90	cpg.F90
arp/dfi	dfi2.F90	
arp/phys_dmn	acdifv3.F90	acptke.F90
arp/setup	sudim1.F90	
tal/external	esetup_trans.F90	

TAILLEFER Francoise

Doc:

- 1) Fix computation of obs-ana in CANARI when LDIRCLSMOD is activated.
- 2) Fix array overflows in CANARI .
- 3) Fix in "OI_MAIN": read "TEB" fields in ALADIN OI_MAIN.

Project: arpege,Meso-NH surface
ClearCase branch: mrpa647_CY37_ftdbl

Modified:

arp/canari casmswi.F90
arp/module gmv_subs_mod.F90
arp/op_obs cobs.F90
mse/programs oi_main.F90

Doc:

Update surface analysis in SURFEX (OI_MAIN).

Project: Meso-NH surface,
ClearCase branch: mrpa647_CY37_ftoi

Modified:

mse/programs oi_main.F90
surfex/offlin/assim ini_assim.F90 oi_acsolw.F90 oi_cacsts.F90
oi_tsl.F90
surfex/offlin oi_hor_extrapol_surf.F90

TROJAKOVA Alena

Doc:

1) Additional modifications

Two additional modifications were provided from Prague team at the beginning of the validations to be included both in the reference and pre-cycle (CY37 T1).

* *arp/setup/sudyn.F90* change of default value for parameter *SLHDRATDDIV* to 1.0 *JPRB* (recommendation by Filip Vana)

* *arp/phys/dmn/aplpar.F90* two lines marked by *!fix* were deleted accidentally during last phasing. The lines concern downdraft evaporation to be subtracted from precipitations (after call to *ACMODO*): these lines are present in *CY35* and should stay. (bug and fix found by Radmila Brozkova)

```
! -----  
! UPDATE VARIABLES BY DOWNDRAUGHT CONTRIBUTION  
! -----  
!  
DO JLEV=KTDIA,KLEV  
  DO JLON=KIDIA,KFDIA  
  ! UPDATE CONVECTIVE DIFFUSION AND EVAPORATION FLUXES  
  ! -----  
  PDIFCS(JLON,JLEV) =PDIFCS(JLON,JLEV) +ZDIFCSD(JLON,JLEV)  
  PDIFCQ(JLON,JLEV) =PDIFCQ(JLON,JLEV) +ZDIFCQD(JLON,JLEV)  
  PDIFCQL(JLON,JLEV)=PDIFCQL(JLON,JLEV)+ZDIFCQLD(JLON,JLEV)  
  PDIFCQI(JLON,JLEV)=PDIFCQI(JLON,JLEV)+ZDIFCQID(JLON,JLEV)  
  PSTRCU(JLON,JLEV)=PSTRCU(JLON,JLEV)+ZSTRUCUD(JLON,JLEV)  
  PSTRCV(JLON,JLEV)=PSTRCV(JLON,JLEV)+ZSTRCVD(JLON,JLEV)  
  PFPLSL(JLON,JLEV)=PFPLSL(JLON,JLEV)-PFPEVPCL(JLON,JLEV) !fix  
  PFPLSN(JLON,JLEV)=PFPLSN(JLON,JLEV)-PFPEVPCN(JLON,JLEV) !fix  
  ENDDO  
ENDDO  
CALL ACUPD(KIDIA,....
```

2) Missing branch

Based on the analysis of the source code and debugging it was found that the branch *mrpe684_CY36T1_3mtbf* was not included both in

the reference and CY37T1. This was also confirmed by Olivier Riviere. So the branch was phased.

- * arp/phys dmn/acmodo.F90 - correction of downdraft sigma, protection on possible evaporation

- * arp/phys dmn/acupd.F90 - correction of evaporating fluxes computation due to downdraft

3) Duplication of GPNORMS print

During validation it was noticed that "GPNORMS OF FIELDS TO BE WRITTEN OUT ON FILE" print is duplicated in the forecast configuration listing. A fix was provided by Philippe MARGUINAUD.

- * arp/utility/wrgp2fa.F90

4) Bugfix for PTKE

Filip Vana provided the modifications related to the optimization of NPROMA, bug fixies for PTKE (fixed ACPTKE, added missing computation of Richardson number to ACHMT necessary for ACMIXLEN).

- * ald/setup/suemp.F90 - optimization of NPROMA

- * arp/setup/su0phy.F90

- * arp/phys dmn/acptke.F90

- * arp/pp obs/ppobsac.F90

- * arp/phys dmn/achmt.F90

- * arp/phys dmn/actkehmt.F90

- * arp/phys dmn/acmripp.F90

- * arp/phys dmn/hl aplpar.F90

- * arp/canari/caclsi.F90

- * arp/fullpos/fpachmt.F90

- * arp/phys dmn/aplpar.F90

5) DDH - fix of the old dataflow in case of ALARO

This fix provided by Radmila Brozkova restores development made originally by Tomislav Kovacic in 2007. It defines physical fluxes according to new interface by Catry et al (2007) and coded in cptend new.F90, plus it defines their position in DHCV array. It should be cleaned up when new dataflow in DDH is reliable.

New decks:

- * arp/module/yomphft.F90

- * arp/dia/addft.F90

- * arp/dia/iniapft bp002.F90

Modified decks:

- * arp/dia/sualtdh.F90
- * arp/dia/ppfidh.F90

Project: aladin,arpege
ClearCase branch: mrpe694_CY37_abf

Added:

arp/dia addft.F90 iniapft_bp002.F90
arp/module yomphft.F90

Modified:

ald/setup suemp.F90
arp/canari caclsi.F90
arp/dia addft.F90 iniapft_bp002.F90 ppfidh.F90
sualtdh.F90
arp/fullpos fpachmt.F90
arp/module yomphft.F90
arp/phys_dmn achmt.F90 acmodo.F90 acmripp.F90
acptke.F90 actkehmt.F90 acupd.F90
aplpar.F90 hl_aplpar.F90
arp/pp_obs ppobsac.F90
arp/setup su0phy.F90 sudyn.F90
arp/utility wrgp2fa.F90

VANA Filip

Doc:

- 1) ald/setup/suemp.F90: the use of OpenMP is made transparent via the OML module also for the non OpenMP compilations.
- 2) arp/phys_dmn/acdifv3.F90 : Corrected moist computation of suspended water and ice making thus available LDIFCONS option also

for the

third order momentum terms (TOMs) computation.

