

CHAINE EN DOUBLE CY33T0_op1

From: GCO **Date:** July 01, 2008
To: Membres des listes de diffusion arpege et oper
Subject: Nouvelle chaîne en double CY33T0_op1

Une nouvelle chaîne en double CY33T0_op1 vient de démarrer. Ce memorandum présente les différentes contributions pour cette chaîne.

ClearCase label: CY33T0_op1

Modified libraries: arpege, aladin, black_list, utilitaires, mpa, mse, satrad, obstat

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	Project:arpege	CCase branch:mrpe602_CY33T0_cape
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	Project:arpege	CCase branch:mrpa645_CY33T0_mrpa645
	Project:arpege	CCase branch:mrpa645_CY33_mrpa645
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	Project:arpege	CCase branch:marp001_CY33T0_correction
	Project:arpege	CCase branch:marp001_CY33T0_mrmh004_EDKF
	Project:arpege	CCase branch:marp001_CY33T0_op1gamma
	Project:arpege	CCase branch:marp001_CY33T0_op1oulan
	Project:arpege	CCase branch:marp001_CY33T0_rvradar
	Project:arpege	CCase branch:marp001_CY33T0_t1bf
	Project:arpege	CCase branch:marp001_CY33T0_testfcq
	Project:arpege	CCase branch:marp003_CY33T0_back
	Project:arpege	CCase branch:marp003_CY33T0_fcq
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	Project:arpege	CCase branch:mrpa679_CY33T0_obstat_radar2
	Project:arpege	CCase branch:mrpa679_CY33T0_obstat_v3
	Project:arpege	CCase branch:mrpa679_CY33T0_obstat_v4
	Project:arpege	CCase branch:mrpa679_CY33_moregpsro
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	Project:arpege	CCase branch:mrpm637_CY33T0_arome_bf2
	Project:arpege	CCase branch:mrpm637_CY33T0_aromebfs
	Project:arpege	CCase branch:mrpm637_CY33T0_bfsAROME
	Project:arpege	CCase branch:mrpm637_CY33T0_mrpm637_CY33T0_surfex3_bf3
	Project:arpege	CCase branch:mrpm637_CY33_champsurf
	Project:arpege	CCase branch:mrpm637_CY33_histsurf
	Project:arpege	CCase branch:mrpm637_CY33_surfex3
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AUDOIN Jean-Marc

Doc:

Nouvel exécutable DATEGRIB permettant d'obtenir la date d'un fichier GRIB .

Project: utilitaires
ClearCase branch: marp001_CY33T0_dategrib

Added:

uti/dategrib dategrib.F90

Doc:

Nouvelles correspondances des champs ARPEGE/ALADIN/AROME et codes grib pour les champs de surface: nouvelle CAPE et nouveau niveau d'équilibre.

Project: utilitaires
ClearCase branch: mrpe602_CY33T0_cape

Modified:

uti/progrid procor2.F

AUGER Ludovic

Doc:

* arp/module/yomvarbc.F90
arp/namelist/namvarbc.h
arp/var/suvarbc.F90:
Modification pour l'activation du varbc pour SEVIRI.

* arp/obs_preproc/defrun.F90:
Correction de bug relatif à l'assimilation des observations de couche limite la nuit.

* arp/pp_obs/fpcica.F90:
Correction de bug pour le calcul de la CAPE fullpos.

* bla/mf_blacklist.b:
Blacklisting pour l'activation du VARBC pour SEVIRI.

* biaspred.F90 :
Correction d'un bug pour ALADIN.

Project: arpege,black_list
ClearCase branch: mrpa645_CY33T0_aladbl

Modified:

arp/module yomvarbc.F90
arp/namelist namvarbc.h
arp/obs_preproc defrun.F90
arp/pp_obs biaspred.F90 fpcica.F90 fpcincape.F90
arp/var suvarbc.F90
bla mf_blacklist.b

Doc:

* rad1cobe.F90 : *correction pour le 3DVAR ALADIN .*
* rrtm_rtrn1a_140gp.F90 : *allocation dynamique de certains tableaux pour résoudre le problème de mémoire apparu dans ALADIN réunion.*
* hretr.F90 : *test du type d'observations pour les reflectivités radar pour résoudre un plantage apparu la semaine dernière dans la chaîne en double OLIVE.*

Project: arpege
ClearCase branch: mrpa645_CY33T0_mrpa645

Modified:

arp/phys_ec rrtm_rtrn1a_140gp.F90
arp/pp_obs hretr.F90 rad1cobe.F90

Doc:

1/ Activation ou non de la prise en compte des observations à 2m la nuit .
2/ Correction de bug pour la prise en compte des innovations de t2m et hu2m .

Project: arpege,black_list
ClearCase branch: mrpa645_CY33_mrpa645

Modified:

arp/module	parfpos.F90 yomobs.F90	yomafn.F90	yomfpc.F90
arp/namelist	namafn.h	namfpc.h	namobs.h
arp/obs_preproc	black.F90	defrun.F90	
arp/pp_obs	endpos.F90 mpobseq.F90	fpcica.F90 phymfpos.F90	fpcincape.F90 ppobsac.F90
arp/setup	su_surf_fds.F90 suafn3.F90	suafn1.F90 sufpc.F90	suafn2.F90
bla	mf_blacklist.b		

BOUYSEL Francois

Doc:

*Ajout d'un paramètre de namelist dans NAMFPC pour permettre d'imposer ou pas le relief "atmosphérique" dans SURFEX dans la configuration PREP_SURFEX de Fullpos.
Par défaut le relief de SURFEX est pris égal au relief "atmosphérique" (LPUTZS=. TRUE.) .*

Project: arpege
ClearCase branch: mrpa649_CY33T0_putzs

Modified:

arp/module	yomfpc.F90
arp/namelist	namfpc.h
arp/pp_obs	fp2sx1.F90
arp/setup	sufpc.F90

Dominique Puech

Doc:

Correction de la routine de contrôle de date et des impressions listing pour les tovs, ssmi, airs .

Project: utilitaires
ClearCase branch: marp001_CY33T0_batordp

Modified:

uti/module	bator_saisies_mod.F90	bator_util_mod.F90
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EL-KHATIB Ryad

Doc:

Correction d'un mauvais appel à COMBI_STAT, faisant suite au renommage de "stat.F90" en "combi_stat.F90".

Project: utilitaires
ClearCase branch: mrpm602_CY33T0_port

Modified:

uti/combi combi.F90

EL-OUARAINI Rachida & Loïk Berre

Doc:

These modifications enable grid point background error standard deviations (i.e. sigmab's) to be read and used inside the minimization of Aladin (as in lfs/Arpège). It contains modifications in setup routines for reading a GRIB file (errgrib) of error standard deviations, and in the routines for normalization / multiplication by sigmab's in the minimization (change of variable). Moreover, an option for using a nonlinear humidity variable has been added for the Aladin minimization (as in lfs/Arpège).

Reading of grid-point background error standard deviations enabled for Arpège/Aladin on a Gaussian or lat-lon grid:

*namelist parameter LDLATLONG added to NAMJG:
.F. (default) = background error standard deviations read on a Gaussian grid ;
.T. = background error standard deviations read on a lat/lon grid,*

Initialization of grid-point background error standard deviations enabled for Aladin:

*-enable a call to setup routine suinfce.F90 from su0yomb.F90 for LELAM = .T. and LSPFCE = .F. ;
-call to limited area spectral transforms in case of LELAM in suinfce.F90 ;
-specific humidity standard deviations are calculated using Undén's formula (as in Arpège) if LRDQERR=.F. (default);
if LRDQERR=.T., they are read in the errgrib file, and inflated by the factor REDNMC if .NOT.LELAM, and by REDNMC x REDQGLOLAM
if LELAM (REDQGLOLAM is a standard deviation ratio between average standard deviations of e.g. Aladin and Arpège over the Aladin domain).*

Normalization/multiplication by background error standard deviations in grid-point space:

- parameter LDTOUQ removed from ejnrgg.F90 routines, global offset parameter KSTGLO introduced
- increments multiplied by grid point ZFCE arrays. They contain either horizontally (and vertically) varying sigmab's (normalized so that the horizontal averages of the variances match (average) variances from the stabal files (times Rednmc), except for humidity) or average sigmab's (from the stabal files (times Rednmc), vertically varying), depending on the parameters and content of the errgrib file.*

To activate this initialization and use of gridpoint sigmab's in the Aladin minimization, one needs to provide an errgrib file and to set LSPFCE=.F. in the namelist (and LDLATLONG=.F. in the case of a Gaussian grid for the errgrib file).

*Moreover, the lfs code for nonlinear humidity variable has been added as an option for the Aladin minimization.
It can be activated by the namelist parameter LJB_NONLINEAR_CVHUM (the default value is .F.).*

Project: aladin,arpege
ClearCase branch: mrpa667_CY33_sbgp_newcvhum

Modified:

ald/var	ejgnrgg.F90	ejgnrggad.F90	ejgnrggi.F90
	ejgnrggiad.F90		
arp/module	yomjg.F90		
arp/namelist	namjg.h		
arp/setup	su0yomb.F90		
arp/var	cvargpad.F90	cvargptl.F90	suinfce.F90
	sujb.F90		

Frank Guillaume

Doc:

1/ Les formats d'impression des données dans le fichier OBSOUL ont été changés. La conséquence est que les fichiers OBSOUL générés ont un volume plus important (environ +50%).

2/ Le fichier de données généré s'appelle maintenant OBSOUL.CNAMEOBSOUL CNAMEOBSOUL est une clef de la namelist NADIR (15 caractères maximum). A noter que seuls les 8 premiers caractères seront utilisés pour l'extension du fichier. Cette clef est aussi utilisée pour générer les fichiers BATORMAP et BATORMAP_REF. La présence de cette clef dans les namelists NADIR est maintenant obligatoire.

