ARPEGE MEMORANDUM

From: GCO Date: January 05, 2006
To: GMAP, COMPAS, GMGEC, GMME, DIR/RE/CRC, Mats Hamrud
Subject: New cycle CY30T1

A new cycle CY30T1 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: CY30T1
Modified libraries: arpege,aladin,mpa,mse,ifsaux,odb,utilities

Contributors:

BOUTELOUP Yves	Project:arpege CCase branch:mrpa648_CY30_b247
	Project:arpege CCase branch:mrpa648_CY30_b248b
	Project:arpege CCase branch:mrpa648_CY30_b251
	Project:arpege CCase branch:mrpa648_CY30_b252
Bernard CHAPNIK	Project:arpege CCase branch:mrpa658_CY30_jkbf
FISCHER Claude	Project:arpege CCase branch:mrpe722_CY30_none
Francoise TAILLEFER	Project:arpege CCase branch:mrpa647_CY30_db30
GCO	Project:arpege CCase branch:marp001_CY29T2_bf
	Project:arpege CCase branch:marp001_CY29T2_none
	Project:arpege CCase branch:marp001_CY29T2_op1
	Project:arpege CCase branch:marp001_CY29T2_op2
	Project:arpege CCase branch:marp001_CY30_dble
	Project:arpege CCase branch:marp001_CY30_none
Karim YESSAD	Project:arpege CCase branch:mrpm603_CY30_dev30pour30t1
	Project:arpege CCase branch:mrpm603_CY30_none
Karim Yessad	Project:arpege CCase branch:marp001_CY30_bfkarim
Marek Jerczynski	Project:arpege CCase branch:marp001_CY30_sumddh
POLI Paul	Project:arpege CCase branch:mrpa679_CY30_scr005
PUECH Dominique	Project:arpege CCase branch:mrpa660_CY30_none
	Project:arpege CCase branch:mrpa660_CY30_phas
Patrick MOLL	Project:arpege CCase branch:mrpa646_CY30_obs30_t1
Ryad El KHATIB	Project:arpege CCase branch:mrpm602_CY30_fpos
	Project:arpege CCase branch:mrpm602_CY30_ibmfix
	Project:arpege CCase branch:mrpm602_CY30_none
SEITY Yann	Project:arpege CCase branch:mrpm637_CY30_AROME
	Project:arpege CCase branch:mrpm637_CY30_SURFEX
	Project:arpege CCase branch:mrpm637_CY30_bfAROME
	Project:arpege CCase branch:mrpm637_CY30_none
VANA Filip	Project:arpege CCase branch:mrpe706_CY30_slhddefaults

BOUTELOUP Yves

Doc:

Phasage de la chaine en double version v3 (cy29t2_op2.08) sur le cy30t1.

Project: arpege
ClearCase branch: mrpa648_CY30_b247

Modified:

arp/adiab cpg.F90 cpg_dia.F90
arp/canari cacsts.F90
arp/dia cpphddh.F90 ppfidh.F90 sunddh.F90
arp/module yomphy0.F90
arp/obs_preproc blacksat.F90
arp/phys_dmn acmicro.F90 acnebn.F90 acnebsm.F90
acpluiz.F90 aplpar.F90 mf_phys.F90
qngcor.F90 suphy0.F90
arp/varrdfpinc.F90

Doc:

Modification in order to compute moisture convergence when q is grid point. Two technics are coded, first a new spectral GFL is introduced and derivatives are used. Second, Semi-Lagrangian advection of a new grid point GFL is used. This is driven by a new switch in NAMDYN: NCVGQ

NCVGQ = 0 ==> as present (q must be spectral)
NCVGQ = 1 ==> q can be grid point spectral computation is done (YCVGQ must be spectral and not advected)
NCVGQ = 2 ==> q can be grid point SL computation is done (YCVGQ must be be grid point and advected)

Validation :

NCVGQ = 0 equivalent to operationnal
NCVGQ = 1 very closed to operationnal : some difference because no horizontal diffusion are applied on GFL and derivatives are computed after horizontal diffusion
NCVGQ = 2 Running but need scientific validations and retuning of deep convection.

Project: arpege
ClearCase branch: mrpa648_CY30_b248b

Modified:

arp/adiab call_sl.F90 cpg.F90 cpphinp.F90
lapineb.F90 lattex.F90
arp/dia wrspeca.F90
arp/module yom_ygfl.F90 yomdyn.F90yomfa.F90
arp/namelist namdyn.h namfa.h namgfl.h
arp/phys_dmn mf_phys.F90 mf_physad.F90
arp/setup sudim1.F90 sudyn.F90 sufa.F90
sugfl.F90 suspeca.F90

Doc:

1/ Pouvoir faire tourner fullpos sur des fichiers historiques issus d'un run avec q point de grille.
2/ Modifications de tests dans sudyn et sudim1 afin d'éviter des call abort intempestif.

Project: arpege
ClearCase branch: mrpa648_CY30_b251

Modified:

arp/setupsudim1.F90 sudyn.F90

Doc:

To run MTS (Model To Satellite) package in CY30, ie with rttov 8 package. No impact if LMTS=.FALSE. (default)

Project: arpege
ClearCase branch: mrpa648_CY30_b252

Modified:

arp/phys_dmn mts_phys.F90
sat/rttov phrtsetup.F90

Bernard CHAPNIK

Doc:

Handle term "JK" in the setup of cost function.

Project: arpege
ClearCase branch: mrpa658_CY30_jkbf

Modified:

arp/varsucos.F90

FISCHER Claude

Doc:

Do not DEACT_CLOUD_GFL if 3DVAR FGAT for ARPEGE/ALADIN .

Project: arpege
ClearCase branch: mrpe722_CY30_none

Modified:

arp/control cva1.F90

Francoise TAILLEFER

Doc:

1) le debugging de CANARI par rapport au cycle 30
2) une modif de Jean-Daniel, correction de bug dans la geometrie ALADIN
3) le phasage des modifs de la config 923 rentrees dans la version export de CY29T2

4) le contournement d'une divison par le pas de temps introduite tres haut dans le code (et donc pb quand TSTEP=0.)

Project: arpege
ClearCase branch: mrpa647_CY30_db30

Modified:

ald/c9xx eincli2.F90 eincli3.F90 eincli4.F90
eincli5.F90 eincli6.F90 eincli7.F90
ald/module eggpack.F90
arp/c9xx incli6.F90
arp/canari calver.F90
arp/module goms.F90
arp/obs_preproc sugoms.F90
arp/pp_obs mpobseq.F90 ppobsn.F90
arp/setup sudyn.F90
odb/cma2odb ctxinitdb.F90

GCO

Doc:

Bugfixes coming from CY29T2, mainly for configuration 923 .

Project: arpege
ClearCase branch: marp001_CY29T2_bf

Added:

arp/c9xxcoord_dts.F90 ppv923.F90

Modified:

ald/c9xx eincli10.F90 eincli2.F90 eincli3.F90
eincli4.F90 eincli5.F90 eincli6.F90
eincli7.F90
ald/dia ewrimova.F90
ald/module eggangles.F90 eggmrt.F90 eggpack.F90
ald/pp_obs fpfillb.F90
ald/utility eggx_n.F90
arp/c9xx coord_dts.F90 incli6.F90 ppv923.F90
arp/dia wmovieh.F90
arp/phys_dmn mf_phys.F90

Doc:

Miscellaneous stuff from current parallel suite.

Project: arpege
ClearCase branch: marp001_CY29T2_none

Modified:

odb/bufr2odb satobfreq.F90

Doc:

Miscellaneous stuff from current parallel suite.

Project: arpege
ClearCase branch: marp001_CY29T2_op1

Added:

uti/oulan oulan_airsbt_bufr.F oulan_georad_bufr.F
oulan_geowind_bufr.F
oulan_tovsamsua_bufr.F

Modified:

arp/obs_preproc blacksat.F90 tempinmf.F90
uti/include oulan_yomdirs.h oulan_yomnbob.h oulan_yomtomv.h
uti/namelist oulan_nadirs.h oulan_nanbob.h
uti/oulan ext_airsbt.F ext_buoy.F ext_cyclone.F
ext_geowind.F ext_satob.F ext_tovsamsub.F
oulan_airsbt_bufr.F oulan_extract.F oulan_georad_bufr.F
oulan_geowind_bufr.F oulan_init.F oulan_namelist.F
oulan_quikscat_bufr.F oulan_tovsamsua_bufr.F
oulan_traitements.F
uti/prescat/qretrieve read_qscat25kmbufr.F
uti/progrid procor2.F prodom.F

Doc:

1/ Miscellaneous stuff from current parallel suite.