- 3) *arp/phys_dmn/acptke.F90 : Securing the TOMs related code to be entered only when LCOEFK_TOMS=.TRUE. .*
- 4) *arp/phys_dmn/actkehmt.F90 : Adapting the new extension of ACHMT for ACNTCLS computation to the TKE scheme.*
- 5) *arp/setup/su0phy.F90 : Ensuring that TOMs computation is only allowed with the full TKE scheme and TKE-related mixing length.*
- 6) *arp/setup/sudyn.F90 : Fix of the conceptual bug in SLHD setup. The new situation ensures, that when SLHD is applied only to GFL fields, there are no consequences for spectral diffusion applied to GMV quantities.
Note that this modification WILL CHANGE AROME OPERATIONAL SETUP. Thus in order to preserve the previous (and bugged) situation there, please force SDRED=1 in NAMDYN .*

- 1) *Move OpenMP directives inside the IF block (one line higher) (espcm.F90) .*
- 2) *Miscellaneous phasing fixes.*

Project: aladin,arpege
ClearCase branch: mrpe706_CY37_fix1

Modified:

ald/control	espcm.F90		
ald/setup	suemp.F90		
arp/module	yomphy.F90		
arp/namelist	namphy.h		
arp/phys_dmn	acdifv3.F90	acptke.F90	actkehmt.F90
	aplpar.F90		
arp/setup	su0phy.F90	sudyn.F90	

Doc:

- 1) *Bugfix of automatic NPROMA optimization for LAM domains with extended functionalities namely for OpenMP and vector platforms.*
- 2) *Complete inclusion of TOUCANS (= Alaro turbulence scheme) including its revisited moist Richardson number computation, new mixing lengths consistent with Ri, shallow convection scheme, third order momentum terms and its eventual "3D extension".*

Project: aladin,arpege
ClearCase branch: mrpe706_CY37_toucans

Added:

arp/phys_dmn	acdifv3.F90 actkehmt.F90	acmripp.F90	actkecoefk.F90
--------------	-----------------------------	-------------	----------------

Modified:

ald/setup	suemp.F90		
arp/module	yomphy.F90	yomphy0.F90	yomqnse.F90
arp/namelist	namphy.h	namphy0.h	
arp/phys_dmn	acdifus.F90 acmixelen.F90 actkecoefk.F90 suphy0.F90	acdifv2.F90 acmripp.F90 actkehmt.F90	acdifv3.F90 acptke.F90 aplpar.F90
arp/setup	su0phy.F90		

VARELLA Hubert**Doc:**

This branch allows a normal and controled exit, instead of aborting the program, when the wavelet statistics file is written.

Project: arpege

ClearCase branch: marp003_CY37_mrpm627_sujbwavelet_normalexit

Modified:

arp/var sujbwavelet.F90

VOITUS Fabrice

Doc:

[Missing...]

Project: arpege,auxiliaire
ClearCase branch: mrpm630_CY37_ddhflex2D

Modified:

arp/adiab	cpg_dia.F90	cptend_new.F90	
arp/dia	cpcuddh.F90	cpdyddh.F90	cpphddh.F90
	cpphddhe.F90	ppeddh.F90	ppeddhec.F90
	ppfidh.F90	ppsydh.F90	sunddh.F90
	zeroddh.F90		
arp/function	fcttrm.h		
arp/module	yomsddh.F90	yomtddh.F90	
arp/phys_dmn	aplpar.F90	mf_phys.F90	
xrd/module	ddh_mix.F90		

YESSAD Karim

Doc:

- 1) Fixes allowing to run `LPC_FULL=.TRUE.` with pseudo-GFL (non-advected).
- 2) Minor cleanings.

- 1) Fix dimension of arrays `PDELZ/ZDELZ` (`0:NFLV+1 -> 1:NFLV`).
- 2) Rename array `PDIFSV` to `PDIFEXT` (NB: no more passive scalars since the introduction of "GFL", so "SV" extension has to

disappear and to be replaced by "EXT").

Project: arpege
ClearCase branch: mrpm603_CY37_bf5a

Modified:

arp/adiab	cptend_new.F90		
arp/setup	suctrl_gflattr.F90	sudefo_gflattr.F90	
arp/utility	espareordx.F90	spreordx.F90	spreordx.F90
arp/var	inflation_pert.F90	inflcalc.F90	

Doc:

Modification code:

- COUPL : improve coupling setup in a more OOPS-oriented design (less modules, encapsulated set-up routines); new modules ELBC0A_MOD, ELBC0B_MOD, ELBC3_MOD.*
- DELARGFMR15: remove useless dummy arguments (labelled with 'Argument NOT used') in FMR15 + minor cleanings.*
- FPGPFILTER : introduce multi-linear horizontal interpolations in FULL-POS, in order to increase filtering via interpolations when the local output resolution is coarser than the input one.*
- FPSPFILTER : introduce the mapping factor in the spectral filtering of FULLPOS when the input geometry is a spherical stretched one; it is expected to allow to abandon the use of external filtering matrices.*
- INTDYN : introduction of new structures in the dynamics, with some collateral modifications in the physics-dynamics interface; additionally:*
 - redimension arrays ..DELP.. with 1:NFLEVG when dimensioned with 0:NFLEVG+1 (overdimensions are useless).*
 - reduce the number of dummy arguments of routines called under CPG and CALL_SL (and also in the TL and AD codes) by using the new structures created.*
 - fix residual bugs for deep-layer NH equations.*
 - pass GFL, GMV to MF_PHYS and CPG_DIA and not individual fields contained in GFL, GMV.*
 - allow (LPC_FULL,LPC_CHEAP)=(T,F) with not advected GFL, and with non-zero diabatic tendency for vertical divergence variable.*
 - more flexible use of option LSVTSM.*
 - simplified GPRCP.*

- remove NPROMT, replace it by NPROMA.
- merge of some routines (especially some computing derivatives).
- miscellaneous cleanings.

NETINTOBSA : introduce a new key in the surface dataflow (SURFACE_FIELDS_MIX) to say if fields are active, and use this key in MODULE_OBB1_MIX in order not to interpolate not allocated surface fields in the observation interpolator.

NETMODU : reduce excessive modularisation.