3/ Rajout dans la namelist NADIR de la clef CNAMEBASE (8 caractères maximum) qui définit le nom de la sous-base ODB qui contiendra les données. Elle est utilisée pour générer les fichiers BATORMAP et BATORMAP_REF. La présence de cette clef dans les namelists NADIR est obligatoire.

4/ Génération automatique du fichier BATORMAP_REF, qui donne la liste complète des correspondances entre sous-base ODB cible et fichier OBSOUL. (utilisation future).

5/ Génération automatique du fichier BATORMAP, qui donne la liste des correspondances entre sous-base ODB et fichier OBSOUL effectivement extrait. (utilisation future).

Project: utilitaires

ClearCase branch: marp001_CY33T0_mrpa644olive

Modified:

uti/include	oulan_pardimo.h	oulan_yombitu.h	oulan_yomcsts.h
	oulan_yomctpm.h	oulan_yomdate.h	oulan_yomdirs.h
	oulan_yomfthermo.h	oulan_yomnbob.h	oulan_yompin.h
	oulan_yomtvm.h		
uti/namelist	oulan_nadirs.h	oulan_nanbob.h	
uti/oulan	ext_acar.F	ext_airep.F	ext_airsbt.F
	ext_atovs.F	ext_bathy.F	ext_buoy.F
	ext_cyclone.F	ext_ers1.F	ext_europrofil.F
	ext_gpssol.F	ext_paobreu.F	ext_pilot.F
	ext_profiler.F	ext_radomeh.F	ext_satem.F
	ext_satgeo.F	ext_satob.F	ext_ssmi.F
	ext_ssmice.F	ext_synop.F	ext_synor.F
	ext_temp.F	ext_tesac.F	ext_tovs.F
	ext_tovsamsua.F	ext_tovsamsub.F	ext_tovshirs.F
	ext_tovshirs_ech.F	ext_tovsmsu.F	oulan.F
	oulan_extract.F	oulan_init.F	oulan_namelist.F

GCO

Doc:

Lecture d'un fichier FA et ajout de champs dans ce fichier .

Project: utilitaires
ClearCase branch: marp001_CY33T0_addsurf

Added:

uti/addsurf proajout.F proajoutec.F prolecfa.F

Modified:

uti/addsurf proajout.F proajoutec.F prolecfa.F

Doc:

*1/ Retour arrière sur certaines des modificationss de Fatima Karbou.
2/ Correction de bug (LDLATLONG).*

Project: arpege,odb
ClearCase branch: marp001_CY33T0_correction

Modified:

arp/namelist namjg.h
odb/cma2odb ctxinitdb.F90 update_obsdb.F90

Doc:

Introduction du schéma EDKF dans AROME .

Project: arpege
ClearCase branch: marp001_CY33T0_mrmh004_EDKF

Added:

mpa/turb/externals	aro_shallow_mf.mnh	aroini_mfshal.mnh	
mpa/turb/interface	aro_shallow_mf.h	aroini_mfshal.h	
mpa/turb/internals	compute_bl89_ml.mnh	compute_entr_detr.mnh	compute_frac_ice1d.mnh
	compute_frac_ice2d.mnh	compute_frac_ice3d.mnh	compute_function_thermo3d.mnh
	compute_mf_cloud.mnh	compute_updraft.mnh	ini_cmfshall.mnh
	mf_turb.mnh	shallow_mf.mnh	th_r_from_thl_rt_1d.mnh
	th_r_from_thl_rt_2d.mnh	thl_rt_from_th_r_mf.mnh	tridiag_massflux.mnh
	updraft_sope.mnh		
mpa/turb/module	modd_cmfshall.mnh	mode_thermo_mono.mnh	modi_compute_bl89_ml.mnh
	modi_compute_entr_detr.mnh	modi_compute_frac_ice.mnh	modi_compute_frac_ice3d.mnh
	modi_compute_function_thermo_mf.mnh	modi_compute_mf_cloud.mnh	modi_compute_updraft.mnh
	modi_ini_cmfshall.mnh	modi_mf_turb.mnh	modi_shallow_mf.mnh
	modi_th_r_from_thl_rt_1d.mnh	modi_th_r_from_thl_rt_2d.mnh	modi_thl_rt_from_th_r_mf.mnh
	modi_tridiag_massflux.mnh	modi_updraft_sope.mnh	

Modified:

arp/module	yomamar.F90	yomarphy.F90	
arp/namelist	namarphy.h	namparar.h	
arp/phys_dmn	apl_arome.F90	suparar.F90	suphmpa.F90
arp/setup	su0phy.F90	sudyn_setgflattr.F90	sugfl.F90
mpa/micro/externals	aro_adjust.mnh		
mpa/micro/interface	aro_adjust.h		
mpa/micro/internals	ice_adjust.mnh		
mpa/micro/module	modi_ice_adjust.mnh		
mpa/turb/externals	aro_shallow_mf.mnh	aro_turb_mnh.mnh	aroini_mfshal.mnh
mpa/turb/interface	aro_shallow_mf.h	aro_turb_mnh.h	aroini_mfshal.h
mpa/turb/internals	compute_bl89_ml.mnh	compute_entr_detr.mnh	compute_frac_ice1d.mnh
	compute_frac_ice2d.mnh	compute_frac_ice3d.mnh	compute_function_thermo
	compute_mf_cloud.mnh	compute_updraft.mnh	ini_cmfshall.mnh
	ini_cturb.mnh	mf_turb.mnh	shallow_mf.mnh
	th_r_from_thl_rt_1d.mnh	th_r_from_thl_rt_2d.mnh	thl_rt_from_th_r_mf.mnh
	tridiag_massflux.mnh	turb.mnh	updraft_sope.mnh
mpa/turb/module	modd_cmfshall.mnh	mode_thermo_mono.mnh	modi_compute_bl89_ml
	modi_compute_entr_detr.mnh	modi_compute_frac_ice.mnh	modi_compute_frac_ice
	modi_compute_function_thermo_mf.mnh	modi_compute_mf_cloud.mnh	modi_compute_updraft.
	modi_ini_cmfshall.mnh	modi_mf_turb.mnh	modi_shallow_mf.mnh
	modi_th_r_from_thl_rt_1d.mnh	modi_th_r_from_thl_rt_2d.mnh	modi_thl_rt_from_th_r_r
	modi_tridiag_massflux.mnh	modi_turb.mnh	modi_updraft_sope.mnh

Doc:

L'utilisation de la fonction GAMMA pose problème. En fait, c'est une fonction intrinsèque fortran 90/95 pour certains compilateurs (NEC et g95 par exemple), mais pas pour d'autres (pgf90 par exemple).

Au niveau du code ARPEGE, cette fonction est redéfinie dans le module YOMGAMMA, donc pas de soucis. Par contre, au niveau du code surfex introduit depuis la version cy33t0_op1.02, la fonction GAMMA est appelée par la routine INIT_TOP mais là elle n'est pas redéfinie: il y a donc un problème dans le cas où elle n'est pas intrinsèque.

Pour résoudre ce problème, et pour être sûr de savoir quelle fonction GAMMA on appelle:

- 1) la fonction GAMMA définie dans YOMGAMMA est renommée en GENERALIZED_GAMMA, ainsi que dans toutes les routines ARPEGE utilisant cette fonction,*
- 2) une fonction GAMMAS (et son interface MODI_GAMMAS) a été créée dans le projet "mse", et la routine INIT_TOP appelle désormais GAMMAS .*

Ces modifications ont également été faites dans le pré-cycle CY33T1 .

Project: arpege,Meso-NH surface
ClearCase branch: marp001_CY33T0_op1gamma

Added:

mse/internals gammas.mnh
mse/module modi_gammas.mnh

Modified:

arp/module	yomclmicst.F90	yomgamma.F90
arp/phys_dmn	advprc.F90	advprcs.F90
arp/pp_obs	refsim.F90	refsim_2dop.F90

mse/internals gammas.mnh init_top.mnh
mse/module modi_gammas.mnh

Doc:

[missing]

Project: arpege,black_list,odb,utilitaires
ClearCase branch: marp001_CY33T0_rvradar

Modified:

arp/obs_preproc black.F90
bla mf_blacklist.b
odb/cma2odb ctxinitdb.F90
uti/module bator_util_mod.F90

Doc:

Remove a useless duplicated "end" at the end of the subroutine (splie.F).

Project: Meso-NH surface
ClearCase branch: marp001_CY33T0_t1bf

Modified:

mse/internals splie.F

Doc:

Nettoyage de la subroutine MAN_FCQ_BDM_FUS utilisée dans FCQODB :
- remplacement de toutes les déclarations "POINTER" par des "ALLOCATABLE" (NB: aucun pointeur n'est utilisé en tant que tel dans cette subroutine, donc la déclaration en "POINTER" est à proscrire),
- remise à la norme fortran 90 (remplacement de .EQ. par ==, .NE. par /=, etc...),
- déclaration de certains tableaux en ALLOCATABLE (avec ALLOCATE/DEALLOCATE),
- remplacement du tableau INDEX (mot réservé) par IINDEX,
- remplacement de boucles du style:

```
DO JJ=1,INBVAL  
  ICQ_N(JJ) = ICQ_2(J2,JJ)  
  ILELA_N(JJ) = ILELA_2(J2,JJ)  
ENDDO
```

par:

```
ICQ_N(1:INBVAL) = ICQ_2(J2,1:INBVAL)  
ILELA_N(1:INBVAL) = ILELA_2(J2,1:INBVAL)
```

Avec ces modifications, le programme FCQODB fonctionne correctement sur le NEC, sans avoir à initialiser la variable LLPRINT à TRUE dans le code source!

