

## ARPEGE MEMORANDUM

**From:** GCO  
**Date:** Mar 17, 2017  
**Subject:** New cycle CY44

A new cycle CY44 has been created. This is a common cycle with ECMWF. The different contributions for this cycle are described in the following pages.

### **Contributors:**

BERRE Loik	berre_CY43T2_suinfce_srenorm
BOCHENEK Bogdan	bochenek_CY43T2_fields_mod bochenek_CY43T2_phasing bochenek_CY43T2_suescal bochenek_CY43T2_test
EL KHATIB Ryad	gco_CY43_r3.01%rek_fixes khatib_CY43T2_r3.02%merge khatib_CY43T2_r3.03%fixmerge
GCO	gco_CY43T2_r3 gco_CY43T2_r3.02%obstat_check_err gco_CY43T2_r3.08%oops
MARY Alexandre	mary_CY43T2_fixes_assim mary_CY43T2_phasers_fixes
SASSI Zied	sassi_CY43T2_cy43t2_r3.03.sassi
TAILLEFER Francoise	taillefer_CY43T2_db_sfx_snow3l
WILHELMSSON Tomas & al	gco_CY43T2_r3.05%ecmwf gco_CY43T2_r3.06%ecmwf_fixes gco_CY43T2_r3.08%ecmwf_capeshear
YESSAD Karim	yessad_CY43T2_r3V03cor yessad_CY43T2_r3V03cor2 yessad_CY43T2_r3V04cor yessad_CY43T2_r3V06cor yessad_CY43T2_r3V07cor yessad_CY43T2_r3V08cor

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**BERRE Loik**

**Doc:**

*Phasing of SUINFCE and SUINRENORMFCE: previous phasing modifications applied to SUINFCE have been transposed to SUINRENORMFCE and to its call in SUINFCE.*

*NO NUMERICAL IMPACT IS EXPECTED.*

**Projects:** arpifs

**Git branch:** berre\_CY43T2\_suinfce\_srenorm

**Modified:**

arpifs/var

suinfce.F90, suinrenormfce.F90

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## **BOCHENEK Bogdan**

### **Doc:**

*Changes in field\_mod as in temporary fix in su0yomb.*

**Projects:** arpifs

**Git branch:** bochenek\_CY43T2\_fields\_mod

### **Modified:**

arpifs/module                      fields\_mod.F90

### **Doc:**

1) Fix for 401/501 in control\_vectors, for 601 in su0yomb and for 001 confs in su0yomb (call ALLOCATE\_SPEC from reference code).

2) New fix in su0yomb and spectral\_fields\_mod.

3) Some other phasing work.

**Projects:** aladin, arpifs

**Git branch:** bochenek\_CY43T2\_phasing

### **Modified:**

aladin/sinvect                      ewrtsv.F90  
aladin/var                          suescal.F90  
arpifs/module                      control\_vectors\_comm\_mod.F90, fields\_mod.F90, spectral\_fields\_mod.F90  
arpifs/setup                        su0yomb.F90  
arpifs/sinvect                      nalan1.F90  
arpifs/var                          suvar.F90

### **Doc:**

1) Fix for 601 in SUESCAL.

2) Proper version of FIELDS\_MOD.

**Projects:** aladin, arpifs

**Git branch:** bochenek\_CY43T2\_suescal

### **Modified:**

aladin/var                          suescal.F90  
arpifs/module                      fields\_mod.F90

**Doc:**

*Phasing cy43t2\_r3, changes needed for compilation and first bugfixes.*

**Projects:** aladin, arpifs, mse, surfex

**Git branch:** bochenek\_CY43T2\_test

**Modified:**

aladin/adiab	especrt.F90
aladin/control	espcm.F90, espcmad.F90
aladin/coupling	elswa3.F90, erlbc.F90
aladin/setup	elsac.F90, erlbc_post_req.F90, sueinif.F90, sueqlimsat.F90
aladin/sinvect	echnorm.F90
aladin/transform	etransinv_nhconv.F90, etransinv_nhconvprhs.F90
aladin/utility	create_pert.F90
aladin/var	einflation_pert.F90, einfcalc.F90, evarjkini.F90, suescal.F90
arpifs/control	cnt3_lam.F90, iopack.F90, reresf.F90, stepo_oops.F90
arpifs/fullpos	predynfpos.F90, vpos.F90
arpifs/module	control_vectors_comm_mod.F90, field_container_base_mod.F90, field_container_gp_mod.F90, field_container_sp_mod.F90, fields_mod.F90
arpifs/oops/module	traj_main_mod_oops.F90
arpifs/op_obs	hop.F90
arpifs/parallel	trstom.F90
arpifs/phys_ec	wvcouple.F90
arpifs/setup	su0yomb.F90
arpifs/sinvect	balanced_reduction.F90, cun1.F90, cun2.F90, nalan1.F90, opk.F90
arpifs/utility	wrresf.F90
arpifs/var	chavarin.F90, chavarinad.F90, congrad.F90, suvar.F90
mse/externals	aro_surf_diagh.F90, canari_sx_ics.F90
mse/interface	aro_surf_diagh.h
surfex/ASSIM	assim_nature_isba_enkf.F90

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## EL KHATIB Ryad

### **Doc:**

*Fixes from Ryad El Khatib upon cycle CY43R3, taken from: beaufix:/home/gmap/mrpm/khatib/provisional\_cy43r3+ald43t2.tgz  
(NB: the new file "arpifs/common/use\_atlas.h" has been ignored)*

**Projects:** aeolus, aladin, arpifs, etrans, mse, satrad, utilities

**Git branch:** gco\_CY43\_r3.01%rek\_fixes

### **Modified:**

aeolus/BUFR_file_handling	L2B_buf2odb.F90, l2b_buf_r_and_odb.F90
aladin/adiab	elarmes.F90, elarmes5.F90, elarmesad.F90, elarmestl.F90, espcsiad.F90, especrt.F90, gpspng.F90
aladin/c9xx	egeo923.F90, einter0.F90, eleci.F90, elislap.F90
aladin/coupling	eseimplsad.F90, etenc.F90
aladin/fullpos	ebipos.F90, fpezo2h.F90, posfpbipos.F90, suefpg3.F90
aladin/interpol	elascaw.F90, eslxtpol.F90
aladin/module	eshrinkstretch_mod.F90
aladin/parallel	ecommspnorm.F90
aladin/setup	esp2lnsp.F90, sueheg.F90, suemetric.F90, suenhheg.F90, sueorog.F90, suetrans.F90
aladin/transform	ereespe.F90, esperad.F90, esperee.F90, espeuv.F90, etransdir_jb.F90, etransdir_jbad.F90, etransdir_mdl.F90, etransdir_mdlad.F90, etransdir_nhconv.F90, etransdir_nhconvprhs.F90, etransdirh.F90, etransdirhad.F90, etransinv_jb.F90, etransinv_jbad.F90, etransinv_jbtomodel.F90, etransinv_jbtomodelad.F90, etransinv_mdl.F90, etransinv_mdlad.F90, etransinv_nhconv.F90, etransinv_nhconvprhs.F90, etransinvh.F90, etransinvh_oops.F90, etransinvhad.F90, euvgeovd.F90, evduvgeo.F90
aladin/utility	cchien.F90, espconvert.F90, euvcopy.F90
aladin/var	ebalbeta.F90, ebalbetaad.F90, ebalnonlin.F90, ebalnonlinad.F90, ebalnonlintl.F90, ebalomega.F90, ebalomegaad.F90, ebalomegatl.F90, ebalstat.F90, ebalstatad.F90, ebalvert.F90, ebalvertad.F90, ebalverti.F90, ebalvertiad.F90, ejghcor.F90, ejghcori.F90, ejgnrgg.F90, ejgnrggad.F90, ejgnrggi.F90, ejgnrggiad.F90
aladin/wavelet	ejbwav_cv2wav.F90, ejbwav_gp2wav.F90, ejbwav_h2v.F90, ejbwav_v2h.F90, ejbwav_vcori.F90, ejbwav_wav2cv.F90, ejbwav_wav2gp.F90
arpifs/adiab	fv_gradient.F90, gp_derivatives.F90
arpifs/control	cgr1.F90, stepo.F90, tesadj.F90
arpifs/dia	ppfidhec.F90
arpifs/module	obsop_sets.F90, supergom_class.F90, yomhop_results.F90
arpifs/obs_preproc	decis.F90, gefger.F90, pertobs.F90, pre_prsta.F90, screen.F90
arpifs/oops	allob_oper_mod.F90, obsvec_mod.F90

arpifs/op_obs	obsop_composition.F90
arpifs/phys_radi	radiation_scheme.F90
arpifs/programs	hop_driver.F90
arpifs/setup	get_spp_conf.F90, suatlas_mesh.F90, sudcmip12_gu.F90, sustadlr.F90
arpifs/sinvect	cun3.F90
arpifs/var	taskob.F90, taskob_thread.F90
etrans/external	esetup_trans.F90
etrans/module	eftdirad_mod.F90, eftinvad_mod.F90, suefft_mod.F90
mse/externals	fp2sx1.F90, fp2sx2.F90, gridfpossfx_init.F90, hpossfx.F90, prep1_dumm.F90, prep2_dumm.F90, prep2_real.F90, prep_step0.F90, prep_step1.F90, prep_step2.F90, rdclimosfx.F90, sufpcsfx.F90, sugridsfx.F90, suphmse_surface.F90, wrsfx.F90
mse/interface	fp2sx1.h, fp2sx2.h, gridfpossfx_init.h, hpossfx.h, prep1_dumm.h, prep2_dumm.h, prep2_real.h, prep_step0.h, prep_step1.h, prep_step2.h, rdclimosfx.h, sufpcsfx.h, sugridsfx.h, suphmse_surface.h, wrsfx.h
mse/module	modd_io_surf_aro.F90
satrad/module	mod_iratlas.F90
satrad/mwave	mwave_get_filename.F90, mwave_get_rtcoeff.F90, mwave_obsop_rttov.F90, mwave_obsop_rttov_ad.F90, mwave_obsop_rttov_adtest.F90, mwave_obsop_rttov_tl.F90
satrad/rttov/coef_io	rttov_get_pc_predictindex.F90, rttov_write_coefs.F90
utilities/combi	combi_pert.F90
utilities/ctpini/programs	inversion_master.F90

**Doc:**

*Fix merge issues.*

*NO NUMERICAL IMPACT IS EXPECTED.*

**Projects:** aladin, arpifs, etrans, ifsaux, obstat, trans

**Git branch:** khatib\_CY43T2\_r3.02%merge

**Modified:**

aladin/parallel	egathereigmd.F90
aladin/setup	sueorog.F90, suetrans.F90
aladin/var	edog.F90, efill_isotropic.F90, readjbdat96.F90, suejbcor.F90, suejbcosu.F90, suejbdat96.F90, suejbstd.F90, suejbstest.F90
arpifs/control	cnt3_glo.F90, cnt4.F90
arpifs/dia	spmcut.F90, wrmlpp.F90
arpifs/fp_serv	suinif_fp.F90
arpifs/namelist	namct0.nam.h
arpifs/phys_radi	suecrad.F90

arpifs/setup	su_grib_api.F90, suafn1.F90, suct0.F90, suorog.F90
etrans/external	esetup_trans.F90
etrans/interface	esetup_trans.h
etrans/module	suefft_mod.F90
ifsaux/fa	fasgra.F90
obstat/satmon	sat_normalize_geo.F90
trans/module	dealloc_resol_mod.F90, suleg_mod.F90

**Doc:**

*Fix merge issues.*

*NO NUMERICAL IMPACT IS EXPECTED.*

**Projects:** aladin, arpifs, etrans, ifsaux, trans

**Git branch:** khatib\_CY43T2\_r3.03%fixmerge

**Modified:**

aladin/coupling	erlbc.F90
aladin/setup	elsac.F90
arpifs/adiab	spnh_conv_nhvar.F90
arpifs/control	iopack.F90
arpifs/dia	sunddh.F90, wrmlpp.F90, wrmlppa.F90, wrspeca.F90
arpifs/module	erlbc_mod.F90, iospeca_mod.F90
arpifs/phys_radi	radintg.F90, radlswr.F90
arpifs/pp_obs	ppobsap.F90
arpifs/transform	transinv_nhconv.F90
etrans/external	esetup_trans.F90, etrans_end.F90
etrans/module	eset_resol_mod.F90, suefft_mod.F90
ifsaux/fa	facodega.F90
ifsaux/utilities	ec_cray_meminfo.F90
trans/module	dealloc_resol_mod.F90

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## **GCO**

### **Doc:**

*Phasing cycle CY43R3 upon CY43T2.*

*1) Miscellaneous modifications.*

*\* arpifs/obs\_preproc/gefger.F90  
arpifs/oops/allobs\_oper\_mod.F90  
arpifs/programs/hop\_driver.F90  
arpifs/var/taskob.F90  
arpifs/var/taskob\_thread.F90  
arpifs/var/taskobad\_thread.F90  
arpifs/var/taskobtl\_thread.F90:*

*Change Y[DL]OBSET%INFO(JSET) to Y[DL]OBSET%INFORM(JSET) .*

*\* arpifs/op\_obs/hop.F90:*

*Comment those 3 lines (compiler issue):*

*!CALL ROBODY%FILL\_2D(ZVERTP,"vertco\_reference\_1@body",RMDI=RMDI)  
!CALL ROBODY%FILL\_2D(VARNOS\_TO\_PROCESS,"varno@body",KMDI=0\_JPIM)  
!CALL ROBODY%FILL\_2D(ZOBSVAL,"obsvalue@body",RMDI=RMDI)*

*\* ifsaux/support/drhook.c:*

*Remove useless inclusion of .*

*\* satrad/rttov/coef\_io/rttov\_read\_coefs.F90:*

*Comment calls to RTTOV\_HDF\_LOAD .*

*\* trans/external/trans\_end.F90:*

*Change ALLOCATED(N\_REGIONS) to ASSOCIATED(N\_REGIONS) .*



2) Uncomment calls to ROBODY%FILL\_2D (no more compiler issue with ifort in version 17).

3) Fix phasing errors and compilation issues.

4) Last changes from ECMWF upon CY43T2\_r3.09 (from WILHELMSSON Tomas & al) .

\* Correction/reorder of OpenMP PRIVATES as already discussed.

```
diff -r /scratch/rd/das/44_09/ifs/module/control_vectors_comm_mod.F90 /var/tmp/tmpdir/das/git/ifs-  
source/nat/nat_CY43R3_for_44_v2/ifs/module/control_vectors_comm_mod.F90
```

```
1244c1244
```

```
< !$OMP& ICEND,IBL,JROF,JM,IM,JSOFF,JN,JL,IL,JCOMP,IFOFF)
```

```
---
```

```
> !$OMP& ICEND,IBL,JROF,JM,IM,JSOFF,JN,JL,IL)
```

```
1389c1389
```

```
< !$OMP& PRIVATE(JP,IA,IB,JA,JB,JF,ILEN,JM,IM,JSOFF,JN,JL,IL,JCOMP,IFOFF)
```

```
---
```

```
> !$OMP& PRIVATE(JP,IA,IB,JA,JB,JCOMP,IFOFF,JF,JM,IM,ILEN,JSOFF,JN,JL,IL)
```

```
1465c1465
```

```
< !$OMP& PRIVATE(JP,JJ,JF)
```

```
---
```

```
> !$OMP& PRIVATE(JP,JF,JJ)
```

```
1612c1612
```

```
< !$OMP& JGL,JLON,IAAAARRRRGH,JM,IM,JSOFF,JN,JL,IL,JCOMP,IFOFF)
```

```
---
```

```
> !$OMP& JGL,JLON,IAAAARRRRGH,JM,IM,JSOFF,JN,JL,IL)
```

```
1754c1754
```

```
< !$OMP& PRIVATE(JP,IA,IB,JA,JB,JF,ILEN,JM,IM,JSOFF,JN,JL,IL,JCOMP,IFOFF)
```

```
---
```

```
> !$OMP& PRIVATE(JP,IA,IB,JA,JB,JCOMP,IFOFF,JF,JM,IM,ILEN,JSOFF,JN,JL,IL)
```

```
1830c1830
```

```
< !$OMP& PRIVATE(JP,JJ)
```

```
---
```

```
> !$OMP& PRIVATE(JP,JF,JJ)
```

```
1863c1863
```

```
< !$OMP& PRIVATE(JP,JL)
```

```
---
```

```
> !$OMP& PRIVATE(JP,JF,JL,IL)
1893c1893
< !$OMP& PRIVATE(JP,JF)
---
> !$OMP& PRIVATE(JP)
```

*\* Clean out of commented unused include files.*

```
diff -r /scratch/rd/das/44_09/ifs/module/trajectory_mod_oops.F90 /var/tmp/tmpdir/das/git/ifs-source/nat/nat_CY43R3_for_44_v2/ifs/module/trajectory_mod_oops.F90
51,52d50
< !#include "read_surfgrid_traj.intfb.h"
< !#include "read_surfgrid_traj_fromfa.intfb.h"
diff -r /scratch/rd/das/44_09/ifs/oops/scan2m_oops.F90 /var/tmp/tmpdir/das/git/ifs-source/nat/nat_CY43R3_for_44_v2/ifs/oops/scan2m_oops.F90
198d197
< !#include "ctvtot.intfb.h"
201d199
< !#include "gp_model_stack.intfb.h"
207,208d204
< !#include "cobsall.intfb.h"
< !#include "write_grid_traj.intfb.h"
diff -r /scratch/rd/das/44_09/ifs/oops/scan2mad_oops.F90 /var/tmp/tmpdir/das/git/ifs-source/nat/nat_CY43R3_for_44_v2/ifs/oops/scan2mad_oops.F90
79,80d78
< !#include "abor1.intfb.h"
< !#include "cobsallad.intfb.h"
diff -r /scratch/rd/das/44_09/ifs/oops/scan2mtl_oops.F90 /var/tmp/tmpdir/das/git/ifs-source/nat/nat_CY43R3_for_44_v2/ifs/oops/scan2mtl_oops.F90
102,104d101
< !#include "abor1.intfb.h"
< !#include "cobsall.intfb.h"
< !#include "cobsalltl.intfb.h"
109d105
< !#include "vec2gp.intfb.h"
```

*\* Set executable permissions for scripts.*

**Projects:** , aeolus, aladin, algor, arpifs, ecfftw, ifsaux, mse, obstat, odb, radiation, satrad, surf, surfex, trans, utilities

**Git branch:** gco\_CY43T2\_r3

**Deleted:**

aeolus/MieCoreProcessing      GenerateTestAccdCounts.F90, MieCoreScan.F90, PlotMieCoreAtmDBScanResult.F90, Test\_Mie\_Spectral\_Shape.F90,

aeolus/OpticalProperties	gaussian_module.F90, lorentzian_module.F90, python_interface_helper.F90_in, random_gaussian.F90, visualise_simplex.py
aeolus/Test/Scripts	Test_LUT_RayCalib_handling.F90
aeolus/ThinLayer	JobOrder.IFS_Test.xml, JobOrder.L2C_Test.xml, JobOrder.TestReportGenerator.xml
aeolus/Tools	AE_TEST_AUX_PAR_2B_20050101T000000_99991231T235999_0000.EEF, Processor_Configuration.xml
aeolus/support	run.sc, run2.sc
arpifs/dia	TestGnuPlotModule.F90, TestGnuPlotModule2.F90, binning.F90, gnuplot_module.F90, test_binning_1D.F90
arpifs/fp_serv	prepfdb.F90, wmovph.F90, wrbudg.F90
arpifs/fullpos	fp_serv_init.F90, fp_serv_setup.F90
arpifs/io_serv	cpgridf.F90
arpifs/module	io_serv_init.F90, io_serv_recv_ios.F90
	gom4oops_mod.F90, gridpoint_buffers_mix.F90, traj_global_mod.F90, traj_main_mod_oops.F90, traj_semilag_mod_oops.F90, traj_surface_mod_oops.F90, trajectory_mod_oops.F90, yemfpg.F90, yomgeomad.F90, yommpextra.F90, yomobset_thsafe.F90, yomtraj_oops.F90, yomwm.F90
arpifs/obs_preproc	mkglobstab.F90, mkglobstab_obs.F90, sufger.F90
arpifs/oops	obstraj_mod.F90, odb_setup.F90, ostats_mod.F90
arpifs/parallel	rdpxfa.F90
arpifs/phys_ec	aer2massdia_layer.F90, stochadiaten.F90, sumaccbc1.F90, sumaccbc2.F90, sumaccor1.F90, sumaccor2.F90, sumaccsd1.F90, sumaccsd2.F90, sumaccsd3.F90, sumaccss1.F90, sumaccss2.F90, sumaccss3.F90, sumaccsu1.F90
arpifs/setup	sp2lnsp.F90, suarpio.F90, succpicfl.F90, sumpextra.F90, suspsp.F90
arpifs/utility	dealctv.F90, sualspajb.F90, wrgp2fa_remove_undef.F90
arpifs/var	ecset_thsafe.F90
obstat/src	writegribs.F90
odb/bufr2odb	b2o_convert_aircraft.F90
odb/module	odb_interface.F90
surf/offline/driver	cpedia1s.F90
surf/offline/phys_ec	vdmain1s.F90
surf/offline/util	abor1.F90
surfex/ASSIM	choldc.F90, cholsl.F90, inverse_matrix.F90
trans/module	prle1_mod.F90, prle1ad_mod.F90
trans/programs	aatestprog.F90
<b>Renamed:</b>	
aeolus/BUFR_file_handling	L1B_BufrUtil.F90
aeolus/BUFR_tables	B000000000098024002.TXT, D000000000098024002.TXT
aeolus/Test/main	JobOrder.test107q.xml

aeolus/auxiliary	DummyAuxiliaryModule.F90
ecftw/include	fftw3.f03.h
odb/module	context.F90, parconst.F90, yomper.F90, yomstdin.F90, yomwt.F90
odb/tools	Odb_compress.F90, odb_version.c
surf/external	surfsebad.F90, surfsebt1.F90
surf/interface	surfsebad.h, surfsebt1.h
surf/module	surfsebad_ctl_mod.F90, surfsebt1_ctl_mod.F90
<b>Added:</b>	
aeolus/AMD_file_handling	Convert_E2S_xml_profile_to_AMD.F90
aeolus/AUX_MRC_file_handling	Makefile.aeolus, Objects.txt, Test_Read_AUX_MRC.F90, read_aux_mrc.F90
aeolus/BUFR_file_handling	L2B_buf2odb.F90, Makefile.aeolus.odb_test, l2b_buf2_odb.F90
aeolus/DataStructures	Test_AUX_MRC_DataStructure.F90, Test_AUX_MRC_SPH.F90, aux_mrc_datastructure.F90, aux_mrc_sph.F90
aeolus/OpticalProperties	whocallswho_opt_prop.txt
aeolus/Scripts	TestMakefiles.py, filter_build_L2BP_stderrlog.py, parse_test_make_system_results.py
aeolus/Test/AUX_MRC_filehandling	Makefile.aeolus
aeolus/Test/Scripts2	Make_Targets_Python.available, Make_Targets_Python.dummy, Makefile.aeolus
aeolus/Test	Makefile.aeolus, Make_Targets_Python.available, Make_Targets_Python.dummy, Makefile.aeolus, report_progress.py
aeolus/ThinLayer	Processor_Configuration_IPF2B_L1B_L2B.xml
aeolus/groundtrack	convert_gt_hdr.py
algor/external/fourier	fft992_cc.F90, set99b.F
algor/external/linalg	minv_8.F90
algor/module	bluestein_mod.F90, seefmm_mix.F90, wts500_mod.F90
arpifs/adiab	fv_gradient.F90, gp_derivatives.F90, laitree_gfl_ad.F90, laitree_gfl_tl.F90
arpifs/chem	chem_linco.F90, gpincoc.F90, linco_chem_ini.F90, updcoc.F90
arpifs/dia	ppfidhec.F90, satsim.F90
arpifs/interpol	latriqm3d.F90, latriqm3dad.F90, latriqm3dtl.F90
arpifs/module	eras_rsbiasscorr.F90, geometry_setup_mod.F90, spectral_variables_mod.F90, spp_mod.F90, supergom_class.F90, yoetldiag.F90, yom_atlas_ifs.F90, yomaerdet.F90, yomatlas.F90, yomcompo.F90, yomhop_results.F90, yomsatsim.F90
arpifs/mwave	mwave_assign_emis_amsua.F90
arpifs/namelist	naetldiag.nam.h, namaerdet.nam.h, namcompo.nam.h, nammethox.nam.h, namspc.nam.h
arpifs/nemo	getnemo1way.F90
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odb/ddl.ECMA	ecset_sat.sql, getactive_allsky.sql, getactive_allsky_body.sql, getactive_auxiliary.sql, getactive_body.sql, getactive_cloud_sink.sql, getactive_collocated_imager_information.sql, getactive_conv.sql, getactive_conv_body.sql, getactive_errstat.sql, getactive_gbrad.sql, getactive_gbrad_body.sql, getactive_gnssro.sql, getactive_gnssro_body.sql, getactive_hdr.sql, getactive_hdr2allsky_body.sql, getactive_hdr2auxiliary_body.sql, getactive_hdr2body.sql, getactive_hdr2conv_body.sql, getactive_hdr2gbrad_body.sql, getactive_hdr2gnssro_body.sql, getactive_hdr2radar_body.sql, getactive_hdr2radiance_body.sql, getactive_hdr2raingg_body.sql, getactive_hdr2scatt_body.sql, getactive_index.sql, getactive_limb.sql, getactive_modsurf.sql, getactive_radar.sql, getactive_radar_body.sql, getactive_radar_station.sql, getactive_radiance.sql, getactive_radiance_body.sql, getactive_raingg.sql, getactive_raingg_body.sql, getactive_resat.sql, getactive_resat_averaging_kernel.sql, getactive_sat.sql, getactive_satob.sql, getactive_scatt.sql, getactive_scatt_body.sql, getactive_smos.sql, getactive_ssmi.sql, getactive_ssmi_body.sql, getactive_update_1.sql, getactive_update_2.sql, getactive_update_3.sql, non_reprod_seqno.sql, obsort_hdr2resat_averaging_kernel.sql, reprod_seqno_5.sql
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aeolus/AuxCal\_file\_handling readauxcaldata.F90, writeauxcaldata.F90

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aeolus/BUFR\_file\_handling L1B\_ee2bufr.F90, L2B\_ee2bufr.F90, Makefile.aeolus, TestBufrWrapper.F90, adm\_bufr\_descr\_codes.F90, bufr\_ee\_code\_tables.F90, bufrwrapper.F90, run\_test2.sc

aeolus/BUFR\_install Set\_config.linux\_compiler, make.bufr.lib.sc, recompile\_bufr\_lib.sc

aeolus/BUFR\_tables B000000000098015001.TXT, D000000000098015001.TXT, create\_L2B\_tables.py

aeolus/Classification TestClassification.F90, classification.F90

aeolus/DataStructures Makefile.aeolus, Objects.txt, Test\_EE\_CFI\_Datatypes.F90, Test\_L2B\_AuxPar\_DataStructure.F90, Test\_Working\_Datastructure.F90, amd\_datastructure.F90, amd\_geoloc\_ads.F90, amd\_met\_mds.F90, auxcal\_sph.F90, auxclim\_datastructure.F90, datasetdescriptor.F90, ee\_cfi\_datatypes.F90, fixedheader.F90, joborder\_datastructure.F90, l1b\_gwd\_ads.F90, l2b\_auxpar\_datastructure.F90, l2b\_auxpar\_sph.F90, l2b\_grouping\_ads.F90, l2b\_meas\_pcd\_ads.F90, l2b\_mie\_mds.F90, l2b\_proc\_settings.F90, l2b\_rayleigh\_mds.F90, l2b\_rayleigh\_wind\_pcd\_ads.F90, l2bc\_datastructure.F90, l2bc\_sph.F90, rbc\_sph.F90, working\_datastructure.F90

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aeolus/InputScreening Makefile.aeolus, Test\_Screening\_AMD\_Data.F90, Test\_Screening\_L1B\_Data.F90, screening\_amd\_data.F90, screening\_checks.F90, screening\_l1b\_data.F90, screening\_rbc\_data.F90