- in-line CMAC in CNMI (+ TL, AD)
- in-line SPCH and ESPCH in STEPO (+ TL, AD)
- call SPNORMBM instead of SPNORMBL; remove SPNORMBL
- in-line WRMLPPL in IOPACK
- in-line VTRANM in MO3DPRJ (+ AD)
- in-line SUCMA in SUOAF
- in-line COPYGOM5T0 in CPGOM5T0
- in-line DFI1 in DFI
- in-line REDATE in DFI2
- in-line WMCUM in CPG_DIA
- simplify organigramme under (E)WMOVPH
- in-line SUFPDIM in SUFPC
- in-line WHICHPROC in SUPHMSE
- in-line SUGEM in SU0YOMB
- in-line JCCOMP in COSJC
- in-line SUALMP0 in SUMPINI
- in-line SU0DMINIT in SUMPINI
- in-line SUESPE0 in its callers

NETPCOLD : remove variable LPC_OLD (YOMCTO/NAMCTO/SUCTO/SUMPINI)

NETM : remove information about modifications done before 01/01/2001.

NETS : cosmetic cleanings.

OBSOLETE : remove obsolete (unused) decks.

FIVA_CA : contribution "cellular automaton" of Filip Vana.

FIVA_3DTURB: contribution "3DTURB" of Filip Vana.

FAV0_DDHDYN: contribution "DDHDYN" of Fabrice Voitus (DDH diagnostics).

ORI_QCPROG : contribution "QCPROG" of Olivier Riviere.

Modifications in namelists:

COUPL:

- new namelist elements NEMELBC0A and NEMELBC0B.
- NEMCT0 variables other than LEQLIMSAT go in NEMELBC0A.
- NEMSPCPL variables go in NEMELBC0A.
- ZEPA (formerly in NEMBICU) goes in NEMELBC0B, but it would be desirable

- to remove it from namelists since all applications use default values.*
- *d4-NH namelists: when NBICVD appears, NBICNHX must be added with the same value.*
- *TEFRCL (formerly in NEMDYN) goes in NEMELBC0B.*
- *NEMBICU and NEMSPCPL disappear.*

other modifications:

new variables have been introduced with the right defaults allowing to reproduce the old results.

Influence on the results:

None or purely numerical differences excepted for

- *NH with LRWSDLR=T, LGWADV=F: bugs corrected.*
- *ALADIN-NH with ND4SYS=2: bug corrected in lateral coupling.*
- *some grid-point "q" with DFI ALARO and ALADIN jobs: bug corrected in DFI2.*

Other remarks:

Additional requirements about moving ALD routines from one directory to another one (these movings have been done in branch mrpm603_CY37_dev37pour37t1):

- Move elsrw.F90 from ald/inidata to ald/coupling*
- Move elswa3.F90 from ald/inidata to ald/coupling*
- Move epak3w.F90 from ald/inidata to ald/coupling*
- Move epak3wsp.F90 from ald/inidata to ald/coupling*
- Move erlbc.F90 from ald/inidata to ald/coupling*
- Move esc2r.F90 from ald/inidata to ald/coupling*
- Move esc2rad.F90 from ald/inidata to ald/coupling*
- Move elsac.F90 from ald/inidata to ald/setup*
- Move elsin.F90 from ald/inidata to ald/setup*
- Move elsirf.F90 from ald/inidata to ald/setup*
- Move espfp.F90 from ald/dia to ald/fullpos*
- After that, remove directory ald/inidata*

Project: aladin,arpege,biper,algebre linéaire

ClearCase branch: mrpm603_CY37_dev37pour37t1

Added:

ald/coupling	elsrw.F90	elswa3.F90	epak3w.F90
	epak3wsp.F90	erlbc.F90	esc2r.F90
	esc2rad.F90	espcpl.F90	espsc2r.F90
	etenc.F90		

ald/fullpos	esfpf.F90		
ald/setup	elsac.F90	elsin.F90	elsirf.F90
arp/adiab	cp_ptrslb1.F90	cpg_pt_ulp.F90	gp_tndlagadiab_uv.F90
	larche2.F90	larche25.F90	larche2ad.F90
	larche2tl.F90		
arp/ald_inc/namelist	nemelbc0a.h	nemelbc0b.h	
arp/control	cuconvca.F90		
arp/fullpos	sufpuf.F90		
arp/module	elbc0a_mod.F90	elbc0b_mod.F90	elbc3_mod.F90
	intdyn_mod.F90		
xla/interface	mxtрма.h		
xla/internal/lanczos	allgather_ctlvec_lanczos.F90		

Deleted:

ald/dia	esfpf.F90		
ald/inidata	elsac.F90	elsin.F90	elsirf.F90
	elsrw.F90	elswa3.F90	epak3w.F90
	epak3wsp.F90	erlbc.F90	esc2r.F90
	esc2rad.F90		

Modified:

ald/adiab	elarche.F90	elarche5.F90	elarchead.F90
	elarchetl.F90	elarmes.F90	elarmes5.F90
	elarmesad.F90	elarmestl.F90	elascaw.F90
	espchor.F90	espcsi.F90	espnhsi.F90
ald/c9xx	ebicli.F90	echk923.F90	ecoptra.F90
	eganiso.F90	eincli1.F90	eincli2.F90
	eincli3.F90	eincli4.F90	eincli5.F90
	eincli6.F90	eincli7.F90	eincli9.F90
	einclib.F90	einclir.F90	einter0.F90
	einter1.F90	einter10.F90	einter2.F90
	einter6.F90	einter8.F90	eintfac.F90
	elislap.F90		
ald/control	espch.F90	espchad.F90	espcm.F90
	espcmad.F90		

ald/coupling	ecoupl1.F90 elsrw.F90 epak3wsp.F90 esc2rad.F90 espcpl.F90 esrlxt1ad.F90	ecoupl1ad.F90 elswa3.F90 erlbc.F90 eseimpls.F90 espsc2r.F90 etenc.F90 ewrimova.F90	elsin0ta.F90 epak3w.F90 esc2r.F90 eseimplsad.F90 esrlxt1.F90
ald/dia	ewmovph.F90	exarp.F90	exbip.F90
ald/fullpos	esfpf.F90 extfpezo.F90 fpfillb.F90 prefpbipos.F90 suehow1.F90 sufpezo.F90	fpezo2h.F90 incfpezo.F90 suefpbip.F90 suehow2.F90	fpezone.F90 posfpbipos.F90 suefp3.F90 suehowlsm.F90
ald/parallel	egathereigmd.F90		
ald/setup	elsac.F90 suebicu.F90 suecuv.F90 suegeo1.F90 suelap.F90 suempvar.F90 suespe0.F90	elsin.F90 suebig.F90 suedim.F90 suegeo2.F90 suello.F90 sueorog.F90 suezone.F90	elsirf.F90 suect0.F90 suedyn.F90 suehdf.F90 suemp.F90 suesc2.F90
ald/sinvect	echnorm.F90 suelcz.F90	erdtllcz.F90	ewrtllcz.F90
ald/transform	ereespe.F90 esperee_der.F90 etransinv_nhconv.F90	esperad.F90 espuv.F90 etransinvh.F90	esperee.F90 etransinv_md1.F90
ald/utility	cchien.F90 sp7to3.F90	deello.F90	espareord.F90
ald/var	ebalvert.F90 ebalvertiad.F90 ecvaru2iad.F90 ejghcori.F90 moevar.F90 suejbcov.F90	ebalvertad.F90 ecosjr.F90 edog.F90 escaljgs.F90 suejbbal.F90 suejbdad96.F90	ebalverti.F90 ecvaru2i.F90 ejghcor.F90 ewrlsgrad.F90 suejbcor.F90 suejbstad.F90