Project: utilitaires
ClearCase branch: marp001_CY33T0_testfcq

Modified:

uti/fcq man_fcq_bdm_fus.F90

GUIDARD Vincent

Doc:

Set sensor id for IASI in bator_decodbufr_mod.F90 and remove useless fix in bator_saisies_mod.F90 .

Project: utilitaires
ClearCase branch: mrpe710_CY33T0_batorIASIbf

Modified:

uti/module bator_decodbufr_mod.F90 bator_saisies_mod.F90

Doc:

[missing]

Project: utilitaires
ClearCase branch: mrpe710_CY33T0_batorbf

Modified:

uti/module bator_saisies_mod.F90

Doc:

Création du programme MERGE_VARBC qui a pour vocation de fusionner des entrées de deux fichiers VARBC.cycle.

Ce programme est très basique pour le moment et permet uniquement d'ajouter entrées du fichier "A" (VARBC.cycle) les entrées qui ne sont que dans le fichier "B" (VARBC.cycle2).

Entrées : fichiers VARBC.cycle et VARBC.cycle2 (typiquement VARBC.cycle venant d'ARPEGE et VARBC.cycle venant d'ALADIN).

Sortie : fichier VARBC.cycle_out.

Project: arpege,utilitaires
ClearCase branch: mrpe710_CY33T0_mergeVarbc

Added:

arp/var gtvarbc_groupid.F90
uti/merge_varbc merge_varbc.F90

Modified:

arp/control cnt1.F90
arp/var gtvarbc_groupid.F90 rdvarbc.F90 suvarbc.F90
svvarbc.F90 wrvarbc.F90
uti/merge_varbc merge_varbc.F90

Doc:

- 1. Remove useless print*
- 2. Reject IASI data which are out of physical range*
- 3. Reject bad AMSUA AQUA data & misc. cleaning*
- 4. Add interfaces*

Project: arpege,odb,utilitaires

ClearCase branch: mrpe710_CY33T0_nextdb

Added:

odb/ddl update_hdr_4.sql

Modified:

arp/pp_obs	hretr.F90	radtr.F90	radtrskin.F90
odb/cma2odb	ctxinitdb.F90	update_obsdb.F90	
odb/ddl	satbody_screen_atovs.sql	update_hdr_4.sql	
uti/controldb	controdb.F90		
uti/fcq	fcqodb.F90	fcqodb_DRIBU.F90	fcqodb_PILOT.F90
	fcqodb_SYNOP.F90	fcqodb_TEMP.F90	
uti/module	bator_decodbufr_mod.F90		

MOLL Patrick

Doc:

[missing]

Project: arpege,black_list,odb

ClearCase branch: mrpa646_CY33T0_dblobs

Added:

odb/ddl satbody_screen_atovs.sql

Modified:

arp/control	forecast_error.F90		
arp/pp_obs	hretr.F90	rad1cemis.F90	radtrb.F90
bla	mf_blacklist.b		
odb/cma2odb	ctxinitdb.F90	getdb.F90	
odb/ddl	satbody_screen_atovs.sql		

Doc:

[missing]

Project: arpege,black_list,satrad

ClearCase branch: mrpa646_CY33T0_dblobs3

Modified:

arp/adiab	cpg_dia.F90		
arp/obs_preproc	fgchk.F90		
arp/pp_obs	radtrcld.F90		
bla	mf_blacklist.b		
sat/bias	getbcccoef.F90	getbias.F90	

Doc:

[missing]

Project: arpege,black_list,odb,satrad
ClearCase branch: mrpa646_CY33_nextdb

Modified:

arp/module	yomemis.F90	yomlimb.F90	
arp/obs_preproc	pre_thinner.F90		
arp/pp_obs	hretr.F90	radtr.F90	radtrad.F90
	radtrk.F90		
arp/var	rtsetup.F90	sulimb.F90	suvarbc.F90
bla	mf_blacklist.b		
odb/ddl	pre_thinn_roboddy_9.sql		
sat/emiss	land_amsua_an1.F90	land_amsua_an2.F90	land_amsub_an1.F90
	land_amsub_an2.F90		

MONTMERLE Thibaut

Doc:

1/ Blacklisting des radars:

arp/obs_preproc/black.F90
arp/obs_preproc/blackhat.F90
arp/obs_preproc/blinit.F90
bla/mf_blacklist.b
odb/cma2odb/ctxinitdb.F90
odb/ddl/black_robhdr_9.sql
odb/ddl/black_roboddy_9.sql
odb/ddl.ECMA/black_robhdr_9.sql
odb/ddl.ECMA/black_roboddy_9.sql

2/ Suppressions de commentaires divers:

arp/obs_preproc/new_thinn_radar.F90
arp/obs_preproc/pre_thinn_radar.F90
arp/obs_preproc/thinn_radar.F90
arp/pp_obs/dopplsim_ad.F90
arp/pp_obs/dopplsim.F90
arp/pp_obs/dopplsim_tl.F90
uti/module/bator_util_mod.F90

3/ Correction de bugs mineures dans l'opérateur d'observation 1D de la réflectivité:

arp/pp_obs/reflsim.F90

4/ Ajout du beamwidth dans la table radar_station:

odb/ddl/sathdr_radar.sql
uti/module/bator_decodbuf_mod.F90
uti/module/bator_ecriptions_mod.F90
uti/bator/bator.F90

5/ Modification des allocations de tableaux pour la lecture du Bufr radar

odb/module/bufr_module.F90

Project: arpege,black_list,odb,utilitaires
ClearCase branch: mrpa666_CY33T0_op1_radar

Added:

odb/ddl.ECMA black_robhdr_9.sql black_robody_9.sql
odb/ddl black_robhdr_9.sql black_robody_9.sql

Modified:

arp/obs_preproc	black.F90	blackhat.F90	blinit.F90
	new_thinn_radar.F90	pre_thinn_radar.F90	thinn_radar.F90
arp/pp_obs	dopplsim.F90	dopplsim_ad.F90	dopplsim_tl.F90
	reflsim.F90		
bla	mf_blacklist.b		
odb/cma2odb	ctxinitdb.F90		
odb/ddl	black_robhdr_9.sql	black_robody_9.sql	sathdr_radar.sql
odb/module	buf_r_module.F90		
uti/bator	bator.F90		
uti/module	bator_decodbuf_r_mod.F90	bator_ecriptions_mod.F90	bator_util_mod.F90

Doc:

1/ Mise en liste noire du radar d'Arcis .
2/ Report du statut de pixels rachetés dans le filtrage médian.
3/ Bonne prise en compte du contrôle de qualité des vitesses radiales.

Project: arpege,black_list,utilitaires
ClearCase branch: mrpa666_CY33T0_radar_bugfix_tm

Modified:

arp/obs_preproc	first.F90
bla	mf_blacklist.b
uti/module	bator_decodbuf_r_mod.F90 bator_util_mod.F90

Doc:

Ajout des variables RMIND_RADAR et RFIND_RADAR dans la namelist NAMSCC, permettant de modifier la taille des boîte de thinning par namelist.

Project: arpege
ClearCase branch: mrpa666_CY33T0_radar_tm

Modified:

arp/namelist namsc.h

PAYAN Christophe**Doc:**

Prise en compte du flag choix vent scat après assimilation (pour "obstat").

Project:
ClearCase branch: mrpa642_CY33T0_latescat

Modified:

obt/src odbscatamb.F90 updssoft.F90

Doc:

1/ Phasage de prescat avec le projet scat du Centre Européen .
2/ Traitement (implicit) du nouveau flux QuikSCAT de la NESDIS prévu opérationnel pour juin 2007 .

Project: arpege,odb,utilitaires
ClearCase branch: mrpa642_CY33T0_newquik

Added:

uti/prescat afilter
uti/prescat/afilter ascat_buf_r_filter.F

Modified:

arp/module	yomcosjo.F90	yomsc.c.F90	
arp/namelist	namjo.h	namsc.c.h	
arp/obs_preproc	defrun.F90	new_thinn.F90	qscatin.F90
	scaqc.F90		
arp/pp_obs	hjo.F90		
arp/setup	suevents.F90		
odb/ddl	new_thinn_robhdr_6.sql	post_thinn_robhdr_6.sql	post_thinn_robod_y_6.sql
	pre_thinn_robhdr_6.sql	pre_thinn_robod_y_6.sql	thinn_robhdr_6.sql
	thinn_robod_y_6.sql		
uti/prescat/afilter	ascat_buf_r_filter.F		
uti/prescat/dcone_qc	dcone_qc.F	scan_buf_r.F	
uti/prescat/etimesort	timesort.F		
uti/prescat/module	qrain.F	qtabdata.F	
uti/prescat/qbukey	buf_r_qscat.F		
uti/prescat/qretrieve	dist2cone.F	qscat25to50km.F	read_qscat25kmbuf_r.F
	readtable.F	regroup.F	write_50kmbuf_r.F
uti/prescat/qscat_split	process_buf_r.F	qscat_split.F	

POLI Paul

Doc:

This branch includes changes in the PREGPSSOL tool (ground-based GPS pre-processing). The modifications enable to pre-process data for AROME, i.e. 3DVAR assimilation with 3-hour time window. The environment variable 'MODELE_GPSSOL' can be set to a new possible value 'AROME' (in addition to the previously allowed values 'ARPEGE' and 'ALADIN').

Project: utilitaires
ClearCase branch: mrpa679_CY33T0_gpsarome

Modified:

uti/pregpssol	filter_gpssol.F90	get_model_gpssol.F90	get_tslot_gpssol.F90
	pregpssol.F90	read_list_gpssol.F90	read_obsoul_gpssol.F90
	write_obsoul_gpssol.F90		

Doc:

Prise en compte des vents RADAR et du cut-off 3h .