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aeolus/L1B\_file\_handling readl1bdata.F90

aeolus/L1B\_geolocation\_extraction Makefile.aeolus

aeolus/L2BC\_file\_handling readl2bcdata.F90, writel2bcdata.F90

aeolus/L2B\_AuxPar\_file\_handling Makefile.aeolus, read\_l2b\_auxpar\_data.F90

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aeolus/L2C\_construction L2C\_Processor.F90, Makefile.aeolus\_odb.test, create\_testinput

aeolus/LiteTestData TestLiteDataModule.F90, litedatamodule.F90

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aladin/transform	esperad.F90, etransdir_jb.F90, etransdir_jbad.F90, etransinv_jb.F90, etransinv_jbad.F90, etransinv_jbtomodel.F90, etransinv_jbtomodelad.F90
aladin/utility	cchien.F90, espereord.F90, espconvert.F90, euvcopy.F90
aladin/var	ebalbeta.F90, ebalbetaad.F90, ebalnonlinad.F90, ebalnonlintl.F90, ebalomegaad.F90, ebalomegatl.F90, ebalstat.F90, ebalstatad.F90, ebalvert.F90, ebalvertad.F90, ebalverti.F90, ebalvertiad.F90, ejghcor.F90, ejghcori.F90, ejgnrgg.F90, ejgnrggad.F90, ejgnrggi.F90, ejgnrggiad.F90, ewritestd.F90, suejbcov.F90
aladin/wavelet	ejbwav_cv2wav.F90, ejbwav_gp2wav.F90, ejbwav_h2v.F90, ejbwav_v2h.F90, ejbwav_vcori.F90, ejbwav_wav2cv.F90, ejbwav_wav2gp.F90
algor/external/linalg	tridia.F90
algor/interface	tridia.h
algor/module	butterfly_alg_mod.F90, interpol_decomp_mod.F90, random_numbers_mix.F90
arpifs/adiab	call_sl.F90, call_sl_ad.F90, call_sl_heap.F90, call_sl_stack.F90, call_sl_tl.F90, cp_forcing.F90, cpedia.F90, cpeuldyn.F90, cpeuldynad.F90, cpeuldyntl.F90, cpg.F90, cpg2.F90, cpg25.F90, cpg2ad.F90, cpg2lag.F90, cpg2lagad.F90, cpg2lagtl.F90, cpg2tl.F90, cpg5.F90, cpg5_gp.F90, cpg_dia.F90, cpg_drv.F90, cpg_drv_ad.F90, cpg_drv_tl.F90, cpg_dyn.F90, cpg_dyn_ad.F90, cpg_dyn_tl.F90, cpg_end.F90, cpg_end_ad.F90, cpg_end_tl.F90, cpg_gp.F90, cpg_gp_ad.F90, cpg_gp_tl.F90, cpg_gpb_nhgeogw.F90, cpg_pt.F90, cpg_pt_ulp.F90, cpg_zero_ad.F90, cpgad.F90, cpglag.F90, cpglagad.F90, cpglagtl.F90, cpgtl.F90, cpmvvp.F90, cppfttcd.F90, cppfttcinv.F90, cpphinp.F90, cpphinpad.F90, cpphinptl.F90, cpsolan.F90, cpqsol.F90, cputqy.F90, cputqy_rome.F90, cputqys.F90, cputqysad.F90, cputqystl.F90, ctvtot.F90, ctvtot5.F90, ctvtotad.F90, ctvtotl.F90, fspglh.F90, gnh_conv_nhvar.F90, gnh_conv_nhvar_geogw.F90, gnh_conv_prhs.F90, gnh_tndlagadiab_gw.F90, gnh_tndlagadiab_spd.F90, gnh_tndlagadiab_svd.F90, gnhdlra.F90, gnhdlra_sta.F90, gnhdlrb.F90, gnhgrgw.F90, gnhgw2svd.F90, gnhgw2svdarome.F90, gnhpreh.F90, gnhsvd2gw.F90, gp_kappa.F90, gp_kappat.F90, gp_kappatad.F90, gp_kappattl.F90, gp_spv.F90, gp_spvad.F90, gp_spvtl.F90, gp_tndlagadiab_uv.F90, gp_tndlagadiab_uv_ad.F90, gp_tndlagadiab_uv_geogw.F90, gp_tndlagadiab_uv_tl.F90, gpaddslphy.F90, gpcty.F90, gpcty_forc.F90, gpctyad.F90, gpctytl.F90, gpgeo.F90, gpgeoad.F90, gpgeotl.F90, gpgrgeoad.F90, gpgrgeotl.F90, gpgrp.F90, gphluvad.F90, gphluvatl.F90, gphlwiad.F90, gphlwitl.F90, gpinislb.F90, gpinislbad.F90, gpino3ch.F90, gpinozst.F90, gpmasscor.F90, gpmktend.F90, gpmktendad.F90, gppvo.F90, gppwc.F90, gppwcvfe.F90, gprcpad.F90, gprcptl.F90, gprh.F90, gprt.F90, gpstress.F90, gptf1.F90, gptf1ad.F90, gptf1pc.F90, gptf2.F90, gptf2ad.F90, gptf2pc.F90, lacdyn.F90, lacdynad.F90, lacdynshw.F90, lacdynshwad.F90, lacdynshwtl.F90, lacdyntl.F90, ladad.F90, ladine.F90, ladinead.F90, ladinetl.F90, lainor2.F90, lainor2ad.F90, lainor2tl.F90, laitre_gfl.F90, lanhsi.F90, lanhsi_geogw.F90, lanhsib.F90, lapinea.F90, lapinea5.F90, lapineaad.F90, lapineatl.F90, lapineb.F90, lapinebad.F90, lapinebtl.F90, larcin2.F90, larcin2ad.F90, larcin2tl.F90, larcina.F90, larcinaad.F90, larcinatl.F90, larcinb.F90, larcinb5.F90, larcinbad.F90, larcinbtl.F90, larcinha.F90, larcinhb.F90, larmes.F90, larmes2.F90, larmes25.F90, larmes2ad.F90, larmes2tl.F90, larmes5.F90, larmesad.F90, larmestl.F90, lassie.F90, lassiead.F90, lassietl.F90, lasure.F90, latte_bbc.F90, latte_kappa.F90, latte_kappaad.F90, latte_kappatl.F90, latte_stddis.F90, lattes.F90, lattesad.F90, lattestl.F90, lattex.F90, lattex_dnt.F90, lattex_dnt_ad.F90, lattex_tnt.F90, lattexad.F90, lattextl.F90, lavabo.F90, lavabotl.F90, lavent.F90, laventad.F90, laventtl.F90, postphy.F90,

pre\_sladrep.F90, si\_cccor.F90, sidd.F90, siddad.F90, sigam.F90, sigamad.F90, siptp.F90, siptpad.F90, siseve.F90, sisevead.F90, sitnu.F90, sitnuad.F90, sivderi.F90, spc2.F90, spc2ad.F90, spchor.F90, spchorad.F90, spcimpfinit.F90, spcimpfinitad.F90, spcimpfpost.F90, spcimpfpostad.F90, spcimpfsolve.F90, spcimpfsolvead.F90, spcsi.F90, spcsiad.F90, specrt.F90, spfilt.F90, spnh\_conv\_nhvar.F90, spnh\_conv\_prhs.F90, spnhsi.F90, spnhsi\_geogw.F90, tropo\_tep.F90

arpifs/c9xx  
 add\_pert\_sst.F90, aplm1g.F90, chk923.F90, cseaiice.F90, csstbld.F90, ganiso.F90, geo923.F90, grtestr.F90, incli0.F90, incli10.F90, incli2.F90, incli3.F90, incli4.F90, incli5.F90, incli6.F90, incli7.F90, incli8.F90, incli9.F90, inclitc.F90, inipz.F90, inirp.F90, intice.F90, ppv923.F90, prspl2.F90, renew.F90, relspe.F90, simrel.F90, sualclia.F90

arpifs/canari  
 ca0dgu.F90, cabane.F90, cabine.F90, caclsi.F90, caclsst.F90, cacova.F90, cadavr.F90, caeincw.F90, cah2as.F90, cahuax.F90, caidgu.F90, caifc1.F90, caisse.F90, calice.F90, calife.F90, calincw.F90, calver.F90, camelo.F90, can1.F90, canaco.F90, canali.F90, canari.F90, cancer.F90, canife.F90, cantik.F90, caohis.F90, capdgu.F90, capotx.F90, caprsurf.F90, capsax.F90, caraco.F90, carcfo.F90, carcli.F90, caredo.F90, casmswi.F90, casnas.F90, castas.F90, castor.F90, cat2as.F90, catrma.F90, cav1as.F90, caviso.F90, cavodk.F90, cavtax.F90, sualcan.F90

arpifs/chem  
 aer2massdia.F90, chem\_emi3d.F90, chem\_init.F90, chem\_main.F90, chem\_massdia.F90, chem\_noxadv.F90, chem\_tm5.F90, cod\_op\_tm5.F90, tm5\_calrates.F90, tm5\_do\_ebi.F90, tm5\_photorates\_tropo.F90

arpifs/climate  
 cormass2.F90, cormass3a.F90, cormass3b.F90, cormassdry.F90, read\_cmip5ghg.F90, updccli.F90, updccli\_mse.F90, updclicie.F90, updclicie\_co2.F90, updclicie\_compo.F90, updccli.F90, updicetemp.F90, updnemocean.F90, updnud.F90, updo3ch.F90

arpifs/common  
 yomdb\_defs.h, yomdb\_defs\_undef.h, yomdb\_vars.h

arpifs/control  
 adjotest.F90, cad1.F90, cdsta.F90, cfcens2obs.F90, cgr1.F90, cnt0.F90, cnt1.F90, cnt2.F90, cnt3.F90, cnt3\_glo.F90, cnt3\_lam.F90, cnt3ad.F90, cnt3tl.F90, cnt4.F90, cnt4ad.F90, cnt4tl.F90, cpicgfl.F90, cprep1.F90, cprep3.F90, csekf1.F90, csekf2.F90, csta.F90, ctl1.F90, cuconvca.F90, cva1.F90, cva2.F90, forecast\_error.F90, gmassdiag.F90, gp\_model.F90, gp\_model\_ad.F90, gp\_model\_heap.F90, gp\_model\_stack.F90, gp\_model\_tl.F90, iopack.F90, jmgfixer.F90, negfixer.F90, pfixer.F90, qmfixer.F90, qmfixer2.F90, reresf.F90, reset\_spert.F90, restart\_cnt3.F90, scan2m.F90, scan2mad.F90, scan2mtl.F90, sim4d.F90, spc2m.F90, spc2mad.F90, spcm.F90, spcmad.F90, stepo.F90, stepo\_oops.F90, stepoad.F90, stepotl.F90, tesadj.F90, testli.F90, testlievol.F90, tracmf.F90, trmfixers.F90

arpifs/dfi  
 copgfl.F90, copsp.F90, corgfl.F90, corsp.F90, dfi.F90, dfi2.F90, dfi2mod.F90, dfi3.F90, difsp.F90, digfil.F90, digfilad.F90, digp.F90, dolfil.F90, smpfil.F90, sualldfi.F90, sufw.F90, zeroacu.F90

arpifs/dia  
 chkevo.F90, cpangm.F90, cpcfu.F90, cpcuddh.F90, cpcuddh\_omp.F90, cpdyddhlag.F90, cpdysldia.F90, cpphddhe.F90, cpxfu.F90, cumcpl.F90, ddhoff.F90, gpiniddh.F90, grib\_code\_message.F90, gridpoint\_norm.F90, inipgo.F90, posddh.F90, ppeddh.F90, ppeddhec.F90, ppfidh.F90, ppsydh.F90, preset\_grib\_template.F90, spmcut.F90, spnorm.F90, spnormb.F90, spnormbe.F90, spnormbm.F90, sualdyn\_ddh.F90, sualmdh.F90, sualtdh.F90, succdh.F90, suechk.F90, sumddh.F90, sunddh.F90, wrifdh.F90, wrmlpp.F90, wrmlppg.F90, wrmlpplg.F90, wrmoderr.F90, wroutgpgb.F90, wroutspgb.F90, wrphtrajt.F90, wrradcoef.F90, wrsltraj2.F90, wrspec.F90, wrspeca.F90, wrspeca\_gp.F90, wrspeca\_map.F90, wrtcfou.F90, zeroddh.F90

arpifs/fullpos  
 cpclimi.F90, dynfpos.F90, endpos.F90, endpos\_prepfpl.F90, endvpos.F90, fpcorphy.F90, fpmocdfu.F90, fpmocprec.F90, fpmocxfu.F90, fposhorlag.F90, fpspecfitg.F90, gridfpos.F90, gridfpos\_savefu.F90, hpos.F90, hpos\_dyn.F90, iofpos.F90, openfpfa.F90, phymfpos.F90, predynfpos.F90, prepfpfpos.F90, prespfpos.F90, scan2m\_hpos.F90, scan2m\_mpos.F90, scan2m\_vpos.F90, spaconvert.F90, stepo\_fpos.F90, su4fpos.F90, subfpos.F90, sufp\_ctl.F90, sufp.F90, sufpd.F90, sufpdistrib.F90, sufpf.F90, sufpf.F90, sufpf2.F90, sufpoph.F90, sufpophys.F90, sufppsc2\_dep.F90, sufpsuw.F90, sufptrans.F90, sufpwfpbuf.F90,

sumpfpos\_dep.F90, suprocfp\_dep.F90, suvfpos.F90, suvpos.F90, updvpos.F90, vpos.F90, wrhfp.F90, wrmlfp.F90,  
 wrmlfp\_io\_serv.F90, wrplfp.F90, wrplfp\_io\_serv.F90, wrsfp.F90  
 arpifs/function fcobs.func.h, fcttre.func.h, fjbchvar.func.h  
 arpifs/gbrad gbrad\_get.F90, gbrad\_get\_ad.F90, gbrad\_get\_tl.F90, gbrad\_put.F90, gbrad\_put\_tl.F90, gbrad\_screen.F90  
 arpifs/interpol laitli.F90, laitvpcqm.F90, laqmlimiter.F90, lascaw.F90, slcomm2.F90, slcomm2a.F90, slcset.F90, slextpol.F90, slextpolad.F90,  
 suhslmer.F90, suvsleta.F90, suvsplip.F90  
 arpifs/io\_serv io\_poll, io\_serv\_hdr2\_init.F90, io\_serv\_log.F90, io\_serv\_map\_recv\_part1.F90, io\_serv\_map\_send\_part1.F90,  
 io\_serv\_suiosctmpl.F90, io\_serv\_sync.F90, io\_serv\_writefld\_ec.F90  
 arpifs/kalman balads.F90  
 arpifs/module control\_vectors\_base\_mix.F90, control\_vectors\_comm\_mod.F90, control\_vectors\_data\_mix.F90, control\_vectors\_oper\_mod.F90,  
 control\_vectors\_para\_mod.F90, disgrid\_mod.F90, diwrgrid\_mod.F90, diwrspec\_mod.F90, elbc0b\_mod.F90, elbc0c\_mod.F90,  
 erlbc\_mod.F90, factx\_mod.F90, fdb\_utils\_mod.F90, field\_container\_base\_mod.F90, field\_container\_gp\_mod.F90, fields\_mod.F90,  
 geometry\_mod.F90, get\_lwpcoeff\_mix.F90, gfl\_subs\_mod.F90, gmv\_subs\_mod.F90, gom\_mod.F90, gom\_plus.F90,  
 grib\_utils\_mod.F90, gridpoint\_fields\_mix.F90, iofu\_mod.F90, iogrclia\_mod.F90, iogride\_mod.F90, iogridoe\_mod.F90,  
 iogridua\_mod.F90, iogridue\_mod.F90, iogridva\_mod.F90, iospeca\_mod.F90, iostream\_mix.F90,  
 jb\_control\_vectors\_base\_mod.F90, jb\_control\_vectors\_oper\_mod.F90, model\_mod.F90, obsop\_sets.F90, parfpos.F90,  
 rrtmg\_sw\_spcvrt.F90, sats\_mix.F90, spectral\_arp\_mod.F90, spectral\_columns\_mix.F90, spectral\_fields\_mod.F90,  
 spectral\_fields\_oper\_mod.F90, spectral\_fields\_para\_mod.F90, spgeom\_mod.F90, spng\_mod.F90, stoph\_mix.F90,  
 surface\_fields\_mix.F90, tm5\_chem\_module.F90, traj\_main\_mod.F90, traj\_physics\_mod.F90, traj\_semilag\_mod.F90,  
 traj\_surface\_mod.F90, trajectory\_mod.F90, trajectory\_mod\_oops.F90, type\_geometry.F90, varbc\_airep.F90, varbc\_allsky.F90,  
 varbc\_class.F90, varbc\_eval.F90, varbc\_gbrad.F90, varbc\_pred.F90, varbc\_rad.F90, varbc\_rsonde.F90, varbc\_setup.F90,  
 varbc\_sfcobs.F90, varbc\_table.F90, varbc\_tcvw.F90, varbc\_to3.F90, variables\_mod.F90, yoe\_cuconvca.F90, yoe\_uvrad.F90,  
 yoeaeratm.F90, yoeaerc.F90, yoeaerop.F90, yoeaersnk.F90, yoeaersrc.F90, yoecldp.F90, yoecumf.F90, yoecumf2.F90, yoephy.F90,  
 yoerad.F90, yoesrta21.F90, yoewcou.F90, yom\_grib\_codes.F90, yom\_ygfl.F90, yomafn.F90, yomchem.F90, yomclddet.F90,  
 yomcoctp.F90, yomcosjo.F90, yomct0.F90, yomcva.F90, yomdb.F90, yomdiagvar.F90, yomdyn.F90, yomdyna.F90,  
 yomdyncore.F90, yomfpc.F90, yomgbrad.F90, yomgfl.F90, yomgwdiag.F90, yomio\_serv.F90, yomios.F90, yomjg.F90,  
 yomlocs.F90, yommcc.F90, yommwave.F90, yomorog.F90, yomphyder.F90, yomppc.F90, yomrandom\_streams.F90, yomrlx.F90,  
 yomsats.F90, yomspjb.F90, yomspstdt.F90, yomsta.F90, yomtrans.F90, yomvareps.F90, yomvert.F90  
 arpifs/mwave mwave\_diags.F90, mwave\_emis.F90, mwave\_flux\_to\_mmr.F90, mwave\_get.F90, mwave\_get\_ad.F90, mwave\_get\_tl.F90,  
 mwave\_obsop.F90, mwave\_obsop\_ad.F90, mwave\_obsop\_test.F90, mwave\_obsop\_tl.F90, mwave\_obsop\_traj.F90,  
 mwave\_put.F90, mwave\_put\_tl.F90, mwave\_read\_sat\_error.F90, mwave\_screen.F90, mwave\_setup.F90, mwave\_wrapper.F90  
 arpifs/namelist naeaeer.nam.h, naephy.nam.h, naerad.nam.h, namafn.nam.h, namchem.nam.h, namclddet.nam.h, namcumf.nam.h, namcumfs.nam.h,  
 namdyn.nam.h, namdyna.nam.h, namdyncore.nam.h, namfpc.nam.h, namgfl.nam.h, namgwd.nam.h, namios.nam.h, nammcc.nam.h,  
 namppc.nam.h, namrlx.nam.h, namspstdt.nam.h, namstoph.nam.h, namtrans.nam.h  
 arpifs/nemo couplnemo.F90, getnemo.F90, ininemo.F90, nemoaddflds.F90  
 arpifs/obs\_preproc addoer.F90, airep\_flight\_phase.F90, ascatin.F90, ascatsm\_cdfmatch.F90, black.F90, blackhat.F90, btemdup.F90, btemthn.F90,  
 checkairpos.F90, cloud\_detect\_setup.F90, comtc.F90, conventional\_ob.F90, decis.F90, defrun.F90, dupli.F90, dupli\_no\_sq.F90,

errstat.F90, ersin.F90, fgchk.F90, fgwnd.F90, first.F90, flgdco.F90, flgdmx.F90, flgdse.F90, flgtst.F90, gefger.F90,  
 gen\_corr\_pert.F90, geosrin.F90, gersta\_v.F90, getsete.F90, inifger.F90, interp\_obs.F90, interp\_obsad.F90, kscatin.F90,  
 level1cgeos\_ob.F90, limb\_plane.F90, mkglobstab\_model.F90, movpl.F90, movpl\_no\_sq.F90, new\_thinn.F90,  
 new\_thinn\_rad\_reflec.F90, new\_thinn\_radar.F90, new\_thinner.F90, new\_thinner\_no\_sq.F90, nflgdse.F90, ngedeve.F90,  
 ngedeve2.F90, ngedsta.F90, ngenada.F90, ngereve.F90, ngereve2.F90, ngersta.F90, nscatin.F90, obadat.F90, obatabs.F90,  
 obinssp.F90, obscor\_lanczos.F90, obsgen.F90, obsprep.F90, opk\_obscor.F90, oscatin.F90, ozone\_ob.F90, p\_4\_sort.F90,  
 pertobs.F90, pertobs\_interchan\_corr.F90, pertobs\_satob\_corr.F90, pertobs\_uncorr.F90, post\_prsta.F90, post\_thinner.F90,  
 ppvafl.F90, pre\_prsta.F90, pre\_thinn\_rad\_reflec.F90, pre\_thinn\_radar.F90, pre\_thinner.F90, prech.F90, prlmchk.F90, prsta.F90,  
 qscatin.F90, rad1cin.F90, rd\_obs\_boxes.F90, rdbflr.F90, read\_iasichans.F90, readoba.F90, redgl.F90, redgl\_no\_sq.F90, redgps.F90,  
 redml.F90, redml\_no\_sq.F90, redmo.F90, redor.F90, redprof.F90, redrp.F90, redrp1.F90, redrp1\_no\_sq.F90, redrp\_no\_sq.F90,  
 redsl.F90, redsm.F90, redsm\_no\_sq.F90, redtp.F90, redts.F90, redun.F90, reini.F90, rejmv.F90, reo3sin.F90, repra.F90,  
 satamin.F90, satemis.F90, satob\_ob.F90, satobin.F90, scaqc.F90, scat\_ob.F90, screen.F90, sekf\_prep\_ascat.F90,  
 sekf\_prep\_smos.F90, selec.F90, settc.F90, setup\_tovscv.F90, sortscatidx.F90, stord.F90, sualobs.F90, sudimo.F90, sugoms.F90,  
 suobarea.F90, suobs.F90, suobsaddr.F90, suobsb.F90, suobsco.F90, suobsco\_resol.F90, tempinmf.F90, thiair.F90, thibox.F90,  
 thin\_red\_presort.F90, tovshris.F90, tovslris.F90, updobs.F90, upecma.F90, verco.F90  
 slab.F90, sualgco.F90, wrcoe.F90, wrcom.F90, wrcpl.F90  
 onedvar\_adjoint\_test.F90, onedvar\_diagnostics.F90, onedvar\_get\_bgcor.F90, onedvar\_get\_bgsig.F90, onedvar\_lintest.F90,  
 onedvar\_obsop.F90, onedvar\_obsop\_gr.F90, onedvar\_obsop\_tl.F90, onedvar\_raintb.F90, onedvar\_raintb\_hlp.F90,  
 onedvar\_raintb\_rcv.F90, onedvar\_raintb\_set.F90, onedvar\_raintb\_snd.F90, onedvar\_screen.F90, onedvar\_setup.F90,  
 onedvar\_simul.F90  
 allobs\_error\_mod.F90, allobs\_oper\_mod.F90, error\_covariance\_3d\_mod.F90, fields\_interp\_mod.F90, fields\_io\_mod.F90,  
 ifs\_init.F90, trajectory\_mod\_oops.F90, obsvec\_mod.F90, scan2m\_oops.F90, scan2mad\_oops.F90, scan2mtl\_oops.F90  
 trajectory\_mod\_oops.F90  
 aeolus\_getamd.F90, aer\_lidsimad.F90, aer\_lidsimop.F90, aer\_lidsimtl.F90, aerosol\_detect.F90, amv\_get\_preds.F90,  
 amv\_oberr.F90, amv\_reassign.F90, aod\_ad.F90, aod\_dualcv\_ad.F90, aod\_dualcv\_op.F90, aod\_dualcv\_tl.F90, aod\_op.F90,  
 aod\_tl.F90, bgobs.F90, ch4bcor.F90, cloud\_detect.F90, co2slicing.F90, co2slicing\_ml.F90, cobs.F90, cobsad.F90, cobsall.F90,  
 cobsallad.F90, cobsalltl.F90, departure\_jo.F90, departure\_joad.F90, departure\_jotl.F90, dopplsim.F90, dopplsim\_ad.F90,  
 dopplsim\_tl.F90, emis\_mw\_n.F90, exheiz2p.F90, exheiz2p\_lidar.F90, ghg\_ak\_ad.F90, ghg\_ak\_op.F90, ghg\_ak\_tl.F90,  
 gpscal\_alpha2dad.F90, gpscal\_alpharkm2tl.F90, gpsro\_2dad.F90, gpsro\_2dop.F90, gpsro\_2dtl.F90, gpsro\_ad.F90,  
 gpsro\_oberror.F90, gpsro\_op.F90, gpsro\_tl.F90, grg\_ak\_ad.F90, grg\_ak\_op.F90, grg\_ak\_tl.F90, hdepart.F90, hinth.F90, hjo.F90,  
 hop.F90, hop\_decide\_required\_sqls.F90, hqscatt.F90, hradp\_ml.F90, hradp\_ml\_ad.F90, hradp\_ml\_tl.F90, hretr\_aeolus.F90,  
 hretr\_conv.F90, hretr\_rad.F90, hsatang.F90, inv\_refl1dstat.F90, isac\_grg.F90, isac\_grgad.F90, isac\_grgtl.F90,  
 meanuv\_weightsad.F90, mopitt\_ak\_ad.F90, mopitt\_ak\_op.F90, mopitt\_ak\_tl.F90, mw\_clearsky\_screen.F90,  
 mw\_clearsky\_screen\_ecdecis.F90, mw\_clearsky\_screen\_mfdecis.F90, obshor.F90, obshorad.F90, obsop\_composition.F90,  
 obsop\_conv.F90, obsop\_gps\_surface.F90, obsop\_gpsro.F90, obsop\_limb\_rad.F90, obsop\_precip\_accum.F90, obsop\_rad.F90,  
 obsop\_radar.F90, obsop\_varbc.F90, obsv.F90, obsvad.F90, obsvtl.F90, popreal8.F90, pushinteger4.F90, rad1cemis.F90,  
 rad1cobe.F90, radtr\_ml.F90, radtr\_ml\_ad.F90, radtr\_ml\_tl.F90, rao\_ad.F90, rao\_op.F90, rao\_tl.F90, reflsim.F90, reflsim\_2dop.F90,  
 reo3bcor.F90, rtl\_hop\_1d.F90, rtl\_hop\_1d\_ad.F90, rtl\_hop\_1d\_tl.F90, rtl\_hop\_2d.F90, rtl\_hop\_2d\_ad.F90, rtl\_hop\_2d\_tl.F90,

arpifs/parallel rtl\_oberror.F90, rtl\_screen.F90, sat\_avg\_stdev\_filter.F90, slint.F90, slint\_canari.F90, slintad.F90, brptob.F90, commfce2.F90, commspnorm.F90, commspnorm1.F90, ddhsnd.F90, disfou.F90, disgrid\_surf\_ext.F90, disspec0.F90, diwrffou.F90, diwrgrid\_surf\_ext.F90, dot\_product\_ctlvec.F90, dresddh.F90, gatherbdy.F90, gathercost1.F90, gathercost2.F90, gathereigmd.F90, gathergpf.F90, gathergpf\_wavelet.F90, gatherspa.F90, gathert.F90, gl2ll.F90, gpnorm1.F90, read\_spec.F90, read\_spec\_fromfa.F90, read\_spec\_grib.F90, trmtos.F90, trstom.F90, wrgp\_surf.F90, write\_spec.F90, write\_spec\_grib.F90, write\_spec\_traj.F90

arpifs/phys\_dmn aclsps.F90, aclspsad.F90, aclspsstl.F90, acmtud.F90, acpcmt.F90, apl\_arome.F90, aplpar.F90, aplpars.F90, aplparsad.F90, aplparsadt.F90, aplparstl.F90, mf\_phys.F90, mf\_phys\_prep.F90, mf\_physad.F90, mf\_phystl.F90, mts\_phys.F90, profilechet.F90, suchet.F90, sucvmnh.F90, suparar.F90, suphmf.F90, suphmpa.F90, suphmse.F90, suphy0.F90, suphy2.F90, sutoph.F90, writemusc.F90, writephysio.F90, writeprofile.F90