arp/adiab

suejbtest.F90
call_sl.F90
cp_ptrs1b1.F90
cpeuldynad.F90
cpg.F90
cpg2ad.F90
cpg2lagtl.F90
cpg5_gp.F90
cpg_dyn_ad.F90
cpg_gp.F90
cpg_gpb_nhgeogw.F90
cpgad.F90
cpglagtl.F90
cppfttcdir.F90
cpphinpad.F90
cptend_new.F90
cptendsmad.F90
cputqys.F90
cpwts.F90
gnhgrdlr.F90
gp_kappa.F90
gp_tndlagadiab_uv.F90
gpctytl.F90
gpgeoad.F90
gpgrgeoad.F90
gpgrp.ad.F90
gpgrvcrs.F90
gpgrxybtl.F90
gphlvtl.F90
gpmprfc.F90
gppref.F90
gppretl.F90
gprcpad.F90
gprh_2d.F90

suescal.F90
call_sl_ad.F90
cpedia.F90
cpeuldyntl.F90
cpg2.F90
cpg2lag.F90
cpg2tl.F90
cpg_dia.F90
cpg_dyn_tl.F90
cpg_gp_ad.F90
cpg_pt_ulp.F90
cpglag.F90
cpgtl.F90
cppfttcdinv.F90
cpphinptl.F90
cptends.F90
cptendsmtl.F90
cputqysad.F90
gnh_tndlagadiab_gw.F90
gnhgrgw.F90
gp_kappaad.F90
gpcty.F90
gpendtr.F90
gpgeotl.F90
gpgrgeotl.F90
gpgrptl.F90
gpgrxyb.F90
gphluv.F90
gpmktend.F90
gppre.F90
gpprefad.F90
gppvo.F90
gprcptl.F90
gprhad.F90

call_sl_tl.F90
cpeuldyn.F90
cpfhpf.F90
cpg25.F90
cpg2lagad.F90
cpg5.F90
cpg_dyn.F90
cpg_end.F90
cpg_gp_tl.F90
cpg_zero_ad.F90
cpglagad.F90
cpmvvps.F90
cpphinp.F90
cptend.F90
cptendsm.F90
cputqy.F90
cputqystl.F90
gnh_tndlagadiab_uvs.F90
gnhx.F90
gp_kappatl.F90
gpctyad.F90
gpgeo.F90
gpgrgeo.F90
gpgrp.F90
gpgrvcmus.F90
gpgrxybad.F90
gphluvad.F90
gpmktendad.F90
gppread.F90
gppreftl.F90
gprcp.F90
gprh.F90
gptco3.F90

gptenc.F90
gptf1ad.F90
gpvcmus.F90
gpxyb.F90
lacdyn.F90
lacdynshwad.F90
ladine.F90
laidi.F90
laidliad.F90
lainor2.F90
laitliad.F90
laitre_gmv_ad.F90
laitriad.F90
lapinea.F90
lapineatl.F90
lapinebtl.F90
larche25.F90
larche5.F90
larcin2.F90
larcina.F90
larcinb.F90
larcinbtl.F90
larmes.F90
larmes2tl.F90
larmestl.F90
lascaw_clo.F90
lassie.F90
lattes.F90
lattex.F90
lattexad.F90
lavent.F90
postphy.F90
sigamad.F90
sitnu.F90

gptet.F90
gptf2.F90
gpvcrs.F90
gpxybad.F90
lacdynad.F90
lacdynshwtl.F90
ladinead.F90
laiddiad.F90
laidlic.F90
lainor2ad.F90
laitre_gfl.F90
laitre_gmv_tl.F90
laitritl.F90
lapinea5.F90
lapineb.F90
larche.F90
larche2ad.F90
larchead.F90
larcin2ad.F90
larcinaad.F90
larcinb5.F90
larcinha.F90
larmes2.F90
larmes5.F90
lascaw.F90
lascawad.F90
lasure.F90
lattesad.F90
lattex_dnt.F90
lattextl.F90
laventad.F90
sidd.F90
siptp.F90
sitnuad.F90

gptf1.F90
gptf2ad.F90
gpvcts.F90
gpxybtl.F90
lacdynshw.F90
lacyntl.F90
ladinetl.F90
laidditl.F90
laidlicad.F90
lainor2tl.F90
laitre_gmv.F90
laitri.F90
lanhsi.F90
lapineaad.F90
lapinebad.F90
larche2.F90
larche2tl.F90
larchetl.F90
larcin2tl.F90
larcinatl.F90
larcinbad.F90
larcinhb.F90
larmes2ad.F90
larmesad.F90
lascaw_cla.F90
lascawtl.F90
latte_kappa.F90
lattestl.F90
lattex_tnt.F90
lavabo.F90
laventtl.F90
sigam.F90
siseve.F90
spc2.F90