Project: ,odb
ClearCase branch: mrpa679_CY33T0_obstat_radar1

Added:

odb/ddl.CCMA obstat_radwd.sql
odb/ddl.ECMA obstat_radwd.sql
odb/ddl obstat_radwd.sql

Modified:

obt/module obsdata.F90
obt/src iniglob.F90 odbread.F90 plotrms.F90
plotrmsbias.F90 updsoft.F90
odb/ddl obstat_radwd.sql

Doc:

The changes in this branch allow to select observations that fall only within $\pm 1h30$ around the observation time. This was required in order to be able to compare experiments using 6-hour cutoffs with experiments using 3-hour cutoffs.

Project:
ClearCase branch: mrpa679_CY33T0_obstat_radar2

Modified:

obt/src inisoftdef.F90 plotrms.F90 plotrmsbias.F90
plotsoft.F90

Doc:

The contribution in this branch enables OBSTAT to generate statistics for IASI channels as a function of wavelength.

This behaviour is consistent with how OBSTAT handles AIRS statistics. A new file is required as input, called "iasi_channels".

That file contains the same kind of information as found in "airs_channels" (channel number versus wavelength in microns).

This branch also fixes a bug that had been present in OBSTAT for a while: when plotting overlaid discontinuous curves,

symbols were --sometimes-- previously missing (see changes inside plotrms and plotrmsbias).

Project:
ClearCase branch: mrpa679_CY33T0_obstat_v3

Modified:

obt/module globvar.F90 obsdata.F90 statsoft.F90
obt/src calcairspop.F90 iniglob.F90 inisoft.F90
inisoftdef.F90 inisoftstat.F90 obstat.F90
odbread.F90 odbscatamb.F90 plotcov.F90
plothis.F90 plotime.F90 plotrms.F90
plotrmsbias.F90 plotsoft.F90 plotusage.F90
updsoft.F90 writesoft.F90

Doc:*[missing]***Project:****ClearCase branch:** mrpa679_CY33T0_obstat_v4**Modified:**

obt/src mergesoft.F90

Doc:

The following changes increase the use of GPSRO data at MF. Data are used down to lower altitudes in the Northern hemisphere (symmetric to what is already used in the Southern hemisphere), and up to higher altitudes (25 km instead of 18 km).

bla/mf_blacklist.b

Remove blacklisting of GPSRO below 6 km altitude in the Northern hemisphere and use data up to 25 km altitude.

arp/obs_preproc/pre_thinner.F90

Select the GPSRO observation that is the closest to the bottom of the model layer.

odb/ddl/pre_thinn_roboddy_9.sql

Add parameter press_rl (as read-only) in the SQL request for thinning GPSRO data.

Project: arpege,black_list,odb**ClearCase branch:** mrpa679_CY33_moregpsro**Modified:**

arp/module yomlimb.F90

arp/obs_preproc pre_thinner.F90

arp/var sulimb.F90

bla mf_blacklist.b

odb/ddl pre_thinn_roboddy_9.sql

Doc:

This branch includes upgrades to calculate estimated observation, background, and analysis standard deviation errors

following the diagnoses developed by Desroziers et al. (QJRMS, 2005).

Other additions include support for ASCAT and retrieving press_rl from the ODB.

Finally, the changes allow the specification of a different vertical coordinates for 1D plots (To use this feature,

one needs to set explicitly "coorditem" in the stat.def file, for example "coorditem= 43" if one wants to use press_rl

instead of press [default] as a vertical coordinate).

Project: ,odb**ClearCase branch:** mrpa679_CY33_obstat_v1**Modified:**

obt/module obsdata.F90

obt/src iniglob.F90 inisoftdef.F90 odbread.F90

odbscatamb.F90 plotrms.F90 plotrmsbias.F90

updsoft.F90

odb/ddl obstat.sql obstat_gpsro.sql obstat_reo3.sql
 obstat_tovs.sql

SAEZ Patrick

Doc:

1/ Le tableau ZWP_SAT était utilisé deux fois avec un indice réel: une instruction NINT a été ajoutée.

2/ En effectuant des tests de C901 avec la version DSI des fichiers GRIB d'entrée, il a été trouvé un "double" nouveau problème qui devait sûrement créer un débordement passé inaperçu (présence de "Floating-point zero divide" dans le listing).

La cause est double:

- Il y a des points sur terre avec un indice SLT (soil texture type) prenant une valeur sur mer. Ceci est du au fichier d'entrée utilisé par la DSI (extrapolé en T511 pour gagner de la place) et non en troncature nominale du CEP (il n'y a pas ce type de problème sur les fichiers natifs en T799).

- Le CEP a ajouté une nouvelle valeur sans prévenir (valeur 7 pour un indice normalement compris entre 1 et 6).

Il faut donc impérativement inclure les corrections ci-dessous avant le prochain test du restart.

Project: arpege
ClearCase branch: mrpm608_CY32T0_c901

Modified:

arp/control cprep1.F90
arp/namelist nammars.h

SEITY Yann

Doc:

Complément de merge de la branche mrpm637_CY33_surfex3 de Yann Seity .

Project: Meso-NH surface
ClearCase branch: marp001_CY33_surfex3

Modified:

mse/internals	param_cls.mnh		
mse/module	modd_ch_isba_n.mnh	modd_ch_seaflux_n.mnh	modd_ch_surf_n.mnh
	modd_ch_teb_n.mnh	modd_ch_watflux_n.mnh	modd_diag_evap_isba_n.mnh
	modd_diag_misc_isba_n.mnh	modd_diag_misc_teb_n.mnh	modd_dst_n.mnh
	modd_dst_surf.mnh	modd_isba_n.mnh	modd_pack_diag_isba.mnh
	modd_pack_isba.mnh	modd_prep_isba.mnh	modd_seaflux_n.mnh
	modd_teb_n.mnh	modd_watflux_n.mnh	mode_dstmbl.mnh
	mode_dstmblutl.mnh	mode_gridtype_gauss.mnh	mode_modeln_surfex_handler.mnh
	mode_sbls.mnh	modi_bld_e_budget.mnh	modi_canopy_evol_temp.mnh
	modi_canopy_evol_tke.mnh	modi_canopy_evol_wind.mnh	modi_close_file_fa.mnh
	modi_close_namelist_fa.mnh	modi_coare30_seaflux.mnh	modi_cotwo.mnh
	modi_cotwoinit_n.mnh	modi_cotwores.mnh	modi_cotworestress.mnh
	modi_default_ch_bio_flux.mnh	modi_default_ch_dep.mnh	modi_default_diag_flake.mnh
	modi_default_flake.mnh	modi_default_isba.mnh	modi_default_prep_flake.mnh

modi_default_seaflux.mnh	modi_default_surf_atm.mnh	modi_dgam.F
modi_diag_flake_init_n.mnh	modi_diag_flake_n.mnh	modi_diag_misc_isba_n.mnh
modi_diag_misc_teb_n.mnh	modi_e_budget.mnh	modi_end_io_surf_fa_n.mnh
modi_error_read_surf_fa.mnh	modi_error_write_surf_fa.mnh	modi_exp_decay_soil.mnh
modi_get_adj_mes_ign.mnh	modi_get_latlonmask_n.mnh	modi_get_mesh_dim_ign.mnh
modi_get_near_meshes_ign.mnh	modi_hor_interpol_buffer.mnh	modi_hydro.mnh
modi_hydro_sgh.mnh	modi_hydro_soil.mnh	modi_hydro_soildif.mnh
modi_hydro_veg.mnh	modi_ice_sea_flux.mnh	modi_init_from_data_seaflux_n.
modi_init_io_surf_fa_n.mnh	modi_init_top.mnh	modi_isba.mnh
modi_isba_sgh_update.mnh	modi_mr98.mnh	modi_open_file_fa.mnh
modi_open_namelist_fa.mnh	modi_pack_pgd_seaflux.mnh	modi_pgd_flake.mnh
modi_pgd_seaflux_par.mnh	modi_prep_ctrl_flake.mnh	modi_prep_ctrl_isba.mnh
modi_prep_ctrl_seaflux.mnh	modi_prep_ctrl_surf_atm.mnh	modi_prep_ctrl_teb.mnh
modi_prep_ctrl_watflux.mnh	modi_prep_flake.mnh	modi_prep_flake_buffer.mnh
modi_prep_flake_extern.mnh	modi_prep_flake_grib.mnh	modi_prep_flake_sbl.mnh
modi_prep_flake_unif.mnh	modi_prep_hor_flake_field.mnh	modi_prep_isba_ascllv.mnh
modi_prep_isba_canopy.mnh	modi_prep_seaflux_sbl.mnh	modi_prep_sst_init.mnh
modi_prep_teb_canopy.mnh	modi_prep_ver_flake.mnh	modi_prep_watflux_sbl.mnh
modi_read_default_flake_n.mnh	modi_read_flake_conf_n.mnh	modi_read_flake_date.mnh
modi_read_flake_n.mnh	modi_read_flake_sbl_n.mnh	modi_read_isba_canopy_n.mnh
modi_read_pgd_flake_n.mnh	modi_read_pre_flake_dat_conf.mnh	modi_read_prep_flake_conf.mnh
modi_read_seaflux_sbl_n.mnh	modi_read_surf.mnh	modi_read_teb_canopy_n.mnh
modi_read_watflux_sbl_n.mnh	modi_rmc01_surf.mnh	modi_road_wall_layer_e_budge
modi_roof_layer_e_budget.mnh	modi_soil.mnh	modi_soildif.mnh
modi_sst_update.mnh	modi_surface_aero_cond.mnh	modi_surface_cdch_1darp.mnh
modi_teb.mnh	modi_teb_canopy.mnh	modi_temporal_dists.mnh
modi_temporal_lts.mnh	modi_test_nam_var_surf.mnh	modi_tridiag_surf.mnh
modi_unitfp_flux.mnh	modi_unitfp_seaflux.mnh	modi_urban_drag.mnh
modi_urban_fluxes.mnh	modi_urban_snow_evol.mnh	modi_water_flux.mnh
modi_wind_threshold.mnh	modi_write_diag_flake_n.mnh	modi_write_diag_seb_flake_n.m
modi_write_flake_n.mnh	modi_write_surf.mnh	modi_writesurf_flake_conf_n.mr
modi_writesurf_flake_n.mnh	modi_writesurf_flake_sbl_n.mnh	modi_writesurf_isba_canopy_n.
modi_writesurf_pgd_flake_n.mnh	modi_writesurf_seaflux_sbl_n.mnh	modi_writesurf_teb_canopy_n.m
modi_writesurf_watflux_sbl_n.mnh	modn_dst.mnh	modn_isba_n.mnh
modn_prep_isba.mnh	modn_prep_seaflux.mnh	modn_prep_teb.mnh
modn_prep_watflux.mnh	modn_seaflux_n.mnh	modn_teb_n.mnh
modn_watflux_n.mnh		