arpifs/phys\_el aer\_bdgtmss.F90, aer\_clim.F90, aer\_climg.F90, aer\_climz.F90, aer\_clist.F90, aer\_diag1.F90, aer\_dms0.F90, aer\_drydep.F90, aer\_lidsim.F90, aer\_phy1.F90, aer\_phy2.F90, aer\_phy3.F90, aer\_phy3\_layer.F90, aer\_rrtm.F90, aer\_scavin.F90, aer\_sedimnt.F90, aer\_so2so4.F90, aer\_src.F90, aer\_ssalt.F90, aer\_stratcl.F90, aer\_volce.F90, aerc\_scav.F90, aerini\_layer.F90, backscatter\_layer.F90, callpar.F90, callparad.F90, callpartl.F90, chem\_initflux.F90, chem\_main\_layer.F90, chemini\_layer.F90, cldpp.F90, climaer\_layer.F90, cloud\_layer.F90, cloud\_s\_layer.F90, cloudsc.F90, cond\_layer.F90, convection\_layer.F90, cuadjtq.F90, cuancape2.F90, cuascn.F90, cuascn2.F90, cuascn2ad.F90, cuascn2tl.F90, cubasen.F90, cubasen2.F90, cubasen2ad.F90, cubasen2tl.F90, cubasmcn.F90, cucalln.F90, cucalln2.F90, cucalln2ad.F90, cucalln2tl.F90, cudtdqn.F90, cudtdqn2.F90, cudtdqn2ad.F90, cudtdqn2tl.F90, cududv.F90, cududv2.F90, cududv2ad.F90, cududv2tl.F90, cuentr.F90, cuflx2.F90, cuflx2ad.F90, cuflx2tl.F90, cuflxn.F90, cuinin.F90, culight.F90, cumastrn.F90, cumastrn2.F90, cumastrn2ad.F90, cumastrn2tl.F90, cupdra.F90, cupdraad.F90, cupdratl.F90, diag\_clouds.F90, ec\_phys.F90, ec\_phys\_ad.F90, ec\_phys\_drv.F90, ec\_phys\_drv\_ad.F90, ec\_phys\_drv\_tl.F90, ec\_phys\_lslphy.F90, ec\_phys\_tl.F90, fireinj.F90, gems\_init.F90, gwdrag\_wms.F90, gwdrag\_wmss.F90, gwdrag\_wmssad.F90, gwdrag\_wmssstl.F90, gwdragwms\_layer.F90, gwdragwms\_s\_layer.F90, heldsuarez.F90, liftemis.F90, lightning\_layer.F90, local\_arrays\_fin.F90, local\_arrays\_ini.F90, local\_state\_ini.F90, m7\_emi\_car.F90, m7\_emi\_so2.F90, nocloud.F90, noconvection.F90, noturbulence.F90, phys\_ad.F90, phys\_arrays\_fin.F90, phys\_arrays\_ini.F90, phys\_dim\_ini.F90, phys\_tl.F90, postphy\_layer.F90, satur.F90, spbsgpupd.F90, sppten.F90, state\_increment.F90, stochpert\_layer.F90, su\_aerop.F90, su\_aerp.F90, su\_aerv.F90, su\_aerw.F90, suaerv.F90, sucldp.F90, sucumf.F90, sucumf2.F90, suecaec.F90, sugwd.F90, sugwwms.F90, sumethox.F90, suphec.F90, suphli.F90, surfbc\_layer.F90, surfsttp\_layer.F90, suwcou.F90, turbulence\_layer.F90, updtier.F90, vdfdifh.F90, vdfdifhs.F90, vdfdifhsad.F90, vdfdifhstl.F90, vdfdpbl.F90, vdfexcu.F90, vdfhghtm.F90, vdfincr.F90, vdfmain.F90, vdfouter.F90, wvcouple.F90, wvwg2rg.F90, wvxf2gb.F90

arpifs/phys\_radi acradin.F90, acrads.F90, acradsad.F90, acradstl.F90, ecradfr.F90, ecradfr15.F90, lwvdad.F90, lwvdr.F90, mcica\_cld\_gen.F90, mcica\_cld\_generator.F90, noradiation.F90, radaca.F90, radact.F90, radcfg.F90, raddiag.F90, raddrv.F90, radflux\_layer.F90, radghg.F90, radheatn.F90, radiation\_layer.F90, radina.F90, radintg.F90, radlsw.F90, radlswr.F90, radozc.F90, radpar.F90, recmwf.F90, rrtm\_ecrt\_140gp.F90, rrtm\_ecrt\_140gp\_mcica.F90, rrtm\_gasabs1a\_140gp.F90, rrtm\_kgb1.F90, rrtm\_rrtm\_140gp.F90, rrtm\_rrtm\_140gp\_mcica.F90, rrtm\_rtrn1a\_140gp.F90, rrtm\_rtrn1a\_140gp\_mcica.F90, rrtm\_setcoef\_140gp.F90, rrtm\_taumol1.F90, rrtm\_taumol10.F90, rrtm\_taumol11.F90, rrtm\_taumol12.F90, rrtm\_taumol13.F90, rrtm\_taumol14.F90, rrtm\_taumol15.F90, rrtm\_taumol16.F90, rrtm\_taumol2.F90, rrtm\_taumol3.F90, rrtm\_taumol4.F90, rrtm\_taumol5.F90, rrtm\_taumol6.F90, rrtm\_taumol7.F90, rrtm\_taumol8.F90, rrtm\_taumol9.F90, srtm\_cldprop.F90, srtm\_kgb16.F90, srtm\_reftra.F90, srtm\_setcoef.F90, srtm\_spcvrt.F90, srtm\_spcvrt\_mcica.F90, srtm\_srtm\_224gp.F90, srtm\_srtm\_224gp\_mcica.F90, srtm\_taumol16.F90,

srtm\_taumol17.F90, srtm\_taumol18.F90, srtm\_taumol19.F90, srtm\_taumol20.F90, srtm\_taumol21.F90, srtm\_taumol22.F90,  
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srtm\_taumol29.F90, srtm\_vrtqdr.F90, su\_c11clim.F90, su\_c12clim.F90, su\_c22clim.F90, su\_ccl4clim.F90, su\_ch4clim.F90,  
su\_co2clim.F90, su\_gch4clim.F90, su\_gco2clim.F90, su\_gozoclim.F90, su\_mch4clim.F90, su\_mcica.F90, su\_mco2clim.F90,  
su\_mozoclim.F90, su\_n2oclim.F90, su\_no2clim.F90, su\_ozoclim.F90, suecozc.F90, suecrad.F90, suecrad15.F90, suovlp.F90,  
surdi.F90, surdi15.F90, uvradi.F90, uvradi\_layer.F90

arpifs/pp\_obs apache.F90, pos.F90, pos\_prepfl.F90, ppgeop.F90, ppgeopad.F90, ppgeoptl.F90, ppleta.F90, ppnew.F90, ppobsac.F90,  
ppobsacad.F90, ppobsactl.F90, ppobsap.F90, ppreq.F90, ppreset.F90, pprh.F90, ppvvel.F90

arpifs/programs hop\_driver.F90

arpifs/raingg raingg\_get.F90, raingg\_get\_ad.F90, raingg\_get\_tl.F90, raingg\_put.F90, raingg\_put\_tl.F90, raingg\_setup.F90

arpifs/sekf pertsekf\_v2.F90, sekf\_write.F90, store\_sekf\_cv.F90, susekf.F90

arpifs/setup allocate\_empty\_trajectory.F90, cmoctmap.F90, cmoctmap\_inv.F90, gp\_sstaqua.F90, modgrin.F90, su0phy.F90, su0yoma.F90,  
su0yomb.F90, su1yom.F90, su\_grib\_api.F90, su\_surf\_flds.F90, suafn.F90, suafn1.F90, suafn2.F90, suafn3.F90, sualdyn.F90,  
suarg.F90, sucpl0.F90, sucslint.F90, sucst.F90, suct0.F90, suctrl\_gflattr.F90, sudefo\_gflattr.F90, sudefo\_tstep.F90, sudefo\_vv1.F90,  
sudim\_traj.F90, sudyn.F90, sudyna.F90, sudyncore.F90, suecphypo.F90, suemis\_conf.F90, sufdb.F90, sufpinif.F90,  
sugeometry.F90, sugfl.F90, sugfl1.F90, sugfl2.F90, sugfl3.F90, sugpqlim.F90, sugrclia.F90, sugrib.F90, sugrida.F90,  
sugrida\_fix\_toz.F90, sugrida\_fixup.F90, sugridf.F90, sugridg.F90, sugridu.F90, sugridua\_map\_part1.F90, sugridua\_map\_part2.F90,  
sugridug.F90, sugridug1.F90, sugridug2.F90, sugridva.F90, suhdf2.F90, suhdf\_ec.F90, suhdu.F90, suheg.F90, suiauinif.F90,  
suinif.F90, suos.F90, sulap.F90, sulega.F90, sumcc.F90, sumcclag.F90, sumcuf.F90, sumetric.F90, sunh\_vertfe1d.F90,  
sunh\_vertfe1dd.F90, sunh\_vertfe3d.F90, sunh\_vertfe3dbc.F90, sunh\_vertfe3dd.F90, sunhbmata.F90, sunhbmata\_geogw.F90,  
sunhheg.F90, sunhsi.F90, suorog.F90, suphy.F90, supong.F90, supp.F90, suptrgppc.F90, surand1.F90, surand2.F90, surayfric.F90,  
surcordi.F90, surcordi\_th.F90, surip.F90, surlx.F90, susc2c.F90, suslad3.F90, suslb.F90, suspe0.F90, suspec.F90,  
suspeca\_map\_part1.F90, suspeca\_map\_part2.F90, suspecb.F90, suspecg.F90, suspecg1.F90, suspecg2.F90, suspectcfou.F90,  
suspgpg.F90, suspsdt.F90, susta.F90, sustadlr.F90, sutrans.F90, suvareps.F90, suvert2.F90, suvertfe1.F90, suvertfe3.F90,  
suvertfe3d.F90, suvertfeb.F90, suvolc.F90, suvv1.F90

arpifs/sinvect balanced\_reduction.F90, chnorm.F90, chsymeig.F90, cun1.F90, cun2.F90, cun3.F90, eof\_matrix.F90, jacdav.F90, lcnorad.F90,  
lcnorggad.F90, lcnorggtl.F90, lcnortl.F90, lcztald.F90, lcztoifs.F90, nalan1.F90, nalan2.F90, opk.F90, opm.F90, pcgbfgs.F90,  
rdtllcz.F90, sprtlcz.F90, su\_subspace.F90, suforce.F90, sulcz.F90, wrtllcz.F90, wrtsv.F90

arpifs/smos smos\_process.F90, smos\_update.F90

arpifs/transform grid2spec.F90, grid2specad.F90, reespe.F90, relaxgp.F90, spec2grid.F90, spec2gridad.F90, speree.F90, transdir\_mdl.F90,  
transdir\_mdlad.F90, transdir\_nhconv.F90, transdir\_nhconvprhs.F90, transdir\_wavelet.F90, transdir\_waveletad.F90, transdirh.F90,  
transdirhad.F90, transinv\_jbtomodel.F90, transinv\_jbtomodelad.F90, transinv\_mdl.F90, transinv\_mdlad.F90, transinv\_nhconv.F90,  
transinv\_nhconvprhs.F90, transinv\_wavelet.F90, transinv\_waveletad.F90, transinvh.F90, transinvhad.F90, uvspe.F90

arpifs/utility add3to5.F90, add5to3.F90, addbgs.F90, addfbs.F90, copy\_spa2spec.F90, copy\_spec2spa.F90, dealcos.F90, dealfpos.F90,  
deallo.F90, dealmod.F90, dealspa.F90, dotprod2.F90, dotprod3.F90, findminmaxg.F90, gpnorm2.F90, gpnorm3.F90,  
gpnorm\_gfl.F90, gpnorm\_gmv.F90, grid\_biconserv.F90, grid\_minmaxavg.F90, grid\_psglobal.F90, gstats\_label\_ifs.F90, incgpf.F90,  
logdis.F90, maxgpfv.F90, mod\_ini.F90, model2moderr.F90, modeltojb.F90, modeltojbada.F90, openfa.F90, pkgrida.F90,



pkspeca.F90, pre\_grid\_biconserv.F90, prt\_conv\_diags.F90, prt\_ctlvec\_max.F90, prt\_ctlvec\_norms.F90, prtjo.F90,  
 random\_ctlvec.F90, rdfa2gp.F90, rdfufa.F90, rdgpf.F90, rdmoderr.F90, rdphtraj.F90, rdradcoef.F90, rdsltraj2.F90, rdspec.F90,  
 read\_grid\_traj.F90, read\_surfgrid\_traj\_fromfa.F90, reset\_accfie\_vareps.F90, save\_evecs.F90, save\_merr\_tend.F90,  
 save\_test4dinc.F90, savmoderr.F90, sbs5to3.F90, sbsbgs.F90, sbsfgs.F90, setimzero.F90, spareord.F90, spconvert.F90,  
 spec2state.F90, specimzero.F90, spreord.F90, state2spec.F90, state2specad.F90, sualpa.F90, sualpa1.F90, swap53.F90,  
 swap73.F90, tsl.F90, updrlxref.F90, updtim.F90, verintad.F90, vspltrans.F90, wrgp2fa.F90, write\_ctlvec\_grib.F90,  
 write\_grid\_grib.F90, write\_grid\_traj.F90, write\_wavelet\_initcv\_grib.F90, wrresf.F90

arpifs/var

add\_moderr\_ad.F90, add\_moderr\_tl.F90, adtest.F90, apply\_bal\_tl.F90, balnonlin.F90, balnonlinad.F90, balnonlintl.F90,  
 balomega.F90, balomegaad.F90, balomegatl.F90, balstat.F90, balstatad.F90, balvert.F90, balvertad.F90, balverti.F90,  
 balvertiad.F90, bgevecs.F90, bgpert.F90, bgvecs.F90, cain.F90, cainad.F90, cainin.F90, caininad.F90, chavar.F90, chavarad.F90,  
 chavarin.F90, chavarinad.F90, chkobtim.F90, congrad.F90, coptra.F90, cosens.F90, cosjc.F90, cosjl.F90, cosjr.F90, cossmq.F90,  
 costra.F90, cvar2.F90, cvar2ad.F90, cvar2in.F90, cvar2inad.F90, cvar3.F90, cvar3ad.F90, cvar3in.F90, cvar3inad.F90,  
 cvargpad.F90, cvargptl.F90, cvaru2ad.F90, cvaru2i.F90, cvaru2iad.F90, deallt.F90, diag\_filter.F90, djbdy.F90, ecset.F90,  
 estsig.F90, estsiga.F90, evcost.F90, evjcdfi.F90, fltbgcalc.F90, fltbgcalc\_crt.F90, fltbgerr.F90, fltlcterr.F90,  
 get\_jbvcoord\_coeffs.F90, get\_traj\_phys.F90, getmini.F90, getmini2.F90, getsatid.F90, gp\_nearest.F90, gp\_ssmi.F90,  
 gp\_ssmi\_gp2obs.F90, gp\_ssmi\_igp2obs.F90, gp\_ssmi\_inv.F90, gp\_ssmi\_iobs2gp.F90, gp\_ssmi\_obs2gp.F90, grbspa.F90,  
 grtest.F90, horiz\_avg.F90, horiz\_ft.F90, inflation\_pert.F90, inflcalc.F90, jbchvar.F90, jbchvarad.F90, jbchvari.F90, jbchvariad.F90,  
 jbtomodel.F90, jbtomodelad.F90, jbvcoord\_interpolate.F90, jbvcoord\_interpolate\_ad.F90, jbvcor\_wavelet.F90,  
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 jqhcorin.F90, jqvcor.F90, lhtcalc.F90, lhtflt.F90, litest.F90, monitoring\_summary.F90, objtrunc.F90, pregprh.F90, preppcm.F90,  
 rd801.F90, rdpinc.F90, rdnhtrajm.F90, rdphtrajm.F90, rdphtrajtm.F90, rdphtrajtm\_nl.F90, read\_surfgrid\_traj.F90, readtmp.F90,  
 readvec.F90, rtsetup.F90, sacmac1.F90, savhess.F90, savmini.F90, savmini2.F90, scaleae.F90, scalederae.F90, scalefe.F90,  
 scaljgg.F90, scaljgs.F90, setqccma.F90, sqrtb.F90, sqrtbad.F90, sqrtbin.F90, sqrtbinad.F90, sqrtfe.F90, sqrtq.F90, sqrtqad.F90,  
 sqrtqin.F90, sqrtqinad.F90, sualcos.F90, sualcosjo.F90, sualctv.F90, sualges.F90, suallr.F90, suallt.F90, suallt7.F90, suamv.F90,  
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 subjchvar.F90, subjcor.F90, subjcosu.F90, subjcov.F90, subjcovnoise.F90, subjcovsignal.F90, subjdat.F90, subjgptomat.F90,  
 subjstd.F90, subjtest.F90, subjvarens.F90, subjvcoord.F90, subjwavalls\_wavgen.F90, subjwavelet.F90, subjwavelet0.F90,  
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 susepfce.F90, suseprenormfce.F90, sushfce.F90, suspqlim\_part1.F90, suspqlim\_part2.F90, suvar.F90, suvazx.F90, symtransin.F90,  
 taskob.F90, taskob\_thread.F90, taskobad.F90, taskobad\_thread.F90, taskobl.F90, taskobl\_thread.F90, test\_sdp\_lct.F90,  
 test\_sdp\_variances.F90, tlprop.F90, tltest.F90, trunc\_read.F90, upspec.F90, varcalc.F90, varflt.F90, varflt\_crt.F90, varflt\_trunc.F90,  
 vec2dergp.F90, vec2gp.F90, vec2gpfe.F90, wavxform.F90, wrchres.F90, writelct.F90, writeoba.F90, writesd.F90, writestd.F90,  
 writetmp.F90, wrnhtrajm.F90, wrphtrajm.F90, wrphtrajtm.F90, wrphtrajtm\_nl.F90, xformev.F90

ecftw/module

tpm\_fftw.F90

ifsaux/fa

farpar.F90

ifsaux/include	chien.h, drhook.h, privpub.h
ifsaux/lfi_alt	lfi_
ifsaux/linux	linux_bind.c
ifsaux/module	distio_mix.F90, eggangles.F90, eggpack.F90, fdbsubs_mod.F90, local_trafos.F90, mpl_rcv_mod.F90, rttov_const.F90, strhandler_mod.F90, yomhook.F90
ifsaux/support	drhook.c, env.c, gstats.F90, gstats_print.F90
ifsaux/utilities	chien.F90, ec_cray_meminfo.F90, gentrbk.F90, getmemvals.F90, getrss.c, linuxtrbk.c, sha256_hash.c
mse/externals	fp2sx1.F90, gridfpossfx_init.F90, suphmse_surface.F90
mse/interface	fp2sx1.h, fp2sx2.h, gridfpossfx_init.h, suphmse_surface.h
obstat/bias_sat	biasprep_fbcrack_geos.F90
obstat/data	dobstat, obstat
obstat/doc	updatedoc
obstat/module	dataqc.F90, globvar.F90, mod_obstat_plot.F90, obstat_funcs.F90, statsoft.F90
obstat/src	addstat.F90, genopt.F90, iniglob.F90, iniodb.F90, inisoft.F90, inisoftinstr.F90, mergesoft.F90, mpsoft.F90, obstat_add_grib.F90, obstat_grib_merge.F90, obstat_normalize_grib.F90, odb2read.F90, outcoverage.F90, updssoft.F90, writesoft.F90
odb/aux	cma_flperr.F90, cma_prt_stat.F90, codb2netcdf.F90, f_odb_layer.F90, odbi_direct.c
odb/bufr2odb	b2o_access.F90, b2o_amend.F90, b2o_convert.F90, b2o_convert_asr.F90, b2o_convert_atms.F90, b2o_convert_atovs.F90, b2o_convert_cris.F90, b2o_convert_gch1.F90, b2o_convert_gch2.F90, b2o_convert_gch3.F90, b2o_convert_gch4.F90, b2o_convert_gch5.F90, b2o_convert_gmi.F90, b2o_convert_iasi.F90, b2o_convert_ims.F90, b2o_convert_iscat.F90, b2o_convert_metar.F90, b2o_convert_msg.F90, b2o_convert_mwri_1d.F90, b2o_convert_oscatter.F90, b2o_convert_pilot.F90, b2o_convert_qscat.F90, b2o_convert_radio_lat_long.F90, b2o_convert_rain_gauges.F90, b2o_convert_rain_rates.F90, b2o_convert_reo3.F90, b2o_convert_satob.F90, b2o_convert_scat.F90, b2o_convert_snow.F90, b2o_convert_ssmi.F90, b2o_convert_synop_land.F90, b2o_convert_synop_ship.F90, b2o_convert_temp.F90, b2o_convert_temp_hires.F90, b2o_convert_windprofiler.F90, b2o_convert_windsat.F90, b2o_decode.F90, b2o_handle.F90, b2o_options.F90, b2o_table.F90, b2o_utility.F90, fy3_corrections.F90, geosangl.F90, get_templateidx.F90, get_varindex.F90, satobfreq.F90, satobfreq_bynam.F90
odb/build	Install, build_odb, export_source_code, lib_links, module_links, odb_init_sh
odb/cma2odb	abortdb.F90, addpoolsdb.F90, addviewdb.F90, allocate_msg.F90, array_bounds_db.F90, bool_setparam_obsort.F90, buoctmap.F90, check_duplicates_odb.F90, check_linksdb.F90, check_namelist.F90, closedb.F90, copie_radsta.F90, crack_bufr_hdr.F90, create_averaged_values.F90, create_averaged_values_over_angles.F90, ctxgetdb.F90, ctxinitdb.F90, ctxprint.F90, ctxputdb.F90, distribtype_ssmi_rain.F90, distribute_odb.F90, distributedb.F90, dotransf.F90, dump_namelist.F90, finish_obsort.F90, freemem_obsort.F90, gather4poolmask.F90, gen_timeslot_data.F90, get_new_rs_trh_bias.F90, get_rs_t_bias.F90, getactivatedb.F90, getatdb.F90, getdb.F90, getpoolsdb.F90, globe_split_odb.F90, grid_nearest.F90, include_file.F90, init_common.F90, init_odb_tables.F90, init_odbtools.F90, initmdb.F90, int_setparam_obsort.F90, intarr_setparam_obsort.F90, intcolddb.F90, isopendb.F90, loaddb.F90, makedesc.F90, maketimeslot_index.F90, mapdb.F90, mapvardb.F90, matchupdb.F90, memory_usage.F90, merge_clusters_odb.F90, mypoolsdb.F90, o2e_initlong.F90, obs_sort_odb.F90, obsproc_init.F90, opendb.F90, posnam3.F90, print_obs_odb.F90, print_split_odb.F90, print_wtfuns.F90, prtarraydb.F90, putatdb.F90, putdb.F90,

read\_namelist.F90, ref\_time.F90, reprod\_seqno.F90, revmatchupdb.F90, setactivedb.F90, setbaire.F90, setblans.F90, setblshi.F90, setblsno.F90, setbpaob.F90, setbsato.F90, setbsats.F90, setbscat.F90, setbseas.F90, setbsshi.F90, setbssht.F90, setbssl.F90, setbssme.F90, setbssmi.F90, setbsspa.F90, setbsspw.F90, setbssro3.F90, setbufr.F90, setbufrd.F90, setbufrf.F90, setbuppa.F90, setcombu.F90, setcomcm.F90, setpoolmaskdb.F90, setup\_obsort.F90, shuffle.F90, shuffle\_odb.F90, shuffle\_rest.F90, shuffledb.F90, sort\_prepare\_odb.F90, srgevent.F90, store\_enda.F90, storedb.F90, string\_setparam\_obsort.F90, subuoctp.F90, suinout.F90, sunumc1.F90, swapoutdb.F90, syncdb.F90, tslotdb.F90, tslotindex.F90, unmapdb.F90, unsetpoolmaskdb.F90, update\_ddr\_odb.F90, update\_desc.F90, update\_obsdb.F90, updcsl2.F90, wtfunc.F90, wtfunc\_obsort.F90, xchangedatadb.F90, xchangedatadistdb.F90

odb/ddl

body.h, ecmwf\_matchup\_body.sql, get\_soe\_resat.sql, getairepid.sql, global\_enkf\_body\_10.sql, global\_enkf\_body\_100.sql, global\_enkf\_body\_110.sql, global\_enkf\_body\_120.sql, global\_enkf\_body\_20.sql, global\_enkf\_body\_30.sql, global\_enkf\_body\_40.sql, global\_enkf\_body\_50.sql, global\_enkf\_body\_60.sql, global\_enkf\_body\_70.sql, global\_enkf\_body\_80.sql, global\_enkf\_body\_90.sql, matchup\_body.sql, mkglobstab\_gpsro.sql, obsort\_allsky.sql, obsort\_allsky\_body.sql, obsort\_auxiliary.sql, obsort\_body.sql, obsort\_cloud\_sink.sql, obsort\_collocated\_imager\_information.sql, obsort\_conv.sql, obsort\_conv\_body.sql, obsort\_errstat.sql, obsort\_gbrad.sql, obsort\_gbrad\_body.sql, obsort\_gnssro.sql, obsort\_gnssro\_body.sql, obsort\_hdr.sql, obsort\_hdr2allsky\_body.sql, obsort\_hdr2auxiliary\_body.sql, obsort\_hdr2body.sql, obsort\_hdr2conv\_body.sql, obsort\_hdr2gbrad\_body.sql, obsort\_hdr2gnssro\_body.sql, obsort\_hdr2radar\_body.sql, obsort\_hdr2radiance\_body.sql, obsort\_hdr2raingg\_body.sql, obsort\_hdr2resat\_averaging\_kernel.sql, obsort\_hdr2scatt\_body.sql, obsort\_index.sql, obsort\_limb.sql, obsort\_modsurf.sql, obsort\_radar.sql, obsort\_radar\_body.sql, obsort\_radar\_station.sql, obsort\_radiance.sql, obsort\_radiance\_body.sql, obsort\_raingg.sql, obsort\_raingg\_body.sql, obsort\_resat.sql, obsort\_resat\_averaging\_kernel.sql, obsort\_sat.sql, obsort\_satob.sql, obsort\_scatt.sql, obsort\_scatt\_body.sql, obsort\_smos.sql, obsort\_ssmi.sql, obsort\_ssmi\_body.sql, obsort\_update.sql, obsort\_update\_1.sql, obsort\_update\_2.sql, obsort\_update\_3.sql, obsortca\_auxiliary.sql, obsortca\_body.sql, obsortca\_errstat.sql, obsortca\_hdr.sql, obsortca\_hdr2auxiliary\_body.sql, obsortca\_hdr2body.sql, obsortca\_index.sql, obsortca\_update\_1.sql, obsortca\_update\_2.sql, obsortca\_update\_3.sql, radiance.h, robody.sql, robody\_min.sql, robody\_tc.sql, satbody\_allsky.sql, update\_body\_3.sql

odb/include

compat\_fill\_mdb\_col\_array\_members.h, compat\_fill\_mdb\_members.h, compat\_fill\_mdb\_table\_array\_members.h, compat\_mdb\_col\_array\_members.h, compat\_mdb\_members.h, compat\_mdb\_table\_array\_members.h, fodb.h, fodbmp.h, fodbmp1.h, fodbmp2.h, fodbutil.h, funcs.h, odb\_assoc\_cols.h, odb\_it\_members.h, stmfun.func.h, timerdefs.func.h

odb/interface

abortdb.h, addpoolsdb.h, allocate\_msg.h, apply\_poolmasking.h, bool\_setparam\_obsort.h, bsslzr\_odb.h, check\_duplicates\_odb.h, check\_namelist.h, ckeysort.h, closedb.h, cmdb\_reg.h, cmdb\_vecreg.h, crack\_bufdr\_hdr.h, create\_iomap.h, create\_statid.h, ctxgetdb.h, ctxinitdb.h, ctxputdb.h, distribtype\_ssmi\_rain.h, distribute\_odb.h, distributedb.h, dump\_namelist.h, finish\_obsort.h, freemem\_obsort.h, fwrite\_iomap.h, gauaw\_odb.h, gen\_timeslot\_data.h, getatdb.h, getdb.h, globe\_split\_odb.h, include\_file.h, init\_common.h, initmdb.h, int\_collect.h, int\_setparam\_obsort.h, intarr\_setparam\_obsort.h, intcolddb.h, iolockdb.h, lnkdb.h, lnkdb2.h, loaddb.h, map\_reportype.h, map\_ssmi\_rain.h, mapdb.h, mapvardb.h, memory\_usage.h, merge\_clusters\_odb.h, msgpass\_loaddata.h, msgpass\_loadobs.h, msgpass\_storedata.h, msgpass\_storeobs.h, obs\_sort\_odb.h, opendb.h, posnam3.h, print\_obs\_odb.h, print\_split\_odb.h, print\_wtfuns.h, putatdb.h, putdb.h, read\_namelist.h, ref\_time.h, reprod\_seqno.h, rlnkdb.h, rlnkdb2.h, setactivedb.h, setup\_obsort.h, shuffle\_odb.h, shuffle\_rest.h, shuffledb.h, sort\_prepare\_odb.h, storedb.h, string\_setparam\_obsort.h, swapoutdb.h, uniquenumdb.h, update\_obsdb.h, updcsl2.h, wtfunc.h, wtfunc\_obsort.h, xchangedatadb.h, xchangedatadistdb.h

odb/lib

Ctxprint.F90, Dummies\_netcdf.c, append\_num.F90, apply\_poolmasking.F90, bsslzr\_odb.F90, ckeysort.F90, codb\_distribute.F90,

create\_iomap.F90, create\_statid.F90, datastream.F90, fodb\_checkviewreg.F90, fodb\_propagate\_env.F90, fwrite\_iomap.F90, gauaw\_odb.F90, iolockdb.F90, lnkdb.F90, lnkdb2.F90, msgpass\_loaddata.F90, msgpass\_loadobs.F90, msgpass\_storedata.F90, msgpass\_storeobs.F90, odb\_array\_dump.F90, odb\_wrapper.F90, rlnkdb.F90, rlnkdb2.F90, uniquenessdb.F90

