

NEW SOURCE CODE VERSION CY40T1_bf.06

A new bugfix is available for cycle CY40T1 (main pack).

- Source code management :

Git : % git_branch -r 40t1 -b bf [-v 06] -u mybranch

NB : Don't forget to execute « git fetch » in your repository !!

A full external source code pack is available :
hendrix:~martinezs/pub/src/arp/cy40/cy40t1_bf.06.tar.gz

- Compilation :

gmckpack (beaufix) : % gmckpack -r 40t1 -b bf [-v 06] -u mybranch -l IMPI500IFC1301 -o 2w etc...

- Comments :

This pack is a main one. Compiler version and options are the same as it was in cy40t1_bf.05 .

- Documentation :

-- author: MASEK Jan

-- branch: masekj_CY40T1_bf06

-- deleted:

arpifs/phys_dmn/aplpar.F90.old
arpifs/phys_dmn/compute_neb.F90

-- added:

arpifs/phys_dmn/acscctr.F90
arpifs/phys_dmn/aplpar.F90.old

-- modified:

aladin/coupling/ecoupl1.F90
aladin/fullpos/fpfillb.F90
arpifs/adiab/cpg.F90
arpifs/dia/supupdate.F90
arpifs/fullpos/sufpc.F90
arpifs/fullpos/sufpd.F90
arpifs/fullpos/suvpos.F90
arpifs/module/yomphy.F90
arpifs/module/yomphy0.F90
arpifs/module/yomphy1.F90
arpifs/module/yomphy3.F90
arpifs/namelist/namfpc.nam.h
arpifs/namelist/namphy.nam.h
arpifs/namelist/namphy0.nam.h
arpifs/namelist/namphy1.nam.h
arpifs/namelist/namphy3.nam.h
arpifs/namelist/namxfu.nam.h
arpifs/phys_dmn/ac_cloud_model2.F90
arpifs/phys_dmn/accdev.F90
arpifs/phys_dmn/accvud.F90
arpifs/phys_dmn/acdifv2.F90
arpifs/phys_dmn/acdifv3.F90
arpifs/phys_dmn/acmrip.F90
arpifs/phys_dmn/acnebn.F90
arpifs/phys_dmn/acnpart.F90
arpifs/phys_dmn/acraneb.F90
arpifs/phys_dmn/acraneb2.F90
arpifs/phys_dmn/acraneb_coefs.F90
arpifs/phys_dmn/acraneb_solvs.F90
arpifs/phys_dmn/actkecls.F90
arpifs/phys_dmn/actkehmt.F90
arpifs/phys_dmn/apl_arome.F90
arpifs/phys_dmn/aplmini.F90
arpifs/phys_dmn/aplmphys.F90
arpifs/phys_dmn/aplpar.F90
arpifs/phys_dmn/compute_neb.F90
arpifs/phys_dmn/mf_phys.F90
arpifs/phys_dmn/suphy0.F90
arpifs/phys_dmn/suphy1.F90
arpifs/phys_dmn/suphy3.F90

arpifs/phys_radi/rrtm_rtrnla_140gp.F90
arpifs/pp_obs/apache.F90
arpifs/pp_obs/ppobsac.F90
arpifs/setup/su0phy.F90
arpifs/setup/su_surf_flds.F90
arpifs/setup/suafn2.F90
odb/pandor/module/bator_init_mod.F90
odb/pandor/module/bator_modulē.F90
odb/pandor/module/bator_util_mod.F90
utilities/pinuts/module/fa_cadre_mod.F90

-- doc:

ALADIN/ALAR0 fixes for cy40t1_bf06

Brief description:

This modset contains ALAR0-1 version B modifications backphased from cy43t2 to cy40t1_bf5. All ALAR0-1 changes are related to TOUCANS turbulence (including new screen level interpolation) and ACRANE2 radiation. Recent CSD developments of L. Gerard phased to cy43t2 are not included. The modset is extended by bunch of bugfixes collected by M. Derkova (ACNA), that were reported by ALADIN and HIRLAM people after cy40t1_bf05 export.