2/ Add 4 channels for AIRS .

Project: arpege
ClearCase branch: marp001_CY29T2_op2

Modified:

ald/programs blend.F90
arp/obs_preproc blacksat.F90
uti/bator bator_decodbufr.F90
uti/oulan ext_tovsamsub.F

Doc:

Miscellaneous stuff from current parallel suite.

Project: arpege
ClearCase branch: marp001_CY30_dble

Deleted:

uti/oulan ext_geowind.F ext_quikscat.F
oulan_airsbt_bufr.F
oulan_georad_bufr.F oulan_geowind_bufr.F oulan_map_bufr_quikscat.F
oulan_quikscat_bufr.F oulan_quikscat_to_obsoul.F
oulan_read_bufr_quikscat.F
oulan_tovsamsua_bufr.F oulan_traitements.F

Modified:

ald/c9xx eincli6.F90

arp/adiab cpg_dia.F90
arp/control scan2mdm.F90
arp/dia cpxfu.F90 ppfidh.F90
arp/module ptrxfu.F90 type_fads.F90 yomphy.F90
yomxfu.F90
arp/namelist namphy.h namxfu.h
arp/phys_dmn accoefk.F90 acmixlenz.F90 acnebn.F90
acnebsm.F90 acnebxrs.F90 acpluie.F90
acpluiz.F90 acradin.F90 advprc.F90
apl_arome.F90 aplpar.F90
arp/pp_obs pos.F90 rad1cnne.F90 specfitadm.F90
vpos.F90
arp/setup su0phy.F90 sucfu.F90 sufa.F90
sufpd.F90 suspeca.F90 suxfu.F90
arp/utility wrgp2fa.F90
uti/bator bator_decodbufr.F90
uti/include oulan_yomdirs.h oulan_yomnbob.h oulan_yomtomv.h
uti/namelist oulan_nadirs.h oulan_nanbob.h
uti/oulan ext_airsbt.F ext_buoy.F oulan.F
oulan_carobs.F oulan_extract.F oulan_init.F
oulan_namelist.F
uti/progrid prodom.F profac.F progrid.F

Doc:

Add link to query "obsort_limb.sql" in "odb/ddl.ECMASCR" directory. This prevents the REDUCE task in 3DVAR ALADIN to crash!

Project: arpege
ClearCase branch: marp001_CY30_none

Added:

odb/ddl.ECMASCR obsort_limb.sql

Karim YESSAD

Doc:

ADTLSL : SL2TL: AD+TL codes for variable mesh.

DDHNH : Correct formulation for entropy and conversion term in the NH model (CPDYDDH).

DM911 : A-level parallelisation of conf 911.

NETD4 : NH model:
cleaning for d4; removal of the auxiliary variable;
make d4 available in ARPEGE.
(cf. mrpe684_CY29T4_dctyri)
- The auxiliary variable is now replaced by a GMV variable containing X.
- This new GMV variable does not exist if LGWADV=T.

NETLAIDEP: removal of LAIDEP.. routines, call directly LARCIN(H)A.. routines.

NETLAINOR: removal of LAINOR.. routines, call directly LARCIN(H)B.. routines.

NETSI : SI scheme coded in ALADIN like in ARPEGE (removal of array SIEHEL)

NETTR : (ETRMTOS,ETRSTOM) replaced by (TRMTOS,TRSTOM) in ESPCM and ESPCMAD. ETRMTOS and ETRSTOM disappear.

TRAJHR : LTRAJHR split into LTRAJHR_ALTI and LTRAJHR_SURF; adaptation of LTRAJHR to METEO-FRANCE applications, with the possibility to read the trajectory on ARPEGE files.

This modset allows B-Level parallelization for NH model (and reduces CPU cost).

+ Some bugfixes.

Project: arpege
ClearCase branch: mrpm603_CY30_dev30pour30t1

Added:

ald/transform		esperee_der.F90	espeuv.F90
arp/parallel	read_spec_fromfa.F90		trltom_dil.F90
arp/setup	dilatb.F90	su3fpos.F90	sump_dila.F90
	sump_dilb.F90	surcordi.F90	surfric.F90
arp/transform		speree_der.F90	

Modified:

ald/adiab	elascaw.F90	espchor.F90	espcm.F90
	espcmad.F90	espcsi.F90	espcsiad.F90
	espnhsi.F90	espnhsiad.F90	gpspng.F90
ald/coupling	ecoupl1.F90	esrlxt1.F90	
ald/inidata	elsirf.F90	erlbc.F90	
ald/parallel	etrmtos.F90	etrstom.F90	
ald/setup	suebicu.F90	suect0.F90	suedim.F90
	suedyn.F90	suehel.F90	suello.F90
ald/transform		esperee_der.F90	espeuv.F90
etransdir_mdl.F90			
	etransdir_nhconv.F90	etransinv_mdl.F90	etransinv_nhconv.F90
	etransinvh.F90		
ald/utility	deello.F90		
arp/adiab	call_sl.F90	cpeuldyn.F90	cpg.F90
	cpg_dia.F90	cpg_dyn.F90	cpg_end.F90
	cpg_gp.F90	cpglag.F90	gnh_conv_nhvar.F90
	gpendtr.F90	gpinislb.F90	gpmpfc.F90
	gptf1.F90	gptf1pc.F90	gptf2.F90
	gptf2pc.F90	lacdyn.F90	lacone.F90
	laconead.F90	laconetl.F90	laidep.F90
	laidepad.F90	laideph.F90	laideptl.F90
	lainorh.F90	lanhsib.F90	lapinea.F90
	lapinea5.F90	lapineaad.F90	lapineatl.F90
	lapineb.F90	larche.F90	larche5.F90
	larchead.F90	larchetl.F90	larcinb.F90
	lascaw.F90	lattex.F90	spchor.F90
	spnh_conv_nhvar.F90	spnhsi.F90	
arp/control	cnt4.F90	cnt4ad.F90	cnt4tl.F90
	gp_model.F90	ini2scan2m.F90	scan2mdm.F90
	sim4d.F90	spcm.F90	spcmad.F90
	testlievol.F90		
arp/dfi	edfi2.F90	edfi3.F90	
arp/dia	cpdyddh.F90	pregrbenc.F90	wrmlppadm.F90

wrspeca.F90
arp/module gmv_subs.F90 ptrslb1.F90 traj_data.F90
traj_main.F90 traj_surface.F90 trajectory.F90
type_gmvs.F90 yemct0.F90 yemdyn.F90
yemspbc.F90 yomct0.F90 yomdyna.F90
yomgmv.F90 yomlun.F90 yomop.F90
yomsp.F90
arp/namelist namct0.h namdyna.h namvar.h
arp/parallel read_spec_fromfa.F90 trltom_dil.F90 trmtos.F90
trstom.F90
arp/setup dilat.F90 dilatb.F90 su1yom.F90
suct0.F90 sudil.F90 sudim1.F90
sudim2.F90 sudyn.F90 sudyna.F90
suhdf.F90 suinif.F90 sulun.F90
sump_dila.F90 sump_dilb.F90 sumpini.F90
suoph.F90 surcordi.F90 surfric.F90
suslb.F90 suspec.F90 suspeca.F90
arp/sinvect cun3.F90
arp/transform speree_der.F90 transdir_nhconv.F90
transinv_nhconv.F90
arp/utility dealspa.F90 openfa.F90 sualspa.F90
arp/varsuvar.F90 suvazx.F90 tltest.F90

Doc:

Remove obsolete routines.

Project: arpege
ClearCase branch: mrpm603_CY30_none

Deleted:

ald/parallel etrmtos.F90 etrstom.F90
ald/setup suehel.F90
arp/adiab laidep.F90 laidepad.F90 laideph.F90
laideptl.F90 lainorh.F90
arp/control ini2scan2m.F90
arp/module yomaux.F90

Karim Yessad

Doc:

Bugfixes.