Doc:

- 1/ Assouplissement d'un test un peu trop sévère (aroini_surf.mnh).
- 2/ Mise à 0 la nuit des flux solaires directs et diffus sur les 6 bandes spectrales envoyées à Surfex (recmwf.F90).
- 3/ Création d'une routine "aro_put_zs.mnh" dans "mse/externals" (et de son interface), de manière à corriger un appel non autorisé dans ARPEGE (fp2sx1.F90) à la routine "put_zs.mnh" qui se trouve dans "mse/internals".

Project: arpege,Meso-NH surface,satrad
ClearCase branch: mrpm637_CY33T0_arome_bf2

Added:

mse/externals aro_put_zs.mnh
mse/interface aro_put_zs.h

Modified:

arp/phys_dmn recmwf.F90
arp/pp_obs fp2sx1.F90
mse/externals aro_put_zs.mnh aroini_surf.mnh
mse/interface aro_put_zs.h
sat/rttov getcparam.F90

Doc:

Initialisations de NSHISTS et NFSRHIS qui était mal faite dans le cas NCONF=601 .

Project: arpege
ClearCase branch: mrpm637_CY33T0_aromebfs

Modified:

arp/setup suct0.F90

Doc:
Bugfixes .

Bugfix.

Project: Meso-NH physique altitude
ClearCase branch: mrpm637_CY33T0_bfsAROME

Added:

mse/internals flag_update.mnh
mse/module modd_write_surf_atm.mnh modi_default_write_surf_atm.mnh modi_flag_update.mnh
modn_write_surf_atm.mnh

Modified:

mpa/turb/internals	bl89.mnh		
mse/internals	default_write_surf_atm.mnh	flag_update.mnh	init_surf_atm_n.mnh
	read_default_surf_atm_n.mnh	read_surf_atm_conf_n.mnh	write_diag_seb_flake_n.mnh
	write_diag_seb_isba_n.mnh	write_diag_seb_seaflux_n.mnh	write_diag_seb_surf_atm_n.mnh
	write_diag_seb_teb_n.mnh	write_diag_seb_watflux_n.mnh	write_flake_n.mnh
	write_isba_n.mnh	write_seaflux_n.mnh	write_surf_atm_n.mnh
	write_teb_n.mnh	write_watflux_n.mnh	writesurf_atm_conf_n.mnh
mse/module	modd_write_surf_atm.mnh	modi_default_write_surf_atm.mnh	modi_flag_update.mnh
	modi_write_diag_seb_flake_n.mnh	modi_write_flake_n.mnh	modn_write_surf_atm.mnh

Doc:

1/ Bugfix n°3 de surfex + modset permettant de modifier le Ri en namelist:

** correction du z0eff dans le cas Aladin;*

** correction d'un débordement de tableau dans canopy;*

** correction d'un pb de vectorisation;*

** correction du plantage dans Isba DF;*

** initialisation du contenu en eau à partir des fichiers cep qui prend en compte plusieurs types de sol pour calculer le SWI;*

** patch permettant d'ajuster le paramètre XRIMAX dans la namelist NAM_SURF_ATM (par défaut, il vaut 0.2).*

2/ Correction d'une bug active lorsqu'on prenait en compte les flux ECUME sur mer dans SURFEX .

Project: Meso-NH surface
ClearCase branch: mrpm637_CY33T0_mrpm637_CY33T0_surfex3_bf3

Added:

mse/internals heatcapz.mnh
mse/module modd_surf_atm.mnh modi_heatcapz.mnh

Modified:

mse/internals	allocate_gr_snow.mnh	average_diag.mnh	averaged_albedo_emis_isba.mnh
	canopy_grid_update.mnh	coare30_flux.mnh	coupling_flake_sbl_n.mnh
	coupling_isba_canopy_n.mnh	coupling_seaflux_sbl_n.mnh	coupling_teb_n.mnh
	coupling_watflux_sbl_n.mnh	default_surf_atm.mnh	detect_field.mnh
	diag_inline_flake_n.mnh	diag_inline_isba_n.mnh	diag_inline_seaflux_n.mnh
	diag_inline_watflux_n.mnh	diag_isba_init_n.mnh	diag_misc_isba_n.mnh
	drag.mnh	gammas.mnh	get_mesh_dim.mnh
	heatcapz.mnh	hydro_soildif.mnh	init_isba_n.mnh
	init_surf_atm_n.mnh	init_top.mnh	isba.mnh
	mkflag_snow.mnh	pack_isba_patch_n.mnh	prep_isba_ascllv.mnh
	read_gr_snow.mnh	read_pgd_seaflux_par_n.mnh	soildif.mnh
	surf_version.mnh	thrmcondz.mnh	unitfp_seaflux.mnh
	write_diag_pgd_isba_n.mnh	writesurf_gr_snow.mnh	writesurf_pgd_seaf_par_n.mnh
	z0eff.mnh		
mse/module	modd_surf_atm.mnh	mode_read_grib.mnh	modi_coare30_flux.mnh
	modi_default_surf_atm.mnh	modi_diag_inline_flake_n.mnh	modi_diag_misc_isba_n.mnh
	modi_heatcapz.mnh	modi_hydro_soildif.mnh	modi_init_top.mnh
	modi_isba.mnh	modi_prep_isba_ascllv.mnh	modi_read_pgd_seaflux_par_n.mnh
	modi_soildif.mnh	modi_thrmcondz.mnh	modi_unitfp_seaflux.mnh
	modi_writesurf_pgd_seaf_par_n.mnh		

Doc:

Since the begining of AROME prototype, we had to read and write some ALADIN Isba fields in our files even if they are not needed, and completly disconnected from SURFEX. The purpose of this modset is to be able during an AROME run to read/write only needed fields.

Concretaly, with the following changes in namelists :

EE927 : NAMCT0 add LAROME=T

NAMPHY add LVGSN=F, LSOLV=F, LFGEL=FALSE,

NAMFPC concerning CFPPHY, let only SURFTEMPERATURE, SURFIND.TERREMER, 3

Ozone fields and 4 aérosol fields (it will remove 26 2D fields from coupling files). This modification is not done for the ICMSHALBC+0000 file (More explanations in the Fullpos section)

EE927surfex : no change

Forecast : no change in namelist but the following 11 following fields are not written in output files : PROFTEMPERATURE, PROFRESERV.EAU, PROFRESERV.GLACE, SURFRESERV.NEIGE, SURFTEMPERATURE, SURFRESERV.EAU, SURFRESERV.GLACE, SURFPROP.VEGEAT, SURFPROP.ARGILE, SURFPROP.SABLE, SURFEPAIS.SOL

Fullpos : remove PROFTEMPERATURE, SURFRESERV.EAU, PROFRESERV.EAU, PROFRESERV.GLACE, SURFRESERV.NEIGE from NAMFPC and replace NFPCLI=3 by 1, add in NAMPHY LSOLV=F and LFGEL=F. Before stating fullpos, we previously had to run prolighnt in order to add 12 ALADIN-Isba fields. With this modset, it is not necessary, except from +00 step (fields were taken from ICMSHALBC+0000).

The results are not changed by these modifications, except SURFTEMPERATURE which is now simply interpolated and not interpolated according to clim files (NFPCLI=1 instead of 3 in Fullpos).

Project: arpege
ClearCase branch: mrpm637_CY33_champsurf

Modified:

arp/control scan2mdm.F90
arp/phys_dmn initaplar.F90
arp/pp_obs fpcorphy.F90 gridfpos.F90 specfitadm.F90
arp/setup su0phy.F90 su_surf_fds.F90 sufptr2.F90

Doc:

Summary: new handling of Surfex output files production.

Situation before this modset : Surfex output files production was managed by namelist parameter NDIAGFR (in namelist NAMPARAR) which represented a time step frequency of Surfex output files production

New situation : NDIAGFR has been removed from NAMPARAR and replaced by NSHISTS in NAMCT0. NSHISTS has for surfex output files, the same meaning and behaviour as NHISTS for atmospheric output files. A consistency check is done in the setup : At each time step, the surfex output files can only be produced if an atmospheric one has been required. Under STEPO, a new letter appears in CDCONF(1:1) which is 'S' in case a surfex output file is required. In that case, ARO_SURF_DIAGH will be called under IOPACK.

This modset also includes a consistency check (suphmse, aroini_surf.mnh and aroini_surf.h). It is done between the date of initial surfex file and the date of the model start. It also includes a correction in scan2mdm.F90 concerning non-coupled GFL fields.