odb/module b2o\_common.F90, b2o\_internal.F90, bufr\_module.F90, combufr.F90, combufrc.F90, combufrn.F90, comkey.F90, comsec0.F90, comsec1.F90, comsec2.F90, comsec3.F90, comsec4.F90, comsup.F90, getval\_module.F90, init\_module.F90, iodist.F90, no\_var\_module.F90, odb.F90, odb\_module.F90, odb\_module8.F90, odbaccess\_module.F90, odbgetput.F90, odbi.F90, odbio\_msgpass.F90, odbiomap.F90, odbmap\_reporttype.F90, odbmp.F90, odbnetcdf.F90, odbprint.F90, odbshared.F90, odbsort.F90, odbstat.F90, odbutil.F90, parbufr.F90, pariod.F90, parnumc.F90, stackdb.F90, str.F90, varindex\_module.F90, yomboctp.F90, yomciod.F90, yomiod.F90, yomkeys.F90, yommpp.F90, yomnumc.F90, yomobsmap.F90, yomparallel.F90, yomseqno.F90, yomsizeof.F90, yomsort.F90, yomvirt.F90

odb/pandor/extrtovs extr\_init\_1c.F90, extr\_lecdata\_1c.F90

odb/pandor/fcq fcqodb\_init.F90, fcqodb\_pilot.F90, fcqodb\_pilotverif.F90, fcqodb\_solomm.F90, fcqodb\_solverif.F90, fcqodb\_synop.F90, fcqodb\_temp.F90, fcqodb\_tempverif.F90, man\_fcq\_bdm\_fus.F90, man\_orders.F90

odb/pandor/mandalay manda\_util.F90

odb/pandor/module bator\_datetime\_mod.F90, bator\_decodbufr\_mod.F90, bator\_decodgrib\_mod.F90, bator\_decodnetcdf\_mod.F90, bator\_ecritures\_mod.F90, bator\_impr\_mod.F90, bator\_init\_mod.F90, bator\_lectures\_mod.F90, bator\_module.F90, bator\_pool\_balance\_mod.F90, bator\_rad\_postproc\_mod.F90, bator\_saisies\_mod.F90, bator\_util\_mod.F90, extr\_module\_1c.F90, fcqodb\_module.F90

odb/perl calltree.pl, checkargs.pl, cmdbgen.pl, ddtree.pl, dumptree.pl, find\_use.pl, genddl.pl, inc2h.pl, mdbkeys.pl, robfilt.pl, screening.pl, skeleton.pl

odb/scripts create\_global\_enkf\_sql.ksh, odb\_compress

odb/tools Adjust\_distribid.F90, Adjust\_seqnos.F90, Bator.F90, Bufr2odb.F90, Controdb.F90, Create\_enkf.F90, Create\_fcdiag.F90, Create\_index.F90, Create\_odb.F90, Ecma2ecmascr\_copy.F90, Fbdecode.F90, Fc\_sens\_obs.F90, Fcqodb.F90, Fodbcalc.F90, Fodbsql.F90, Fscheduler.F90, Kind.F90, Mandalay.F90, Merge\_gmi\_swaths.F90, Odb2\_to\_Odb1\_ralt.F90, Odb2netcdf.F90, Odbdiff.F90, Odbgnuplot.F90, Odbless.F90, Odbtools.F90, Pertcma.F90, Plotobs.F90, Ps\_bias\_compress.F90, Ps\_bias\_correction.F90, Revert\_seqnos.F90, Simulobs2odb.F90, Split\_bufr\_data.F90, Split\_bufr\_per\_subtype.F90, Split\_timeslot\_bufr\_data.F90, Viewer.F90

satrad/interface calc\_azimuth.h, distance\_between.h, obs\_az\_ang\_cal\_conic.h, rttvi.h, satmidpoint.h

satrad/module bufr\_grid\_screen\_keep.F90, mod\_rttov\_emis\_atlas.F90

satrad/mwwave mwave\_emis\_rttov.F90, mwave\_get\_filename.F90, mwave\_get\_rtcoeff.F90, mwave\_obsop\_rttov.F90, mwave\_obsop\_rttov\_ad.F90, mwave\_obsop\_rttov\_adtest.F90, mwave\_obsop\_rttov\_tl.F90, mwave\_share\_rtcoeff.F90

satrad/pre\_screen calc\_azimuth.F90, distance\_between.F90

satrad/programs bufr\_grid\_screen.F90, bufr\_screen\_1c\_allsky.F90, bufr\_screen\_amsr2\_1d.F90, bufr\_screen\_amsre\_1d.F90, bufr\_screen\_cris.F90, bufr\_screen\_gmi\_1d.F90, bufr\_screen\_iasi.F90, bufr\_screen\_mwri\_1d.F90, bufr\_screen\_nexrad.F90, bufr\_screen\_opera.F90, bufr\_screen\_smos.F90, bufr\_screen\_ssmi\_1d.F90, bufr\_screen\_ssmiss\_1d.F90, bufr\_screen\_synop\_rain\_gauges.F90, bufr\_screen\_tmi\_1d.F90, bufr\_screen\_windsat\_1d.F90, calc\_radiance\_fields.F90, gensatim.F90, geos\_prescreen.F90, obs\_az\_ang\_cal\_conic.F90, reo3\_prescreen.F90, satmidpoint.F90, screen\_1c.F90

satrad/rttov/coef_io	rttov_get_pc_predictindex.F90, rttov_read_coefs.F90, rttov_write_coefs.F90
satrad/rttov/emis_atlas	rttov_atlas_setup.F90, rttov_deallocate_atlas.F90, rttov_get_emis.F90
satrad/rttov/ifs	phrtsetup.F90, rttov_ec.F90, rttov_ec_ad.F90, rttov_ec_tl.F90, rttvi.F90
satrad/rttov/main	rttov_fastem5.F90, rttov_fastem5_k.F90
surf/build	interface.pl
surf/external	surfbc.F90, surfexcdriver.F90, surfseb.F90, surftstp.F90, susurf.F90
surf/interface	surfbc.h, surfexcdriver.h, surfseb.h, surftstp.h, susurf.h
surf/make/cfg	cce-noopt.cfg, cce-opt.cfg
surf/module	cotwo_mod.F90, cotworestress_mod.F90, flake_driver_mod.F90, flakeene_mod.F90, flakerad_mod.F90, kpp_tridmat_mod.F90, kpp_tridrhs_mod.F90, sppcfl_mod.F90, srfcotwo_mod.F90, srfrcg_mod.F90, srffootfr_mod.F90, srfsn_lwimp_mod.F90, srfsn_rsn_mod.F90, srft_mod.F90, srfwexc_vg_mod.F90, srfwl_mod.F90, srfwng_mod.F90, surfbc_ctl_mod.F90, surfexcdriver_ctl_mod.F90, surfseb_ctl_mod.F90, surftstp_ctl_mod.F90, surwn_mod.F90, susflake_mod.F90, sussoil_mod.F90, susurf_ctl_mod.F90, susveg_mod.F90, vsurf_mod.F90, vsurfs_mod.F90, vsurfsad_mod.F90, vsurfstl_mod.F90, vupdz0_mod.F90, yos_dim.F90, yos_flake.F90, yos_soil.F90
surf/offline/driver	callpar1s.F90, cnt41s.F90, cpg1s.F90, dattim.F90, dtforc.F90, minmax.F90, netcdf_utils.F90, parkind1.F90, ptrgp1s.F90, rdclim.F90, rdfvar.F90, rdsupr.F90, stepo1s.F90, su0phy1s.F90, succdfres.F90, succdh1s.F90, sucst.F90, suct01s.F90, succdf.F90, sudim1s.F90, sufcdf.F90, sugc1s.F90, sugdi1s.F90, sugg1s.F90, sulun1s.F90, supcdf.F90, suphec.F90, suswn.F90, upddiag.F90, updtim1s.F90, vdfdifh1s.F90, vdfmain1s.F90, wrtclim.F90, wrtdcdf.F90, wrtp1s.F90, wrtpcdf.F90, wrtres.F90, yoephy.F90, yomcdh1s.F90, yomdphy.F90, yomgdi1s.F90, yomgp1s0.F90, yomgp1s1.F90, yomgp1sa.F90, yomlun1s.F90
surf/offline	callpar1s.F90, cnt41s.F90, cpg1s.F90, dattim.F90, dtforc.F90, minmax.F90, netcdf_utils.F90, parkind1.F90, ptrgp1s.F90, rdclim.F90, rdfvar.F90, rdsupr.F90, stepo1s.F90, su0phy1s.F90, succdfres.F90, succdh1s.F90, sucst.F90, suct01s.F90, succdf.F90, sudim1s.F90, sufcdf.F90, sugc1s.F90, sugdi1s.F90, sugg1s.F90, sulun1s.F90, supcdf.F90, suphec.F90, suswn.F90, upddiag.F90, updtim1s.F90, vdfdifh1s.F90, vdfmain1s.F90, wrtclim.F90, wrtdcdf.F90, wrtp1s.F90, wrtpcdf.F90, wrtres.F90, yoephy.F90, yomcdh1s.F90, yomdphy.F90, yomgdi1s.F90, yomgp1s0.F90, yomgp1s1.F90, yomgp1sa.F90, yomlun1s.F90, master1s.F90, namdim1s.h, namphy1s.h, caldtdz.F90, conv_forcing.F90, create_init_clim.F90, mpl_mod_ctl.F90
surf/offline/namelist	namdim1s.h, namphy1s.h
surf/offline/util	caldtdz.F90, conv_forcing.F90, create_init_clim.F90, mpl_mod_ctl.F90
surfex/ASSIM	assim_nature_isba_ekf.F90, assim_nature_isba_enkf.F90, varassim.F90
trans/build	interface.pl, makeint, mkabs
trans/external	dir_trans.F90, gpnorm_trans.F90, inv_trans.F90, setup_trans.F90, trans_end.F90, trans_inq.F90
trans/interface	dir_trans.h, inv_trans.h, setup_trans.h
trans/module	dealloc_resol_mod.F90, fsc_mod.F90, fspgl_int_mod.F90, ftdir_mod.F90, ftdirad_mod.F90, ftinv_ctl_mod.F90, ftinv_mod.F90, ftinvad_mod.F90, ledir_mod.F90, leinv_mod.F90, ltdir_mod.F90, ltinv_mod.F90, set_resol_mod.F90, setup_geom_mod.F90, sufft_mod.F90, suleg_mod.F90, sump_trans_mod.F90, sustaonl_mod.F90, tpm_distr.F90, tpm_fft.F90, tpm_fields.F90, tpmflt.F90, tpm_trans.F90
utilities/combi	combi_pert.F90

utilities/ctpini/programs

inversion\_master.F90

**Doc:**

*Subroutine "check\_err" was duplicated in several "obstat" modules and subroutines. A new module "mod\_check\_err" has been created, containing the definition of subroutine "check\_err", and other definitions of "check\_err" have been removed. Statement "USE mod\_check\_err , only : check\_err" has been introduced where it's necessary.*

**Projects:** obstat

**Git branch:** gco\_CY43T2\_r3.02%obstat\_check\_err

**Added:**

obstat/module mod\_check\_err.F90

**Modified:**

obstat/module mod\_obstat\_plot.F90, mod\_sat\_create\_netcdf.F90, mod\_sat\_monitor.F90

obstat/satmon sat\_324\_hist\_plot.F90, sat\_add\_geo.F90, sat\_geo\_plot.F90, sat\_hist\_plot.F90, sat\_hist\_profile\_plot.F90, sat\_hov\_plot.F90, sat\_normalize\_geo.F90, sat\_overview\_hist\_plot.F90, sat\_summary\_plot.F90

obstat/src writegridstats.F90

**Doc:**

*Proper re-introduction of project "oopsifs", and reset "oops" to version CY43T2\_r3.07 .*

**Projects:** oops, oopsifs

**Git branch:** gco\_CY43T2\_r3.08%oops

**Renamed:**

oops/ifs/mains TestErrorCovariance.cc oopsifs/mains/TestErrorCovariance.cc, TestGeometry.cc oopsifs/mains/TestGeometry.cc, TestIncrement.cc oopsifs/mains/TestIncrement.cc, TestLinearModel.cc oopsifs/mains/TestLinearModel.cc, TestLocalization.cc oopsifs/mains/TestLocalization.cc, TestLocations.cc oopsifs/mains/TestLocations.cc, TestModel.cc oopsifs/mains/TestModel.cc, TestModelAuxControl.cc oopsifs/mains/TestModelAuxControl.cc, TestModelAuxCovariance.cc oopsifs/mains/TestModelAuxCovariance.cc, TestModelAuxIncrement.cc oopsifs/mains/TestModelAuxIncrement.cc, TestModelIncrement.cc oopsifs/mains/TestModelIncrement.cc, TestObsAuxControl.cc oopsifs/mains/TestObsAuxControl.cc, TestObsAuxCovariance.cc oopsifs/mains/TestObsAuxCovariance.cc, TestObsAuxIncrement.cc oopsifs/mains/TestObsAuxIncrement.cc, TestObsErrorCovariance.cc oopsifs/mains/TestObsErrorCovariance.cc, TestObsVector.cc oopsifs/mains/TestObsVector.cc, TestObservationSpace.cc oopsifs/mains/TestObservationSpace.cc, TestState.cc oopsifs/mains/TestState.cc, TestSuiteOpObs.cc oopsifs/mains/TestSuiteOpObs.cc, TestVariables.cc oopsifs/mains/TestVariables.cc

oops/ifs/src CMakeLists.txt oopsifs/src/CMakeLists.txt, ifs/AllObs.cc oopsifs/src/ifs/AllObs.cc, ifs/AllObs.h oopsifs/src/ifs/AllObs.h, ifs/AllObs.interface.F90 oopsifs/src/ifs/AllObs.interface.F90, ifs/AllObsCovariance.cc oopsifs/src/ifs/AllObsCovariance.cc, ifs/AllObsCovariance.h oopsifs/src/ifs/AllObsCovariance.h, ifs/AllObsCovariance.interface.F90 oopsifs/src/ifs/AllObsCovariance.interface.F90, ifs/AllObsTLAD.cc oopsifs/src/ifs/AllObsTLAD.cc, ifs/AllObsTLAD.h oopsifs/src/ifs/AllObsTLAD.h, ifs/AllObsTLAD.interface.F90 oopsifs/src/ifs/AllObsTLAD.interface.F90, ifs/CMakeLists.txt

oopsifs/src/ifs/CMakeLists.txt, ifs/ErrorCovariance3D.cc oopsifs/src/ifs/ErrorCovariance3D.cc, ifs/ErrorCovariance3D.h  
oopsifs/src/ifs/ErrorCovariance3D.h, ifs/ErrorCovariance3D.interface.F90 oopsifs/src/ifs/ErrorCovariance3D.interface.F90, ifs/FieldsIFS.cc  
oopsifs/src/ifs/FieldsIFS.cc, ifs/FieldsIFS.h oopsifs/src/ifs/FieldsIFS.h, ifs/FieldsIFS.interface.F90 oopsifs/src/ifs/FieldsIFS.interface.F90,  
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ifs/LinearModelIFS.cc oopsifs/src/ifs/LinearModelIFS.cc, ifs/LinearModelIFS.h oopsifs/src/ifs/LinearModelIFS.h,  
ifs/LinearModelIFS.interface.F90 oopsifs/src/ifs/LinearModelIFS.interface.F90, ifs/LocalizationMatrixIFS.cc  
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ifs/LocalizationMatrixIFS.interface.F90 oopsifs/src/ifs/LocalizationMatrixIFS.interface.F90, ifs/LocationsIFS.cc  
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oopsifs/src/ifs/LocationsIFS.interface.F90, ifs/ModelBias.h oopsifs/src/ifs/ModelBias.h, ifs/ModelBiasCovariance.h  
oopsifs/src/ifs/ModelBiasCovariance.h, ifs/ModelBiasIncrement.h oopsifs/src/ifs/ModelBiasIncrement.h, ifs/ModelIFS.cc  
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ifs/VariablesIFS.interface.F90 oopsifs/src/ifs/VariablesIFS.interface.F90, ifs/ifs\_init\_wrapper.F90 oopsifs/src/ifs/ifs\_init\_wrapper.F90,  
ifs/instantiateObsErrorFactory.h oopsifs/src/ifs/instantiateObsErrorFactory.h, ifs/linkedList.F90 oopsifs/src/ifs/linkedList.F90,  
ifs/linkedList.intf.F90 oopsifs/src/ifs/linkedList.intf.F90, ifs/mpi\_wrapper.F90 oopsifs/src/ifs/mpi\_wrapper.F90, ifs/pm\_link\_mod.F90  
oopsifs/src/ifs/pm\_link\_mod.F90, ifs/pm\_linked\_list\_mod.F90 oopsifs/src/ifs/pm\_linked\_list\_mod.F90

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oopsifs/src/ifs/FieldsIFS.cc, FieldsIFS.h oopsifs/src/ifs/FieldsIFS.h, FieldsIFS.interface.F90 oopsifs/src/ifs/FieldsIFS.interface.F90,  
GeometryIFS.h oopsifs/src/ifs/GeometryIFS.h, GeometryIFS.interface.F90 oopsifs/src/ifs/GeometryIFS.interface.F90, GomData.cc  
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GomsIFS.h oopsifs/src/ifs/GomsIFS.h, IfsFortran.h oopsifs/src/ifs/IfsFortran.h, IfsTraits.h oopsifs/src/ifs/IfsTraits.h, IncrementIFS.cc

oopsifs/src/ifs

oopsifs/src/ifs/IncrementIFS.cc, IncrementIFS.h oopsifs/src/ifs/IncrementIFS.h, LinearModelIFS.cc oopsifs/src/ifs/LinearModelIFS.cc, LinearModelIFS.h oopsifs/src/ifs/LinearModelIFS.h, LinearModelIFS.interface.F90 oopsifs/src/ifs/LinearModelIFS.interface.F90, LocalizationMatrixIFS.cc oopsifs/src/ifs/LocalizationMatrixIFS.cc, LocalizationMatrixIFS.h oopsifs/src/ifs/LocalizationMatrixIFS.h, LocalizationMatrixIFS.interface.F90 oopsifs/src/ifs/LocalizationMatrixIFS.interface.F90, LocationsIFS.cc oopsifs/src/ifs/LocationsIFS.cc, LocationsIFS.h oopsifs/src/ifs/LocationsIFS.h, LocationsIFS.interface.F90 oopsifs/src/ifs/LocationsIFS.interface.F90, ModelBias.h oopsifs/src/ifs/ModelBias.h, ModelBiasCovariance.h oopsifs/src/ifs/ModelBiasCovariance.h, ModelBiasIncrement.h oopsifs/src/ifs/ModelBiasIncrement.h, ModelIFS.cc oopsifs/src/ifs/ModelIFS.cc, ModelIFS.h oopsifs/src/ifs/ModelIFS.h, ModelIFS.interface.F90 oopsifs/src/ifs/ModelIFS.interface.F90, ModelIFS.list.F90 oopsifs/src/ifs/ModelIFS.list.F90, ObsBias.cc oopsifs/src/ifs/ObsBias.cc, ObsBias.h oopsifs/src/ifs/ObsBias.h, ObsBiasCovariance.cc oopsifs/src/ifs/ObsBiasCovariance.cc, ObsBiasCovariance.h oopsifs/src/ifs/ObsBiasCovariance.h, ObsBiasIncrement.cc oopsifs/src/ifs/ObsBiasIncrement.cc, ObsBiasIncrement.h oopsifs/src/ifs/ObsBiasIncrement.h, ObsSpaceODB.cc oopsifs/src/ifs/ObsSpaceODB.cc, ObsSpaceODB.h oopsifs/src/ifs/ObsSpaceODB.h, ObsSpaceODB.interface.F90 oopsifs/src/ifs/ObsSpaceODB.interface.F90, ObsTraj.h oopsifs/src/ifs/ObsTraj.h, ObsVector.cc oopsifs/src/ifs/ObsVector.cc, ObsVector.h oopsifs/src/ifs/ObsVector.h, ObsVector.interface.F90 oopsifs/src/ifs/ObsVector.interface.F90, RunIFS.cc oopsifs/src/ifs/RunIFS.cc, RunIFS.h oopsifs/src/ifs/RunIFS.h, RunTestIFS.cc oopsifs/src/ifs/RunTestIFS.cc, RunTestIFS.h oopsifs/src/ifs/RunTestIFS.h, StateIFS.cc oopsifs/src/ifs/StateIFS.cc, StateIFS.h oopsifs/src/ifs/StateIFS.h, Trajectory.list.F90 oopsifs/src/ifs/Trajectory.list.F90, VariablesIFS.h oopsifs/src/ifs/VariablesIFS.h, VariablesIFS.interface.F90 oopsifs/src/ifs/VariablesIFS.interface.F90, ifs\_init\_wrapper.F90 oopsifs/src/ifs/ifs\_init\_wrapper.F90, instantiateObsErrorFactory.h oopsifs/src/ifs/instantiateObsErrorFactory.h, linkedList.F90 oopsifs/src/ifs/linkedList.F90, linkedList.intf.F90 oopsifs/src/ifs/linkedList.intf.F90, mpi\_wrapper.F90 oopsifs/src/ifs/mpi\_wrapper.F90, pm\_link\_mod.F90 oopsifs/src/ifs/pm\_link\_mod.F90, pm\_linked\_list\_mod.F90 oopsifs/src/ifs/pm\_linked\_list\_mod.F90

oops/ifs/test

CMakeLists.txt oopsifs/test/CMakeLists.txt, testinput/interfaces.json oopsifs/test/testinput/interfaces.json, testinput/test.xml oopsifs/test/testinput/test.xml

oops/ifs/test/testinput

interfaces.json oopsifs/test/testinput/interfaces.json, test.xml oopsifs/test/testinput/test.xml

**Added:**

oops/ifs/mains

RunIFS.h, ifsEnsemble.cc, ifsTest.cc

oops/ifs/model

AllObs.cc, AllObs.h, AllObs.interface.F90, AllObsCovariance.cc, AllObsCovariance.h, AllObsCovariance.interface.F90, AllObsTraj.h, AllObsTraj.interface.F90, CMakeLists.txt, ErrorCovariance3D.cc, ErrorCovariance3D.h, ErrorCovariance3D.interface.F90, ErrorCovariance3D.test.cc, FieldsIFS.cc, FieldsIFS.h, FieldsIFS.interface.F90, GeometryIFS.h, GeometryIFS.interface.F90, GomsIFS.h, GomsIFS.interface.F90, IfsFortran.h, IfsTraits.h, IncrementIFS.cc, IncrementIFS.h, LinearModelIFS.cc, LinearModelIFS.h, LocalizationMatrixIFS.cc, LocalizationMatrixIFS.h, LocalizationMatrixIFS.interface.F90, LocationsIFS.h, LocationsIFS.interface.F90, ModelBias.cc, ModelBias.h, ModelBiasCovariance.h, ModelBiasIncrement.cc, ModelBiasIncrement.h, ModelIFS.cc, ModelIFS.h, ModelIFS.interface.F90, ObsBias.cc, ObsBias.h, ObsBiasCovariance.cc, ObsBiasCovariance.h, ObsBiasIncrement.cc, ObsBiasIncrement.h, ObsVector.cc, ObsVector.h, ObsVector.interface.F90, StateIFS.cc, StateIFS.h, VariablesIFS.h, VariablesIFS.interface.F90, ifs\_init\_wrapper.F90, instantiateCovarFactory.h, instantiateObsErrorFactory.h, mpi\_wrapper.F90

oops/ifs/scripts

fieldstest.xml, ifs\_hofx.xml, test.xml

oopsifs

CMakeLists.txt, FindIFS.cmake, CMakeLists.txt, ifs4dvar.cc, ifsForecast.cc, ifsHofX.cc, ifsMakeObs.cc

oopsifs/cmake

FindIFS.cmake



oopsifs/mains

CMakeLists.txt, ifs4dvar.cc, ifsForecast.cc, ifsHofX.cc, ifsMakeObs.cc

**Modified:**

oops/ifs

CMakeLists.txt, FindIFS.cmake, CMakeLists.txt, ifs4dvar.cc, ifsForecast.cc, ifsHofX.cc, ifsMakeObs.cc

oops/ifs/cmake

FindIFS.cmake

oops/ifs/mains

CMakeLists.txt, ifs4dvar.cc, ifsForecast.cc, ifsHofX.cc, ifsMakeObs.cc

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## MARY Alexandre

### **Doc:**

- 1) Fixes in ALADIN assimilation.
- 2) Consistency w/ Ryad's modset.

**Projects:** aladin, arpifs

**Git branch:** mary\_CY43T2\_fixes\_assim

### **Modified:**

aladin/utility	create_pert.F90
aladin/var	ejghcor.F90, ejghcori.F90, suejbcor.F90, suejbcov.F90, suejbdat96.F90, suejbstd.F90
arpifs/oops	error_covariance_3d_mod.F90
arpifs/setup	su0yomb.F90
arpifs/var	apply_bal_tl.F90, bgpert.F90

### **Doc:**

- 1) ALADIN phasing, from Olda, Canberk, & Zied.
- 2) SPA3 removal.

**Projects:** aladin, arpifs, etrans, radiation, surf

**Git branch:** mary\_CY43T2\_phasers\_fixes

### **Modified:**

aladin/adiab	espectr.F90, espiau.F90
aladin/coupling	elswa3.F90, erlbc.F90
aladin/parallel	ecommspnorm.F90
aladin/setup	elsac.F90, sueinif.F90, sueqlimsat.F90, suetrans.F90
aladin/sinvect	echnorm.F90, ewrtsv.F90
aladin/transform	etrandir_nhconv.F90, etrandir_nhconvprhs.F90, etransinv_nhconv.F90, etransinv_nhconvprhs.F90
aladin/utility	create_pert.F90, espconvert.F90, euvcopy.F90, sp3to7.F90, sp7to3.F90
aladin/var	ecoptra.F90, ecosjr.F90, einflation_pert.F90, einflcalc.F90, evarjk.F90, evarjkad.F90, evarjkini.F90, ewreini.F90, suejbcov.F90, suejbstest.F90
arpifs/adiab	spnh_conv_nhvar.F90, spnh_conv_prhs.F90
arpifs/canari	canari.F90
arpifs/control	cnt3_lam.F90, cnt4.F90, cnt4ad.F90, cnt4tl.F90, forecast_error.F90, iopack.F90, stepo.F90, stepoad.F90, stepotl.F90
arpifs/dfi	dfi2.F90

arpifs/dia	spnorm.F90, wrspec.F90
arpifs/fullpos	spaconvert.F90
arpifs/module	iospeca_mod.F90
arpifs/phys_radi	suecrad.F90
arpifs/setup	su_grib_api.F90, sufpinif.F90, suauiunif.F90, suinif.F90, suspec.F90
arpifs/sinvect	nalan1.F90, opk.F90
arpifs/utility	rdspec.F90, sbsbgs.F90
arpifs/var	bgpert.F90, chavar.F90, cvar2.F90, rdfpinc.F90, subjtest.F90
etrans/external	esetup_trans.F90
etrans/interface	esetup_trans.h
radiation/module	radiation_setup.F90
surf/module	sussoil_mod.F90

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## SASSI Zied

### **Doc:**

Removal of SPA3 (No more USE YOMSP for SPA3 in called routines).

Contains following fixes from Ryad and Alex:

- Fix for ec\_cray\_meminfo.F90

- Fix for suvar.F90

- Fix for merge issues

NO NUMERICAL IMPACT IS EXPECTED.