	spc2ad.F90	spchor.F90	spchorad.F90
	spsci.F90	spsciad.F90	specrt.F90
	spnhsi.F90		
arp/ald_inc/namelist	nembicu.h	nemct0.h	nemdyn.h
	nemelbc0a.h	nemelbc0b.h	nemspcpl.h
arp/c9xx	aplm1g.F90	chk923.F90	coptra.F90
	ganiso.F90	grtestr.F90	gtoptx2.F90
	gtoptxy.F90	gtopty2.F90	incli0.F90
	incli1.F90	incli2.F90	incli3.F90
	incli4.F90	incli5.F90	incli6.F90
	incli7.F90	incli9.F90	inclib.F90
	inclir.F90	inipz.F90	inirp.F90
	inter10.F90	inter6.F90	lislap.F90
	locmaxi.F90	prspl2.F90	relnew.F90
	relspe.F90	sid1.F90	sid2.F90
	simrel.F90	sualclia.F90	val923.F90
arp/canari	caapar.F90	cabane.F90	cabiyo.F90
	caclsi.F90	caclsst.F90	cacova.F90
	cacsts.F90	caeincw.F90	caidgu.F90
	caifc1.F90	cainsu.F90	caissedm.F90
	calice.F90	calico.F90	calincw.F90
	calver.F90	camelo.F90	canada.F90
	canali.F90	canami.F90	cancer.F90
	canife.F90	caohis.F90	capdgu.F90
	capito.F90	capotx.F90	caraco.F90
	carcfo.F90	casgqa.F90	casgra.F90
	caspia.F90	cassva.F90	catrma.F90
	cavegi.F90	caviar.F90	caviso.F90
arp/climate	updccl.F90	updcalsec.F90	updcli.F90
	updclic.F90	updnud.F90	updo3ch.F90
	updsst.F90		
arp/control	cdsta.F90	cgr1.F90	cmac.F90
	cmacad.F90	cmactl.F90	cnmi.F90
	cnmiad.F90	cnmitl.F90	cnt0.F90

	cnt1.F90	cnt2.F90	cnt3.F90
	cnt3ad.F90	cnt3tl.F90	cnt4.F90
	cnt4ad.F90	cnt4tl.F90	cprep4.F90
	csta.F90	cuconvca.F90	cva1.F90
	gp_model.F90	ini1scan2m.F90	monio.F90
	monvar.F90	reressf.F90	scan2h.F90
	scan2had.F90	scan2htl.F90	scan2m.F90
	scan2mad.F90	scan2mtl.F90	sim4d.F90
	spc2m.F90	spc2mad.F90	spch.F90
	spchad.F90	spcm.F90	spcmad.F90
	stepo.F90	stepoad.F90	stepotl.F90
	tesadj.F90	testli.F90	
arp/dfi	cosp.F90	dfi.F90	dfi1.F90
	dfi2.F90	dfi2mod.F90	dfi3.F90
	difsp.F90	digfil.F90	dolfil.F90
	reast.F90	redate.F90	sudfi.F90
	sufw.F90	suini.F90	zeroacu.F90
arp/dia	chkevo.F90	cpangm.F90	cpcfu.F90
	cpcuddh.F90	cpdyddh.F90	cpnudg.F90
	cpphddh.F90	cpphddhe.F90	cpxfu.F90
	cumcoe.F90	dealdyn_ddh.F90	fpgpnorm.F90
	fpspnorm.F90	gpiniddh.F90	gpinither.F90
	gptcnorm.F90	inifaout.F90	posddh.F90
	ppclose.F90	ppeddh.F90	ppfidh.F90
	ppopen.F90	pregrbenc.F90	spnorm.F90
	spnormave.F90	spnormb.F90	spnormbe.F90
	spnormbl.F90	spnormbm.F90	sualdyn_ddh.F90
	suechk.F90	sumddh.F90	sunddh.F90
	suppdate.F90	wmcum.F90	wmovieh.F90
	wmovph.F90	wrbudg.F90	wrcfupp.F90
	wrfu.F90	wrimoph.F90	wrimova.F90
	wrmlpp.F90	wrmlppa.F90	wrmlppg.F90
	wrmlppl.F90	wrmlpplg.F90	wrsltraj2.F90
	wrspec.F90	wrtcfou.F90	wrxfu.F90

arp/fullpos

wrxfupp.F90
cpclimi.F90
dynfpos.F90
extfpf.F90
fpcordyn.F90
fpgeo.F90
fpint12.F90
fpintphy.F90
fposhor.F90
gridfpos.F90
pregpfpos.F90
sc2wrgfp.F90
spos.F90
subfpos.F90
sufpconf.F90
sufpdyn.F90
sufpg1.F90
sufpios.F90
sufprfpbuf.F90
sufpsc2_dep.F90
sufpuf.F90
sufpwide.F90
suhow2.F90
sumpfpos_dep.F90
suvpos.F90
wrhfp.F90
wrplfp.F90
wrthlfp.F90
balads.F90
elbc0a_mod.F90
gfl_subs_mod.F90
module_obb1_mix.F90
type_gfls.F90
yemct0.F90

arp/kalman
arp/module

cpgridf.F90
endpos.F90
fpachmt.F90
fpcorphy.F90
fphor12.F90
fpint4.F90
fpmodprec.F90
fpsampl.F90
hpos.F90
rdclimo.F90
specfita.F90
su4fpos.F90
sufpc.F90
sufpd.F90
sufpf.F90
sufpg2.F90
sufpoph.F90
sufprfpds.F90
sufpsuw.F90
sufpwpfbuf.F90
sufpxfu.F90
suhowlsm.F90
suvfpos.F90
updvpos.F90
wrmlfp.F90
wrpvlf.F90
baladsm.F90
elbc0b_mod.F90
gmv_subs_mod.F90
ptrslb2.F90
type_gmvs.F90
yemct3.F90

cpvpospr.F90
endvpos.F90
fpcliphy.F90
fpfilter.F90
fpiniphy.F90
fpintdyn.F90
fpnilphy.F90
fpscaw.F90
ini2wrfp.F90
rdecclimo.F90
specfitg.F90
sualfpos.F90
sufpcfu.F90
sufpdim.F90
sufpg.F90
sufpgrib.F90
sufpphy.F90
sufpsc2.F90
sufptr2.F90
sufpwpfds.F90
suhow1.F90
sumpfpos.F90
suvfposl.F90
vpos.F90
wrmlfpl.F90
wrsfp.F90
elbc3_mod.F90
intdyn_mod.F90
surface_fields_mix.F90
yembicu.F90
yemdim.F90