Project: arpege,Meso-NH surface
ClearCase branch: mrpm637_CY33_histsurf

Modified:

arp/control cnt4.F90 cnt4ad.F90 cnt4tl.F90
monio.F90 scan2mdm.F90 stepo.F90
arp/dia aro_surf_diagh.F90 wrmlppadm.F90
arp/module yomct0.F90
arp/namelist namct0.h namparar.h
arp/phys_dmn suparar.F90 suphmse.F90
arp/setup suct0.F90 sumpini.F90
arp/utility iopack.F90
mse/externals aroini_surf.mnh
mse/interface aroini_surf.h

Doc:

Surfex 3 bf2 version includes some modifications in surface scheme. Among them, concerning surface diagnostics, CANOPY/SBL scheme is included (to activate it, you will have to add in NAM_PREP_ISBA of PRE_REAL1.nam (surfex namelist of the preparation of initial surface file) LISBA_CANOPY = .TRUE.

In stable conditions, with N2M=1, Paulson diagnostic goes back the one of surfex1 (linear interpolation between Ta and Ts). The 'FLAKE' lakes model is also included in the code (it has not been tested in AROME).

Project: arpege,Meso-NH surface

ClearCase branch: mrpm637_CY33_surfex3

Added:

mse/internals	canopy_evol.mnh	canopy_evol_temp.mnh	canopy_evol_tke.mnh
	canopy_evol_wind.mnh	canopy_grid.mnh	canopy_grid_update.mnh
	close_aux_io_surf_fa.mnh	close_file_fa.mnh	close_namelist_fa.mnh
	coupling_flake_n.mnh	coupling_flake_orography_n.mnh	coupling_flake_sbl_n.mnh
	coupling_isba_canopy_n.mnh	coupling_seaflux_sbl_n.mnh	coupling_watflux_sbl_n.mnh
	dealloc_flake_n.mnh	default_ch_bio_flux.mnh	default_ch_dep.mnh
	default_diag_flake.mnh	default_flake.mnh	default_prep_flake.mnh
	dgam.F	diag_flake_init_n.mnh	diag_flake_n.mnh
	diag_inline_flake_n.mnh	dlga.F	eisrs1.F
	end_io_surf_fa_n.mnh	error_read_surf_fa.mnh	error_write_surf_fa.mnh
	exp_decay_soil_dif.mnh	exp_decay_soil_fr.mnh	flake_interface.mnh
	get_adj_mes_ign.mnh	get_grid_coord_ign.mnh	get_latlonmask_n.mnh
	get_mesh_dim_ign.mnh	get_mesh_index_ign.mnh	get_near_meshes_ign.mnh
	goto_wrapper_flake.mnh	hor_interpol_buffer.mnh	hydro_sgh.mnh
	impmai.F	impmat.F	ini_cturbs.mnh
	init_flake_n.mnh	init_from_data_seaflux_n.mnh	init_io_surf_fa_n.mnh
	init_top.mnh	io_buff_clean_n.mnh	io_buff_n.mnh
	isba_sgh_update.mnh	latlon_gridtype_ign.mnh	latlonmask_ign.mnh
	mtxaxm.F	mtxm.F	mtxmt.F
	mxadd.F	mxaxmt.F	mxidml.F
	mxmspl.F	mxmt.F	mxntr.F
	mxsub.F	open_aux_io_surf_fa.mnh	open_file_fa.mnh
	open_namelist_fa.mnh	pack_grid_ign.mnh	pack_pgd_seaflux.mnh
	pgd_flake.mnh	pgd_seaflux_par.mnh	prep_ctrl_flake.mnh
	prep_ctrl_isba.mnh	prep_ctrl_seaflux.mnh	prep_ctrl_surf_atm.mnh
	prep_ctrl_teb.mnh	prep_ctrl_watflux.mnh	prep_flake.mnh
	prep_flake_buffer.mnh	prep_flake_extern.mnh	prep_flake_grib.mnh
	prep_flake_sbl.mnh	prep_flake_unif.mnh	prep_hor_flake_field.mnh
	prep_isba_ascllv.mnh	prep_isba_canopy.mnh	prep_seaflux_sbl.mnh
	prep_sst_init.mnh	prep_teb_canopy.mnh	prep_ver_flake.mnh
	prep_watflux_sbl.mnh	read_default_flake_n.mnh	read_flake_conf_n.mnh
	read_flake_date.mnh	read_flake_n.mnh	read_flake_sbl_n.mnh
	read_gridtype_ign.mnh	read_isba_canopy_n.mnh	read_nam_gridtype_ign.mnh
	read_pgd_flake_n.mnh	read_pgd_seaflux_par_n.mnh	read_pre_flake_dat_conf.mnh
	read_prep_flake_conf.mnh	read_seaflux_sbl_n.mnh	read_surfc0_fa.mnh
	read_surfl0_fa.mnh	read_surfl1_fa.mnh	read_surfn0_fa.mnh
	read_surfn1_fa.mnh	read_surft0_fa.mnh	read_surft1.mnh
	read_surft1_asc.mnh	read_surft2_fa.mnh	read_surfx0_fa.mnh
	read_surfx1_fa.mnh	read_surfx2_fa.mnh	read_surfx3.mnh
	read_teb_canopy_n.mnh	read_watflux_sbl_n.mnh	rnc01_surf.mnh
	s1i1dds.F	s2i2dds.F	scopy.F
	smxinv.F	sp0cvq.F	sp0nop.F
	sp0vpq.F	spb2e2d.F	spl0bvm.F
	spl0c.F	spl0d.F	spl0e.F
	spl0i.F	spl0p.F	spl0r.F
	spl0rs.F	spl0rs1.F	spl0u.F
	spl0v.F	spl0vm1.F	spl0w.F
	spl1c.F	spl1cds.F	spl1d.F
	spl1d1d.F	spl1e.F	spl1e1d.F
	spl1i.F	spl1i1d.F	spl1ids.F
	spl1rs1.F	spl1vm1.F	spl2c.F

	spl2cds.F	spl2d.F	spl2d2d.F
	spl2e.F	spl2e2d.F	spl2i.F
	spl2i2d.F	spl2ids.F	spl2rs1.F
	spl2vm1.F	splb2c.F	splb2e.F
	splb2e1.F	splbfin.F	splbsd.F
	splbsel.F	splbvm.F	splc.F
	spld.F	spld2v.F	spldrs.F
	splds2v.F	spldv.F	sple.F
	splg1d.F	splg2d.F	spli.F
	splie.F	splk.F	splkdx.F
	splm.F	splp.F	splpr.F
	splpr0.F	splps2v.F	splpv.F
	splr.F	splri.F	splrs.F
	spls2.F	spls2v.F	spls2vi.F
	splt.F	spltdx.F	spltt.F
	splu.F	splv.F	splvpq.F
	splw.F	sset.F	sst_update.mnh
	surface_cdch_1darp.mnh	teb_canopy.mnh	temporal_dists.mnh
	temporal_lts.mnh	test_nam_varl0_surf.mnh	test_nam_vam0_surf.mnh
	tred2.F	tridiag_surf.mnh	wind_threshold.mnh
	write_diag_flake_n.mnh	write_diag_seb_flake_n.mnh	write_flake_n.mnh
	write_gridtype_ign.mnh	write_header_fa.mnh	write_surfc0_fa.mnh
	write_surfl0_fa.mnh	write_surfl1_fa.mnh	write_surfn0_fa.mnh
	write_surfn1_fa.mnh	write_surft0_fa.mnh	write_surft1.mnh
	write_surft1_asc.mnh	write_surft2_fa.mnh	write_surfx0_fa.mnh
	write_surfx1_fa.mnh	write_surfx2_fa.mnh	writesurf_flake_conf_n.mnh
	writesurf_flake_n.mnh	writesurf_flake_sbl_n.mnh	writesurf_isba_canopy_n.mnh
	writesurf_pgd_flake_n.mnh	writesurf_pgd_seaf_par_n.mnh	writesurf_seaflux_sbl_n.mnh
	writesurf_teb_canopy_n.mnh	writesurf_watflux_sbl_n.mnh	
mse/module	data_parameters.mnh	flake.mnh	flake_albedo_ref.mnh
	flake_configure.mnh	flake_derivedtypes.mnh	flake_parameters.mnh
	flake_paramoptic_ref.mnh	modd_canopy_turb.mnh	modd_data_seaflux_n.mnh
	modd_diag_flake_n.mnh	modd_flake_grid_n.mnh	modd_flake_n.mnh
	modd_flake_sbl_n.mnh	modd_get_mesh_index_ign.mnh	modd_ign.mnh
	modd_io_buff_n.mnh	modd_io_surf_fa.mnh	modd_isba_canopy_n.mnh
	modd_prep_flake.mnh	modd_seaflux_sbl_n.mnh	modd_sgh_par.mnh
	modd_surf_atm.mnh	modd_teb_canopy_n.mnh	modd_watflux_sbl_n.mnh
	mode_gridtype_ign.mnh	modi_canopy_evol_temp.mnh	modi_canopy_evol_tke.mnh
	modi_canopy_evol_wind.mnh	modi_close_file_fa.mnh	modi_close_namelist_fa.mnh
	modi_default_ch_bio_flux.mnh	modi_default_ch_dep.mnh	modi_default_diag_flake.mnh
	modi_default_flake.mnh	modi_default_prep_flake.mnh	modi_dgam.F
	modi_diag_flake_init_n.mnh	modi_diag_flake_n.mnh	modi_diag_inline_flake_n.mnh
	modi_end_io_surf_fa_n.mnh	modi_error_read_surf_fa.mnh	modi_error_write_surf_fa.mnh
	modi_exp_decay_soil.mnh	modi_get_adj_mes_ign.mnh	modi_get_latlonmask_n.mnh
	modi_get_mesh_dim_ign.mnh	modi_get_near_meshes_ign.mnh	modi_hor_interpol_buffer.mnh
	modi_hydro_sgh.mnh	modi_init_from_data_seaflux_n.mnh	modi_init_io_surf_fa_n.mnh
	modi_init_top.mnh	modi_isba_sgh_update.mnh	modi_open_file_fa.mnh
	modi_open_namelist_fa.mnh	modi_pack_pgd_seaflux.mnh	modi_pgd_flake.mnh
	modi_pgd_seaflux_par.mnh	modi_prep_ctrl_flake.mnh	modi_prep_ctrl_isba.mnh
	modi_prep_ctrl_seaflux.mnh	modi_prep_ctrl_surf_atm.mnh	modi_prep_ctrl_teb.mnh
	modi_prep_ctrl_watflux.mnh	modi_prep_flake.mnh	modi_prep_flake_buffer.mnh
	modi_prep_flake_extern.mnh	modi_prep_flake_grib.mnh	modi_prep_flake_sbl.mnh
	modi_prep_flake_unif.mnh	modi_prep_hor_flake_field.mnh	modi_prep_isba_ascllv.mnh
	modi_prep_isba_canopy.mnh	modi_prep_seaflux_sbl.mnh	modi_prep_sst_init.mnh
	modi_prep_teb_canopy.mnh	modi_prep_ver_flake.mnh	modi_prep_watflux_sbl.mnh