Project: arpege
ClearCase branch: marp001_CY30_bfkarim

Modified:

ald/adiab elarmes.F90
arp/adiablarmes.F90 larmes5.F90 larmesad.F90
larmestl.F90

Marek Jerczynski

Doc:

1/ Bugfix which allow multi-processor work for DDH.
2/ Exclude computation in cap of E-zone and modified some code for checking if points and domains are inside of C+I area. All - in practice - changes are introduced under LELAM key. There is still possible some optimization in right side of E-zone below cap.

Project: arpege
ClearCase branch: marp001_CY30_sumddh

Modified:

arp/dia sumddh.F90

POLI Paul

Doc:

arp/obs_preproc/defrun.F90
Paul Poli: Decreased acceptance threshold from 4 sigmas down to 2 for ground-based GPS observations.

arp/obs_preproc/fgchk.F90
Paul Poli: Introduction of support for ground-based GPS data.

arp/obs_preproc/first.F90
Paul Poli: Introduction of support for ground-based GPS data.

arp/obs_preproc/gefger.F90
Paul Poli: Definition of ground-based GPS first guess error.

arp/pp_obs/gpszen_delay.F90
Paul Poli: Added header and comments.

arp/pp_obs/gpszen_delayad.F90
Paul Poli: New routine: adjoint of the tangent linear model of the routine GPSZEN_DELAY (observation operator for ground-based GPS data).

arp/pp_obs/gpszen_delaytl.F90
Paul Poli: New routine: tangent linear model of the routine GPSZEN_DELAY (observation operator for ground-based GPS data).

arp/pp_obs/hop.F90
Paul Poli: Added calls to GPSZEN_DELAY and PPPMER (required for assimilation of ground-based GPS data).

arp/pp_obs/hopad.F90
Paul Poli: Added calls to GPSZEN_DELAYAD and PPPMERAD (required for assimilation of ground-based GPS data).

arp/pp_obs/hoptl.F90
Paul Poli: Added calls to GPSZEN_DELAYTL and PPPMERTL (required for assimilation of ground-based GPS data).

arp/pp_obs/hretr.F90
Paul Poli: Cleaning: split previously line too long.

uti/bator/bator_ecritures.F90
Paul Poli: Added support for ground-based GPS data.

Project: arpege
ClearCase branch: mrpa679_CY30_scr005

Added:

arp/pp_obs gpszen_delayad.F90 gpszen_delaytl.F90

Modified:

arp/obs_preproc defrun.F90 fgchk.F90 first.F90 gefger.F90
arp/pp_obs gpszen_delay.F90 gpszen_delayad.F90 gpszen_delaytl.F90 hop.F90 hopad.F90 hoptl.F90 hretr.F90
uti/bator bator_ecritures.F90

PUECH Dominique

Doc:

Remove obsolete routines.

Project: arpege
ClearCase branch: mrpa660_CY30_none

Deleted:

uti/fcq fcqodb_AIREP.F90 fcqodb_SATOB.F90 fcqodb_radome.F90 fcqodb_ship.F90 fcqodb_synop.F90 fcqodb_synor.F90

Doc:

** bator*
récupération des modifications déjà incluses dans la chaine en double
adaptations pour création possible sans définition de time-slots
bator.F90 bator_ecritures.F90 bator_init.F90 bator_module.F90 bator_util.F90
initialisation éffectuée alors au niveau du merge

** fcq récupération des modifications déjà incluses dans la chaine en double*
réduction du fichier de flags

** odb*
shuffle_odb.F90 : adaptation pour le merge
getsatid.sql, getsatobid.sql : remplacement de UNIQUEBY par DISTINCT
ctxgetdb.F90 : correction bug donnée par CEP pour run avec DISTINCT

** arpege*
hoptl.F90 : flag des données passives
readoba.F90 : adaptation pour merge
suamv.F90, surad.F90 : adaptation suite aux problèmes UNIQUEBY (réduction du nombre de données sélectionnées)

** mandalay : récupération des modifications déjà incluses dans la chaine en double.*

**Bugfixes.*

** Re-introduce a call to "codb_putenv", in place of "putenv" .*

Project: arpege
ClearCase branch: mrpa660_CY30_phas

Added:

uti/fcqfcqodb_SYNOP.F90

Deleted:

uti/fcqfcqodb_radome.F90 fcqodb_ship.F90 fcqodb_synop.F90
fcqodb_synor.F90

Modified:

arp/obs_preproc readoba.F90
arp/pp_obs hoptl.F90
arp/varsuamv.F90 surad.F90
odb/cma2odb ctxgetdb.F90 shuffle_odb.F90
odb/ddl cma.h getsatid.sql getsatobid.sql
uti/bator bator.F90 bator_decodbufr.F90
bator_decodgrib.F90
bator_ecritures.F90 bator_impr.F90 bator_init.F90
bator_lectures.F90 bator_saisies.F90 bator_util.F90
uti/fcq fcqodb.F90 fcqodb_DRIBU.F90 fcqodb_PILOT.F90
fcqodb_TEMP.F90 fcqodb_init.F90 man_fcq_bdm_fus.F90
uti/mandalay mandalay.F90
uti/module bator_module.F90 fcqodb_module.F90
uti/namelist bator_namelist.h

Patrick MOLL

Doc:

Fix a vectorization problem in the thinning of the SATOBs.

Project: arpege
ClearCase branch: mrpa646_CY30_obs30_t1

Modified:

arp/obs_preproc new_thinner_no_sq.F90 pre_thinner.F90

Ryad El KHATIB

Doc:

** Ryad El Khatib : Compliancy with PGI compiler. Huge routines have been split into shorter "contained" subroutines in order to make the compilation safe and fast. Too long subroutines could lead to memory fault (arp/phys_ec/*, xrd/*, uti/*, ald/c9xx/cchien.F90).*

** Sylvie Malardel, Gwenaelle Hello, Ryad El Khatib : Change of geometry and fields from an ALADIN file to an AROME file (mse/*, arp/*), including the handling of either one single*

surface mask (land vs. sea) or two surface masks (land mask and sea mask) ; post-processing of sea surface temperature. The use of two surface masks imposes that only the target climatology could be used for the time being.
New namelists variables :
GFP_SST (NAMAFN) : control structure for post-processing of SST.
NFPSURFEX (NAMFPC) : =1 to subcontract surface fields to the externalized surface SURFEX.
NFPMASK (NAMFPC) : number of masks used (0, 1 or 2).
NFPSURFEX=1 => NFPMASK=2 ; NFPMASK=2 => NFPCLI=1

** Rachida El Ouaraini : post-processing of Warning index for coupling file (arp/control/scan2mdm.F90, arp/dia/wrspeca.F90, arp/module/yomafn.F90, arp/module/yommcuf.F90, arp/namelist/namafn.h, arp/namelist/nammcuf.h, arp/pp_obs/fpinvtrcuf.F90, arp/pp_obs/pos.F90, arp/pp_obs/specfitadm.F90, arp/pp_obs/vpos.F90, arp/setup/suafn1.F90, arp/setup/suafn2.F90, arp/setup/suafn3.F90, arp/setup/sufpcuf.F90, arp/setup/sumcuf.F90, arp/setup/suspeca.F90, arp/utility/allocuf.F90, arp/utility/deallo.F90, arp/utility/deallocuf.F90)*
New namelist variables :
- LREACUF (NAMMCUF) : to read Warning index(es) field(s) from input file
- TFP_CUF1 to TFP_CUF5 (NAMAFN) : control structures for post-processing of up to 5 warning indexes