	yemdyn.F90	yemgt3b.F90	yemspbc.F90
	yemspcpl.F90	yoe_cuconvca.F90	yomct0.F90
	yomcver.F90	yomdimt.F90	yomdyn.F90
	yomdyna.F90	yomfpc.F90	yomfpd.F90
	yomfpc.F90	yomfpg.F90	yomgpddh.F90
	yomlddh.F90	yomleg.F90	yommddh.F90
	yommp.F90	yomsimpl.F90	yomspddh.F90
	yomwfpb.F90		
arp/namelist	namca.h	namct0.h	namddh.h
	namdyn.h	namdyna.h	namfpc.h
	namfpc.h	namsimppl.h	
arp/nmi	fltmode.F90	fltmodead.F90	houspe3.F90
	houspe3ad.F90	mo3dprj.F90	mo3dprjad.F90
	moprj.F90	moprjad.F90	moprjm.F90
	moprjmad.F90	multf.F90	multfad.F90
	mvtend.F90	mvtendad.F90	nnmi2.F90
	nnmi2ad.F90	nnmi2tl.F90	nnmi3.F90
	nnmi3ad.F90	nnmi3tl.F90	rdpinmi.F90
	reord.F90	reordad.F90	reordo3.F90
	reordo3ad.F90	spehou3.F90	spehou3ad.F90
	speimp.F90	speimpad.F90	sualltt.F90
	sumode3.F90	sumode3i.F90	sumode3l.F90
	sunmi.F90	vmodeenergy.F90	vtran.F90
	vtranad.F90	vtranm.F90	vtranmad.F90
arp/obs_preproc	biascor.F90	biascor_era40.F90	black.F90
	blacksat.F90	blinit.F90	decis.F90
	defrun.F90	dupli.F90	dupli_no_sq.F90
	fgchk.F90	fgwnd.F90	first.F90
	flgdco.F90	flgdmx.F90	flgdse.F90
	gefger.F90	gersta_v.F90	mkglobstab.F90
	new_thinn.F90	nflgdse.F90	ngedeve.F90
	ngedsta.F90	ngenada.F90	ngereve.F90
	ngersta.F90	obadat.F90	obatabs.F90
	obsprep.F90	post_prsta.F90	pre_prsta.F90

	prsta.F90	rd_obs_boxes.F90	readoba.F90
	redts.F90	redun.F90	selec.F90
	settc.F90	stord.F90	sualobs.F90
	sualscre.F90	sudimo.F90	sufglim.F90
	suobarea.F90	suobs.F90	suobsort.F90
	suscre0.F90	suscre1.F90	thibox.F90
	updobs.F90	verco.F90	
arp/ocean	inicou.F90	sipc_attach.F90	sipc_init_model.F90
	sipc_read_model.F90	sipc_write_model.F90	sugco0.F90
	wrcoe.F90		
arp/op_obs	bgobs.F90	cobs.F90	cobsad.F90
	cobslag.F90	cobslagad.F90	cobstl.F90
	emis_ir.F90	exchco.F90	exchcoad.F90
	exhcotl.F90	hjo.F90	hop.F90
	hopad.F90	hoptl.F90	hradp.F90
	hradp_ml.F90	hradp_ml_tl.F90	hradptl.F90
	hretr.F90	hvnmtlt.F90	laiddiobs.F90
	mpobseq.F90	mpobseq_pack.F90	mpobseqad.F90
	mpobseqad_unpck.F90	nox2no2.F90	nox2no2ad.F90
	nox2no2tl.F90	obshor.F90	obshorad.F90
	obsv.F90	obsvad.F90	obsvtl.F90
	post_obshor.F90	pre_obshorad.F90	preint.F90
	preint2dad.F90	preint2dtl.F90	preintad.F90
	preintr.F90	preints.F90	preintsad.F90
	preintstl.F90	preintttl.F90	rad1cemis.F90
	rad1cobe.F90	radtr.F90	radtr_ml.F90
	radtr_ml_ad.F90	radtr_ml_tl.F90	radtrad.F90
	radtrk.F90	radtrtl.F90	rousea.F90
	rouseaad.F90	rouseatl.F90	slint.F90
	slintad.F90	surbound.F90	surboundad.F90
	surboundtl.F90		
arp/parallel	brptob.F90	casnd1.F90	casndr1.F90
	commfce2.F90	commjbbal.F90	commjbbdat.F90
	commspnorm.F90	commspnorm1.F90	ddhrcv.F90

arp/phys_dmn

ddhsnd.F90
disgridfp.F90
diwrfof.F90
diwrgrid_surf_ext.F90
dresddh.F90
gathercost2.F90
gatherfreq.F90
gatherspa.F90
gathflnm.F90
rdpxfa.F90
slcomm2a.F90
slextpolad.F90
trmtos.F90
trvtoh.F90
accoefk.F90
acconvtl.F90
accvimpd.F90
acdifsp.F90
acdifsptl.F90
acdrag.F90
acdragltl.F90
acdrov.F90
aclspad.F90
acnebn.F90
acozone.F90
acqwlsr.F90
acradcoef.F90
acradsad.F90
actqsat.F90
actsecad.F90
acvppkf.F90
aplparad.F90
hl_aplpar.F90
lw15.F90

disfou.F90
disspec0.F90
diwrgrfp.F90
dladdh.F90
gatherbdy.F90
gathercosto.F90
gathergom.F90
gatherl.F90
gpnorm1.F90
slcomm.F90
slcset.F90
slrset.F90
trmtov.F90
trwvtof.F90
acconv.F90
accvimp.F90
accvud.F90
acdifspad.F90
acdifus.F90
acdragl.F90
acdrme.F90
acevolet.F90
aclspstl.F90
acnebr.F90
acpluie.F90
acqwlsrad.F90
acradin.F90
acraneb.F90
actqsats.F90
actsectl.F90
aplpar.F90
aplparad.F90
hlradia.F90
lwb15.F90

disgrid.F90
distddh.F90
diwrgrid.F90
dmaddh.F90
gathercost1.F90
gatherigmd.F90
gatherjcvrt.F90
gatherl.F90
pe2set.F90
slcomm2.F90
slextpol.F90
sutag.F90
trstom.F90

acconvad.F90
accvimp_v3.F90
acdifo.F90
acdifspad.F90
acdrac.F90
acdraglad.F90
acdro.F90
achmt.F90
acmodo.F90
acntcls.F90
acpluis.F90
acqwlsrtl.F90
acrads.F90
acsol.F90
actsec.F90
acveg.F90
aplpar.F90
aplparstl.F90
hlvcbr.F90
lwbv15.F90

arp/phys_ec

lwc15.F90
lwvb15.F90
mf_phys.F90
mf_phystl.F90
radheat15.F90
rfmr.F90
suphy0.F90
suphy3.F90
sw1s15.F90
swu15.F90
aer_climg.F90
callparad.F90
cond.F90
cpspe.F90
cuascn.F90
cubasen.F90
cucallntl.F90
cuddrafnad.F90
cudlfsnad.F90
cudtdqn2.F90
cudtdqnad.F90
cududv2ad.F90
cududvtl.F90
cuflixnad.F90
cuinin2.F90
cuininad.F90
cumastrnad.F90
ec_phys.F90
gwdrag.F90
gwdragtl.F90
gwprofiltl.F90
gwsetuptl.F90
o3chem.F90
phys_tl.F90