modi_read_default_flake_n.mnh	modi_read_flake_conf_n.mnh	modi_read_flake_date.mnh
modi_read_flake_n.mnh	modi_read_flake_sbl_n.mnh	modi_read_isba_canopy_n.mnh
modi_read_pgd_flake_n.mnh	modi_read_pgd_seaflux_par_n.mnh	modi_read_pre_flake_dat_cor
modi_read_prep_flake_conf.mnh	modi_read_seaflux_sbl_n.mnh	modi_read_teb_canopy_n.mnh
modi_read_watflux_sbl_n.mnh	modi_rmc01_surf.mnh	modi_sst_update.mnh
modi_surface_cdch_1darp.mnh	modi_teb_canopy.mnh	modi_temporal_dists.mnh
modi_temporal_lts.mnh	modi_tridiag_surf.mnh	modi_wind_threshold.mnh
modi_write_diag_flake_n.mnh	modi_write_diag_seb_flake_n.mnh	modi_write_flake_n.mnh
modi_writesurf_flake_conf_n.mnh	modi_writesurf_flake_n.mnh	modi_writesurf_flake_sbl_n.mnh
modi_writesurf_isba_canopy_n.mnh	modi_writesurf_pgd_flake_n.mnh	modi_writesurf_pgd_seaf_par
modi_writesurf_seaflux_sbl_n.mnh	modi_writesurf_teb_canopy_n.mnh	modi_writesurf_watflux_sbl_n.
modn_flake_n.mnh	modn_prep_flake.mnh	modn_surf_atm.mnh
sfclx.mnh		

Modified:

arp/phys_dmn	suphmse.F90		
mse/externals	aroini_surf.mnh		
mse/interface	aroini_surf.h		
mse/internals	average_diag_evap_isba_n.mnh	bld_e_budget.mnh	canopy_evol.mnh
	canopy_evol_temp.mnh	canopy_evol_tke.mnh	canopy_evol_wind.mnh
	canopy_grid.mnh	canopy_grid_update.mnh	close_aux_io_surf_fa.mnh
	close_file.mnh	close_file_fa.mnh	close_namelist.mnh
	close_namelist_fa.mnh	co2_init_n.mnh	coare30_flux.mnh
	coare30_seaflux.mnh	cotwo.mnh	cotwoinit_n.mnh
	cotwores.mnh	cotworesstress.mnh	coupling_dst_n.mnh
	coupling_flake_n.mnh	coupling_flake_orography_n.mnh	coupling_flake_sbl_n.mnh
	coupling_ideal_flux.mnh	coupling_inland_water_n.mnh	coupling_isba_canopy_n.mnh
	coupling_isba_n.mnh	coupling_isba_orography_n.mnh	coupling_seaflux_n.mnh
	coupling_seaflux_orography_n.mnh	coupling_seaflux_sbl_n.mnh	coupling_teb_n.mnh
	coupling_watflux_n.mnh	coupling_watflux_orography_n.mnh	coupling_watflux_sbl_n.mnh
	dealloc_flake_n.mnh	dealloc_inland_water_n.mnh	dealloc_isba_n.mnh
	default_ch_bio_flux.mnh	default_ch_dep.mnh	default_diag_flake.mnh
	default_dst_n.mnh	default_flake.mnh	default_isba.mnh
	default_prep_flake.mnh	default_prep_isba.mnh	default_seaflux.mnh
	default_surf_atm.mnh	detect_field.mnh	dgam.F
	diag_evap_isba_n.mnh	diag_flake_init_n.mnh	diag_flake_n.mnh
	diag_inland_water_n.mnh	diag_inline_flake_n.mnh	diag_inline_isba_n.mnh
	diag_inline_seaflux_n.mnh	diag_inline_watflux_n.mnh	diag_isba_init_n.mnh
	diag_misc_isba_n.mnh	diag_misc_teb_n.mnh	diag_surf_budget_sea.mnh
	diag_teb_init_n.mnh	dlga.F	drag.mnh
	dst_dep.mnh	e_budget.mnh	eisrs1.F
	end_io_surf_fa_n.mnh	end_io_surf_n.mnh	error_read_surf_fa.mnh
	error_write_surf_fa.mnh	exp_decay_soil_dif.mnh	exp_decay_soil_fr.mnh
	flake_interface.mnh	get_adj_mes_ign.mnh	get_adjacent_meshes.mnh
	get_grid_coord.mnh	get_grid_coord_ign.mnh	get_grid_dim.mnh
	get_latlonmask_n.mnh	get_luout.mnh	get_mesh_dim.mnh
	get_mesh_dim_ign.mnh	get_mesh_index.mnh	get_mesh_index_ign.mnh
	get_mesh_index_lonlat_reg.mnh	get_near_meshes.mnh	get_near_meshes_ign.mnh
	get_size_full_n.mnh	goto_wrapper_flake.mnh	goto_wrapper_isba.mnh
	goto_wrapper_seaflux.mnh	goto_wrapper_surfatm.mnh	goto_wrapper_teb.mnh
	goto_wrapper_watflux.mnh	hor_interpol.mnh	hor_interpol_buffer.mnh
	hydro.mnh	hydro_sgh.mnh	hydro_snow.mnh
	hydro_soil.mnh	hydro_soildif.mnh	hydro_veg.mnh
	ice_sea_flux.mnh	impmai.F	impmat.F

ini_csts.mnh
init_from_data_seaflux_n.mnh
init_io_surf_n.mnh
init_surf_atm_n.mnh
init_watflux_n.mnh
isba.mnh
latlon_gridtype_gauss.mnh
latlonmask_ign.mnh
mtxmt.F
mxaxmt.F
mxmt.F
open_aux_io_surf.mnh
open_file_asc.mnh
open_namelist_fa.mnh
pack_grid_ign.mnh
param_cls.mnh
pgd_inland_water.mnh
prep_ctrl_flake.mnh
prep_ctrl_surf_atm.mnh
prep_flake.mnh
prep_flake_grib.mnh
prep_hor_flake_field.mnh
prep_inland_water.mnh
prep_isba_buffer.mnh
prep_seaflux_buffer.mnh
prep_sst_init.mnh
prep_teb_canopy.mnh
prep_watflux_buffer.mnh
read_default_isba_n.mnh
read_dst_conf_n.mnh
read_flake_n.mnh
read_gridtype_ign.mnh
read_nam_gridtype.mnh
read_pgd_flake_n.mnh
read_pgd_seaflux_par_n.mnh
read_prep_flake_conf.mnh
read_seaflux_sbl_n.mnh
read_surfc0_asc.mnh
read_surf10_asc.mnh
read_surf11_asc.mnh
read_surfn0_asc.mnh
read_surfn1_asc.mnh
read_surf0_asc.mnh
read_surf1_asc.mnh
read_surf2_fa.mnh
read_surfx0_fa.mnh
read_surfx1_fa.mnh
read_surfx2_fa.mnh
read_watflux_sbl_n.mnh
roof_layer_e_budget.mnh
scopy.F
snow_cover_1layer.mnh
sp0cvq.F
spb2e2d.F
spl0d.F

ini_cturbs.mnh
init_inland_water_n.mnh
init_isba_n.mnh
init_teb_n.mnh
io_buff_clean_n.mnh
isba_sgh_update.mnh
latlon_gridtype_ign.mnh
mr98.mnh
mtxmt.F
mxidml.F
mxntr.F
open_aux_io_surf_fa.mnh
open_file_fa.mnh
pack_diag_patch_n.mnh
pack_isba_patch_n.mnh
pgd_flake.mnh
pgd_seaflux.mnh
prep_ctrl_isba.mnh
prep_ctrl_teb.mnh
prep_flake_buffer.mnh
prep_flake_sbl.mnh
prep_hor_isba_field.mnh
prep_isba.mnh
prep_isba_canopy.mnh
prep_seaflux_sbl.mnh
prep_teb.mnh
prep_ver_flake.mnh
prep_watflux_sbl.mnh
read_default_seaflux_n.mnh
read_flake_conf_n.mnh
read_flake_sbl_n.mnh
read_isba_canopy_n.mnh
read_nam_gridtype_gauss.mnh
read_pgd_schemes.mnh
read_pgd_teb_par_n.mnh
read_prep_isba_conf.mnh
read_surf_atm_conf_n.mnh
read_surfc0_fa.mnh
read_surf10_fa.mnh
read_surf11_fa.mnh
read_surfn0_fa.mnh
read_surfn1_fa.mnh
read_surf0_fa.mnh
read_surf2.mnh
read_surfx0.mnh
read_surfx1.mnh
read_surfx2.mnh
read_surfx3.mnh
rnc01_surf.mnh
s1i1dds.F
smxinv.F
soil.mnh
sp0nop.F
spl0bvm.F
spl0e.F