Project: arpege
ClearCase branch: mrpm602_CY30_fpos

Added:

arp/parallel	arordgp_surf.F90	arowrgp_surf.F90	prep.F90
arp/pp_obs	fp2sx1.F90	fpinvtrcuf.F90	
arp/setup	sufpcip.F90	sufpcuf.F90	sufpsuw.F90
arp/utility	allocuf.F90	deallocuf.F90	
mse/externals		atm2sx_env.mnh	atm2sx_field.mnh
	close_buffer_surfex.mnh		
	close_prep_surfex_aro.mnh	get_bufc0.mnh	get_bufn0.mnh
	get_bufn1.mnh	get_bufx0.mnh	get_bufx1.mnh
	ini_prep_surfex_aro.mnh	prep_surf_aro.mnh	put_bufc0.mnh
	put_bufn0.mnh	put_bufn1.mnh	put_bufx0.mnh
	put_bufx1.mnh		
mse/interface	atm2sx_env.h	atm2sx_field.h	close_buffer_surfex.h
	ini_prep_surfex_aro.h	prep_surf_aro.h	
mse/internals	hor_interpol_none.mnh	prep_buffer.grid.mnh	prep_isba_buffer.mnh
	prep_seaflux_buffer.mnh	prep_snow_buffer.mnh	prep_teb_buffer.mnh
	prep_watflux_buffer.mnh	read_bufc0.mnh	read_bufn0.mnh
	read_bufn1.mnh	read_bufx0.mnh	read_bufx1.mnh
mse/module	modd_bufc0.mnh	modd_bufn0.mnh	modd_bufn1.mnh
	modd_bufx0.mnh	modd_bufx1.mnh	modd_grid_buffer.mnh
	moddb_prep.mnh	mode_read_buffer.mnh	modi_atm2sx_env.mnh
	modi_atm2sx_field.mnh	modi_hor_interpol_none.mnh	
modi_prep_buffer_grid.mnh			
	modi_prep_isba_buffer.mnh	modi_prep_seaflux_buffer.mnh	
	modi_prep_snow_buffer.mnh		
	modi_prep_teb_buffer.mnh	modi_prep_watflux_buffer.mnh	
	modi_read_buffer.mnh		

Modified:

ald/c9xx	cchien.F90	
ald/inidata	elsac.F90	
ald/pp_obs	endepos.F90	fpfillb.F90

ald/setup	suehow2.F90	suehowlsm.F90	
arp/control	cnt3.F90	scan2mdm.F90	
arp/dia	wrspeca.F90		
arp/module	ptrfpb2.F90	type_fpdsphys.F90	yomafn.F90
	yomfpc.F90	yomfpsc2.F90	yommcuf.F90
	yomsc2.F90	yomwfpb.F90	yomwfpds.F90
arp/namelist	namafn.h	namfpc.h	nammcuf.h
arp/parallel	arordgp_surf.F90	arowrgp_surf.F90	
arp/phys_ec	rrtm_kgb1.F90	rrtm_kgb10.F90	rrtm_kgb11.F90
	rrtm_kgb12.F90	rrtm_kgb13.F90	rrtm_kgb14.F90
	rrtm_kgb15.F90	rrtm_kgb16.F90	rrtm_kgb2.F90
	rrtm_kgb3.F90	rrtm_kgb4.F90	rrtm_kgb5.F90
	rrtm_kgb6.F90	rrtm_kgb7.F90	rrtm_kgb8.F90
	rrtm_kgb9.F90	srtm_kgb16.F90	srtm_kgb17.F90
	srtm_kgb18.F90	srtm_kgb19.F90	srtm_kgb21.F90
	srtm_kgb22.F90	srtm_kgb24.F90	srtm_kgb28.F90
	suecaebc.F90	suecaec.F90	suecaeor.F90
	suecaesd.F90	suecaess.F90	suecaesu.F90
	suecozc.F90		
arp/pp_obs	cpclimi.F90	endvpos.F90	fp2sx1.F90
	fpcorphy.F90	fpint12.F90	fpint4.F90
	fpintdyn.F90	fpintphy.F90	fpinvtrcuf.F90
	fplake.F90	fpmodprec.F90	fposhor.F90
	fpsampl.F90	fpscaw.F90	gridfpos.F90
	hpos.F90	pos.F90	ppreset.F90
	specfitadm.F90	vpos.F90	
arp/setup	suafn1.F90	suafn2.F90	suafn3.F90
	subfpos.F90	sufpc.F90	sufpcip.F90
	sufpcuf.F90	sufpsc2.F90	sufpsuw.F90
	sufptr2.F90	sufpwide.F90	suhow2.F90
	suhowlsm.F90	sumcuf.F90	surfpbuf.F90
	surfpds.F90	suspeca.F90	suwfpbuf.F90
	suwfpds.F90		
arp/utility	allocuf.F90	dealfpos.F90	deallo.F90
	deallocuf.F90		
mse/externals		aroini_surf.mnh	atm2sx_env.mnh
atm2sx_field.mnh			
	close_buffer_surfex.mnh	close_prep_surfex_aro.mnh	
get_bufc0.mnh			
	get_bufn0.mnh	get_bufn1.mnh	get_bufx0.mnh
	get_bufx1.mnh	ini_prep_surfex_aro.mnh	prep_surf_aro.mnh
	put_bufc0.mnh	put_bufn0.mnh	put_bufn1.mnh
	put_bufx0.mnh	put_bufx1.mnh	
mse/interface	atm2sx_env.h	atm2sx_field.h	close_buffer_surfex.h
	ini_prep_surfex_aro.h	prep_surf_aro.h	
mse/internals	aroend_io_surf_n.mnh	aroget_size_full_n.mnh	aroinit_io_surf_n.mnh
	aroopen_namelist.mnh	read_surfx1_aro.mnh	read_surfx2_aro.mnh
	write_surfc0_aro.mnh	write_surfl0_aro.mnh	write_surfl1_aro.mnh
	write_surfn0_aro.mnh	write_surfn1_aro.mnh	write_surft0_aro.mnh
	write_surfx0_aro.mnh	write_surfx1_aro.mnh	write_surfx2_aro.mnh
mse/module	modd_aro_ini_surf.mnh	modd_bufc0.mnh	modd_bufn0.mnh
	modd_bufn1.mnh	modd_bufx0.mnh	modd_bufx1.mnh
	modd_io_surf_aro.mnh	modi_atm2sx_env.mnh	modi_atm2sx_field.mnh
	modi_close_namelist.mnh	modi_get_luout.mnh	modi_open_namelist.mnh
uti/extrtovs	calc_bias_1c.F90	calc_scan_1c.F90	cycle_bias_1c.F90
	cycle_scan_1c.F90		
uti/mandalay	mandalay.F90		
xrd/ddh	lfa_R8I4.F90		

Doc:

Bugfixes for IBM xlf compiler.

Project: arpege
ClearCase branch: mrpm602_CY30_ibmfix

Modified:

mpa/chem/internals isocom.F
mse/module modd_bufc0_aro.mnh modd_bufn0_aro.mnh modd_bufn1_aro.mnh
modd_bufx0_aro.mnh modd_bufx1_aro.mnh
odb/tools Ps_bias_correction.F90
uti/oulan oulan_airsbt_bufr.F oulan_extract.F oulan_georad_bufr.F
oulan_geowind_bufr.F oulan_quikscat_bufr.F oulan_tovsamsua_bufr.F

Doc:

Remove obsolete routines.

Project: arpege
ClearCase branch: mrpm602_CY30_none

Deleted:

arp/pp_obs cpclimo.F90hposlag.F90
arp/setup su3fpos.F90

SEITY Yann

Doc:

Yann Seity et Pierre Tulet : ajout de la chimie MesoNH dans AROME
Phasage avec la version 1.1 de la surface externalisée.

Project: arpege
ClearCase branch: mrpm637_CY30_AROME

Added:

arp/module yomaux.F90 yomnsv.F90
arp/setup su3fpos.F90 suini_nsv.F90

Modified:

arp/adiab cpg.F90 cpg_pt.F90 cputqy_arome.F90
arp/control gp_model.F90
arp/module yom_ygfl.F90 yomarphy.F90 yommnh.F90 yomnsv.F90
arp/namelist namarphy.h namparar.h
arp/phys_dmn acradin.F90 apl_arome.F90 mf_phys.F90 recmwf.F90 suphmnh.F90 surfext.F90
arp/phys_ec radlsw.F90 sw.F90 sw1s.F90 swclr.F90 swni.F90
arp/setup su0phy.F90 sudim1.F90 sudyn.F90