**Projects:** aladin, arpifs, etrans, ifsaux

**Git branch:** sassi\_CY43T2\_cy43t2\_r3.03.sassi

### **Modified:**

aladin/coupling	erlbc.F90
aladin/setup	elsac.F90, sueinif.F90
arpifs/adiab	spnh_conv_nhvar.F90, spnh_conv_prhs.F90
arpifs/canari	can1.F90
arpifs/control	cnt2.F90, cnt3.F90, cnt3_femars.F90, cnt3_glo.F90, cnt3_lam.F90, cnt3_wait.F90, cnt4.F90, cprep3.F90, forecast_error.F90, iopack.F90, restart_cnt3.F90, testli.F90, testlievol.F90
arpifs/dfi	dfi2mod.F90
arpifs/dia	chkevo.F90, sunddh.F90, wrmlpp.F90, wrmlppa.F90, wrspeca.F90, wrspeca_gp.F90
arpifs/fp_serv	suinif_fp.F90
arpifs/module	erlbc_mod.F90, iospeca_mod.F90, iospecspa_mod.F90
arpifs/phys_radi	radintg.F90, radlswr.F90
arpifs/pp_obs	ppobsap.F90
arpifs/setup	su1yom.F90, sudcmip12_gu.F90, sufpinif.F90, sugpqlim.F90, sugridu.F90, sugridug2.F90, suauinif.F90, suinif.F90, supong.F90
arpifs/transform	transdir_nhconv.F90, transdir_nhconvprhs.F90, transinv_nhconv.F90, transinv_nhconvprhs.F90
arpifs/utility	dealmod.F90, dealspa.F90, swap73.F90
arpifs/var	inflation_pert.F90, jbtomodel.F90, jbtomodelad.F90, lchtcac.F90, rdfpinc.F90, suensmem.F90, subjvarens.F90, suvar.F90, varcalc.F90
etrans/module	suefft_mod.F90
ifsaux/fa	facodega.F90
ifsaux/utilities	ec_cray_meminfo.F90



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**TAILLEFER Francoise**

**Doc:**

*Do not call snow3lgrid in surfex in case of a 1-level snow scheme  
(cause prep crashes if call done, both for arpege and arome).*

*NO NUMERICAL IMPACT IS EXPECTED.*

**Projects:** surfex

**Git branch:** taillefer\_CY43T2\_db\_sfx\_snow3l

**Modified:**

surfex/SURFEX                      prep\_hor\_snow\_fields.F90, prep\_snow\_buffer.F90

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## WILHELMSSON Tomas & al

### **Doc:**

*Pre-cycle CY44 sent back by ECMWF, including merge with final cycle CY43R3.*

**Projects:** algor, arpifs, blacklist, ecftw, ifsaux, obstat, odb, radiation, satrad, trans

**Git branch:** gco\_CY43T2\_r3.05%ecmwf

### **Deleted:**

algor/external/minim	m1qn3_1dv.F
algor/internal/minim	m1qn3a_1dv.F, mlis0_1dv.F
arpifs/dia	wmovph.F90
arpifs/fullpos	cpgridf.F90
arpifs/module	gridpoint_buffers_mix.F90, paronedvar.F90, yemfpg.F90, yom_ptr_ssmi.F90, yom_ssmi.F90, yommpextra.F90, yomonedvar.F90, yomstre.F90, yomvnmb.F90, yomwm.F90
arpifs/namelist	namonedvar.nam.h
arpifs/obs_preproc	ccsetod.F90, setcom.F90, setcomod.F90
arpifs/onedvar	onedvar_adjoint_test.F90, onedvar_diagnostics.F90, onedvar_find_satsens.F90, onedvar_fstscrn.F90, onedvar_get_bgcor.F90, onedvar_get_bgsig.F90, onedvar_get_bias.F90, onedvar_lintest.F90, onedvar_obsop.F90, onedvar_obsop_gr.F90, onedvar_obsop_tl.F90, onedvar_passive_ok.F90, onedvar_raintb.F90, onedvar_raintb_hld.F90, onedvar_raintb_hlp.F90, onedvar_raintb_prb.F90, onedvar_raintb_prc.F90, onedvar_raintb_rcv.F90, onedvar_raintb_set.F90, onedvar_raintb_snd.F90, onedvar_read_sat_bias.F90, onedvar_read_sat_error.F90, onedvar_screen.F90, onedvar_setup.F90, onedvar_simul.F90
arpifs/op_obs	hvnmtlt.F90
arpifs/parallel	rdpxfa.F90
arpifs/phys_dmn	compute_neb.F90
arpifs/setup	sp2lnsp.F90, sumpextra.F90, supong.F90, susatret.F90, suspfp.F90, suvnmb.F90
arpifs/sinvect	chsymeig.F90, cun3.F90, jacdav.F90, nalan2.F90, opm.F90, pcgbfgs.F90
arpifs/utility	model2moderr.F90, sc2rdg.F90, sc2wrg.F90, spec2state.F90, wrgp2fa_remove_undef.F90
arpifs/var	gp_nearest.F90, gp_ptr_ssmi.F90, gp_ssmi.F90, gp_ssmi_gp2obs.F90, gp_ssmi_igp2obs.F90, gp_ssmi_inv.F90, gp_ssmi_iobs2gp.F90, gp_ssmi_obs2gp.F90
ifsaux/module	transmem_mod.F90
odb/ddl.CCMA	hrettr_canari_satbody.sql, obsmon_conv.sql, obsmon_conv2.sql, obsmon_sat.sql
odb/ddl.ECMA	hrettr_canari_satbody.sql, obsmon_conv.sql, obsmon_conv2.sql, obsmon_sat.sql
odb/ddl.ERACOUNTRYTTABLE11	table11_hdr.sql
odb/ddl.ERACOUNTRYTTABLE12	table12_hdr.sql

odb/ddl.PSBIAS	psbias_compress_method_0.sql, psbias_compress_method_1a.sql, psbias_compress_method_1b.sql, psbiasbody.sql, psbiasbody_maintenance.sql, psbiashdr.sql, psbiashdr_maintenance.sql
odb/ddl.SONDETYPES	sondehdr.sql
odb/ddl	hretr_canari_satbody.sql, obsmon_conv.sql, obsmon_conv2.sql, obsmon_sat.sql, psbias_compress_method_0.sql, psbias_compress_method_1a.sql, psbias_compress_method_1b.sql, psbiasbody.sql, psbiasbody_maintenance.sql, psbiashdr.sql, psbiashdr_maintenance.sql, sondehdr.sql, table11_hdr.sql, table12_hdr.sql
satrad/interface	onedvar_set_rtindex.h
satrad/module	onedvar_const.F90, onedvar_variables.F90
satrad/onedvar	onedvar_get_file_name.F90, onedvar_get_rtcoeff.F90, onedvar_obsop_grad_rttov.F90, onedvar_obsop_rttov.F90, onedvar_obsop_tl_rttov.F90, onedvar_rain_coeffs.F90
<b>Renamed:</b>	
blacklist/include	defs.h to blacklist/include/bldefs.h
ifsaux/module	ddh_mix.F90 to arpifs/module/ddh_mix.F90
<b>Added:</b>	
arpifs/adiab	cttotvad.F90, cttotvtl.F90
arpifs/dia	wmovph.F90
arpifs/fullpos	cpgridf.F90
arpifs/module	datetime_tmp_mod.F90, field_class.F90, field_container_base_mod.F90, field_container_gp_mod.F90, field_container_sp_mod.F90, field_definitions.F90, field_definitions_base.F90, field_gfl_wrapper.F90, fields_base_mod.F90, gridpoint_buffers_mix.F90, raddrv_definitions.F90, traj_global_mod.F90, traj_main_mod_oops.F90, traj_semilag_mod_oops.F90, traj_surface_mod_oops.F90, trajectory_mod_oops.F90, yemfpg.F90, yomdynlst.F90, yommpextra.F90, yomtraj_oops.F90, yomwm.F90
arpifs/oops	cpg_drv_ad_oops.F90, cpg_drv_oops.F90, cpg_drv_tl_oops.F90, cpglag_oops.F90, ec_phys_drv_oops.F90, fields_write.F90, gp_model_ad_oops.F90, gp_model_heap_oops.F90, gp_model_oops.F90, gp_model_tl_oops.F90, traj_global_mod.F90, traj_main_mod_oops.F90, traj_semilag_mod_oops.F90, traj_surface_mod_oops.F90, trajectory_mod_oops.F90, yomtraj_oops.F90, scan2m_oops.F90, scan2mad_oops.F90, scan2mtl_oops.F90, stepoad_oops.F90, stepotl_oops.F90, transdir_mdl_from_t0.F90, transdir_mdl_from_t0_ad.F90, transdirh_from_t0.F90, transdirh_from_t0_ad.F90
arpifs/oops/module	traj_global_mod.F90, traj_main_mod_oops.F90, traj_semilag_mod_oops.F90, traj_surface_mod_oops.F90, trajectory_mod_oops.F90, yomtraj_oops.F90
arpifs/parallel	rdpxfa.F90
arpifs/phys_dmn	compute_neb.F90
arpifs/setup	sp2lnsp.F90, sumpextra.F90, suspsp.F90
arpifs/transform	transinv_fields.F90, transinvad_fields.F90
arpifs/utility	sc2rdg.F90, sc2wrg.F90, wrgp2fa_remove_undef.F90
odb/ddl.CCMA	hretr_canari_satbody.sql
odb/ddl.ECMA	hretr_canari_satbody.sql



odb/ddl	hretr_canari_satbody.sql
odb/interface	shuffle.h
odb/module	b2o_thinning_heap.F90, b2o_thinning_heap_node.F90
<b>Modified:</b>	
algor/external/fourier	fft992_cc.F90
algor/module	bluestein_mod.F90, butterfly_alg_mod.F90, interpol_decomp_mod.F90
arpifs/adiab	call_sl_ad.F90, call_sl_tl.F90, cpeuldynl.F90, cpglag.F90, cpglagad.F90, cpglagtl.F90, ctvtotl.F90, gp_derivatives.F90, postphy.F90, spectr.F90, spnh_conv_nhvar.F90, spnh_conv_prhs.F90
arpifs/canari	can1.F90, canari.F90
arpifs/control	cdsta.F90, cgr1.F90, cnt0.F90, cnt2.F90, cnt3.F90, cnt3_femars.F90, cnt3_glo.F90, cnt3_lam.F90, cnt3ad.F90, cnt3tl.F90, cnt4.F90, cnt4ad.F90, cnt4tl.F90, csta.F90, cva1.F90, cva2.F90, forecast_error.F90, gp_model.F90, iopack.F90, sim4d.F90, spcm.F90, spcmad.F90, stepo.F90, stepo_oops.F90, stepoad.F90, tesadj.F90, testli.F90, testlievol.F90
arpifs/dfi	dfi2.F90, dfi2mod.F90, dfi3.F90
arpifs/dia	chkevo.F90, spmcuf.F90, wrmlpp.F90, wrmlppa.F90, wrmlppa_io_serv.F90, wrmlppg.F90, wrspeca.F90, wrspeca_gp.F90, wrspeca_map.F90
arpifs/fullpos	predynfpos.F90, prespfpos.F90, spaconvert.F90
arpifs/interpol	slcset.F90
arpifs/io_serv	io_poll, io_serv_suiosctmpl.F90
arpifs/module	fdb_utils_mod.F90, fields_mod.F90, geometry_setup_mod.F90, gfl_subs_mod.F90, gmv_subs_mod.F90, gom_plus.F90, iospeca_mod.F90, model_mod.F90, parcmma.F90, pardimo.F90, spectral_fields_para_mod.F90, supergom_class.F90, surface_fields_mix.F90, traj_main_mod.F90, type_gmvs.F90, varbc_airep.F90, varbc_class.F90, varbc_to3.F90, variables_mod.F90, yom_ygfl.F90, yomcma.F90, yomct0.F90, yomectab.F90, yomgfl.F90, yomgmvs.F90, yomjg.F90, yomlcz.F90, yomlvly.F90, yomnmcod.F90, yomsp.F90, yomtraj.F90
arpifs/namelist	namct0.nam.h, namlcz.nam.h
arpifs/obs_error	pererev.F90
arpifs/obs_preproc	ascatin.F90, errstat.F90, ersin.F90, fgchk.F90, first.F90, kscatin.F90, mkcmarpl.F90, obscor_lanczos.F90, oscatin.F90, pertobs_satob_corr.F90, pre_prsta.F90, qscatin.F90, reo3sin.F90, satamin.F90, satobin.F90, sulevlay.F90, suobs.F90, suobsb.F90, suobscor.F90, updobs.F90
arpifs/oops	allobs_oper_mod.F90, error_covariance_3d_mod.F90, fields_interp_mod.F90, fields_io_mod.F90, ifs_init.F90, localization_mod.F90, locations_mod.F90, obs_space_mod.F90, obsvec_mod.F90
arpifs/op_obs	cobsall.F90, cobsallad.F90, cobsalltl.F90, exchco.F90, hinth.F90, hjo.F90, hop.F90, hqscatt.F90, hretr_rad.F90, map_varno_to_nvar.F90, mw_clearsky_screen_ecdecis.F90, obsop_composition.F90, obsop_conv.F90, obsv.F90, obsvtl.F90
arpifs/parallel	read_spec_fromfa.F90, trmtos.F90, trstom.F90
arpifs/phys_ec	callpar.F90, cldpp.F90, cloudsc.F90, culight.F90, ec_phys.F90, ec_phys_drv.F90, local_arrays_ini.F90, phys_arrays_ini.F90, qnegat.F90, su_aer_climatology.F90, vdfouter.F90, wvcouple.F90
arpifs/phys_radi	radiation_scheme.F90, radintg.F90, suecrad.F90

arpifs/programs	master.F90
arpifs/setup	su0yomb.F90, su1yom.F90, su_surf_flds.F90, suatlas_mesh.F90, sucodes.F90, suct0.F90, sufpinif.F90, sugfl2.F90, sugpqlim.F90, suiauinif.F90, suinif.F90, susc2c.F90, suspec.F90, suspeca.F90, suspeca_gp.F90, suspeca_map_part1.F90, suspeca_map_part2.F90, suspsdt.F90
arpifs/sinvect	balanced_reduction.F90, chnorm.F90, cun1.F90, cun2.F90, eof_matrix.F90, lcnorad.F90, lcnortl.F90, nalan1.F90, opk.F90, suforce.F90, sulcz.F90, wrtsv.F90
arpifs/transform	transdir_nhconv.F90, transdir_nhconvprhs.F90, transinv_nhconv.F90, transinv_nhconvprhs.F90
arpifs/utility	addbgs.F90, gpnorm_gfl.F90, gpnorm_gmv.F90, gstats_label_ifs.F90, sbsfsgs.F90
arpifs/var	adtest.F90, bgevecs.F90, bgvecs.F90, cain.F90, cainad.F90, cainin.F90, caininad.F90, chavar.F90, chavarad.F90, chavarin.F90, chavarinad.F90, chkobtim.F90, congrad.F90, cosens.F90, cosjc.F90, cosjl.F90, cosjr.F90, costra.F90, cvar2in.F90, cvar2inad.F90, cvar3in.F90, cvar3inad.F90, inflation_pert.F90, jbtomodel.F90, jbtomodelad.F90, rd801.F90, rdfpinc.F90, suecges.F90, suensmem.F90, subj.F90, subjtest.F90, subjwavgen.F90, subjwavgen_hybraw.F90, supert.F90, suscal.F90, suscal_jb.F90, susepfce.F90, suvar.F90, suvazx.F90, tprop.F90, upspec.F90, xformev.F90
blacklist/compiler	bl95.c, compile.c, eval.c, funcs.c, generate.c, lex.l, longjmp.c, tree.c, yacc.y
blacklist/include	fail.h
ecftw/module	tpm_fftw.F90
ifsaux/include	privpub.h
ifsaux/module	sharedmem_mod.F90, transmem_mod.F90
ifsaux/programs	test_bytes_io.F90
ifsaux/utilities	ec_cray_meminfo.F90
obstat/src	writegridstats.F90
odb/bufr2odb	b2o_convert_asr.F90, b2o_convert_gmi.F90, b2o_convert_radio_lat_long.F90
odb/build	build_odb.functions, export_source_code
odb/cma2odb	obsproc_init.F90, setcomcm.F90
odb/dcl	PRESCREEN.dcl, getairepid.sql
odb/include	privpub.h
odb/module	b2o_thinning.F90
odb/pandor/extrtovs	extr_lecdata_1c.F90
odb/pandor/fcq	fcqodb_init.F90, fcqodb_pilot.F90, fcqodb_pilotverif.F90, fcqodb_solomm.F90, fcqodb_solverif.F90, fcqodb_synop.F90, fcqodb_temp.F90, fcqodb_tempverif.F90
odb/pandor/module	bator_ecritures_mod.F90, bator_init_mod.F90, bator_lectures_mod.F90, bator_saisies_mod.F90
odb/scripts	make_tarball, make_tarball.small
odb/tools	Odbtools.F90
radiation/module	radiation_cloud_cover.F90, radiation_config.F90
satrad/programs	screen_1c.F90

trans/external	gpnorm_trans.F90
trans/interface	sugawc.h
trans/module	ftinv_mod.F90, pre_suleg_mod.F90, suleg_mod.F90

**Doc:**

- 1) Fixes from ECMWF, upon CY43T2\_r3.06 .
- 2) Updates for OOPS.
- 3) Move modules from "arpifs/oops/module" to "arpifs/module" .

**Projects:** arpifs, odb, oops

**Git branch:** gco\_CY43T2\_r3.06%ecmwf\_fixes

**Deleted:**

oops/ifs/mains	RunIFS.h
oops/ifs/model	AllObs.cc, AllObs.h, AllObs.interface.F90, AllObsTraj.h, AllObsTraj.interface.F90, ErrorCovariance3D.cc, ErrorCovariance3D.h, ErrorCovariance3D.interface.F90, ErrorCovariance3D.test.cc, FieldsIFS.interface.F90, GomsIFS.h, GomsIFS.interface.F90, IfsFortran.h, IfsTraits.h, IncrementIFS.h, LinearModelIFS.cc, LinearModelIFS.h, LocationsIFS.h, LocationsIFS.interface.F90, ModelBiasCovariance.h, ModelBiasIncrement.h, ModelIFS.cc, ModelIFS.h, ModelIFS.interface.F90, ObsBias.h, ObsBiasCovariance.cc, ObsBiasCovariance.h, ObsBiasIncrement.h, StateIFS.cc, StateIFS.h, VariablesIFS.h, VariablesIFS.interface.F90, instantiateCovarFactory.h, instantiateObsErrorFactory.h, mpi_wrapper.F90
oops/ifs/scripts	fieldstest.xml, ifs_hofx.xml

**Renamed:**

arpifs/oops/module	traj_global_mod.F90 arpifs/module/traj_global_mod.F90, traj_main_mod_oops.F90 arpifs/module/traj_main_mod_oops.F90, traj_semilag_mod_oops.F90 arpifs/module/traj_semilag_mod_oops.F90, traj_surface_mod_oops.F90 arpifs/module/traj_surface_mod_oops.F90, trajectory_mod_oops.F90 arpifs/module/trajectory_mod_oops.F90, yomtraj_oops.F90 arpifs/module/yomtraj_oops.F90
oops/ifs/mains	ifsEnsemble.cc oops/ifs/mains/TestLocalization.cc, ifsTest.cc oops/ifs/mains/TestGeometry.cc
oops/ifs/model	AllObsCovariance.cc oops/ifs/src/ifs/AllObsCovariance.cc, AllObsCovariance.h oops/ifs/src/ifs/AllObsCovariance.h, AllObsCovariance.interface.F90 oops/ifs/src/ifs/AllObsCovariance.interface.F90, CMakeLists.txt oops/ifs/src/ifs/CMakeLists.txt, FieldsIFS.cc oops/ifs/src/ifs/FieldsIFS.cc, FieldsIFS.h oops/ifs/src/ifs/FieldsIFS.h, GeometryIFS.h oops/ifs/src/ifs/GeometryIFS.h, GeometryIFS.interface.F90 oops/ifs/src/ifs/GeometryIFS.interface.F90, IncrementIFS.cc oops/ifs/src/ifs/IncrementIFS.cc, LocalizationMatrixIFS.cc oops/ifs/src/ifs/LocalizationMatrixIFS.cc, LocalizationMatrixIFS.h oops/ifs/src/ifs/LocalizationMatrixIFS.h, LocalizationMatrixIFS.interface.F90 oops/ifs/src/ifs/LocalizationMatrixIFS.interface.F90, ModelBias.cc oops/ifs/mains/TestLocations.cc, ModelBias.h oops/ifs/src/ifs/ModelBias.h, ModelBiasIncrement.cc oops/ifs/mains/TestVariables.cc, ObsBias.cc oops/ifs/src/ifs/ObsBias.cc, ObsBiasIncrement.cc oops/ifs/src/ifs/ObsBiasIncrement.cc, ObsVector.cc oops/ifs/src/ifs/ObsVector.cc, ObsVector.h oops/ifs/src/ifs/ObsVector.h, ObsVector.interface.F90 oops/ifs/src/ifs/ObsVector.interface.F90, ifs_init_wrapper.F90 oops/ifs/src/ifs/ifs_init_wrapper.F90
oops/ifs/scripts	test.xml oops/ifs/test/testinput/test.xml

**Added:**

odb/ddl.ERACOUNTRYTTABLE11 table11\_hdr.sql  
odb/ddl.ERACOUNTRYTTABLE12 table12\_hdr.sql  
odb/ddl.PSBIAS psbias\_compress\_method\_0.sql, psbias\_compress\_method\_1a.sql, psbias\_compress\_method\_1b.sql, psbiasbody.sql, psbiasbody\_maintenance.sql, psbiashdr.sql, psbiashdr\_maintenance.sql  
odb/ddl.SONDETYPES sondehdr.sql  
odb/ddl psbias\_compress\_method\_0.sql, psbias\_compress\_method\_1a.sql, psbias\_compress\_method\_1b.sql, psbiasbody.sql, psbiasbody\_maintenance.sql, psbiashdr.sql, psbiashdr\_maintenance.sql, sondehdr.sql, table11\_hdr.sql, table12\_hdr.sql  
oops/ifs/mains TestErrorCovariance.cc, TestIncrement.cc, TestLinearModel.cc, TestModel.cc, TestModelAuxControl.cc, TestModelAuxCovariance.cc, TestModelAuxIncrement.cc, TestModelIncrement.cc, TestObsAuxControl.cc, TestObsAuxCovariance.cc, TestObsAuxIncrement.cc, TestObsErrorCovariance.cc, TestObsVector.cc, TestObservationSpace.cc, TestState.cc, TestSuiteOpObs.cc  
oops/ifs/src CMakeLists.txt, AllObs.cc, AllObs.h, AllObs.interface.F90, AllObsTLAD.cc, AllObsTLAD.h, AllObsTLAD.interface.F90, ErrorCovariance3D.cc, ErrorCovariance3D.h, ErrorCovariance3D.interface.F90, FieldsIFS.interface.F90, GomData.cc, GomData.h, GomData.interface.F90, GomsIFS.h, IfsFortran.h, IfsTraits.h, IncrementIFS.h, LinearModelIFS.cc, LinearModelIFS.h, LinearModelIFS.interface.F90, LocationsIFS.cc, LocationsIFS.h, LocationsIFS.interface.F90, ModelBiasCovariance.h, ModelBiasIncrement.h, ModelIFS.cc, ModelIFS.h, ModelIFS.interface.F90, ModelIFS.list.F90, ObsBias.h, ObsBiasCovariance.cc, ObsBiasCovariance.h, ObsBiasIncrement.h, ObsSpaceODB.cc, ObsSpaceODB.h, ObsSpaceODB.interface.F90, ObsTraj.h, RunIFS.cc, RunIFS.h, RunTestIFS.cc, RunTestIFS.h, StateIFS.cc, StateIFS.h, Trajectory.list.F90, VariablesIFS.h, VariablesIFS.interface.F90, instantiateObsErrorFactory.h, linkedList.F90, linkedList.intf.F90, mpi\_wrapper.F90, pm\_link\_mod.F90, pm\_linked\_list\_mod.F90  
oops/ifs/src/ifs AllObs.cc, AllObs.h, AllObs.interface.F90, AllObsTLAD.cc, AllObsTLAD.h, AllObsTLAD.interface.F90, ErrorCovariance3D.cc, ErrorCovariance3D.h, ErrorCovariance3D.interface.F90, FieldsIFS.interface.F90, GomData.cc, GomData.h, GomData.interface.F90, GomsIFS.h, IfsFortran.h, IfsTraits.h, IncrementIFS.h, LinearModelIFS.cc, LinearModelIFS.h, LinearModelIFS.interface.F90, LocationsIFS.cc, LocationsIFS.h, LocationsIFS.interface.F90, ModelBiasCovariance.h, ModelBiasIncrement.h, ModelIFS.cc, ModelIFS.h, ModelIFS.interface.F90, ModelIFS.list.F90, ObsBias.h, ObsBiasCovariance.cc, ObsBiasCovariance.h, ObsBiasIncrement.h, ObsSpaceODB.cc, ObsSpaceODB.h, ObsSpaceODB.interface.F90, ObsTraj.h, RunIFS.cc, RunIFS.h, RunTestIFS.cc, RunTestIFS.h, StateIFS.cc, StateIFS.h, Trajectory.list.F90, VariablesIFS.h, VariablesIFS.interface.F90, instantiateObsErrorFactory.h, linkedList.F90, linkedList.intf.F90, mpi\_wrapper.F90, pm\_link\_mod.F90, pm\_linked\_list\_mod.F90  
oops/ifs/test CMakeLists.txt, interfaces.json  
oops/ifs/test/testinput interfaces.json

**Modified:**

arpifs/control cnt3\_lam.F90  
arpifs/dia extfpnorm.F90, fpgpnorm.F90  
arpifs/io\_serv io\_serv\_get\_req.F90  
arpifs/module traj\_main\_mod.F90, yomspjb.F90, yomtraj.F90  
arpifs/oops allobs\_oper\_mod.F90, obsvec\_mod.F90

arpifs/phys_ec	diag_clouds.F90, vdfhghtn.F90, wvxf2gb.F90
arpifs/var	preppcm.F90
oops/ifs	CMakeLists.txt, FindIFS.cmake, CMakeLists.txt, ifs4dvar.cc, ifsForecast.cc, ifsHofX.cc, ifsMakeObs.cc
oops/ifs/cmake	FindIFS.cmake
oops/ifs/mains	CMakeLists.txt, ifs4dvar.cc, ifsForecast.cc, ifsHofX.cc, ifsMakeObs.cc

**Doc:**

*Implementation of CAPE-SHEAR, defined by CAPE multiplied by wind shear between pressure levels 500 and 925 hPa.*

**Projects:** arpifs

**Git branch:** gco\_CY43T2\_r3.08%ecmwf\_capeshear

**Added:**

arpifs/dia	capeshear.F90
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**Modified:**

arpifs/adiab	cpedia.F90, cpg_dia.F90, postphy.F90
arpifs/dia	cpcuddh.F90, cpcuddh_omp.F90, cpdyddhlag.F90
arpifs/fullpos	sufp_ctl.F90, vpos.F90
arpifs/phys_ec	postphy_layer.F90
arpifs/pp_obs	pos.F90

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## YESSAD Karim

### **Doc:**

*Modifications:*

\* *MITRAILLETTE* updates; in particular, creation of directory *namelist\_ref* (reference cycle)

\* *Pruning of 4 obsolete options:*

- *old sponge*

- *LRNHC1*

- *LRETCFOU/LWRTCFOU*

- *GEOGW NH model*

\* *Bugfix on sudefo\_gflattr.F90*

*Side effects on namelists:*

- *element NAMPONG disappears*

- *removed variables in NAMCT0: LRETCFOU, LWRTCFOU, LRFOUTCNORM, LRGPTCNORM*

- *removed variables in NAMDIM: NTCMAX*

- *removed variables in NAMDYNA: LGWOPT1*

- *removed variables in NAMCVER: LRNHC1, LVFE\_DBCS, LVFE\_DBCT*

*NO NUMERICAL IMPACT IS EXPECTED.*

**Projects:** aladin, arpifs, mitraille

**Git branch:** yessad\_CY43T2\_r3V03cor

### **Added:**

mitraille/namelist\_ref

aainfo, namg\_4hex, namg\_4hey, namg\_4hlx, namg\_4hly, namg\_4hlz, namg\_5hex, namg\_5hey, namg\_5hlx, namg\_5hly, namg\_5hlz, namg\_6hex, namg\_6hex\_adiab, namg\_6hlx, namg\_6hlx\_adiab, namg\_ahex, namg\_ahex, namg\_ahla, namg\_ahlh, namg\_ahsa, namg\_ahsh, namg\_aneq, namg\_anly, namg\_ansy, namg\_c901, namg\_c923\_lin, namg\_c923\_quad, namg\_dila, namg\_dila\_highres, namg\_fila, namg\_filb, namg\_fpfa, namg\_fpfb, namg\_fpga, namg\_fpla, namg\_fplb, namg\_fpmc, namg\_fpsa, namg\_fpsu\_fc, namg\_fpsu\_fp, namg\_fpsu\_fp\_l03, namg\_fpsu\_fp\_l15, namg\_fpsv\_addnhvar, namg\_fpsv\_addnhvar\_l15, namg\_fpsv\_gpq, namg\_fpsv\_gpq\_l15, namg\_mheh, namg\_mhlh, namg\_mhli, namg\_mhlj, namg\_mhll, namg\_mhsh, namg\_mney, namg\_mnly, namg\_mnsy, naml\_aa1t\_e001\_lacealoro, naml\_aa1t\_e001\_lacealoro\_mix, naml\_aa1t\_e001\_lacealoro\_old, naml\_ac1t\_e001\_sl2, naml\_ac1u\_e001\_nh\_sl2, naml\_ag1t\_e001\_fr\_oper, naml\_agit\_e001\_idfi, naml\_ah1e\_e001\_eul, naml\_ah1s\_e001\_sl3, naml\_ah1s\_e001\_sl3\_slhd, naml\_ah1t\_e001\_sl2, naml\_ah1t\_e001\_sl2\_slhd, naml\_ah2s\_e001\_2dm\_sl3, naml\_ah2t\_e001\_2dm\_sl2, naml\_ah4e\_e401\_eul, naml\_ah4t\_e401\_sl2, naml\_ah5e\_e501\_eul, naml\_ah5t\_e501\_sl2, naml\_ah6e\_e601\_eul\_physb, naml\_ah6t\_e601\_sl2\_physb, naml\_ah9e\_e927\_fp\_aru, naml\_ah9e\_e927\_fp\_cou, naml\_ah9e\_ee927\_fp\_arunes, naml\_ahfe\_e001\_fp\_ope2, naml\_ahfe\_e001\_fp\_opex, naml\_ahfe\_e001\_inl\_fp, naml\_ahfe\_e903\_fp\_gri1, naml\_ahfe\_e903\_fp\_gri2, naml\_ahfe\_e903\_fp\_lal, naml\_ahfe\_e903\_fp\_lam1, naml\_ahfe\_e903\_fp\_lam2, naml\_ahfe\_e903\_fp\_mod, naml\_ahme\_e001\_fp\_lamars, naml\_ahut\_e001\_sl2,

naml\_ai1t\_e001\_hl, naml\_an1e\_e001\_nhsad\_d4\_eul, naml\_an1s\_e001\_nhsad\_d4\_sl3, naml\_an1t\_e001\_nhsad\_d4\_sl2,  
naml\_an2s\_e001\_nh2dm\_d4\_sl3, naml\_an2t\_e001\_nh2dm\_d4\_sl2, naml\_ar1t\_e001\_hyd, naml\_ar1t\_e001\_hydmad, naml\_ar1t\_e001\_pcc,  
naml\_ar1t\_e001\_pccmad, naml\_ar1t\_e001\_pccmad\_adiab, naml\_ar1t\_e001\_pccmadios, naml\_ar1t\_e001\_pcf, naml\_arut\_e001\_sl2,  
naml\_axcx\_e923\_lalon\_franx01, naml\_axcx\_e923\_leram\_france\_lin, naml\_axcx\_e923\_leram\_france\_quad,  
naml\_axcx\_e923\_leram\_lace\_quad, naml\_axcx\_e923\_leram\_reunion\_lin, naml\_axcx\_e923\_leram\_reunion\_quad, sel\_0, sel\_3, sel\_6,  
sel\_ag1t\_exseg1, sel\_ahfe\_exseg1, sel\_ahme\_lamars, sel\_ar1t\_0, sel\_ar1t\_3, sel\_ar1t\_exseg1, sel\_arut\_exseg1,  
sel\_axsy\_makepgd\_fa\_arome\_frangp, vide, vide\_sel\_exseg1, vide\_sel\_fpos, vide\_sel\_lamars, vide\_sel\_makepgd, vv\_adiab\_physics,  
vv\_complete\_physics, vv\_complete\_physics\_arome, vv\_ddh, vv\_simplified\_physics, vv\_simplified\_physics\_4, vv\_simplified\_physics\_5,  
vv\_simplified\_physics\_6