init_flake_n.mnh
init_io_surf_fa_n.mnh
init_seaflux_n.mnh
init_top.mnh
io_buff_n.mnh
latlon_grid.mnh
latlonmask.mnh
mtxaxm.F
mxadd.F
mxmspl.F
mxsub.F
open_file.mnh
open_namelist.mnh
pack_grid.mnh
pack_pgd_seaflux.mnh
pgd_grid.mnh
pgd_seaflux_par.mnh
prep_ctrl_seaflux.mnh
prep_ctrl_watflux.mnh
prep_flake_extern.mnh
prep_flake_unif.mnh
prep_hor_seaflux_field.mnh
prep_isba_ascllv.mnh
prep_seaflux.mnh
prep_snow_buffer.mnh
prep_teb_buffer.mnh
prep_watflux.mnh
read_default_flake_n.mnh
read_default_surf_atm_n.mnh
read_flake_date.mnh
read_gridtype.mnh
read_isba_conf_n.mnh
read_nam_gridtype_ign.mnh
read_pgd_seaflux_n.mnh
read_pre_flake_dat_conf.mnh
read_seaflux_conf_n.mnh
read_surfc0.mnh
read_surf10.mnh
read_surf11.mnh
read_surfn0.mnh
read_surfn1.mnh
read_surf0.mnh
read_surf1.mnh
read_surf2_asc.mnh
read_surfx0_asc.mnh
read_surfx1_asc.mnh
read_surfx2_asc.mnh
read_teb_canopy_n.mnh
road_wall_layer_e_budget.mnh
s2i2dds.F
snow3l.mnh
soildif.mnh
sp0vpq.F
spl0c.F
spl0i.F

	spl0p.F	spl0r.F	spl0rs.F
	spl0rs1.F	spl0u.F	spl0v.F
	spl0vm1.F	spl0w.F	spl1c.F
	spl1cds.F	spl1d.F	spl1d1d.F
	spl1e.F	spl1e1d.F	spl1i.F
	spl1i1d.F	spl1ids.F	spl1rs1.F
	spl1vm1.F	spl2c.F	spl2cds.F
	spl2d.F	spl2d2d.F	spl2e.F
	spl2e2d.F	spl2i.F	spl2i2d.F
	spl2ids.F	spl2rs1.F	spl2vm1.F
	splb2c.F	splb2e.F	splb2e1.F
	splbfin.F	splbsd.F	splbsel.F
	splbvm.F	splc.F	spld.F
	spld2v.F	spldrs.F	splds2v.F
	spldv.F	sple.F	splg1d.F
	splg2d.F	spli.F	splie.F
	splk.F	splkdx.F	splm.F
	splp.F	splpr.F	splpr0.F
	splps2v.F	splpv.F	splr.F
	splri.F	splrs.F	spls2.F
	spls2v.F	spls2vi.F	splt.F
	spltdx.F	spltt.F	splu.F
	splv.F	splvpq.F	splw.F
	sset.F	sst_update.mnh	surf_version.mnh
	surface_aero_cond_1d.mnh	surface_cdch_1darp.mnh	surface_ri_1d.mnh
	teb.mnh	teb_canopy.mnh	temporal_dists.mnh
	temporal_lts.mnh	test_nam_varl0_surf.mnh	test_nam_varn0_surf.mnh
	tred2.F	tridiag_surf.mnh	unitfp_flux.mnh
	unitfp_seaflux.mnh	unpack_diag_patch_n.mnh	unpack_isba_patch_n.mnh
	urban_drag.mnh	urban_fluxes.mnh	urban_snow_evol.mnh
	water_flux.mnh	wind_threshold.mnh	write_cover_tex_start.mnh
	write_diag_flake_n.mnh	write_diag_inland_water_n.mnh	write_diag_misc_isba_n.mnh
	write_diag_misc_teb_n.mnh	write_diag_seb_flake_n.mnh	write_diag_seb_isba_n.mnh
	write_diag_seb_teb_n.mnh	write_flake_n.mnh	write_grid.mnh
	write_gridtype_ign.mnh	write_header_fa.mnh	write_inland_water_n.mnh
	write_isba_n.mnh	write_seaflux_n.mnh	write_surf_atm_n.mnh
	write_surfc0.mnh	write_surfc0_asc.mnh	write_surfc0_fa.mnh
	write_surfl0.mnh	write_surfl0_asc.mnh	write_surfl0_fa.mnh
	write_surfl1.mnh	write_surfl1_asc.mnh	write_surfl1_fa.mnh
	write_surfn0.mnh	write_surfn0_asc.mnh	write_surfn0_fa.mnh
	write_surfn1.mnh	write_surfn1_asc.mnh	write_surfn1_fa.mnh
	write_surft0.mnh	write_surft0_asc.mnh	write_surft0_fa.mnh
	write_surft1.mnh	write_surft1_asc.mnh	write_surft2.mnh
	write_surft2_asc.mnh	write_surft2_fa.mnh	write_surfx0.mnh
	write_surfx0_asc.mnh	write_surfx0_fa.mnh	write_surfx1.mnh
	write_surfx1_asc.mnh	write_surfx1_fa.mnh	write_surfx2.mnh
	write_surfx2_asc.mnh	write_surfx2_fa.mnh	write_teb_n.mnh
	write_watflux_n.mnh	writesurf_atm_conf_n.mnh	writesurf_flake_conf_n.mnh
	writesurf_flake_n.mnh	writesurf_flake_sbl_n.mnh	writesurf_isba_canopy_n.mnh
	writesurf_isba_conf_n.mnh	writesurf_isba_n.mnh	writesurf_pgd_flake_n.mnh
	writesurf_pgd_seaf_par_n.mnh	writesurf_pgd_seaflux_n.mnh	writesurf_pgd_teb_par_n.mnh
	writesurf_seaflux_sbl_n.mnh	writesurf_teb_canopy_n.mnh	writesurf_watflux_sbl_n.mnh
	z0eff.mnh	zoom_pgd_inland_water.mnh	
mse/module	data_parameters.mnh	flake.mnh	flake_albedo_ref.mnh
	flake_configure.mnh	flake_derivedtypes.mnh	flake_parameters.mnh

flake_paramoptic_ref.mnh	modd_canopy_turb.mnh	modd_data_seaflux_n.mnh
modd_diag_flake_n.mnh	modd_flake_grid_n.mnh	modd_flake_n.mnh
modd_flake_sbl_n.mnh	modd_get_mesh_index_ign.mnh	modd_ign.mnh
modd_io_buff_n.mnh	modd_io_surf_fa.mnh	modd_isba_canopy_n.mnh
modd_prep_flake.mnh	modd_seaflux_sbl_n.mnh	modd_sgh_par.mnh
modd_surf_atm.mnh	modd_teb_canopy_n.mnh	modd_watflux_sbl_n.mnh
mode_gridtype_ign.mnh	modi_coare30_flux.mnh	modi_diag_inline_flake_n.mnh
modi_read_pgd_seaflux_par_n.mnh	modi_writesurf_pgd_seaf_par_n.mnh	modn_flake_n.mnh
modn_prep_flake.mnh	modn_surf_atm.mnh	sfcfix.mnh

Doc:

New XFU 2D field: surface theta'w' flux (activation via LXTHW in NAMCFU).

Project: arpege
ClearCase branch: mrpm637_CY33_xfu

Modified:

arp/adiab	cpg_dia.F90		
arp/dia	cpxfu.F90		
arp/module	ptrxfu.F90	yomafn.F90	yomxfu.F90
arp/namelist	namxfu.h		
arp/setup	suafn1.F90	suafn2.F90	suafn3.F90
	suxfu.F90		

SEVAULT Eric

Doc:

Correction de l'exécutable FCQODB pour prendre en compte la nouvelle combinaison de flags dans l'assimilation depuis le cy33 (obs actives ET rejetées) et ne plus les voir sortir dans les fichiers BDM_CQ .

Project: utilitaires
ClearCase branch: mrpm631_CY33T0_fcq

Modified:

uti/fcq	fcqodb_DRIBU.F90	fcqodb_PILOT.F90	fcqodb_SYNOP.F90
	fcqodb_TEMP.F90		

Sylvie Malardel

Doc:

Correction permettant d'éviter un bon nombre de plantages AROME

Project: arpege
ClearCase branch: marp001_CY33T0_arome_sylvie

Modified:

arp/phys_ec	swni.F90
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TAILLEFER Francoise

Doc:

** inclitc.F90: ajout du cas LELAM pour l'interpolation de la SST NESDIS .*

** caclsst.F90: ajout du cas LELAM pour l'interpolation de la SST NESDIS et mise en place de fichiers d'alerte pour la chaîne opérationnelle .*

** caclsi.F90: prise en compte de T2m et Hu2m du guess et non pas en sortie de ACHMT .*

Project: arpege

ClearCase branch: mrpa647_CY33T0_sst_ald

Modified:

arp/c9xx inclitc.F90

arp/canari caclsi.F90 caclsst.F90

WATTRELOT Eric

Doc:

1/ Retrait des réflectivités de la base (bator_decodbufr_mod.F90).

2/ Correction de bug (reflsim.F90).

Project: arpege,utilitaires

ClearCase branch: mrpa652_CY33T0_bf_op1_v10_radarew

Modified:

arp/pp_obs reflsim.F90

uti/module bator_decodbufr_mod.F90