sugfl.F90

mpa/micro/module modd_nsv.mnh

mpa/turb/externals aro_turb_mnh.mnh

mpa/turb/interface aro_turb_mnh.h

mpa/turb/internals prandtl.mnh rmc01.mnh

mse/externals aro_ground_param.mnh aroini_surf.mnh

mse/interface aroini_surf.h

mse/internals allocate_gr_snow.mnh average_rad.mnh

averaged_albedo_emis_isba.mnh

bilin.mnh build_pronoslist_n.mnh ch_bvocem_n.mnh

ch_emission_flux_n.mnh ch_init_names.mnh

clean_prep_output_grid.mnh

co2_init_n.mnh coef_ver_interp_lin_surf.mnh

convert_cover_isba.mnh

convert_cover_teb.mnh cotwo.mnh

cotwoinit_n.mnh

cotwores.mnh cotworestress.mnh

coupling_ideal_flux.mnh

coupling_isba_n.mnh coupling_isba_svat_n.mnh

coupling_seaflux_n.mnh

coupling_surf_atm_n.mnh coupling_teb_n.mnh

coupling_tsz0_n.mnh

coupling_watflux_n.mnh default_isba.mnh

diag_inland_water_n.mnh

diag_misc_isba_n.mnh diag_nature_n.mnh

diag_sea_n.mnh

diag_town_n.mnh drag.mnh e_budget.mnh

get_adjacent_meshes.mnh goto_wrapper_isba.mnh

goto_wrapper_surfatm.mnh

goto_wrapper_teb.mnh hor_extrapol_surf.mnh

hor_interpol.mnh

hor_interpol_arome.mnh hor_interpol_cartesian.mnh

hor_interpol_conf_proj.mnh

hor_interpol_gauss.mnh horibl_surf.mnh hydro.mnh

ini_data_cover.mnh ini_data_param.mnh

init_ideal_flux.mnh

init_isba_n.mnh init_surf_atm_n.mnh init_teb_n.mnh

init_watflux_n.mnh interpol_field1d.mnh

interpol_field2d.mnh

interpol_splines.mnh isba.mnh

isba_fluxes.mnh

laigain.mnh lailoss.mnh

latlon_gridtype_cartesian.mnh

latlon_gridtype_conf_proj.mnh latlon_gridtype_lonlat_reg.mnh

mkflag_snow.mnh

nitro_decline.mnh pack_diag_patch_n.mnh pgd.mnh

pgd_grid.mnh pgd_isba.mnh

pgd_nature.mnh

pgd_orography.mnh pgd_seaflux.mnh

pgd_surf_atm.mnh

pgd_teb.mnh pgd_town.mnh

pgd_watflux.mnh

prep.mnh prep_grid_cartesian.mnh prep_grid_conf_proj.mnh

prep_hor_isba_field.mnh prep_hor_seaflux_field.mnh

prep_hor_snow_field.mnh

prep_hor_snow_fields.mnh prep_hor_teb_field.mnh

prep_hor_watflux_field.mnh

prep_isba_extern.mnh prep_nature.mnh
prep_output_grid.mnh
prep_perm_snow.mnh prep_seaflux_extern.mnh
prep_snow_extern.mnh
prep_surf_atm.mnh prep_teb_extern.mnh
prep_teb_grib.mnh
prep_ver_snow.mnh prep_watflux_extern.mnh
read_default_surf_atm_n.mnh
read_gr_snow.mnh read_isba_conf_n.mnh
read_isba_date.mnh
read_isba_n.mnh read_pgd_isba_n.mnh
read_pgd_teb_n.mnh
read_prep_file_date.mnh read_prep_isba_snow.mnh
read_prep_seaflux_conf.mnh
read_prep_surf_atm_conf.mnh read_prep_teb_conf.mnh
read_prep_watflux_conf.mnh
read_seaflux_date.mnh read_surf_atm_conf_n.mnh
read_surf_atm_date.mnh
read_surfn0_aro.mnh read_surfn0_asc.mnh
read_surft0_asc.mnh
read_teb_date.mnh read_watflux_date.mnh soil.mnh
surf_version.mnh teb.mnh
unpack_diag_patch_n.mnh
unpack_isba_patch_n.mnh urban_fluxes.mnh
vegetation_evol.mnh
vegetation_update.mnh ver_interp_lin1d_surf.mnh
ver_interp_lin2d_surf.mnh
write_cover_tex_isba_par.mnh write_diag_seb_isba_n.mnh
write_surf_atm_n.mnh
writesurf_atm_conf_n.mnh writesurf_gr_snow.mnh
writesurf_isba_n.mnh
writesurf_pgd_isba_n.mnh writesurf_pgd_seaflux_n.mnh
writesurf_pgd_teb_n.mnh
writesurf_pgd_watflux_n.mnh z0eff.mnh
zoom_pgd_isba.mnh
mse/module modd_ch_isba_n.mnh modd_ch_surf_n.mnh
modd_co2v_par.mnh
modd_data_cover.mnh modd_ideal_flux.mnh
modd_isba_n.mnh
modd_pack_diag_isba.mnh modd_prep.mnh
modd_snow_par.mnh
modd_surf_atm_n.mnh modd_sv_n.mnh
modd_teb_n.mnh
mode_cover.mnh mode_read_extern.mnh
mode_surf_snow_frac.mnh
modi_bilin.mnh modi_ch_emission_flux_n.mnh
modi_ch_init_names.mnh
modi_co2_init_n.mnh modi_convert_cover_isba.mnh
modi_convert_cover_teb.mnh
modi_cotwoinit_n.mnh modi_cotwores.mnh
modi_cotworestress.mnh
modi_default_isba.mnh modi_drag.mnh
modi_e_budget.mnh
modi_hor_extrapol_surf.mnh modi_horibl_surf.mnh
modi_interpol_field.mnh
modi_interpol_field2d.mnh modi_isba.mnh
modi_isba_fluxes.mnh
modi_laigain.mnh modi_lailoss.mnh
modi_pgd_isba.mnh

modi_pgd_nature.mnh modi_pgd_teb.mnh
modi_pgd_town.mnh
modi_prep_hor_snow_fields.mnh modi_read_gr_snow.mnh
modi_urban_fluxes.mnh
modi_vegetation_evol.mnh modi_vegetation_update.mnh
modi_write_cover_tex_isba_par.mnh
modn_isba_n.mnh

Doc:

Yann Seity : Création des nouvelles routines de la surface externalisée version 1.1 (qui n'existaient pas dans la version précédante qu'on avait dans Ccase depuis CY29T1).

Project: arpege
ClearCase branch: mrpm637_CY30_SURFEX

Added:

mse/internals arofm_read.mnh
arofm_writ.mnh arofmattr.mnh
arofmclos.mnh arofmfree.mnh
arofminit.mnh
arofmlook.mnh arofmopen.mnh
arofmreadc0.mnh
arofmreadl0.mnh ch_aer_emission.mnh
ch_buildemiss_n.mnh
ch_buildpronos_n.mnh coupling_dst_n.mnh
default_assim.mnh
default_dst_n.mnh dst_init_modes.mnh
dst_init_names.mnh
dust_emission_n.mnh get_adj_mes_cart.mnh
get_adj_mes_conf_proj.mnh
get_adj_mes_lonlat_reg.mnh get_surf_size_n.mnh
get_vegtype_2_patch_mask.mnh
hor_interpol_none.mnh init_dst_n.mnh
init_dust_emission.mnh
init_dust_emission_n.mnh init_from_data_isba_n.mnh
init_from_data_teb_n.mnh
liste_add offline.mnh
pgd_frac.mnh
pgd_isba_par.mnh pgd_teb_par.mnh
prep_buffer_grid.mnh
prep_isba_buffer.mnh prep_seaflux_buffer.mnh
prep_snow_buffer.mnh
prep_teb_buffer.mnh prep_watflux_buffer.mnh
read_bufc0.mnh
read_bufn0.mnh read_bufn1.mnh
read_bufx0.mnh
read_bufx1.mnh read_default_dst_n.mnh
read_dst_conf_n.mnh
read_pgd_isba_par_n.mnh read_pgd_teb_par_n.mnh
read_pre_seaf_dat_conf.mnh
read_pre_surfa_dat_conf.mnh read_pre_watf_dat_conf.mnh
write_dst_conf_n.mnh
writesurf_pgd_isba_par_n.mnh writesurf_pgd_teb_par_n.mnh
mse/module modd_assim.mnh modd_chs_aerosol.mnh
modd_data_isba_n.mnh
modd_data_teb_n.mnh modd_dst.mnh
modd_dst_n.mnh