**Modified:**

aladin/adiab espnhsi.F90, espnhsi\_geogw.F90, gpspng.F90  
aladin/control espcm.F90  
aladin/coupling eseimpls.F90, eseimplsad.F90  
aladin/setup suegem1a.F90, suegem1b.F90, sueheg.F90, suemp.F90  
aladin/transform etransinv\_nhconv.F90  
arpifs/adiab cpeuldyn.F90, cpg.F90, cpg\_drv.F90, cpg\_gp.F90, cpg\_gp\_ad.F90, cpg\_gp\_tl.F90, cpg\_gpb\_nhgeogw.F90, cpgad.F90, cpgtl.F90,  
cppfttcdir.F90, cppfttcinv.F90, gnh\_conv\_nhvar\_geogw.F90, gnh\_conv\_prhs.F90, gnh\_tndlagadiab\_gw.F90, gnh\_tndlagadiab\_spd.F90,  
gnhgrpre.F90, gnhgw2svd.F90, gnhpri.F90, gnhprih.F90, gnhsvd2gw.F90, gp\_tndlagadiab\_uv\_geogw.F90, gpgw.F90, gphpre.F90,  
gphpread.F90, gphpretl.F90, laccdyn.F90, lanhsi\_geogw.F90, lapineb.F90, larcinb.F90, lattes.F90, lattesad.F90, lattestl.F90, lattex.F90,  
lavabo.F90, lavabotl.F90, sigam.F90, siseve.F90, sitnu.F90, sivderi.F90, spnh\_conv\_nhvar.F90, spnhsi.F90, spnhsi\_geogw.F90  
arpifs/control cnt3\_lam.F90, cnt4.F90, gp\_model.F90, iopack.F90, spcm.F90  
arpifs/dia foutcnorm.F90, gptcnorm.F90, spnorm.F90, wrtcfou.F90  
arpifs/module gmv\_subs\_mod.F90, module\_radtc\_mix.F90, ptrgppc.F90, yomct0.F90, yomcver.F90, yomdim.F90, yomdyna.F90, yomffttc.F90,  
yomgem.F90, yomlun.F90, yompong.F90, yomtag.F90  
arpifs/namelist namct0.nam.h, namdim.nam.h, namdyna.nam.h, nampong.nam.h  
arpifs/parallel disfou.F90, diwrffou.F90  
arpifs/phys\_dmn aplpar.F90, mf\_phys.F90, mf\_physad.F90, mf\_phystl.F90  
arpifs/pp\_obs pos.F90  
arpifs/setup su0phy.F90, su0yomb.F90, sualfoutc.F90, suct0.F90, sudefo\_gflattr.F90, sudim.F90, sudyn.F90, sudyna.F90, sugem1a.F90, sugem1b.F90,  
suheg.F90, sulun.F90, sump.F90, sump0.F90, sunhbmhmat.F90, sunhbmhmat\_geogw.F90, sunhsi.F90, supong.F90, suptrgppc.F90, surcof.F90,  
surcoftc.F90, susc2b.F90, suslb.F90, suspe0.F90, suspec.F90, suspectcfou.F90  
arpifs/transform transinv\_nhconv.F90  
arpifs/utility dealtc.F90  
mitraille/doc history\_difnam  
mitraille/namelist aainfo, namg\_4hex, namg\_4hey, namg\_4hlx, namg\_4hly, namg\_4hlz, namg\_5hex, namg\_5hey, namg\_5hlx, namg\_5hly, namg\_5hlz,  
namg\_6hex, namg\_6hex\_adiab, namg\_6hlx, namg\_6hlx\_adiab, namg\_ahaa, namg\_ahaa, namg\_ahla, namg\_ahlh, namg\_ahsa, namg\_ahsh,

namg\_aneq, namg\_anly, namg\_ansy, namg\_c901, namg\_c923\_lin, namg\_c923\_quad, namg\_fila, namg\_filb, namg\_fpfa, namg\_fpfb, namg\_fpga, namg\_fpla, namg\_fplb, namg\_fplb, namg\_fpmc, namg\_fpsa, namg\_fpsu\_fc, namg\_fpsu\_fp, namg\_fpsu\_fp\_l03, namg\_fpsu\_fp\_l15, namg\_fpsv\_addnhvar, namg\_fpsv\_addnhvar\_l15, namg\_fpsv\_gpq, namg\_fpsv\_gpq\_l15, namg\_mheh, namg\_mhllh, namg\_mhli, namg\_mhlj, namg\_mhllk, namg\_mhsh, namg\_mney, namg\_mnly, namg\_mnsy, naml\_aa1t\_e001\_lacealoro, naml\_aa1t\_e001\_lacealoro\_mix, naml\_aa1t\_e001\_lacealoro\_old, naml\_ac1t\_e001\_sl2, naml\_ac1u\_e001\_nh\_sl2, naml\_ag1t\_e001\_fr\_oper, naml\_agit\_e001\_idfi, naml\_ah1e\_e001\_eul, naml\_ah1s\_e001\_sl3, naml\_ah1s\_e001\_sl3\_slhd, naml\_ah1t\_e001\_sl2, naml\_ah1t\_e001\_sl2\_slhd, naml\_ah2s\_e001\_2dm\_sl3, naml\_ah2t\_e001\_2dm\_sl2, naml\_ah4e\_e401\_eul, naml\_ah4t\_e401\_sl2, naml\_ah5e\_e501\_eul, naml\_ah5t\_e501\_sl2, naml\_ah6e\_e601\_eul\_physb, naml\_ah6t\_e601\_sl2\_physb, naml\_ah9e\_e927\_fp\_aru, naml\_ah9e\_e927\_fp\_cou, naml\_ah9e\_ee927\_fp\_arunes, naml\_ahfe\_e001\_fp\_ope2, naml\_ahfe\_e001\_fp\_opex, naml\_ahfe\_e001\_inl\_fp, naml\_ahfe\_e903\_fp\_gri1, naml\_ahfe\_e903\_fp\_gri2, naml\_ahfe\_e903\_fp\_lal, naml\_ahfe\_e903\_fp\_lam1, naml\_ahfe\_e903\_fp\_lam2, naml\_ahfe\_e903\_fp\_mod, naml\_ahme\_e001\_fp\_lamars, naml\_ahut\_e001\_sl2, naml\_ai1t\_e001\_hl, naml\_an1e\_e001\_nhsad\_d4\_eul, naml\_an1s\_e001\_nhsad\_d4\_sl3, naml\_an1t\_e001\_nhsad\_d4\_sl2, naml\_an2s\_e001\_nh2dm\_d4\_sl3, naml\_an2t\_e001\_nh2dm\_d4\_sl2, naml\_ar1t\_e001\_hyd, naml\_ar1t\_e001\_hydmad, naml\_ar1t\_e001\_pcc, naml\_ar1t\_e001\_pccmad, naml\_ar1t\_e001\_pccmad\_adiab, naml\_ar1t\_e001\_pccmadios, naml\_ar1t\_e001\_pcf, naml\_arut\_e001\_sl2, naml\_axcx\_e923\_lalon\_franx01, naml\_axcx\_e923\_lalam\_france\_lin, naml\_axcx\_e923\_lalam\_france\_quad, naml\_axcx\_e923\_lalam\_lace\_quad, naml\_axcx\_e923\_lalam\_reunion\_lin, naml\_axcx\_e923\_lalam\_reunion\_quad, vide

mitraille/pro\_file

PRO\_FILE.currentcycle\_aldmonoref, PRO\_FILE.currentcycle\_aldmultiref, PRO\_FILE.currentcycle\_arpmmonoref, PRO\_FILE.currentcycle\_arpmultiref

mitraille/protojobs/beaufix

memtable, monoheader, multiheader, timetable

**Doc:**

*Update and fix comments in YOMAFN*

*- Add precisions for ambiguous comments*

*- Fix wrong comments*

*- Add missing comments*

*Fix bug in SUVAR*

*NO NUMERICAL IMPACT IS EXPECTED.*

**Projects:** arpifs

**Git branch:** yessad\_CY43T2\_r3V03cor2

**Modified:**

arpifs/module yomafn.F90

arpifs/var suvar.F90

**Doc:**

*Bugfix: put call to SUALMP1 before ASSOCIATE statement.*



*NO NUMERICAL IMPACT IS EXPECTED.*

**Projects:** aladin, arpifs

**Git branch:** yessad\_CY43T2\_r3V04cor

**Modified:**

aladin/setup suemp.F90

arpifs/setup sump.F90

**Doc:**

\* *Updates for MITRAILLETTE v072016*

\* *Introduction of MITRAILLETTE v022017, provisionally in directory aadir\_mitraille\_v022017*

\* *Fix in SUDYN*

*NO NUMERICAL IMPACT IS EXPECTED.*

**Projects:** arpifs, mitraille

**Git branch:** yessad\_CY43T2\_r3V06cor

**Added:**

mitraille/aadir\_mitraille\_v022017/doc

mitraille/aadir\_mitraille\_v022017/namelist

doc\_mitraillette.pdf, history\_difnam, norms\_design\_namelists, norms\_design\_protojobs  
GE\_C901.nam, GM\_C401\_HYD\_EUL\_VFD\_ADIAB.nam, GM\_C401\_HYD\_EUL\_VFD\_SIM4PHYISBA.nam,  
GM\_C401\_HYD\_SL2\_VFE\_ADIAB.nam, GM\_C401\_HYD\_SL2\_VFE\_ADIAB\_SLHD.nam,  
GM\_C401\_HYD\_SL2\_VFE\_SIM4PHYISBA.nam, GM\_C501\_HYD\_EUL\_VFD\_ADIAB.nam,  
GM\_C501\_HYD\_EUL\_VFD\_SIM5PHYISBA.nam, GM\_C501\_HYD\_SL2\_VFE\_ADIAB.nam,  
GM\_C501\_HYD\_SL2\_VFE\_ADIAB\_SLHD.nam, GM\_C501\_HYD\_SL2\_VFE\_SIM5PHYISBA.nam,  
GM\_C601\_HYD\_EUL\_VFD\_ADIAB.nam, GM\_C601\_HYD\_EUL\_VFD\_VSIPHY.nam,  
GM\_C601\_HYD\_SL2\_VFE\_ADIAB.nam, GM\_C601\_HYD\_SL2\_VFE\_VSIPHY.nam, GM\_C923\_TL798S\_lin.nam,  
GM\_C923\_TL798S\_quad.nam, GM\_DILA.selnam\_dila, GM\_DILA\_HRES.selnam\_dila,  
GM\_FCST\_DHYD\_EUL\_VFD\_ADIAB\_TL031U.nam,  
GM\_FCST\_DHYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL031U.nam,  
GM\_FCST\_DHYD\_SL3\_VFD\_ADIAB\_TL031U.nam, GM\_FCST\_HYD\_EUL\_VFD\_ADIAB\_TL031U.nam,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_VESL\_TL031U.nam,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_XIDT\_TL031U.nam,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_VESL\_TL031U.nam,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL031U.nam,  
GM\_FCST\_HYD\_SL3\_VFD\_ADIAB\_TL031U.nam, GM\_FCTI\_DHYD\_EUL\_VFD\_ADIAB\_TL030S.nam,  
GM\_FCTI\_DHYD\_SL2\_VFE\_ADIAB\_SETTLS\_NDEC\_TL030S.nam,  
GM\_FCTI\_DHYD\_SL3\_VFD\_ADIAB\_TL030S.nam, GM\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_PCF\_TL030S.nam,  
GM\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_TL030S.nam,  
GM\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_TL030S.nam,

GM\_FCTI\_DNHE\_SL3\_VFD\_ADIAB\_RDBBC1\_TL030S.nam, GM\_FCTI\_HYD\_EUL\_VFD\_ADIAB\_TL030S.nam,  
GM\_FCTI\_HYD\_EUL\_VFD\_ARPPHYISBA\_TL030S.nam,  
GM\_FCTI\_HYD\_SL2\_RVFE\_ADIAB\_SETTLS\_NDEC\_TL030S.nam,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_VESL\_TL030S.nam,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_XIDT\_TL030S.nam,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_LELTRA\_XIDT\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_NDPSFI\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_RW2TLFF\_TL030S.nam,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SLHD\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SPRTSPQ\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_SLT\_IOSV\_TL798S.nam,  
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GM\_FCTI\_NHE\_EUL\_VFD\_ARPPHYISBA\_SI\_TL030S.nam,  
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GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_SI\_TL030S.nam,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_TL030S.nam,  
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GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC2\_PCC\_TL030S.nam,  
GM\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GWADV1\_PCF\_TL030S.nam,  
GM\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GWADV2\_PCC\_TL030S.nam,  
GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCC\_TL030S.nam,

GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_TL030S.nam,  
GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV2\_PCC\_TL030S.nam,  
GM\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_TL030S.nam,  
GM\_FCTI\_NHE\_SL3\_VFD\_ARPPHYISBA\_RDBBC1\_TL030S.nam,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.nam, GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.nam,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPMF\_HYD\_GPLALON\_CPRD.nam,  
GM\_FPMF\_HYD\_GPLALON\_INRD.nam, GM\_FPOF\_HYD\_GPGAUSS.nam,  
GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.nam, GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPOF\_HYD\_MODEL.nam,  
GM\_FPOF\_HYD\_MODEL\_ADDGPQ.nam, GM\_FPOF\_HYD\_MODEL\_ADDNHVAR.nam,  
GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS\_fc.nam, GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS\_fp.nam,  
GM\_FPOF\_HYD\_SPGAUSS\_H2L.nam, GM\_FPOF\_HYD\_SPGAUSS\_L2H.nam,  
GM\_FPOF\_HYD\_SPLELAM\_ARU.nam, GM\_FPOF\_HYD\_SPLELAM\_CIE\_LAM2.nam,  
GM\_FPOF\_HYD\_SPLELAM\_COU.nam, GM\_FPOF\_HYD\_SURFLELAM.nam,  
GM\_FPOF\_HYD\_SURFLELAM.selnam\_suf, GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.nam,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.nam,  
L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.selnam\_exseg1, L1\_FCST\_HYD\_SL2\_VFD\_ARPPHY1D.nam,  
L2\_FCST\_NHE\_SL3\_VFD\_ADIAB.nam, L2\_FCTI\_HYD\_SL2\_VFD\_ADIAB.nam,  
L2\_FCTI\_HYD\_SL3\_VFD\_ADIAB.nam, L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_NESC.nam,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_NESC.nam,  
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L3\_C601\_HYD\_SL2\_VFD\_VSIPHY\_PGAL.nam, L3\_C601\_HYD\_SL2\_VFE\_VSIPHY\_PGAL.nam,  
L3\_C923\_LALON\_FRANX01.nam, L3\_C923\_LELAM\_FRANCE\_lin.nam, L3\_C923\_LELAM\_FRANCE\_quad.nam,  
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L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_FROC.nam,  
L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_FROC.nam,  
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L3\_FCTI\_HYD\_SL2\_VFD\_ALRPHYISBA\_OLDLACE.nam, L3\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_PGAL.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ALRPHYISBA\_LACE.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_GRANLMRT.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_TSTDFI\_FRAN.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.selnam\_sfex, L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_PGAL.nam,  
L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_SLHD\_PGAL.nam, L3\_FCTI\_HYD\_SL3\_VFE\_ADIAB\_PGAL.nam,  
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L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_FROC.nam,  
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L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCC\_FROC.nam,  
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L3\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_FROC.nam,  
L3\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.nam, L3\_FPIN\_HYD\_MODEL\_ARPPHYISBA.nam,  
L3\_FPOF\_HYD\_GPLALON\_LAL.nam, L3\_FPOF\_HYD\_GPLALON\_OPE2\_ARPPHYISBA.nam,  
L3\_FPOF\_HYD\_GPLELAM\_CIE\_LAM1.nam, L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI1.nam,  
L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI2.nam, L3\_FPOF\_HYD\_GPLELAM\_CI\_OPEX.nam,  
L3\_FPOF\_HYD\_MODEL.nam, L3\_FPOF\_HYD\_SPLELAM\_ARUNES.nam,  
L3\_PGDI\_LELAM\_FRANCE.selnam\_pgd, aainfo, arome.selnam\_exseg1, arome.selnam\_fp\_0, arome.selnam\_fp\_3,  
vide, vide\_selnam\_exseg1, vide\_selnam\_fpos, vide\_selnam\_pgd, vide\_selnam\_suf, vv\_ddh, vv\_phy\_ADIAB,  
vv\_phy\_AROPHYSFEX, vv\_phy\_ARPPHYISBA, vv\_phy\_SIM1PHYISBA, vv\_phy\_SIM4PHYISBA,  
vv\_phy\_SIM5PHYISBA, vv\_phy\_VSIPHY

mitraille/aadir\_mitraille\_v022017/namelist\_ref

GE\_C901.nam, GM\_C401\_HYD\_EUL\_VFD\_ADIAB.nam, GM\_C401\_HYD\_EUL\_VFD\_SIM4PHYISBA.nam,  
GM\_C401\_HYD\_SL2\_VFE\_ADIAB.nam, GM\_C401\_HYD\_SL2\_VFE\_ADIAB\_SLHD.nam,  
GM\_C401\_HYD\_SL2\_VFE\_SIM4PHYISBA.nam, GM\_C501\_HYD\_EUL\_VFD\_ADIAB.nam,  
GM\_C501\_HYD\_EUL\_VFD\_SIM5PHYISBA.nam, GM\_C501\_HYD\_SL2\_VFE\_ADIAB.nam,  
GM\_C501\_HYD\_SL2\_VFE\_ADIAB\_SLHD.nam, GM\_C501\_HYD\_SL2\_VFE\_SIM5PHYISBA.nam,

GM\_C601\_HYD\_EUL\_VFD\_ADIAB.nam, GM\_C601\_HYD\_EUL\_VFD\_VSIPHY.nam,  
GM\_C601\_HYD\_SL2\_VFE\_ADIAB.nam, GM\_C601\_HYD\_SL2\_VFE\_VSIPHY.nam, GM\_C923\_TL798S\_lin.nam,  
GM\_C923\_TL798S\_quad.nam, GM\_DILA.selnam\_dila, GM\_DILA\_HRES.selnam\_dila,  
GM\_FCST\_DHYD\_EUL\_VFD\_ADIAB\_TL031U.nam,  
GM\_FCST\_DHYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL031U.nam,  
GM\_FCST\_DHYD\_SL3\_VFD\_ADIAB\_TL031U.nam, GM\_FCST\_HYD\_EUL\_VFD\_ADIAB\_TL031U.nam,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_VESL\_TL031U.nam,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_XIDT\_TL031U.nam,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_VESL\_TL031U.nam,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL031U.nam,  
GM\_FCST\_HYD\_SL3\_VFD\_ADIAB\_TL031U.nam, GM\_FCTI\_DHYD\_EUL\_VFD\_ADIAB\_TL030S.nam,  
GM\_FCTI\_DHYD\_SL2\_VFE\_ADIAB\_SETTLS\_NDEC\_TL030S.nam,  
GM\_FCTI\_DHYD\_SL3\_VFD\_ADIAB\_TL030S.nam, GM\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_PCF\_TL030S.nam,  
GM\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_TL030S.nam,  
GM\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_TL030S.nam,  
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GM\_FCTI\_HYD\_EUL\_VFD\_ARPPHYISBA\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_NDPSFI\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_RW2TLFF\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SPRTGPQ\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_FLT\_IOSV\_TL798S.nam,  
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GM\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_TL030S.nam, GM\_FCTI\_HYD\_SL3\_VFD\_ARPPHYISBA\_TL030S.nam,  
GM\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_PCF\_TL030S.nam, GM\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_SI\_TL030S.nam,  
GM\_FCTI\_NHE\_EUL\_VFD\_ARPPHYISBA\_PCF\_TL030S.nam,  
GM\_FCTI\_NHE\_EUL\_VFD\_ARPPHYISBA\_SI\_TL030S.nam,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCC\_TL030S.nam,  
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GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC2\_PCC\_TL030S.nam,  
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GM\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_TL030S.nam,  
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GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.nam, GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.nam,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPMF\_HYD\_GPLALON\_CPRD.nam,  
GM\_FPMF\_HYD\_GPLALON\_INRD.nam, GM\_FPOF\_HYD\_GPGAUSS.nam,  
GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.nam, GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPOF\_HYD\_MODEL.nam,  
GM\_FPOF\_HYD\_MODEL\_ADDGPQ.nam, GM\_FPOF\_HYD\_MODEL\_ADDNHVAR.nam,  
GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS\_fc.nam, GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS\_fp.nam,  
GM\_FPOF\_HYD\_SPGAUSS\_H2L.nam, GM\_FPOF\_HYD\_SPGAUSS\_L2H.nam,  
GM\_FPOF\_HYD\_SPLELAM\_ARU.nam, GM\_FPOF\_HYD\_SPLELAM\_CIE\_LAM2.nam,  
GM\_FPOF\_HYD\_SPLELAM\_COU.nam, GM\_FPOF\_HYD\_SURFLELAM.nam,  
GM\_FPOF\_HYD\_SURFLELAM.selnam\_suf, GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.nam,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.nam,  
L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.selnam\_exseg1, L1\_FCST\_HYD\_SL2\_VFD\_ARPPHY1D.nam,

L2\_FCST\_NHE\_SL3\_VFD\_ADIAB.nam, L2\_FCTI\_HYD\_SL2\_VFD\_ADIAB.nam,  
L2\_FCTI\_HYD\_SL3\_VFD\_ADIAB.nam, L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_NESC.nam,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_NESC.nam,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_SETTLS.nam, L3\_C401\_HYD\_EUL\_VFD\_ADIAB\_PGAL.nam,  
L3\_C401\_HYD\_SL2\_VFD\_ADIAB\_PGAL.nam, L3\_C401\_HYD\_SL2\_VFE\_ADIAB\_PGAL.nam,  
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L3\_C501\_HYD\_SL2\_VFE\_ADIAB\_PGAL.nam, L3\_C601\_HYD\_EUL\_VFD\_VSIPHY\_PGAL.nam,  
L3\_C601\_HYD\_SL2\_VFD\_VSIPHY\_PGAL.nam, L3\_C601\_HYD\_SL2\_VFE\_VSIPHY\_PGAL.nam,  
L3\_C923\_LALON\_FRANX01.nam, L3\_C923\_LELAM\_FRANCE\_lin.nam, L3\_C923\_LELAM\_FRANCE\_quad.nam,  
L3\_C923\_LELAM\_LACE.nam, L3\_C923\_LELAM\_REUNION\_lin.nam, L3\_C923\_LELAM\_REUNION\_quad.nam,  
L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_AROMALP1300.nam,  
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L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCC\_AROMALP1300.nam,  
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L3\_FCTI\_DHHD\_SL3\_VFD\_ADIAB\_PGAL.nam, L3\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_FROC.nam,  
L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_FROC.nam,  
L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_FROC.nam,  
L3\_FCTI\_DNHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.nam, L3\_FCTI\_HYD\_EUL\_VFD\_ADIAB\_PGAL.nam,  
L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_PGAL.nam, L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SLHD\_PGAL.nam,  
L3\_FCTI\_HYD\_SL2\_VFD\_ALRPHYSISBA\_OLDLACE.nam, L3\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_PGAL.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ALRPHYSISBA\_LACE.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSISBA\_GRANLMRT.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSISBA\_TSTDFI\_FRAN.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.selnam\_sfex, L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_PGAL.nam,  
L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_SLHD\_PGAL.nam, L3\_FCTI\_HYD\_SL3\_VFE\_ADIAB\_PGAL.nam,  
L3\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_FROC.nam, L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCF\_FROC.nam,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_FROC.nam,  
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L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_FROC.nam,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC2\_PCF\_FROC.nam,  
L3\_FCTI\_NHE\_SL2\_VFD\_ARPPHYSISBA\_GRANLMRT.nam,  
L3\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_FROC.nam,

mitraille/aadir\_mitraille\_v022017/pro\_file  
mitraille/aadir\_mitraille\_v022017/procedure  
mitraille/aadir\_mitraille\_v022017/protojobs

L3\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.nam, L3\_FPIN\_HYD\_MODEL\_ARPPHYISBA.nam,  
L3\_FPOF\_HYD\_GPLALON\_LAL.nam, L3\_FPOF\_HYD\_GPLALON\_OPE2\_ARPPHYISBA.nam,  
L3\_FPOF\_HYD\_GPLELAM\_CIE\_LAM1.nam, L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI1.nam,  
L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI2.nam, L3\_FPOF\_HYD\_GPLELAM\_CI\_OPEX.nam,  
L3\_FPOF\_HYD\_MODEL.nam, L3\_FPOF\_HYD\_SPLELAM\_ARUNES.nam,  
L3\_PGDI\_LELAM\_FRANCE.selnam\_pgd, aainfo, arome.selnam\_exseg1, arome.selnam\_fp\_0, arome.selnam\_fp\_3,  
vide, vide\_selnam\_exseg1, vide\_selnam\_fpos, vide\_selnam\_pgd, vide\_selnam\_suf, vv\_ddh, vv\_phy\_ADIAB,  
vv\_phy\_AROPHYSFEX, vv\_phy\_ARPPHYISBA, vv\_phy\_SIM1PHYISBA, vv\_phy\_SIM4PHYISBA,  
vv\_phy\_SIM5PHYISBA, vv\_phy\_VSIPHY  
PRO\_FILE.currentcycle\_aldref, PRO\_FILE.currentcycle\_arpref  
directives\_updnam\_cy42\_to\_cy43t2.py, directives\_updnam\_cy43t2\_to\_cy44.py, mitraillette.x,  
nam\_check\_consistency.py  
GE\_C901.pjob, GM\_C401\_HYD\_EUL\_VFD\_ADIAB.pjob, GM\_C401\_HYD\_EUL\_VFD\_SIM4PHYISBA.pjob,  
GM\_C401\_HYD\_SL2\_VFE\_ADIAB.pjob, GM\_C401\_HYD\_SL2\_VFE\_ADIAB\_SLHD.pjob,  
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GM\_DILA.pjob, GM\_DILA\_HRES.pjob, GM\_FCST\_DHYD\_EUL\_VFD\_ADIAB\_TL031U.pjob,  
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GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_SLT\_REST\_TL798S.pjob,  
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GM\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_PCF\_TL030S.pjob, GM\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_SI\_TL030S.pjob,  
GM\_FCTI\_NHE\_EUL\_VFD\_ARPPHYISBA\_PCF\_TL030S.pjob,  
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GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_SI\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_SI\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC2\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GWADV1\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GWADV2\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV2\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL3\_VFD\_ARPPHYISBA\_RDBBC1\_TL030S.pjob,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.pjob, GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.pjob,  
GM\_FPMF\_HYD\_GPLALON\_CPRD.pjob, GM\_FPMF\_HYD\_GPLALON\_INRD.pjob,  
GM\_FPOF\_HYD\_GPGAUSS.pjob, GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.pjob,