lwu15.F90
lwvd15.F90
mf_phys_prep.F90
radaer.F90
radlsw15.F90
suphmf.F90
suphy1.F90
sutoph.F90
sw2s15.F90

aer_clist.F90
callpartl.F90
condad.F90
cuadjtq.F90
cuascnad.F90
cucalln.F90
cuddrafn.F90
cuddrafnntl.F90
cudlfsntl.F90
cudtdqn2ad.F90
cudtdqntl.F90
cududv2tl.F90
cuflix2.F90
cuflixntl.F90
cuinin2ad.F90
cuinintl.F90
cumastrntl.F90
ec_phys_ad.F90
gwdragad.F90
gwprofil.F90
gwsetup.F90
heldsuarez.F90
phys_ad.F90
radaca.F90

lww15.F90
lwvn15.F90
mf_physad.F90
raddiag15.F90
recmwf.F90
suphmse.F90
suphy2.F90
sw15.F90
swr15.F90

callpar.F90
cloud.F90
condtl.F90
cuadjtqs.F90
cuascntl.F90
cucallnad.F90
cuddrafn2.F90
cudlfsn.F90
cudtdqn.F90
cudtdqn2tl.F90
cududv.F90
cududvad.F90
cuflixn.F90
cuinin.F90
cuinin2tl.F90
cumastrn.F90
custrat.F90
ec_phys_tl.F90
gwdrags.F90
gwprofilad.F90
gwsetupad.F90
idisgpf.F90
phys_nl.F90
radact.F90

arp/phys_radi

radcfg.F90
radheat.F90
radheattl.F90
radlsw.F90
radlswtl.F90
stochadiaten.F90
suclopn.F90
suwcou.F90
vdfdifhs.F90
vdfdifm.F90
vdfdifmstl.F90
vdfincr.F90
vdfmainsad.F90
wvcouple.F90
wvxf2gb.F90
lw.F90
lwbv.F90
lwttm.F90
lwvb.F90
lwwn.F90
rrtm_rtrn1a_140gp.F90
rrtm_taumol10.F90
rrtm_taumol13.F90
rrtm_taumol16.F90
rrtm_taumol4.F90
rrtm_taumol7.F90
suaerl.F90
suecso4.F90
sulwn.F90
sw.F90
sw1stl.F90
swclrad.F90
swdead.F90
swniad.F90

raddiag.F90
radheatad.F90
radina.F90
radlswad.F90
radozc.F90
suaerh.F90
suecaec.F90
updtier.F90
vdfdifhsad.F90
vdfdifms.F90
vdfexcu.F90
vdfmain.F90
vdfmainstl.F90
wvrg2xf.F90
lwai.F90
lwc.F90
lwu.F90
lwwbr.F90
lwwnr.F90
rrtm_rtrn1a_140gp_mcica.F90
rrtm_taumol11.F90
rrtm_taumol14.F90
rrtm_taumol2.F90
rrtm_taumol5.F90
rrtm_taumol8.F90
suaersn.F90
suecso4his.F90
surdi.F90
sw1s.F90
swad.F90
swclrtl.F90
swdetl.F90
swnitl.F90

raddrv.F90
radheatn.F90
radinatl.F90
radlswr.F90
radpar.F90
suaerv.F90
suphec.F90
vdfdifh.F90
vdfdifhstl.F90
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vdfexcusad.F90
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vdfouter.F90
wvrg2rg.F90
lwb.F90
lwtt.F90
lww.F90
lwvd.F90
radghg.F90
rrtm_taumol1.F90
rrtm_taumol12.F90
rrtm_taumol15.F90
rrtm_taumol3.F90
rrtm_taumol6.F90
rrtm_taumol9.F90
suecrad.F90
sulw.F90
suswn.F90
sw1sad.F90
swclr.F90
swde.F90
swni.F90
swr.F90

arp/pp_obs

swrad.F90
apache.F90
expbesuad.F90
pos.F90
ppgeop.F90
ppleta.F90
ppobsaad.F90
ppobsap.F90
ppobsastl.F90
ppobsaza.F90
pppmer.F90
ppps.F90
ppreset.F90
pprh2mad.F90
ppt2m.F90
pptcc.F90
ppuv10m.F90
ppvvel.F90
tjcubi.F90
cpledna.F90
modgrin.F90
su0yoma.F90
su2yom.F90
suafn1.F90
sualdyn.F90
sualmp1.F90
sucfu.F90
sucst.F90
sucuconv_ca.F90
sudim1.F90
sudyn_setgflattr.F90
sufame.F90
sugem.F90
sugem2.F90

arp/setup

swtl.F90
ctstar.F90
expbesutl.F90
pp2dint.F90
ppgeopad.F90
ppltp.F90
ppobsac.F90
ppobsas.F90
ppobsatl.F90
ppobsaztl.F90
pppmerad.F90
pppsad.F90
pprh.F90
pprh2mtl.F90
ppt2mad.F90
pptcctl.F90
ppuv10mad.F90
ppwetpoint.F90
tjquaa.F90
cpledna35.F90
su0dminit.F90
su0yomb.F90
su_surf_fds.F90
suafn2.F90
suallo.F90
sualmp2.F90
sucma.F90
suct0.F90
sudefo_gflattr.F90
sudim2.F90
sudyna.F90
sugawa.F90
sugem1a.F90
sugmre.F90

swuad.F90
expbesu.F90
poaero.F90
ppflev.F90
ppgeoptl.F90
ppobsa.F90
ppobsactl.F90
ppobsasad.F90
ppobsaz.F90
ppobsn.F90
pppmertl.F90
pppstl.F90
pprh2m.F90
ppt.F90
ppt2mtl.F90
ppthpw.F90
ppuv10mtl.F90
ppzhlev.F90
tjqud.F90
gawla35.F90
su0phy.F90
su1yom.F90
suafn.F90
suafn3.F90
sualmp0.F90
suarg.F90
sucmoctp.F90
suctrl_gflattr.F90
sudefo_vv1.F90
sudyn.F90
sufa.F90
sugawa35.F90
sugem1b.F90
sugpqlim.F90