modd_grid_buffer.mnh modd_io_surf_ol.mnh
modd_ol_fileid.mnh
modd_surf_dst_n.mnh mode_dstmbl.mnh
mode_dstmblutl.mnh
mode_read_buffer.mnh modi_ch_aer_emission.mnh
modi_close_file_ol.mnh
modi_close_namelist_ol.mnh modi_create_file.mnh
modi_def_var_netcdf.mnh
modi_default_assim.mnh modi_default_dst_n.mnh
modi_dst_init_modes.mnh
modi_dst_init_names.mnh modi_dust_emission_n.mnh
modi_get_adj_mes_cart.mnh
modi_get_adj_mes_conf_proj.mnh modi_get_adj_mes_lonlat_reg.mnh
modi_get_dimlen_netcdf.mnh
modi_get_surf_size_n.mnh modi_handle_err.mnh
modi_hor_interpol_none.mnh
modi_init_from_data_isba_n.mnh modi_init_from_data_teb_n.mnh
modi_init_io_surf_ol_n.mnh
modi_init_outfn_isba_n.mnh modi_init_outfn_sea_n.mnh
modi_init_outfn_surf_atm_n.mnh
modi_init_outfn_teb_n.mnh modi_init_outfn_water_n.mnh
modi_ol_alloc_atm.mnh
modi_ol_find_file.mnh modi_ol_read_atm.mnh
modi_ol_read_atm_conf.mnh
modi_ol_read_prescribed_veg.mnh modi_ol_time_interp_atm.mnh
modi_open_file_ol.mnh
modi_open_namelist_ol.mnh modi_pgd_frac.mnh
modi_pgd_isba_par.mnh
modi_pgd_teb_par.mnh modi_prep_buffer_grid.mnh
modi_prep_isba_buffer.mnh
modi_prep_seaflux_buffer.mnh modi_prep_snow_buffer.mnh
modi_prep_teb_buffer.mnh
modi_prep_watflux_buffer.mnh modi_read_buffer.mnh
modi_read_default_dst_n.mnh
modi_read_dst_conf_n.mnh modi_read_pgd_isba_par_n.mnh
modi_read_pgd_teb_par_n.mnh
modi_read_pre_seaf_dat_conf.mnh modi_read_pre_surfa_dat_conf.mnh
modi_read_pre_watf_dat_conf.mnh
modi_read_surfx1_ol.mnh modi_write_dst_conf_n.mnh
modi_writesurf_pgd_isba_par_n.mnh
modi_writesurf_pgd_teb_par_n.mnh modn_assim.mnh
modn_chs_orilam.mnh
modn_dst_n.mnh

Modified:

mse/internals ch_aer_emission.mnh
ch_buildemiss_n.mnh ch_buildpronos_n.mnh
coupling_dst_n.mnh default_assim.mnh
default_dst_n.mnh
dst_init_modes.mnh dst_init_names.mnh
dust_emission_n.mnh
get_adj_mes_cart.mnh get_adj_mes_conf_proj.mnh
get_adj_mes_lonlat_reg.mnh
get_surf_size_n.mnh get_vegtype_2_patch_mask.mnh
hor_interpol_none.mnh
init_dst_n.mnh init_dust_emission.mnh
init_dust_emission_n.mnh
init_from_data_isba_n.mnh init_from_data_teb_n.mnh offline.mnh

pgd_frac.mnh pgd_isba_par.mnh
pgd_teb_par.mnh
prep_buffer_grid.mnh prep_isba_buffer.mnh
prep_seaflux_buffer.mnh
prep_snow_buffer.mnh prep_teb_buffer.mnh
prep_watflux_buffer.mnh
read_bufc0.mnh read_bufn0.mnh
read_bufn1.mnh
read_bufx0.mnh read_bufx1.mnh
read_default_dst_n.mnh
read_dst_conf_n.mnh read_pgd_isba_par_n.mnh
read_pgd_teb_par_n.mnh
read_pre_seaf_dat_conf.mnh read_pre_surfa_dat_conf.mnh
read_pre_watf_dat_conf.mnh
write_dst_conf_n.mnh writesurf_pgd_isba_par_n.mnh
writesurf_pgd_teb_par_n.mnh
mse/module modd_assim.mnh modd_chs_aerosol.mnh
modd_data_isba_n.mnh
modd_data_teb_n.mnh modd_dst.mnh
modd_dst_n.mnh
modd_grid_buffer.mnh modd_io_surf_ol.mnh
modd_ol_fileid.mnh
modd_surf_dst_n.mnh mode_dstmbl.mnh
mode_dstmblutl.mnh
mode_read_buffer.mnh modi_ch_aer_emission.mnh
modi_close_file_ol.mnh
modi_close_namelist_ol.mnh modi_create_file.mnh
modi_def_var_netcdf.mnh
modi_default_assim.mnh modi_default_dst_n.mnh
modi_dst_init_modes.mnh
modi_dst_init_names.mnh modi_dust_emission_n.mnh
modi_get_adj_mes_cart.mnh
modi_get_adj_mes_conf_proj.mnh modi_get_adj_mes_lonlat_reg.mnh
modi_get_dimlen_netcdf.mnh
modi_get_surf_size_n.mnh modi_handle_err.mnh
modi_hor_interpol_none.mnh
modi_init_from_data_isba_n.mnh modi_init_from_data_teb_n.mnh
modi_init_io_surf_ol_n.mnh
modi_init_outfn_isba_n.mnh modi_init_outfn_sea_n.mnh
modi_init_outfn_surf_atm_n.mnh
modi_init_outfn_teb_n.mnh modi_init_outfn_water_n.mnh
modi_ol_alloc_atm.mnh
modi_ol_find_file.mnh modi_ol_read_atm.mnh
modi_ol_read_atm_conf.mnh
modi_ol_read_prescribed_veg.mnh modi_ol_time_interp_atm.mnh
modi_open_file_ol.mnh
modi_open_namelist_ol.mnh modi_pgd_frac.mnh
modi_pgd_isba_par.mnh
modi_pgd_teb_par.mnh modi_prep_buffer_grid.mnh
modi_prep_isba_buffer.mnh
modi_prep_seaflux_buffer.mnh modi_prep_snow_buffer.mnh
modi_prep_teb_buffer.mnh
modi_prep_watflux_buffer.mnh modi_read_buffer.mnh
modi_read_default_dst_n.mnh
modi_read_dst_conf_n.mnh modi_read_pgd_isba_par_n.mnh
modi_read_pgd_teb_par_n.mnh
modi_read_pre_seaf_dat_conf.mnh modi_read_pre_surfa_dat_conf.mnh
modi_read_pre_watf_dat_conf.mnh
modi_read_surfx1_ol.mnh modi_write_dst_conf_n.mnh
modi_writesurf_pgd_isba_par_n.mnh

modi_writesurf_pgd_teb_par_n.mnh modn_assim.mnh modn_chs_orilam.mnh
modn_dst_n.mnh

Doc:

1/ Bugfixes in "mse".

2/ Bugfixes and cleanings in optional computation of moisture convergency with "Q gridpoint", which crashed in AROME (in the setup).

3/ Cleanings of print in chemistry (mpa/chem) .*

1/ ald/pp_obs/ebipos.F90: Initialisation d'un compteur à 0 pour corriger un problème de compilation sur l'IBM .
2/ arp/phys_dmn/sucvmnh.F90: Changement du défaut du temps d'ajustement dans la shallow convection AROME .

Project: arpege
ClearCase branch: mrpm637_CY30_bfAROME

Modified:

ald/pp_obs	ebipos.F90		
arp/adiab	cpphinp.F90		
arp/module	yomarphy.F90	yomdyn.F90	
arp/namelist	namarphy.h	namdyn.h	
arp/parallel	arordgp_surf.F90	arowrgp_surf.F90	
arp/phys_dmn	apl_arome.F90	mf_phys.F90	sucvmnh.F90
	suphmnh.F90	surfext.F90	
arp/setup	su0phy.F90	sudim1.F90	sudyn.F90
mpa/chem/externals		aro_mnhc.mnh	aroini_mnhc.mnh
mse/externals	aro_surf_diag.mnh	atm2sx_env.mnh	atm2sx_field.mnh
	close_prep_surfex_aro.mnh	ini_prep_surfex_aro.mnh	
	prep_surf_aro.mnh		
mse/internals	coupling_dst_n.mnh	coupling_isba_n.mnh	
mse/module	modi_close_namelist.mnh	modi_get_luout.mnh	
modi_open_namelist.mnh			

Doc:

1/ Remove obsolete routines.

2/ Rename some routines with suffix "_aro", to separate AROME routines from pure Meso-NH routines.

3/ Add new files to handle chemistry from Meso-NH .

4/ Add dummies in project "mse", to avoid some "unsatisfied externals" on IBM .