GM\_FPOF\_HYD\_MODEL.pjob, GM\_FPOF\_HYD\_MODEL\_ADDGPQ.pjob,  
GM\_FPOF\_HYD\_MODEL\_ADDNHVAR.pjob, GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS.pjob,  
GM\_FPOF\_HYD\_SPGAUSS\_H2L.pjob, GM\_FPOF\_HYD\_SPGAUSS\_L2H.pjob,  
GM\_FPOF\_HYD\_SPLELAM\_ARU.pjob, GM\_FPOF\_HYD\_SPLELAM\_CIE\_LAM2.pjob,  
GM\_FPOF\_HYD\_SPLELAM\_COU.pjob, GM\_FPOF\_HYD\_SURFLELAM.pjob,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.pjob, GM\_RGRI.pjob, L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.pjob,  
L1\_FCST\_HYD\_SL2\_VFD\_ARPPHY1D.pjob, L2\_FCST\_NHE\_SL3\_VFD\_ADIAB.pjob,  
L2\_FCTI\_HYD\_SL2\_VFD\_ADIAB.pjob, L2\_FCTI\_HYD\_SL3\_VFD\_ADIAB.pjob,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_NESC.pjob,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_NESC.pjob,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_SETTLS.pjob, L3\_C401\_HYD\_EUL\_VFD\_ADIAB\_PGAL.pjob,  
L3\_C401\_HYD\_SL2\_VFD\_ADIAB\_PGAL.pjob, L3\_C401\_HYD\_SL2\_VFE\_ADIAB\_PGAL.pjob,  
L3\_C501\_HYD\_EUL\_VFD\_ADIAB\_PGAL.pjob, L3\_C501\_HYD\_SL2\_VFD\_ADIAB\_PGAL.pjob,  
L3\_C501\_HYD\_SL2\_VFE\_ADIAB\_PGAL.pjob, L3\_C601\_HYD\_EUL\_VFD\_VSIPHY\_PGAL.pjob,  
L3\_C601\_HYD\_SL2\_VFD\_VSIPHY\_PGAL.pjob, L3\_C601\_HYD\_SL2\_VFE\_VSIPHY\_PGAL.pjob,  
L3\_C923\_LALON\_FRANX01.pjob, L3\_C923\_LELAM\_FRANCE.pjob, L3\_C923\_LELAM\_LACE.pjob,  
L3\_C923\_LELAM\_REUNION.pjob, L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_AROMALP1300.pjob,  
L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_MAD\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCCMADIOS\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCCMAD\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCC\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCFMADIOS\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCFMAD\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCF\_AROMALP1300.pjob,  
L3\_FCTI\_DHYD\_EUL\_VFD\_ADIAB\_PGAL.pjob, L3\_FCTI\_DHYD\_SL2\_VFD\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_DNHE\_SL3\_VFD\_ADIAB\_PGAL.pjob, L3\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_FROC.pjob,  
L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_FROC.pjob,  
L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_FROC.pjob,  
L3\_FCTI\_DNHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.pjob, L3\_FCTI\_HYD\_EUL\_VFD\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_PGAL.pjob, L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SLHD\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL2\_VFD\_ALRPHYISBA\_OLDLACE.pjob, L3\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL2\_VFE\_ALRPHYISBA\_LACE.pjob,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_GRANLMRT.pjob,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_TSTDFI\_FRAN.pjob,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.pjob, L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_SLHD\_PGAL.pjob, L3\_FCTI\_HYD\_SL3\_VFE\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_FROC.pjob, L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_FROC.pjob,

L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCC\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC2\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GRANLMRT.pjob,  
L3\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.pjob, L3\_FPIN\_HYD\_MODEL\_ARPPHYISBA.pjob,  
L3\_FPOF\_HYD\_GPLALON\_LAL.pjob, L3\_FPOF\_HYD\_GPLALON\_OPE2\_ARPPHYISBA.pjob,  
L3\_FPOF\_HYD\_GPLELAM\_CIE\_LAM1.pjob, L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI1.pjob,  
L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI2.pjob, L3\_FPOF\_HYD\_GPLELAM\_CI\_OPEX.pjob,  
L3\_FPOF\_HYD\_MODEL.pjob, L3\_FPOF\_HYD\_SPLELAM\_ARUNES.pjob, L3\_PGDI\_LELAM\_FRANCE.pjob,  
aainfo, config\_CY43T1, config\_CY43T2, config\_CY44, frame\_rtm, jobtrailer, multiheader, profil\_table,  
z\_GM\_frame.pjob, z\_L3\_frame.pjob

mitraille/aadir\_mitraille\_v022017/protojobs/beaufix config\_CY43T1, config\_CY43T2, config\_CY44, frame\_rtm, jobtrailer, multiheader, profil\_table

**Modified:**

arpifs/setup

sudyn.F90

mitraille/doc

history\_difnam

mitraille/namelist

namg\_4hex, namg\_4hey, namg\_4hlx, namg\_4hly, namg\_4hlz, namg\_5hex, namg\_5hey, namg\_5hlx, namg\_5hly, namg\_5hlz,  
namg\_6hex, namg\_6hex\_adiab, namg\_6hlx, namg\_6hlx\_adiab, namg\_ahea, namg\_aheh, namg\_ahla, namg\_ahlh, namg\_ahsa,  
namg\_ahsh, namg\_aney, namg\_anly, namg\_ansy, namg\_c901, namg\_c923\_lin, namg\_c923\_quad, namg\_fila, namg\_filb,  
namg\_fpfa, namg\_fpfb, namg\_fpga, namg\_fpla, namg\_fplb, namg\_fpmc, namg\_fpsa, namg\_fpsu\_fc,  
namg\_fpsu\_fp, namg\_fpsu\_fp\_103, namg\_fpsu\_fp\_115, namg\_fpsv\_addnhvar, namg\_fpsv\_addnhvar\_115, namg\_fpsv\_gpq,  
namg\_fpsv\_gpq\_115, namg\_mheh, namg\_mhllh, namg\_mhli, namg\_mhlj, namg\_mhllk, namg\_mhsh, namg\_mney, namg\_mnly,  
namg\_mnsy, naml\_aa1t\_e001\_lacealoro, naml\_aa1t\_e001\_lacealoro\_mix, naml\_aa1t\_e001\_lacealoro\_old, naml\_ac1t\_e001\_sl2,  
naml\_ac1u\_e001\_nh\_sl2, naml\_ag1t\_e001\_fr\_oper, naml\_agit\_e001\_idfi, naml\_ah1e\_e001\_eul, naml\_ah1s\_e001\_sl3,  
naml\_ah1s\_e001\_sl3\_slhd, naml\_ah1t\_e001\_sl2, naml\_ah1t\_e001\_sl2\_slhd, naml\_ah2s\_e001\_2dm\_sl3,  
naml\_ah2t\_e001\_2dm\_sl2, naml\_ah4e\_e401\_eul, naml\_ah4t\_e401\_sl2, naml\_ah5e\_e501\_eul, naml\_ah5t\_e501\_sl2,  
naml\_ah6e\_e601\_eul\_physb, naml\_ah6t\_e601\_sl2\_physb, naml\_ah9e\_e927\_fp\_aru, naml\_ah9e\_e927\_fp\_cou,  
naml\_ah9e\_ee927\_fp\_arunes, naml\_ahfe\_e001\_fp\_ope2, naml\_ahfe\_e001\_fp\_opex, naml\_ahfe\_e001\_inl\_fp,  
naml\_ahfe\_e903\_fp\_gri1, naml\_ahfe\_e903\_fp\_gri2, naml\_ahfe\_e903\_fp\_lal, naml\_ahfe\_e903\_fp\_lam1,  
naml\_ahfe\_e903\_fp\_lam2, naml\_ahfe\_e903\_fp\_mod, naml\_ahme\_e001\_fp\_lamars, naml\_ahut\_e001\_sl2, naml\_ai1t\_e001\_hl,  
naml\_an1e\_e001\_nhsad\_d4\_eul, naml\_an1s\_e001\_nhsad\_d4\_sl3, naml\_an1t\_e001\_nhsad\_d4\_sl2,  
naml\_an2s\_e001\_nh2dm\_d4\_sl3, naml\_an2t\_e001\_nh2dm\_d4\_sl2, naml\_ar1t\_e001\_hyd, naml\_ar1t\_e001\_hydmad,  
naml\_ar1t\_e001\_pcc, naml\_ar1t\_e001\_pccmad, naml\_ar1t\_e001\_pccmad\_adiab, naml\_ar1t\_e001\_pccmadios,  
naml\_ar1t\_e001\_pcf, naml\_arut\_e001\_sl2, naml\_axcx\_e923\_lalon\_franx01, naml\_axcx\_e923\_lelam\_france\_lin,  
naml\_axcx\_e923\_lelam\_france\_quad, naml\_axcx\_e923\_lelam\_lace\_quad, naml\_axcx\_e923\_lelam\_reunion\_lin,  
naml\_axcx\_e923\_lelam\_reunion\_quad, vide

mitraille/pro\_file

PRO\_FILE.currentcycle\_aldmonoref, PRO\_FILE.currentcycle\_aldmultiref, PRO\_FILE.currentcycle\_arpmmonoref,  
PRO\_FILE.currentcycle\_arpmultiref

**Doc:**

MITRAILLETTE version is now V022017.

Complete removal of some obsolete (emptied) routines.

NO NUMERICAL IMPACT IS EXPECTED.

**Projects:** aladin, arpifs, mitraille

**Git branch:** yessad\_CY43T2\_r3V07cor

**Deleted:**

aladin/adiab	espnhsi_geogw.F90, gpspng.F90
aladin/dia	ewmovph.F90
aladin/fullpos	sufpmove.F90
aladin/setup	esp2lnsp.F90
arpifs/adiab	cpg_gpb_nhgeogw.F90, cppfttcdir.F90, cppfttcinv.F90, gnh_conv_nhvar_geogw.F90, gp_tndlagadiab_uv_geogw.F90, lanhsi_geogw.F90, sivderi.F90, spnhsi_geogw.F90
arpifs/dia	foutcnorm.F90, gptcnorm.F90, wrtcfou.F90
arpifs/fullpos	ini3wrfp.F90
arpifs/module	yomfittc.F90, yomfpct0.F90, yompong.F90
arpifs/namelist	nampong.nam.h
arpifs/parallel	disfou.F90, diwrfou.F90
arpifs/setup	sualfoutc.F90, sunhbmata_geogw.F90, surcof.F90, surcoftc.F90, suspectcfou.F90
arpifs/utility	dealtc.F90
mitraille/aadir_mitraille_v022017/doc	doc_mitraillette.pdf, history_difnam, norms_design_namelists, norms_design_protojobs
mitraille/aadir_mitraille_v022017/namelist	GE_C901.nam, GM_C401_HYD_EUL_VFD_ADIAB.nam, GM_C401_HYD_EUL_VFD_SIM4PHYISBA.nam, GM_C401_HYD_SL2_VFE_ADIAB.nam, GM_C401_HYD_SL2_VFE_ADIAB_SLHD.nam, GM_C401_HYD_SL2_VFE_SIM4PHYISBA.nam, GM_C501_HYD_EUL_VFD_ADIAB.nam, GM_C501_HYD_EUL_VFD_SIM5PHYISBA.nam, GM_C501_HYD_SL2_VFE_ADIAB.nam, GM_C501_HYD_SL2_VFE_ADIAB_SLHD.nam, GM_C501_HYD_SL2_VFE_SIM5PHYISBA.nam, GM_C601_HYD_EUL_VFD_ADIAB.nam, GM_C601_HYD_EUL_VFD_VSIPHY.nam, GM_C601_HYD_SL2_VFE_ADIAB.nam, GM_C601_HYD_SL2_VFE_VSIPHY.nam, GM_C923_TL798S_lin.nam, GM_C923_TL798S_quad.nam, GM_DILA.selnam_dila, GM_DILA_HRES.selnam_dila, GM_FCST_DHYD_EUL_VFD_ADIAB_TL031U.nam, GM_FCST_DHYD_SL2_VFD_ADIAB_SETTLS_XIDT_TL031U.nam, GM_FCST_DHYD_SL3_VFD_ADIAB_TL031U.nam, GM_FCST_HYD_EUL_VFD_ADIAB_TL031U.nam, GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_VESL_TL031U.nam, GM_FCST_HYD_SL2_VFD_ADIAB_EXTCLA_XIDT_TL031U.nam,

GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_VESL\_TL031U.nam,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL031U.nam,  
GM\_FCST\_HYD\_SL3\_VFD\_ADIAB\_TL031U.nam, GM\_FCTI\_DHYD\_EUL\_VFD\_ADIAB\_TL030S.nam,  
GM\_FCTI\_DHYD\_SL2\_VFE\_ADIAB\_SETTLS\_NDEC\_TL030S.nam,  
GM\_FCTI\_DHYD\_SL3\_VFD\_ADIAB\_TL030S.nam, GM\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_PCF\_TL030S.nam,  
GM\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_TL030S.nam,  
GM\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_TL030S.nam,  
GM\_FCTI\_DNHE\_SL3\_VFD\_ADIAB\_RDBBC1\_TL030S.nam, GM\_FCTI\_HYD\_EUL\_VFD\_ADIAB\_TL030S.nam,  
GM\_FCTI\_HYD\_EUL\_VFD\_ARPPHYISBA\_TL030S.nam,  
GM\_FCTI\_HYD\_SL2\_RVFE\_ADIAB\_SETTLS\_NDEC\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_NDPSFI\_TL030S.nam,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_OSLHD\_TL030S.nam,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_RW2TLFF\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SPRTGPQ\_TL030S.nam,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SPRTSPQ\_TL030S.nam,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SSLHD\_TL030S.nam,  
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GM\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_PCF\_TL030S.nam, GM\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_SI\_TL030S.nam,  
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GM\_FCTI\_NHE\_SL3\_VFD\_ARPPHYISBA\_RDBBC1\_TL030S.nam,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.nam, GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.nam,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPMF\_HYD\_GPLALON\_CPRD.nam,  
GM\_FPMF\_HYD\_GPLALON\_INRD.nam, GM\_FPOF\_HYD\_GPGAUSS.nam,  
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GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPOF\_HYD\_MODEL.nam,  
GM\_FPOF\_HYD\_MODEL\_ADDGPQ.nam, GM\_FPOF\_HYD\_MODEL\_ADDNHVAR.nam,  
GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS\_fc.nam, GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS\_fp.nam,  
GM\_FPOF\_HYD\_SPGAUSS\_H2L.nam, GM\_FPOF\_HYD\_SPGAUSS\_L2H.nam,  
GM\_FPOF\_HYD\_SPLELAM\_ARU.nam, GM\_FPOF\_HYD\_SPLELAM\_CIE\_LAM2.nam,  
GM\_FPOF\_HYD\_SPLELAM\_COU.nam, GM\_FPOF\_HYD\_SURFLELAM.nam,  
GM\_FPOF\_HYD\_SURFLELAM.selnam\_suf, GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.nam,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.nam,  
L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.selnam\_exseg1, L1\_FCST\_HYD\_SL2\_VFD\_ARPPHY1D.nam,  
L2\_FCST\_NHE\_SL3\_VFD\_ADIAB.nam, L2\_FCTI\_HYD\_SL2\_VFD\_ADIAB.nam,  
L2\_FCTI\_HYD\_SL3\_VFD\_ADIAB.nam, L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_NESC.nam,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_NESC.nam,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_SETTLS.nam, L3\_C401\_HYD\_EUL\_VFD\_ADIAB\_PGAL.nam,  
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L3\_C501\_HYD\_SL2\_VFE\_ADIAB\_PGAL.nam, L3\_C601\_HYD\_EUL\_VFD\_VSIPHY\_PGAL.nam,  
L3\_C601\_HYD\_SL2\_VFD\_VSIPHY\_PGAL.nam, L3\_C601\_HYD\_SL2\_VFE\_VSIPHY\_PGAL.nam,

L3\_C923\_LALON\_FRANX01.nam, L3\_C923\_LELAM\_FRANCE\_lin.nam, L3\_C923\_LELAM\_FRANCE\_quad.nam,  
L3\_C923\_LELAM\_LACE.nam, L3\_C923\_LELAM\_REUNION\_lin.nam, L3\_C923\_LELAM\_REUNION\_quad.nam,  
L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_AROMALP1300.nam,  
L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_MAD\_AROMALP1300.nam,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCCMADIOS\_AROMALP1300.nam,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCCMAD\_AROMALP1300.nam,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCC\_AROMALP1300.nam,  
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L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCFMAD\_AROMALP1300.nam,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCF\_AROMALP1300.nam,  
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L3\_FCTI\_DHYD\_SL3\_VFD\_ADIAB\_PGAL.nam, L3\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_FROC.nam,  
L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_FROC.nam,  
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L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_PGAL.nam, L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SLHD\_PGAL.nam,  
L3\_FCTI\_HYD\_SL2\_VFD\_ALRPHYISBA\_OLDLACE.nam, L3\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_PGAL.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ALRPHYISBA\_LACE.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_GRANLMRT.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_TSTDFI\_FRAN.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.selnam\_sfex, L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_PGAL.nam,  
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L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCC\_FROC.nam,  
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L3\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.nam, L3\_FPIN\_HYD\_MODEL\_ARPPHYISBA.nam,  
L3\_FPOF\_HYD\_GPLALON\_LAL.nam, L3\_FPOF\_HYD\_GPLALON\_OPE2\_ARPPHYISBA.nam,  
L3\_FPOF\_HYD\_GPLELAM\_CIE\_LAM1.nam, L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI1.nam,  
L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI2.nam, L3\_FPOF\_HYD\_GPLELAM\_CI\_OPEX.nam,  
L3\_FPOF\_HYD\_MODEL.nam, L3\_FPOF\_HYD\_SPLELAM\_ARUNES.nam,  
L3\_PGDI\_LELAM\_FRANCE.selnam\_pgd, aainfo, arome.selnam\_exseg1, arome.selnam\_fp\_0, arome.selnam\_fp\_3,  
vide, vide\_selnam\_exseg1, vide\_selnam\_fpos, vide\_selnam\_pgd, vide\_selnam\_suf, vv\_ddh, vv\_phy\_ADIAB,  
vv\_phy\_AROPHYSFEX, vv\_phy\_ARPPHYISBA, vv\_phy\_SIM1PHYISBA, vv\_phy\_SIM4PHYISBA,

mitraille/aadir\_mitraille\_v022017/namelist\_ref

vv\_phy\_SIM5PHYISBA, vv\_phy\_VSIPHY

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GM\_C401\_HYD\_SL2\_VFE\_SIM4PHYISBA.nam, GM\_C501\_HYD\_EUL\_VFD\_ADIAB.nam,  
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GM\_C601\_HYD\_EUL\_VFD\_ADIAB.nam, GM\_C601\_HYD\_EUL\_VFD\_VSIPHY.nam,  
GM\_C601\_HYD\_SL2\_VFE\_ADIAB.nam, GM\_C601\_HYD\_SL2\_VFE\_VSIPHY.nam, GM\_C923\_TL798S\_lin.nam,  
GM\_C923\_TL798S\_quad.nam, GM\_DILA.selnam\_dila, GM\_DILA\_HRES.selnam\_dila,  
GM\_FCST\_DHYD\_EUL\_VFD\_ADIAB\_TL031U.nam,  
GM\_FCST\_DHYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL031U.nam,  
GM\_FCST\_DHYD\_SL3\_VFD\_ADIAB\_TL031U.nam, GM\_FCST\_HYD\_EUL\_VFD\_ADIAB\_TL031U.nam,  
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GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_XIDT\_TL031U.nam,  
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GM\_FCST\_HYD\_SL3\_VFD\_ADIAB\_TL031U.nam, GM\_FCTI\_DHYD\_EUL\_VFD\_ADIAB\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_NDPSFI\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_RW2TLFF\_TL030S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_FLT\_IOSV\_TL798S.nam,  
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GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_SLT\_IOSV\_TL798S.nam,  
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GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPMF\_HYD\_GPLALON\_CPRD.nam,  
GM\_FPMF\_HYD\_GPLALON\_INRD.nam, GM\_FPOF\_HYD\_GPGAUSS.nam,  
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GM\_FPOF\_HYD\_MODEL\_ADDGPQ.nam, GM\_FPOF\_HYD\_MODEL\_ADDNHVAR.nam,  
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GM\_FPOF\_HYD\_SPGAUSS\_H2L.nam, GM\_FPOF\_HYD\_SPGAUSS\_L2H.nam,

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GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.nam,  
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L3\_C601\_HYD\_SL2\_VFD\_VSIPHY\_PGAL.nam, L3\_C601\_HYD\_SL2\_VFE\_VSIPHY\_PGAL.nam,  
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L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_GRANLMRT.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_TSTDFI\_FRAN.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_FRAN.nam,  
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L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_SLHD\_PGAL.nam, L3\_FCTI\_HYD\_SL3\_VFE\_ADIAB\_PGAL.nam,  
L3\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_FROC.nam, L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCF\_FROC.nam,

mitraille/aadir\_mitraille\_v022017/pro\_file  
mitraille/aadir\_mitraille\_v022017/procedure  
mitraille/aadir\_mitraille\_v022017/protojobs

L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_FROC.nam,  
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L3\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_FROC.nam,  
L3\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.nam, L3\_FPIN\_HYD\_MODEL\_ARPPHYISBA.nam,  
L3\_FPOF\_HYD\_GPLALON\_LAL.nam, L3\_FPOF\_HYD\_GPLALON\_OPE2\_ARPPHYISBA.nam,  
L3\_FPOF\_HYD\_GPLELAM\_CIE\_LAM1.nam, L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI1.nam,  
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L3\_FPOF\_HYD\_MODEL.nam, L3\_FPOF\_HYD\_SPLELAM\_ARUNES.nam,  
L3\_PGDI\_LELAM\_FRANCE.selnam\_pgd, aainfo, arome.selnam\_exseg1, arome.selnam\_fp\_0, arome.selnam\_fp\_3,  
vide, vide\_selnam\_exseg1, vide\_selnam\_fpos, vide\_selnam\_pgd, vide\_selnam\_suf, vv\_ddh, vv\_phy\_ADIAB,  
vv\_phy\_AROPHYSFEX, vv\_phy\_ARPPHYISBA, vv\_phy\_SIM1PHYISBA, vv\_phy\_SIM4PHYISBA,  
vv\_phy\_SIM5PHYISBA, vv\_phy\_VSIPHY  
PRO\_FILE.currentcycle\_aldref, PRO\_FILE.currentcycle\_arpref  
directives\_updnam\_cy42\_to\_cy43t2.py, directives\_updnam\_cy43t2\_to\_cy44.py, mitraille.x,  
nam\_check\_consistency.py  
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GM\_C401\_HYD\_SL2\_VFE\_SIM4PHYISBA.pjob, GM\_C501\_HYD\_EUL\_VFD\_ADIAB.pjob,  
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GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_VESL\_TL031U.pjob,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_XIDT\_TL031U.pjob,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_VESL\_TL031U.pjob,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL031U.pjob,  
GM\_FCST\_HYD\_SL3\_VFD\_ADIAB\_TL031U.pjob, GM\_FCTI\_DHYD\_EUL\_VFD\_ADIAB\_TL030S.pjob,  
GM\_FCTI\_DHYD\_SL2\_VFE\_ADIAB\_SETTLS\_NDEC\_TL030S.pjob,  
GM\_FCTI\_DHYD\_SL3\_VFD\_ADIAB\_TL030S.pjob, GM\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_PCF\_TL030S.pjob,  
GM\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_TL030S.pjob,  
GM\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_TL030S.pjob,

GM\_FCTI\_DNHE\_SL3\_VFD\_ADIAB\_RDBBC1\_TL030S.pjob, GM\_FCTI\_HYD\_EUL\_VFD\_ADIAB\_TL030S.pjob,  
GM\_FCTI\_HYD\_EUL\_VFD\_ARPPHYISBA\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_RVFE\_ADIAB\_SETTLS\_NDEC\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_VESL\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_XIDT\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_LELTRA\_XIDT\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_PCF\_NDEC\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_VESL\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_MSLHD\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_NDPSFI\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_OSLHD\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_RW2TLFF\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SLHD\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SPRTGPQ\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SPRTSPQ\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SSLHD\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ARPPHYISBA\_SETTLS\_XIDT\_NDPSFI\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_SETTLS\_NDEC\_RW2TLFF\_RFRIC\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_SETTLS\_NDEC\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_FLT\_IOSV\_TL798S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_SETTLS\_NDEC\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_SLT\_IOSV\_TL798S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_SLT\_REST\_TL798S.pjob,  
GM\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_TL030S.pjob, GM\_FCTI\_HYD\_SL3\_VFD\_ARPPHYISBA\_TL030S.pjob,  
GM\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_PCF\_TL030S.pjob, GM\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_SI\_TL030S.pjob,  
GM\_FCTI\_NHE\_EUL\_VFD\_ARPPHYISBA\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_EUL\_VFD\_ARPPHYISBA\_SI\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_SI\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_SI\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC2\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GWADV1\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GWADV2\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCC\_TL030S.pjob,

GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV2\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL3\_VFD\_ARPPHYISBA\_RDBBC1\_TL030S.pjob,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.pjob, GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.pjob,  
GM\_FPMF\_HYD\_GPLALON\_CPRD.pjob, GM\_FPMF\_HYD\_GPLALON\_INRD.pjob,  
GM\_FPOF\_HYD\_GPGAUSS.pjob, GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.pjob,  
GM\_FPOF\_HYD\_MODEL.pjob, GM\_FPOF\_HYD\_MODEL\_ADDGPQ.pjob,  
GM\_FPOF\_HYD\_MODEL\_ADDNHVAR.pjob, GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS.pjob,  
GM\_FPOF\_HYD\_SPGAUSS\_H2L.pjob, GM\_FPOF\_HYD\_SPGAUSS\_L2H.pjob,  
GM\_FPOF\_HYD\_SPLELAM\_ARU.pjob, GM\_FPOF\_HYD\_SPLELAM\_CIE\_LAM2.pjob,  
GM\_FPOF\_HYD\_SPLELAM\_COU.pjob, GM\_FPOF\_HYD\_SURFLELAM.pjob,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.pjob, GM\_RGRI.pjob, L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.pjob,  
L1\_FCST\_HYD\_SL2\_VFD\_ARPPHY1D.pjob, L2\_FCST\_NHE\_SL3\_VFD\_ADIAB.pjob,  
L2\_FCTI\_HYD\_SL2\_VFD\_ADIAB.pjob, L2\_FCTI\_HYD\_SL3\_VFD\_ADIAB.pjob,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_NESC.pjob,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_NESC.pjob,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_SETTLS.pjob, L3\_C401\_HYD\_EUL\_VFD\_ADIAB\_PGAL.pjob,  
L3\_C401\_HYD\_SL2\_VFD\_ADIAB\_PGAL.pjob, L3\_C401\_HYD\_SL2\_VFE\_ADIAB\_PGAL.pjob,  
L3\_C501\_HYD\_EUL\_VFD\_ADIAB\_PGAL.pjob, L3\_C501\_HYD\_SL2\_VFD\_ADIAB\_PGAL.pjob,  
L3\_C501\_HYD\_SL2\_VFE\_ADIAB\_PGAL.pjob, L3\_C601\_HYD\_EUL\_VFD\_VSIPHY\_PGAL.pjob,  
L3\_C601\_HYD\_SL2\_VFD\_VSIPHY\_PGAL.pjob, L3\_C601\_HYD\_SL2\_VFE\_VSIPHY\_PGAL.pjob,  
L3\_C923\_LALON\_FRANX01.pjob, L3\_C923\_LELAM\_FRANCE.pjob, L3\_C923\_LELAM\_LACE.pjob,  
L3\_C923\_LELAM\_REUNION.pjob, L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_AROMALP1300.pjob,  
L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_MAD\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCCMADIOS\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCCMAD\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCC\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCFMADIOS\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCFMAD\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCF\_AROMALP1300.pjob,  
L3\_FCTI\_DHYD\_EUL\_VFD\_ADIAB\_PGAL.pjob, L3\_FCTI\_DHYD\_SL2\_VFD\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_DHYD\_SL3\_VFD\_ADIAB\_PGAL.pjob, L3\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_FROC.pjob,  
L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_FROC.pjob,  
L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_FROC.pjob,  
L3\_FCTI\_DNHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.pjob, L3\_FCTI\_HYD\_EUL\_VFD\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_PGAL.pjob, L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SLHD\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL2\_VFD\_ALRPHYISBA\_OLDLACE.pjob, L3\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL2\_VFE\_ALRPHYISBA\_LACE.pjob,