	sugrcfu.F90	sugrib.F90	sugrida.F90
	sugridf.F90	sugridg.F90	sugridu.F90
	sugridua.F90	sugridug.F90	sugridug1.F90
	sugrxfu.F90	suhdf.F90	suhdir.F90
	suhdu.F90	suheg.F90	suhlrad.F90
	suinif.F90	suios.F90	sulap.F90
	sulega.F90	sulfi.F90	sulun.F90
	sumcc.F90	sump.F90	sump0.F90
	sumpini.F90	sunmen.F90	sunud.F90
	suoaf.F90	suoph.F90	suorog.F90
	suphy.F90	supp.F90	suprocgp.F90
	surand1.F90	surcof.F90	suress.F90
	surgri.F90	surip.F90	susc2a.F90
	susc2b.F90	suslb.F90	suslb2.F90
	susmap.F90	suspe0.F90	suspec.F90
	suspeca.F90	suspecb.F90	suspecg.F90
	suspecg1.F90	suspectcfou.F90	suspgpg.F90
	suspqlim.F90	susta.F90	sutrajp.F90
	suvert.F90	suvertfe.F90	suvsplip.F90
	suxfu.F90		
arp/sinvect	chnorm.F90	cun1.F90	cun2.F90
	cun3.F90	jacdav.F90	lcnorad.F90
	lcnorggad.F90	lcnorggtl.F90	lcztoald.F90
	lcztoifs.F90	nalan1.F90	nalan2.F90
	opk.F90	opm.F90	rdtlcz.F90
	scaas.F90	sulcz.F90	vdiflcz.F90
	vdiflczad.F90	vdiflcztl.F90	wrtllcz.F90
arp/transform	reespe.F90	speree.F90	speree_der.F90
	speuv.F90	transinv_mdl.F90	transinv_nhconv.F90
	transinvh.F90	uvspe.F90	
arp/utility	add3to5.F90	add5to3.F90	addbgs.F90
	allgather_ctlvec_ifsaux.F90	copygom5t0.F90	dealctv.F90
	dealddh.F90	dealfpos.F90	deallo.F90
	dealsc2.F90	dealscr.F90	dealspa.F90

arp/var

emptb.F90
freemem.F90
incgpf.F90
newfa.F90
pkspeca.F90
prtjo.F90
reftim.F90
sbsfgs.F90
sigcheck.F90
sualspa.F90
swap73.F90
wrresf.F90
balstat.F90
balvertad.F90
bgvecs.F90
chavarin.F90
congrad.F90
cosjr.F90
ctonb.F90
cvar2in.F90
cvar3ad.F90
cvaru2iad.F90
ecset_thsafe.F90
evcost.F90
getmini2.F90
jccomp.F90
jgcori.F90
jghcori.F90
jghcosi.F90
jgnrad.F90
jgnrs.F90
nmicost.F90
precond.F90
rdfpinc.F90

extgpf.F90
gpnorm2.F90
iopack.F90
openfa.F90
prepacka.F90
rdsltraj2.F90
sbs5to3.F90
sc2rdg.F90
spareord.F90
sualspa1.F90
updmoon.F90

balstatad.F90
balverti.F90
chavar.F90
chavarinad.F90
cosjc.F90
costra.F90
cvar2.F90
cvar2inad.F90
cvaru2ad.F90
deallt.F90
estsig.F90
fltbgerr.F90
getsatid.F90
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jgcoriad.F90
jghcos.F90
jghcosiad.F90
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jgnrsi.F90
nmijc.F90
preppcm.F90
rdphtrajm.F90

fillb.F90
gstats_output_ifs.F90
maxgpfv.F90
pkgrida.F90
prtgom.F90
rdspec.F90
sbsbgs.F90
sc2wrg.F90
spreord.F90
swap53.F90
updtim.F90

balvert.F90
balvertiad.F90
chavarad.F90
chkobtim.F90
cosjl.F90
ctcab.F90
cvar2ad.F90
cvar3.F90
cvaru2i.F90
ecset.F90
estsig.F90
getmini.F90
grtest.F90
jgcorad.F90
jghcor.F90
jghcosad.F90
jgnr.F90
jgnriad.F90
jgvcor.F90
nmijctl.F90
rd801.F90
rdphtrajtm.F90

	rdphtrsf.F90	rdrinc.F90	readvec.F90
	rtsetup.F90	sacmac1.F90	savhess.F90
	savmini.F90	savmini2.F90	scaleae.F90
	scaljgg.F90	scaljgs.F90	setqccma.F90
	setran.F90	sqrtdb.F90	sqrtdbad.F90
	sqrtdbin.F90	sqrtdbinad.F90	sualcos.F90
	sualctv.F90	sualges.F90	suallr.F90
	suallt.F90	suallt7.F90	sucos.F90
	suecges.F90	suhifce.F90	suhifcead.F90
	suinfce.F90	suiomi.F90	subj.F90
	subbal.F90	subcor.F90	subcosu.F90
	subcov.F90	subdat.F90	substd.F90
	subtest.F90	subvcoord.F90	subwavelet.F90
	subwavelet0.F90	subwavgen.F90	subwavvc.F90
	subwavwri.F90	subjc.F90	subjr.F90
	sumdfce.F90	supert.F90	suprecov.F90
	surad.F90	surinc.F90	suscal.F90
	susepfce.F90	sushfce.F90	suvar.F90
	suvazx.F90	suvifce.F90	suvwrk.F90
	taskob.F90	taskobad.F90	taskobtl.F90
	upspec.F90	vec2gp.F90	wrevecs.F90
	wrinc.F90	writeoba.F90	writesd.F90
	wrphtrajm.F90	wrphtrajtm.F90	wrphtrsf.F90
	xformev.F90		
bip/external	etibihie.F90	fpbipere.F90	horiz_field.F90
bip/module	esmoothe_mod.F90	espline_mod.F90	
xla/external/lanczos	gcr.F		
xla/interface	mxtrma.h		
xla/internal/lanczos	allgather_ctlvec_lanczos.F90	lanso.F	purge.F
	startv.F	stpone.F	

Doc:

Miscellaneous fixes and cleanings.

- 1) Fix for POS, necessary to post-process "w" in the hydrostatic model.
- 2) Fix for EPAK3WSP .

Project: aladin,arpege
ClearCase branch: mrpm603_CY37_t1bf

Modified:

ald/c9xx	ebicli.F90		
ald/coupling	epak3wsp.F90		
arp/adiab	cpg.F90		
arp/module	gmv_subs_mod.F90		
arp/phys_dmn	mf_phys.F90		
arp/pp_obs	pos.F90		
arp/setup	su_surf_flds.F90	suct0.F90	sudefo_gflattr.F90
	sudim1.F90		