

ARPEGE MEMORANDUM

From: GCO **Date:** February 04, 2008
To: GMAP, COMPAS, GMGEC, GMME,
DIR/RE/CRC, Mats Hamrud
Subject: New cycle CY33T0

A new cycle CY33T0 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: CY33T0

Modified libraries: aladin, arpege, black_list, odb, satrad, utilitaires, auxiliaire

Contributors:

AUDOIN Jean-Marcc	Project:arpege	CCase branch:mrpe602_CY33_stress
BOUTELOUP Yves	Project:arpege	CCase branch:mrpa648_CY33_b290
EL-KHATIB Ryad	Project:arpege	CCase branch:mrpm602_CY33_fix
	Project:arpege	CCase branch:mrpm602_CY33_optinec2
GCO	Project:arpege	CCase branch:marp001_CY32T0_op2
	Project:arpege	CCase branch:marp001_CY33_combistat
	Project:arpege	CCase branch:marp001_CY33_dble
	Project:arpege	CCase branch:marp001_CY33_odbvers
MOLL Patrick	Project:arpege	CCase branch:mrpa646_CY33_nextdbble
SAEZ Patrick	Project:arpege	CCase branch:mrpm608_CY32T0_c901

AUDOIN Jean-Marcc

Doc:

New correspondence between ARPEGE/ALADIN/AROME fields and GRIB codes (hail vertical levels, stress and relative humidity model levels).

Project: utilitaires
ClearCase branch: mrpe602_CY33_stress

Modified:

uti/progrid procor2.F

BOUTELOUP Yves

Doc:

Change in the taking account of the melting. The previous technique was wrong and produce sometimes negative precipitation.

Project: arpege
ClearCase branch: mrpa648_CY33_b290

Modified:

arp/phys_dmn advprcs.F90

EL-KHATIB Ryad

Doc:

*Rs_t_rh_bias_statistics.F90 : portability fix for g95 .
combi.F90 : portability fix for gfortran .*

Project: odb,utilitaires
ClearCase branch: mrpm602_CY33_fix

Modified:

odb/tools Rs_t_rh_bias_statistics.F90
uti/combi combi.F90

Doc:

*Optimisations.
NB : the modifications in jgvcor.F90 should change the scientific results. This modification has been validated however, comparing to the results when the vectorisation is switched off.*

Project: arpege
ClearCase branch: mrpm602_CY33_optinec2

Modified:

arp/adiab larcinbad.F90
arp/phys_ec rrtm_gasabs1a_140gp.F90 rrtm_rrtm_140gp.F90 rrtm_rtrn1a_140gp.F90
arp/pp_obs preintad.F90 radtrad.F90
arp/var jgvcor.F90

GCO

Doc:

Merge with current parallel suite - complement .

Project: aladin,utilitaires
ClearCase branch: marp001_CY32T0_op2

Added:

uti/addozaer addozaer.F90

Modified:

ald/programs blend.F90
uti/addozaer addozaer.F90
uti/combi combi_stat.F90

Doc:

Rename stat.F90 to combi_stat.F90, and change associated CALL in combi.F90 .

Project: utilitaires
ClearCase branch: marp001_CY33_combistat

Renamed:

uti/combi stat.F90 to uti/combi/combi_stat.F90

Modified:

uti/combi combi.F90 combi_stat.F90

Doc:

Merge with current parallel suite, based on cycle CY32T0 .

Project: aladin,arpege,black_list,odb,satrad,utilitaires,auxiliaire
ClearCase branch: marp001_CY33_double

Added:

uti/oulan ext_paobreu.F
xrd/fa getfadate.F

Modified:

ald/var	suescal.F90		
arp/adiab	cpg_dia.F90		
arp/module	parcma.F90	yomtvrad.F90	yomvarbc.F90
arp/obs_preproc	black.F90	cloud_detect_setup.F90	defrun.F90
	ersin.F90	fgchk.F90	flgdmx.F90
	rad1cin.F90	read_iasichans.F90	scaqc.F90
	scat_ob.F90	windaux.F90	
arp/pp_obs	bgobs.F90	hop.F90	hopad.F90
	hoptl.F90	hretr.F90	rad1cemis.F90

	rad1cobe.F90	radtr.F90	radtrad.F90
	radtrcld.F90	radtrk.F90	radtrtl.F90
	writenn.F90		
arp/setup	suct0.F90		
arp/var	csvarbc.F90	rdvarbc.F90	rtsetup.F90
	surad.F90	suvarbc.F90	
bla	mf_blacklist.b		
odb/module	odbshared.F90		
sat/bias	getbias.F90		
sat/module	cparam.F90		
uti/add_cloud_fields	add_cloud_fields.F90		
uti/bator	bator.F90		
uti/combi	combi.F90	combi_opti.F90	combi_pert.F90
	combi_stat.F90		
uti/include	oulan_yomdirs.h	oulan_yomnbob.h	oulan_yomtomv.h
uti/module	bator_decodbufr_mod.F90	bator_decodgrib_mod.F90	bator_ecriptions_mod.F90
	bator_init_mod.F90		
uti/namelist	oulan_nadirs.h	oulan_nanbob.h	
uti/oulan	ext_paobreu.F	oulan_extract.F	oulan_init.F
	oulan_namelist.F		
uti/pregpssol	pregpssol.F90		
uti/progrid	prodom.F		
xrd/fa	getfadate.F		
xrd/utilities	ecqsort.c		

Doc:

Set VERSION_MAJOR to 33 and VERSION_MINOR to 0.000 in version.c .

Project: odb
ClearCase branch: marp001_CY33_odbvers

Modified:

odb/lib version.c

MOLL Patrick

Doc:

Complement of merge of current parallel suite, mostly fixes .

Project: arpege,utilitaires
ClearCase branch: mrpa646_CY33_nextdbble

Modified:

arp/c9xx	cseaiice.F90		
arp/module	yomtvrad.F90		
arp/obs_preproc	defrun.F90		
arp/pp_obs	hop.F90	hretr.F90	rad1cobe.F90

arp/var	radtrad.F90	radtrb.F90	statpred.F90
uti/module	rtsetup.F90	surad.F90	
	bator_decodbufr_mod.F90		

SAEZ Patrick

Doc:

Process WATER RESERVOIRs with new ECMWF method .

Project: arpege

ClearCase branch: mrpm608_CY32T0_c901

Modified:

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