L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_GRANLMRT.pjob,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_TSTDFI\_FRAN.pjob,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.pjob, L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_SLHD\_PGAL.pjob, L3\_FCTI\_HYD\_SL3\_VFE\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_FROC.pjob, L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCC\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC2\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GRANLMRT.pjob,  
L3\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.pjob, L3\_FPIN\_HYD\_MODEL\_ARPPHYISBA.pjob,  
L3\_FPOF\_HYD\_GPLALON\_LAL.pjob, L3\_FPOF\_HYD\_GPLALON\_OPE2\_ARPPHYISBA.pjob,  
L3\_FPOF\_HYD\_GPLELAM\_CIE\_LAM1.pjob, L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI1.pjob,  
L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI2.pjob, L3\_FPOF\_HYD\_GPLELAM\_CI\_OPEX.pjob,  
L3\_FPOF\_HYD\_MODEL.pjob, L3\_FPOF\_HYD\_SPLELAM\_ARUNES.pjob, L3\_PGDI\_LELAM\_FRANCE.pjob,  
aainfo, config\_CY43T1, config\_CY43T2, config\_CY44, frame\_rtm, jobtrailer, multiheader, profil\_table,  
z\_GM\_frame.pjob, z\_L3\_frame.pjob

mitraille/aadir\_mitraille\_v022017/protojobs/beaufix  
mitraille/namelist

config\_CY43T1, config\_CY43T2, config\_CY44, frame\_rtm, jobtrailer, multiheader, profil\_table  
namg\_4hex, namg\_4hey, namg\_4hlx, namg\_4hly, namg\_4hlz, namg\_5hex, namg\_5hey, namg\_5hlx, namg\_5hly,  
namg\_5hlz, namg\_6hex, namg\_6hex\_adiab, namg\_6hlx, namg\_6hlx\_adiab, namg\_ahea, namg\_ahch, namg\_ahla,  
namg\_ahlh, namg\_ahsa, namg\_ahsh, namg\_aney, namg\_anly, namg\_ansy, namg\_c901, namg\_c923\_lin,  
namg\_c923\_quad, namg\_dila, namg\_dila\_highres, namg\_fila, namg\_filb, namg\_fpfa, namg\_fpfb, namg\_fpga,  
namg\_fpla, namg\_fplb, namg\_fpmc, namg\_fpmc, namg\_fpsa, namg\_fpsu\_fc, namg\_fpsu\_fp, namg\_fpsu\_fp\_103,  
namg\_fpsu\_fp\_115, namg\_fpsv\_addnhvar, namg\_fpsv\_addnhvar\_115, namg\_fpsv\_gpq, namg\_fpsv\_gpq\_115,  
namg\_mheh, namg\_mhlh, namg\_mhli, namg\_mhlj, namg\_mhll, namg\_mhsh, namg\_mney, namg\_mnly, namg\_mnsy,  
naml\_aa1t\_e001\_lacealoro, naml\_aa1t\_e001\_lacealoro\_mix, naml\_aa1t\_e001\_lacealoro\_old, naml\_ac1t\_e001\_sl2,  
naml\_ac1u\_e001\_nh\_sl2, naml\_ag1t\_e001\_fr\_oper, naml\_agit\_e001\_idfi, naml\_ah1e\_e001\_eul, naml\_ah1s\_e001\_sl3,  
naml\_ah1s\_e001\_sl3\_slhd, naml\_ah1t\_e001\_sl2, naml\_ah1t\_e001\_sl2\_slhd, naml\_ah2s\_e001\_2dm\_sl3,  
naml\_ah2t\_e001\_2dm\_sl2, naml\_ah4e\_e401\_eul, naml\_ah4t\_e401\_sl2, naml\_ah5e\_e501\_eul, naml\_ah5t\_e501\_sl2,  
naml\_ah6e\_e601\_eul\_physb, naml\_ah6t\_e601\_sl2\_physb, naml\_ah9e\_e927\_fp\_aru, naml\_ah9e\_e927\_fp\_cou,  
naml\_ah9e\_ee927\_fp\_arunes, naml\_ahfe\_e001\_fp\_ope2, naml\_ahfe\_e001\_fp\_opex, naml\_ahfe\_e001\_inl\_fp,  
naml\_ahfe\_e903\_fp\_gri1, naml\_ahfe\_e903\_fp\_gri2, naml\_ahfe\_e903\_fp\_lal, naml\_ahfe\_e903\_fp\_lam1,  
naml\_ahfe\_e903\_fp\_lam2, naml\_ahfe\_e903\_fp\_mod, naml\_ahme\_e001\_fp\_lamars, naml\_ahut\_e001\_sl2,  
naml\_ai1t\_e001\_hl, naml\_an1e\_e001\_nhsad\_d4\_eul, naml\_an1s\_e001\_nhsad\_d4\_sl3, naml\_an1t\_e001\_nhsad\_d4\_sl2,  
naml\_an2s\_e001\_nh2dm\_d4\_sl3, naml\_an2t\_e001\_nh2dm\_d4\_sl2, naml\_ar1t\_e001\_hyd, naml\_ar1t\_e001\_hydmad,  
naml\_ar1t\_e001\_pcc, naml\_ar1t\_e001\_pccmad, naml\_ar1t\_e001\_pccmad\_adiab, naml\_ar1t\_e001\_pccmadios,

	<p>naml_ar1t_e001_pcf, naml_arut_e001_sl2, naml_axcx_e923_lalon_franx01, naml_axcx_e923_leram_france_lin, naml_axcx_e923_leram_france_quad, naml_axcx_e923_leram_lace_quad, naml_axcx_e923_leram_reunion_lin, naml_axcx_e923_leram_reunion_quad, sel_0, sel_3, sel_6, sel_ag1t_exseg1, sel_ahfe_exseg1, sel_ahme_lamars, sel_ar1t_0, sel_ar1t_3, sel_ar1t_exseg1, sel_arut_exseg1, sel_axsy_makepgd_fa_arome_frangp, vide_sel_exseg1, vide_sel_fpos, vide_sel_lamars, vide_sel_makepgd, vv_adiab_physics, vv_complete_physics, vv_complete_physics_arome, vv_simplified_physics, vv_simplified_physics_4, vv_simplified_physics_5, vv_simplified_physics_6</p>
mitraille/namelist_ref	<p>namg_4hex, namg_4hey, namg_4hlx, namg_4hly, namg_4hlz, namg_5hex, namg_5hey, namg_5hlx, namg_5hly, namg_5hlz, namg_6hex, namg_6hex_adiab, namg_6hlx, namg_6hlx_adiab, namg_ahea, namg_aheh, namg_ahla, namg_ahlh, namg_ahsa, namg_ahsh, namg_aney, namg_anly, namg_ansy, namg_c901, namg_c923_lin, namg_c923_quad, namg_dila, namg_dila_highres, namg_fila, namg_filb, namg_fpfa, namg_fpfb, namg_fpga, namg_fpla, namg_fplb, namg_fpmc, namg_fpsa, namg_fpsu_fc, namg_fpsu_fp, namg_fpsu_fp_103, namg_fpsu_fp_115, namg_fpsv_addnhvar, namg_fpsv_addnhvar_115, namg_fpsv_gpq, namg_fpsv_gpq_115, namg_mheh, namg_mhlh, namg_mhli, namg_mhli, namg_mhli, namg_mhli, namg_mhsh, namg_mney, namg_mnly, namg_mnsy, naml_aa1t_e001_lacealoro, naml_aa1t_e001_lacealoro_mix, naml_aa1t_e001_lacealoro_old, naml_ac1t_e001_sl2, naml_ac1u_e001_nh_sl2, naml_ag1t_e001_fr_oper, naml_agit_e001_idfi, naml_ah1e_e001_eul, naml_ah1s_e001_sl3, naml_ah1s_e001_sl3_slhd, naml_ah1t_e001_sl2, naml_ah1t_e001_sl2_slhd, naml_ah2s_e001_2dm_sl3, naml_ah2t_e001_2dm_sl2, naml_ah4e_e401_eul, naml_ah4t_e401_sl2, naml_ah5e_e501_eul, naml_ah5t_e501_sl2, naml_ah6e_e601_eul_physb, naml_ah6t_e601_sl2_physb, naml_ah9e_e927_fp_aru, naml_ah9e_e927_fp_cou, naml_ah9e_ee927_fp_arunes, naml_ahfe_e001_fp_ope2, naml_ahfe_e001_fp_opex, naml_ahfe_e001_inl_fp, naml_ahfe_e903_fp_gri1, naml_ahfe_e903_fp_gri2, naml_ahfe_e903_fp_lal, naml_ahfe_e903_fp_lam1, naml_ahfe_e903_fp_lam2, naml_ahfe_e903_fp_mod, naml_ahme_e001_fp_lamars, naml_ahut_e001_sl2, naml_ai1t_e001_hl, naml_an1e_e001_nhsad_d4_eul, naml_an1s_e001_nhsad_d4_sl3, naml_an1t_e001_nhsad_d4_sl2, naml_an2s_e001_nh2dm_d4_sl3, naml_an2t_e001_nh2dm_d4_sl2, naml_ar1t_e001_hyd, naml_ar1t_e001_hydmad, naml_ar1t_e001_pcc, naml_ar1t_e001_pccmad, naml_ar1t_e001_pccmad_adiab, naml_ar1t_e001_pccmadios, naml_ar1t_e001_pcf, naml_arut_e001_sl2, naml_axcx_e923_lalon_franx01, naml_axcx_e923_leram_france_lin, naml_axcx_e923_leram_france_quad, naml_axcx_e923_leram_lace_quad, naml_axcx_e923_leram_reunion_lin, naml_axcx_e923_leram_reunion_quad, sel_0, sel_3, sel_6, sel_ag1t_exseg1, sel_ahfe_exseg1, sel_ahme_lamars, sel_ar1t_0, sel_ar1t_3, sel_ar1t_exseg1, sel_arut_exseg1, sel_axsy_makepgd_fa_arome_frangp, vide_sel_exseg1, vide_sel_fpos, vide_sel_lamars, vide_sel_makepgd, vv_adiab_physics, vv_complete_physics, vv_complete_physics_arome, vv_simplified_physics, vv_simplified_physics_4, vv_simplified_physics_5, vv_simplified_physics_6</p>
mitraille/pro_file	<p>PRO_FILE.currentcycle_aldmonoref, PRO_FILE.currentcycle_aldmultiref, PRO_FILE.currentcycle_arpmmonoref, PRO_FILE.currentcycle_arpmultiref</p>
mitraille/procedure	<p>.mitrc</p>
mitraille/protojobs/beaufix	<p>config, memtable, monoheader, timetable</p>
mitraille/protojobs	<p>config, memtable, monoheader, timetable, jobg_4hex, jobg_4hey, jobg_4hlx, jobg_4hly, jobg_4hlz, jobg_5hex, jobg_5hey, jobg_5hlx, jobg_5hly, jobg_5hlz, jobg_6hex, jobg_6hlx, jobg_ahea, jobg_aheh, jobg_ahla, jobg_ahlh,</p>

jobg\_ahsa, jobg\_ahsh, jobg\_aney, jobg\_anly, jobg\_ansy, jobg\_c901, jobg\_c923, jobg\_dila, jobg\_fila, jobg\_filb,  
jobg\_fpfa, jobg\_fpfb, jobg\_fpga, jobg\_fpla, jobg\_fplb, jobg\_fpmb, jobg\_fpmc, jobg\_fpsa, jobg\_fpsu,  
jobg\_fpsv\_addnhvar, jobg\_fpsv\_gpq, jobg\_mheh, jobg\_mhlh, jobg\_mhli, jobg\_mhlj, jobg\_mhll, jobg\_mhsh,  
jobg\_mney, jobg\_mnly, jobg\_mnsy, jobg\_rgri, jobl\_aa1t\_e001\_lacealoro, jobl\_ac1t\_e001\_sl2, jobl\_ac1u\_e001\_nh\_sl2,  
jobl\_ag1t\_e001\_fr\_oper, jobl\_agit\_e001\_idfi, jobl\_ah1e\_e001\_eul, jobl\_ah1s\_e001\_sl3, jobl\_ah1t\_e001\_sl2,  
jobl\_ah2s\_e001\_2dm\_sl3, jobl\_ah2t\_e001\_2dm\_sl2, jobl\_ah4e\_e401\_eul, jobl\_ah4t\_e401\_sl2, jobl\_ah5e\_e501\_eul,  
jobl\_ah5t\_e501\_sl2, jobl\_ah6e\_e601\_eul\_physb, jobl\_ah6t\_e601\_sl2\_physb, jobl\_ah9e\_e927\_fp\_aru,  
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**Added:**

mitraille/doc

mitraille/namelist

doc\_table\_newiden\_oldiden.ascii, norms\_design\_namelists, norms\_design\_protojobs

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GM\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GWADV1\_PCF\_TL030S.nam,  
GM\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GWADV2\_PCC\_TL030S.nam,  
GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCC\_TL030S.nam,  
GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_TL030S.nam,  
GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV2\_PCC\_TL030S.nam,  
GM\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_TL030S.nam,  
GM\_FCTI\_NHE\_SL3\_VFD\_ARPPHYISBA\_RDBBC1\_TL030S.nam, GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.nam,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_0, GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.nam,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_0, GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_3,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_6, GM\_FPMF\_HYD\_GPLALON\_CPRD.nam,  
GM\_FPMF\_HYD\_GPLALON\_INRD.nam, GM\_FPOF\_HYD\_GPGAUSS.nam,  
GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.nam, GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_3, GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.selnam\_fp\_6,  
GM\_FPOF\_HYD\_MODEL.nam, GM\_FPOF\_HYD\_MODEL\_ADDGPQ.nam,  
GM\_FPOF\_HYD\_MODEL\_ADDNHVAR.nam, GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS\_fc.nam,  
GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS\_fp.nam, GM\_FPOF\_HYD\_SPGAUSS\_H2L.nam,  
GM\_FPOF\_HYD\_SPGAUSS\_L2H.nam, GM\_FPOF\_HYD\_SPLELAM\_ARU.nam,  
GM\_FPOF\_HYD\_SPLELAM\_CIE\_LAM2.nam, GM\_FPOF\_HYD\_SPLELAM\_COU.nam,  
GM\_FPOF\_HYD\_SURFLELAM.nam, GM\_FPOF\_HYD\_SURFLELAM.selnam\_suf,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.nam, GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_0,  
GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_3, GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.selnam\_fp\_6,  
L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.nam, L1\_FCST\_HYD\_SL2\_VFD\_AROPHY1D.selnam\_exseg1,  
L2\_FCST\_HYD\_SL2\_VFD\_ARPPHY1D.nam, L2\_FCST\_NHE\_SL3\_VFD\_ADIAB.nam,  
L2\_FCTI\_HYD\_SL2\_VFD\_ADIAB.nam, L2\_FCTI\_HYD\_SL3\_VFD\_ADIAB.nam,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_NESC.nam,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_NESC.nam,  
L2\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_SETTLS.nam, L3\_C401\_HYD\_EUL\_VFD\_ADIAB\_PGAL.nam,  
L3\_C401\_HYD\_SL2\_VFD\_ADIAB\_PGAL.nam, L3\_C401\_HYD\_SL2\_VFE\_ADIAB\_PGAL.nam,  
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L3\_C501\_HYD\_SL2\_VFE\_ADIAB\_PGAL.nam, L3\_C601\_HYD\_EUL\_VFD\_VSIPHY\_PGAL.nam,  
L3\_C601\_HYD\_SL2\_VFD\_VSIPHY\_PGAL.nam, L3\_C601\_HYD\_SL2\_VFE\_VSIPHY\_PGAL.nam,  
L3\_C923\_LALON\_FRANX01.nam, L3\_C923\_LELAM\_FRANCE\_lin.nam, L3\_C923\_LELAM\_FRANCE\_quad.nam,  
L3\_C923\_LELAM\_LACE.nam, L3\_C923\_LELAM\_REUNION\_lin.nam, L3\_C923\_LELAM\_REUNION\_quad.nam,  
L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_AROMALP1300.nam,  
L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_MAD\_AROMALP1300.nam,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCCMADIOS\_AROMALP1300.nam,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCCMAD\_AROMALP1300.nam,

L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCC\_AROMALP1300.nam,  
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L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCFMAD\_AROMALP1300.nam,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCF\_AROMALP1300.nam,  
L3\_FCTI\_DHYD\_EUL\_VFD\_ADIAB\_PGAL.nam, L3\_FCTI\_DHYD\_SL2\_VFD\_ADIAB\_PGAL.nam,  
L3\_FCTI\_DHYD\_SL3\_VFD\_ADIAB\_PGAL.nam, L3\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_FROC.nam,  
L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_FROC.nam,  
L3\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_FROC.nam,  
L3\_FCTI\_DNHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.nam, L3\_FCTI\_HYD\_EUL\_VFD\_ADIAB\_PGAL.nam,  
L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_PGAL.nam, L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SLHD\_PGAL.nam,  
L3\_FCTI\_HYD\_SL2\_VFD\_ALRPHYISBA\_OLDLACE.nam, L3\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_PGAL.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ALRPHYISBA\_LACE.nam, L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_GRANLMRT.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_TSTDFI\_FRAN.nam, L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.nam,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.selnam\_sfex, L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_PGAL.nam,  
L3\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_SLHD\_PGAL.nam, L3\_FCTI\_HYD\_SL3\_VFE\_ADIAB\_PGAL.nam,  
L3\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_FROC.nam, L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCF\_FROC.nam,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_FROC.nam,  
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L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCC\_FROC.nam,  
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L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC2\_PCF\_FROC.nam,  
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L3\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_FROC.nam,  
L3\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.nam, L3\_FPIN\_HYD\_MODEL\_ARPPHYISBA.nam,  
L3\_FPOF\_HYD\_GPLALON\_LAL.nam, L3\_FPOF\_HYD\_GPLALON\_OPE2\_ARPPHYISBA.nam,  
L3\_FPOF\_HYD\_GPLELAM\_CIE\_LAM1.nam, L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI1.nam,  
L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI2.nam, L3\_FPOF\_HYD\_GPLELAM\_CI\_OPEX.nam, L3\_FPOF\_HYD\_MODEL.nam,  
L3\_FPOF\_HYD\_SPLELAM\_ARUNES.nam, L3\_PGDI\_LELAM\_FRANCE.selnam\_pgd, arome.selnam\_exseg1,  
arome.selnam\_fp\_0, arome.selnam\_fp\_3, vide\_selnam\_exseg1, vide\_selnam\_fpos, vide\_selnam\_pgd, vide\_selnam\_suf,  
vv\_phy\_ADIAB, vv\_phy\_AROPHYSFEX, vv\_phy\_ARPPHYISBA, vv\_phy\_SIM1PHYISBA, vv\_phy\_SIM4PHYISBA,  
vv\_phy\_SIM5PHYISBA, vv\_phy\_VSIPHY  
PRO\_FILE.currentcycle\_aldref, PRO\_FILE.currentcycle\_arpref  
directives\_updnam\_cy42\_to\_cy43t2.py, directives\_updnam\_cy43t2\_to\_cy44.py, mitraille\_v072016.tar,  
nam\_check\_consistency.py  
GE\_C901.pjob, GM\_C401\_HYD\_EUL\_VFD\_ADIAB.pjob, GM\_C401\_HYD\_EUL\_VFD\_SIM4PHYISBA.pjob,  
GM\_C401\_HYD\_SL2\_VFE\_ADIAB.pjob, GM\_C401\_HYD\_SL2\_VFE\_ADIAB\_SLHD.pjob,  
GM\_C401\_HYD\_SL2\_VFE\_SIM4PHYISBA.pjob, GM\_C501\_HYD\_EUL\_VFD\_ADIAB.pjob,  
GM\_C501\_HYD\_EUL\_VFD\_SIM5PHYISBA.pjob, GM\_C501\_HYD\_SL2\_VFE\_ADIAB.pjob,

mitraille/pro\_file  
mitraille/procedure  
  
mitraille/protojobs

GM\_C501\_HYD\_SL2\_VFE\_ADIAB\_SLHD.pjob, GM\_C501\_HYD\_SL2\_VFE\_SIM5PHYISBA.pjob,  
GM\_C601\_HYD\_EUL\_VFD\_ADIAB.pjob, GM\_C601\_HYD\_EUL\_VFD\_VSIPHY.pjob,  
GM\_C601\_HYD\_SL2\_VFE\_ADIAB.pjob, GM\_C601\_HYD\_SL2\_VFE\_VSIPHY.pjob, GM\_C923\_TL798S.pjob,  
GM\_DILA.pjob, GM\_DILA\_HRES.pjob, GM\_FCST\_DHYD\_EUL\_VFD\_ADIAB\_TL031U.pjob,  
GM\_FCST\_DHYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL031U.pjob,  
GM\_FCST\_DHYD\_SL3\_VFD\_ADIAB\_TL031U.pjob, GM\_FCST\_HYD\_EUL\_VFD\_ADIAB\_TL031U.pjob,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_VESL\_TL031U.pjob,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_XIDT\_TL031U.pjob,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_VESL\_TL031U.pjob,  
GM\_FCST\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL031U.pjob, GM\_FCST\_HYD\_SL3\_VFD\_ADIAB\_TL031U.pjob,  
GM\_FCTI\_DHYD\_EUL\_VFD\_ADIAB\_TL030S.pjob,  
GM\_FCTI\_DHYD\_SL2\_VFE\_ADIAB\_SETTLS\_NDEC\_TL030S.pjob,  
GM\_FCTI\_DHYD\_SL3\_VFD\_ADIAB\_TL030S.pjob, GM\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_PCF\_TL030S.pjob,  
GM\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_TL030S.pjob,  
GM\_FCTI\_DNHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_TL030S.pjob,  
GM\_FCTI\_DNHE\_SL3\_VFD\_ADIAB\_RDBBC1\_TL030S.pjob, GM\_FCTI\_HYD\_EUL\_VFD\_ADIAB\_TL030S.pjob,  
GM\_FCTI\_HYD\_EUL\_VFD\_ARPPHYISBA\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_RVFE\_ADIAB\_SETTLS\_NDEC\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_VESL\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_EXTCLA\_XIDT\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_LELTRA\_XIDT\_TL030S.pjob,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_VESL\_TL030S.pjob,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_NDPSFI\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_OSLHD\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_RW2TLFF\_TL030S.pjob,  
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GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SPRTGPQ\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SPRTSPQ\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_SSLHD\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SETTLS\_XIDT\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFD\_ARPPHYISBA\_SETTLS\_XIDT\_NDPSFI\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_SETTLS\_NDEC\_RW2TLFF\_RFRIC\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_SETTLS\_NDEC\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_FLT\_IOSV\_TL798S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_SETTLS\_NDEC\_TL030S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_SLT\_IOSV\_TL798S.pjob,  
GM\_FCTI\_HYD\_SL2\_VFE\_ARPPHYISBA\_SLT\_REST\_TL798S.pjob, GM\_FCTI\_HYD\_SL3\_VFD\_ADIAB\_TL030S.pjob,

GM\_FCTI\_HYD\_SL3\_VFD\_ARPPHYISBA\_TL030S.pjob, GM\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_SI\_TL030S.pjob, GM\_FCTI\_NHE\_EUL\_VFD\_ARPPHYISBA\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_EUL\_VFD\_ARPPHYISBA\_SI\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_SI\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_SI\_TL030S.pjob,  
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GM\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GWADV1\_PCF\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL2\_VFD\_ARPPHYISBA\_GWADV2\_PCC\_TL030S.pjob,  
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GM\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV2\_PCC\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_TL030S.pjob,  
GM\_FCTI\_NHE\_SL3\_VFD\_ARPPHYISBA\_RDBBC1\_TL030S.pjob, GM\_FPIN\_HYD\_GPLALON\_ARPPHYISBA.pjob,  
GM\_FPIN\_NHE\_GPLALON\_ARPPHYISBA.pjob, GM\_FPMF\_HYD\_GPLALON\_CPRD.pjob,  
GM\_FPMF\_HYD\_GPLALON\_INRD.pjob, GM\_FPOF\_HYD\_GPGAUSS.pjob,  
GM\_FPOF\_HYD\_GPLALON\_ARPPHYISBA.pjob, GM\_FPOF\_HYD\_MODEL.pjob,  
GM\_FPOF\_HYD\_MODEL\_ADDGPQ.pjob, GM\_FPOF\_HYD\_MODEL\_ADDNHVAR.pjob,  
GM\_FPOF\_HYD\_MODEL\_CHANGELEVELS.pjob, GM\_FPOF\_HYD\_SPGAUSS\_H2L.pjob,  
GM\_FPOF\_HYD\_SPGAUSS\_L2H.pjob, GM\_FPOF\_HYD\_SPLELAM\_ARU.pjob,  
GM\_FPOF\_HYD\_SPLELAM\_CIE\_LAM2.pjob, GM\_FPOF\_HYD\_SPLELAM\_COU.pjob,  
GM\_FPOF\_HYD\_SURFLELAM.pjob, GM\_FPOF\_NHE\_GPLALON\_ARPPHYISBA.pjob, GM\_RGRI.pjob,  
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L3\_C601\_HYD\_SL2\_VFD\_VSIPHY\_PGAL.pjob, L3\_C601\_HYD\_SL2\_VFE\_VSIPHY\_PGAL.pjob,  
L3\_C923\_LALON\_FRANX01.pjob, L3\_C923\_LELAM\_FRANCE.pjob, L3\_C923\_LELAM\_LACE.pjob,  
L3\_C923\_LELAM\_REUNION.pjob, L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_AROMALP1300.pjob,  
L3\_FCST\_HYD\_SL2\_VFD\_AROPHYSFEX\_MAD\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCCMADIOS\_AROMALP1300.pjob,



L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCCMAD\_AROMALP1300.pjob,  
L3\_FCST\_NHE\_SL2\_VFD\_AROPHYSFEX\_GWADV2\_PCC\_AROMALP1300.pjob,  
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L3\_FCTI\_DHYD\_SL3\_VFD\_ADIAB\_PGAL.pjob, L3\_FCTI\_DNHE\_EUL\_VFD\_ADIAB\_FROC.pjob,  
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L3\_FCTI\_DNHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.pjob, L3\_FCTI\_HYD\_EUL\_VFD\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_PGAL.pjob, L3\_FCTI\_HYD\_SL2\_VFD\_ADIAB\_SLHD\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL2\_VFD\_ALRPHYSISBA\_OLDLACE.pjob, L3\_FCTI\_HYD\_SL2\_VFE\_ADIAB\_PGAL.pjob,  
L3\_FCTI\_HYD\_SL2\_VFE\_ALRPHYSISBA\_LACE.pjob, L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSISBA\_GRANLMRT.pjob,  
L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSISBA\_TSTDFI\_FRAN.pjob, L3\_FCTI\_HYD\_SL2\_VFE\_ARPPHYSFEX\_FRAN.pjob,  
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L3\_FCTI\_HYD\_SL3\_VFE\_ADIAB\_PGAL.pjob, L3\_FCTI\_NHE\_EUL\_VFD\_ADIAB\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV1\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCC\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_GWADV2\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCC\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC1\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ADIAB\_RDBBC2\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL2\_VFD\_ARPPHYSISBA\_GRANLMRT.pjob,  
L3\_FCTI\_NHE\_SL2\_VFE\_ADIAB\_GWADV1\_PCF\_FROC.pjob,  
L3\_FCTI\_NHE\_SL3\_VFD\_ADIAB\_RDBBC1\_FROC.pjob, L3\_FPIN\_HYD\_MODEL\_ARPPHYSISBA.pjob,  
L3\_FPOF\_HYD\_GPLALON\_LAL.pjob, L3\_FPOF\_HYD\_GPLALON\_OPE2\_ARPPHYSISBA.pjob,  
L3\_FPOF\_HYD\_GPLELAM\_CIE\_LAM1.pjob, L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI1.pjob,  
L3\_FPOF\_HYD\_GPLELAM\_CI\_GRI2.pjob, L3\_FPOF\_HYD\_GPLELAM\_CI\_OPEX.pjob, L3\_FPOF\_HYD\_MODEL.pjob,  
L3\_FPOF\_HYD\_SPLELAM\_ARUNES.pjob, L3\_PGDI\_LELAM\_FRANCE.pjob, profil\_table, z\_GM\_frame.pjob,  
z\_L3\_frame.pjob  
profil\_table

mitraille/protojobs/beaufix

**Modified:**

mitraille/doc

mitraille/namelist

mitraille/namelist\_ref

mitraille/procedure

mitraille/protojobs

doc\_mitraillette.pdf

aainfo, vv\_ddh

aainfo

mitraillette.x

aainfo, config\_CY43T1, config\_CY43T2, config\_CY44, multiheader

mitraille/protojobs/beaufix

config\_CY43T1, config\_CY43T2, config\_CY44, multiheader

**Doc:**

*Bugfix NH-EUL avec PC-FULL.*

*NO NUMERICAL IMPACT IS EXPECTED.*

**Projects:** arpifs

**Git branch:** yessad\_CY43T2\_r3V08cor

**Modified:**

arpifs/adiab

cpeuldyn.F90

arpifs/module

gmv\_subs\_mod.F90