Project: arpege
ClearCase branch: mrpm637_CY30_none

Added:

mpa/chem/externals	aro_mnhc.mnh	aro_mnhdust.mnh
aroini_mnhc.mnh		
aroini_nsv.mnh	aroini_nsv0.mnh	
ch_aer_init.mnh		

ch_aer_mod_init.mnh
mpa/chem/interface aro_mnhc.h
aro_mnhdust.h aroini_mnhc.h
aroini_nsv.h aroini_nsv0.h
mpa/chem/internals addpnt.F ares.F
ch_aer_coag.mnh
ch_aer_driver.mnh ch_aer_eqm_cormass.mnh
ch_aer_eqsam.mnh
ch_aer_growth.mnh ch_aer_init_soa.mnh
ch_aer_intermin.mnh
ch_aer_mineral.mnh ch_aer_mpmpo.mnh
ch_aer_nucl.mnh
ch_aer_organic.mnh ch_aer_pun.mnh
ch_aer_sedimentation_n.mnh
ch_aer_solv.mnh ch_aer_surf.mnh
ch_aer_thermo.mnh
ch_aer_trans.mnh ch_aer_velgrav_n.mnh
ch_allocate_taccs.mnh
ch_aqua.mnh ch_ares.mnh
ch_convect_scavenging.mnh
ch_cranck.mnh ch_deallocate_taccs.mnh
ch_diagnostics.mnh
ch_exqssa.mnh ch_fcn.mnh
ch_gauss.mnh
ch_get_cnames.mnh ch_get_rates.mnh
ch_ini_orilam.mnh
ch_init_ccs.mnh ch_init_diagnostics.mnh
ch_init_jvalues.mnh
ch_init_output.mnh ch_init_scheme.mnh
ch_interp_jvalues_n.mnh
ch_isoropia.mnh ch_jac.mnh
ch_jvalues_clouds_n.mnh
ch_jvalues_n.mnh ch_linssa.mnh
ch_make_lookup.mnh
ch_meteo_trans.mnh ch_nnares.mnh
ch_nonzeroterms.mnh
ch_orilam.mnh ch_output.mnh
ch_prodloss.mnh
ch_qssa.mnh ch_read_meteo.mnh
ch_read_vector.mnh
ch_scopy.F ch_set_photo_rates_n.mnh ch_set_rates.mnh
ch_show_chem.mnh ch_sis.mnh
ch_solver_n.mnh
ch_sparse.mnh ch_svode.mnh
ch_terms.mnh
ch_update_jvalues_n.mnh ch_update_meteo.mnh
ch_write_chem.mnh
data_aersr.F data_blkiso.F
data_expon.F
data_kmcf198.F data_kmcf223a.F
data_kmcf248a.F
data_kmcf273a.F data_kmcf298a.F
data_kmcf323a.F
eqsam_v03d_sub.mnh fchap.F
fctreso.mnh
fery.F fsum.F futr.F
gridck.F gridw.F gridz.F
inter1.F inter2.F inter3.F
isamax.F isocom.F isofwd.F

isorev.F isrpia.inc jspec1.F
lunsav.F mflgsv.F mode_aero_psd.mnh
nn.mnh o2spec.F ps2str.F
r1mach.F rdetfl.F rdno2xs.F
rdo2xs.F rdo3xs.F rdso2xs.F
read1.F read2.F rtlink.F
sacopy.F saxpy.F schu.F
sdot.F setaer.F setair.F
setalb.F setcld.F setno2.F
seto2.F setozo.F setso2.F
settmp.F sewset.F sgbfa.F
sgbsl.F sgefa.F sgesl.F
sphers.F sscal.F sto2xs.F
sundis.F svhin.F svindy.F
svjac.F svjust.F svnlsd.F
svnorm.F svode.F svset.F
svsol.F svsrco.F svstep.F
tridag.F troe.mnh troe_equil.mnh
tuvmain.F unifac.F xerrwv.F
xsetf.F xsetun.F zenith.F
zero1.F zero2.F

mpa/chem/module modd_ch_aero_n.mnh modd_ch_aerosol.mnh
modd_ch_const.mnh
modd_ch_dep_n.mnh modd_ch_init_jvalues.mnh
modd_ch_jvalues_n.mnh
modd_ch_m9.mnh modd_ch_m9_scheme.mnh
modd_ch_meteo.mnh
modd_ch_mnhc_n.mnh modd_ch_model0d.mnh
modd_ch_solver_n.mnh
modd_csts_dust.mnh modd_dust.mnh
modd_dust_opt_lkt.mnh
modd_indref_aer.mnh modd_sub_ch_field_value_n.mnh
modd_sub_ch_monitor_n.mnh
mode_dust_psd.mnh mode_dustopt.mnh
modi_ch_aer_coag.mnh
modi_ch_aer_driver.mnh modi_ch_aer_eqm_cormass.mnh
modi_ch_aer_eqsam.mnh
modi_ch_aer_growth.mnh modi_ch_aer_init.mnh
modi_ch_aer_init_soa.mnh
modi_ch_aer_intermin.mnh modi_ch_aer_mineral.mnh
modi_ch_aer_mod_init.mnh
modi_ch_aer_mpmpo.mnh modi_ch_aer_nucl.mnh
modi_ch_aer_organic.mnh
modi_ch_aer_pun.mnh modi_ch_aer_rhcalcn.mnh
modi_ch_aer_sedimentation_n.mnh
modi_ch_aer_solv.mnh modi_ch_aer_surf.mnh
modi_ch_aer_thermo.mnh
modi_ch_aer_trans.mnh modi_ch_aer_velgrav_n.mnh
modi_ch_allocate_taccs.mnh
modi_ch_aqua.mnh modi_ch_ares.mnh
modi_ch_boundaries.mnh
modi_ch_cranck.mnh modi_ch_deallocate_taccs.mnh
modi_ch_diagnostics.mnh
modi_ch_emission_flux0d.mnh modi_ch_exqssa.mnh
modi_ch_fcn.mnh
modi_ch_field_value_n.mnh modi_ch_gauss.mnh
modi_ch_get_cnames.mnh
modi_ch_get_rates.mnh modi_ch_ini_orilam.mnh
modi_ch_init_ccs.mnh

modi_ch_init_const_n.mnh modi_ch_init_jvalues.mnh
modi_ch_init_meteo.mnh
modi_ch_init_model0d.mnh modi_ch_init_output.mnh
modi_ch_init_scheme.mnh
modi_ch_interp_jvalues_n.mnh modi_ch_isoropia.mnh
modi_ch_jac.mnh
modi_ch_jvalues_clouds_n.mnh modi_ch_jvalues_n.mnh
modi_ch_linssa.mnh
modi_ch_meteo_trans.mnh modi_ch_monitor_n.mnh
modi_ch_nnares.mnh
modi_ch_nonzeroterms.mnh modi_ch_open_input.mnh
modi_ch_orilam.mnh
modi_ch_output.mnh modi_ch_prodloss.mnh
modi_ch_qssa.mnh
modi_ch_read_chem.mnh modi_ch_read_meteo.mnh
modi_ch_read_vector.mnh
modi_ch_set_photo_rates_n.mnh modi_ch_set_rates.mnh
modi_ch_show_chem.mnh
modi_ch_sis.mnh modi_ch_solver_n.mnh
modi_ch_sparse.mnh
modi_ch_svode.mnh modi_ch_terms.mnh
modi_ch_update_jvalues_n.mnh
modi_ch_update_meteo.mnh modi_ch_write_chem.mnh
modi_eqsam_v03d_sub.mnh
modi_troe.mnh modi_troe_equil.mnh

mse dummy

mse/dummy budget.mnh ch_convect_scavenging.mnh
close_aux_io_surf_asc.mnh
close_aux_io_surf_ol.mnh close_namelist_ol.mnh
detect_field_mnh.mnh
end_io_surf_ol_n.mnh fmlook_ll.mnh
fmwrit.mnh
init_io_surf_ol_n.mnh les_mean_subgrid_3d.mnh
les_mean_subgrid_surf.mnh
mnhclose_aux_io_surf.mnh mnhclose_namelist.mnh
mnhclose_write_cover_tex.mnh
mnhend_io_surf_n.mnh mnhget_desfm_n.mnh
mnhget_luout.mnh
mnhget_size_full_n.mnh mnhinit_io_surf_n.mnh
mnhopen_aux_io_surf.mnh
mnhopen_namelist.mnh mnhopen_write_cover_tex.mnh
open_aux_io_surf_asc.mnh
open_aux_io_surf_ol.mnh open_namelist_ol.mnh
read_surfc0_mnh.mnh
read_surfc0_ol.mnh read_surfl0_mnh.mnh
read_surfl0_ol.mnh
read_surfl1_mnh.mnh read_surfl1_ol.mnh
read_surfn0_mnh.mnh
read_surfn0_ol.mnh read_surfn1_mnh.mnh
read_surfn1_ol.mnh
read_surft0_mnh.mnh read_surft0_ol.mnh
read_surfx0_mnh.mnh
read_surfx0_ol.mnh read_surfx1_mnh.mnh
read_surfx1_ol.mnh
read_surfx2_mnh.mnh read_surfx2_ol.mnh
second_mnh.mnh
write_surfc0_mnh.mnh write_surfc0_ol.mnh
write_surfl0_mnh.mnh

write_surfl0_ol.mnh write_surfl1_mnh.mnh
write_surfl1_ol.mnh
write_surfn0_mnh.mnh write_surfn0_ol.mnh
write_surfn1_mnh.mnh
write_surfn1_ol.mnh write_surft0_mnh.mnh
write_surft0_ol.mnh
write_surfx0_mnh.mnh write_surfx0_ol.mnh
write_surfx1_mnh.mnh
write_surfx1_ol.mnh write_surfx2_mnh.mnh
write_surfx2_ol.mnh

Renamed:

mse/internals
fm_read.mnh to mse/internals/fm_read_aro.mnh
fm_writ.mnh to mse/internals/fm_writ_aro.mnh
fmattr.mnh to mse/internals/fmattr_aro.mnh
fmclos.mnh to mse/internals/fmclos_aro.mnh
fmfree.mnh to mse/internals/fmfree_aro.mnh
fminit.mnh to mse/internals/fminit_aro.mnh
fmlook.mnh to mse/internals/fmlook_aro.mnh
fmopen.mnh to mse/internals/fmopen_aro.mnh
fmreadc0.mnh to mse/internals/fmreadc0_aro.mnh
fmreadl0.mnh to mse/internals/fmreadl0_aro.mnh
fmreadl1.mnh to mse/internals/fmreadl1_aro.mnh
fmreadn0.mnh to mse/internals/fmreadn0_aro.mnh
fmreadn1.mnh to mse/internals/fmreadn1_aro.mnh
fmreadn2.mnh to mse/internals/fmreadn2_aro.mnh
fmreadt0.mnh to mse/internals/fmreadt0_aro.mnh
fmreadx0.mnh to mse/internals/fmreadx0_aro.mnh
fmreadx1.mnh to mse/internals/fmreadx1_aro.mnh
fmreadx2.mnh to mse/internals/fmreadx2_aro.mnh
fmreadx3.mnh to mse/internals/fmreadx3_aro.mnh
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fmreadx5.mnh to mse/internals/fmreadx5_aro.mnh
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fmwritl0.mnh to mse/internals/fmwritl0_aro.mnh
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fmwritn1.mnh to mse/internals/fmwritn1_aro.mnh
fmwritn2.mnh to mse/internals/fmwritn2_aro.mnh
fmwritt0.mnh to mse/internals/fmwritt0_aro.mnh
fmwritx0.mnh to mse/internals/fmwritx0_aro.mnh
fmwritx1.mnh to mse/internals/fmwritx1_aro.mnh
fmwritx2.mnh to mse/internals/fmwritx2_aro.mnh
fmwritx3.mnh to mse/internals/fmwritx3_aro.mnh
fmwritx4.mnh to mse/internals/fmwritx4_aro.mnh
fmwritx5.mnh to mse/internals/fmwritx5_aro.mnh
fmwritx6.mnh to mse/internals/fmwritx6_aro.mnh
ini_sun.mnh to mse/internals/ini_sun_aro.mnh
ini_sw_setup.mnh to mse/internals/ini_sw_setup_aro.mnh
pack_1d_1d_from2d.mnh to mse/internals/pack_1d_1d_from2d_aro.mnh
pack_1d_1d_from3d.mnh to mse/internals/pack_1d_1d_from3d_aro.mnh
pack_1d_1d_from4d.mnh to mse/internals/pack_1d_1d_from4d_aro.mnh
pack_1d_1d_fromi2d.mnh to mse/internals/pack_1d_1d_fromi2d_aro.mnh
pack_2d_1d_from2d.mnh to mse/internals/pack_2d_1d_from2d_aro.mnh
pack_2d_1d_from3d.mnh to mse/internals/pack_2d_1d_from3d_aro.mnh
pack_2d_1d_from4d.mnh to mse/internals/pack_2d_1d_from4d_aro.mnh
pack_2d_1d_fromi2d.mnh to mse/internals/pack_2d_1d_fromi2d_aro.mnh

pack_2d_1d_froml2d.mnh to mse/internals/pack_2d_1d_froml2d_aro.mnh
unpack_1d_1d_from2d.mnh to mse/internals/unpack_1d_1d_from2d_aro.mnh
unpack_1d_1d_from3d.mnh to mse/internals/unpack_1d_1d_from3d_aro.mnh
unpack_1d_1d_from4d.mnh to mse/internals/unpack_1d_1d_from4d_aro.mnh
unpack_1d_1d_fromi2d.mnh to mse/internals/unpack_1d_1d_fromi2d_aro.mnh
unpack_1d_2d_from2d.mnh to mse/internals/unpack_1d_2d_from2d_aro.mnh
unpack_1d_2d_from3d.mnh to mse/internals/unpack_1d_2d_from3d_aro.mnh
unpack_1d_2d_from4d.mnh to mse/internals/unpack_1d_2d_from4d_aro.mnh
unpack_1d_2d_fromi2d.mnh to mse/internals/unpack_1d_2d_fromi2d_aro.mnh
mse/module modd_bufc0.mnh to mse/module/modd_bufc0_aro.mnh
modd_bufn0.mnh to mse/module/modd_bufn0_aro.mnh
modd_bufn1.mnh to mse/module/modd_bufn1_aro.mnh
modd_bufx0.mnh to mse/module/modd_bufx0_aro.mnh
modd_bufx1.mnh to mse/module/modd_bufx1_aro.mnh
modd_fmdeclar.mnh to mse/module/modd_fmdeclar_aro.mnh
modd_fmmulti.mnh to mse/module/modd_fmmulti_aro.mnh
modd_io_nam.mnh to mse/module/modd_io_nam_aro.mnh
modi_fmread.mnh to mse/module/modi_fmread_aro.mnh
modi_fmwrit.mnh to mse/module/modi_fmwrit_aro.mnh
modi_ini_sun.mnh to mse/module/modi_ini_sun_aro.mnh
modi_ini_sw_setup.mnh to mse/module/modi_ini_sw_setup_aro.mnh
modi_pack_1d_1d.mnh to mse/module/modi_pack_1d_1d_aro.mnh
modi_pack_2d_1d.mnh to mse/module/modi_pack_2d_1d_aro.mnh
modi_unpack_1d_1d.mnh to mse/module/modi_unpack_1d_1d_aro.mnh
modi_unpack_1d_2d.mnh to mse/module/modi_unpack_1d_2d_aro.mnh

Deleted:

mse/internals
get_adjacent_meshes_conf_proj.mnh
read_prep_seaflux_date_conf.mnh
read_prep_watflux_date_conf.mnh
mse/module modd_ch_const.mnh
modi_atm2sx_field.mnh
modi_get_adjacent_meshes_cartesian.mnh
modi_get_adjacent_meshes_conf_proj.mnh
modi_get_adjacent_meshes_lonlat_reg.mnh
modi_read_prep_seaflux_date_conf.mnh
modi_read_prep_surf_atm_date_conf.mnh
modi_read_prep_watflux_date_conf.mnh
get_adjacent_meshes_cartesian.mnh
get_adjacent_meshes_lonlat_reg.mnh
read_prep_surf_atm_date_conf.mnh
modi_atm2sx_env.mnh

VANA Filip

Doc:

Setup of LSLHD .

Project: arpege
ClearCase branch: mrpe706_CY30_slhddefaults

Modified:

arp/namelist namdyn.h
arp/setup sudyn.F90suhdir.F90