Content:

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- 1) new mass flux type of shallow convection
(R. Brozkova)
 - 2) exponential-random cloud overlap in radiation, microphysics and diagnostics
(J. Masek)
 - latitude and season dependent decorrelation depth based on the work of Oreopoulos et al. 2012
 - possibility to scale decorrelation depth in diagnostics by factor RDECRDRED
 - 3) improved sunshine duration and direct solar flux at the surface
(J. Masek)
 - to be further refined according to proposal of P. Raisanen
 - 4) new screen level interpolation in stable conditions (TOUCANS only)
(M. Dian)
 - 5) removed incorrect protection of wind shear in subroutine ACDIFV2
(R. Brozkova)
 - this fix is forgotten in cy43t2!
 - 6) cleaned version of subroutine ACDIFV3 (TOMs solver in TOUCANS)
(P. Smerkol)
 - 7) fixes collected by ACNA
(M. Derkova)

Contributors: M. Derkova (ACNA), J. Masek, plus many others

GIT branch: masekj_CY40T1_bf06

Base cycle: cy40t1_bf05

Target cycle: cy40t1_bf06

Detailed description of changes:

aladin/coupling/ecoupl1.F90

Fixed erroneous pointer when calling coupling (ISWAP=2).

(U. Andrae)

aladin/fullpos/fpfillb.F90

Fix of LELAM off-line fullpos for Tmin/Tmax (doubled values).

(R. El Khatib)

arpifs/adiab/cpg.F90

Fixed problem in CPG for stochastic physics scheme.

(Ch. Wittmann, M. Bellus)

arpifs/dia/supupdate.F90

Correct time stamp in FA for sub-hourly output.

(HIRLAM, P. Marguinaud)

arpifs/fullpos/sufpc.F90

Using the biperiodicization of Boyd.

(R. El Khatib)

arpifs/fullpos/sufpd.F90

Protect Boyd biperiodicization with different resolutions along the two directions.

(R. El Khatib)

arpifs/fullpos/suvpos.F90

Fix for post-processed fields on isothermic level.

(R. El Khatib)

arpifs/module/yomphy.F90

Introduction of variables LRNUEXP (exponential-random cloud overlap), LRTRUEBBC and LRTRUEDIR (true direct solar flux in BBC and diagnostics).

arpifs/module/yomphy0.F90

Introduction of variables RDECRD1 to RDECRD4, RDECRDRED (tuning of exponential-random cloud overlap) and HUCREDRA (reduction of critical relative humidity in radiation).

arpifs/module/yomphy1.F90

Introduction of variables LCLS_HS, ACLS_HS (new screen level interpolation in stable conditions).

arpifs/module/yomphy3.F90

Introduction of variables RMIXD and RMIXP0 (tunable bracketing in ACRANE2).

arpifs/namelist/namfpc.nam.h

Added variable FPRHMAX.

arpifs/namelist/namphy.nam.h

Introduction of variables LRNUEXP (exponential-random cloud overlap),

LRTRUEBBC and LRTRUEDIR (true direct solar flux in BBC and diagnostics).

arpifs/namelist/namphy0.nam.h

Introduction of variables RDECRD1 to RDECRD4, RDECRDRED (tuning of exponential-random cloud overlap) and HUCREDRA (reduction of critical relative humidity in radiation).

arpifs/namelist/namphy1.nam.h

Added variables LCLS_HS, ACLS_HS (new screen level interpolation in stable conditions).

arpifs/namelist/namphy3.nam.h

Introduction of variables RMIXD and RMIXP0 (tunable bracketing in ACRANEB2).

arpifs/namelist/namxfu.nam.h

Added variable LGUSTBYPOS.

arpifs/phys_dmn/ac_cloud_model2.F90

Modified interface, added unscaled extinction coefficient of ice (PEOSIDIR) and liquid (PEOSLDIR) clouds.

arpifs/phys_dmn/accdev.F90

Modified interface, new argument PDECRD (varying decorrelation depth for exponential-random cloud overlap) passed to APLMPHYS.

arpifs/phys_dmn/accvud.F90

Modified interface, new argument PDECRD (varying decorrelation depth for exponential-random cloud overlap) passed to APLMINI.

arpifs/phys_dmn/acdifv2.F90

Removed incorrect protection of shear term.

arpifs/phys_dmn/acdifv3.F90

Cleaning and complete rewriting of subroutine.

arpifs/phys_dmn/acmrip.F90

Modified interface needed for newly implemented mass flux type of non-precipitating convection.

arpifs/phys_dmn/acnebn.F90

New tuning of the critical saturation deficit for radiative cloudiness.

arpifs/phys_dmn/acnpart.F90

Modified interface, subroutine rewritten in a modular way. Unified use from APLPAR and APL_AROME.

arpifs/phys_dmn/acraneb.F90

Tunable bracketing in autoevaluation case.

arpifs/phys_dmn/acraneb2.F90

Modified interface, new arguments PDECRD, PCLCT and PSDUR. Implementation of exponential-random cloud overlap, true direct solar flux and new calculation of sunshine duration. Modified calls to AC_CLOUD_MODEL2, ACRANEB_COEFS and ACRANEB_SOLVS.

arpifs/phys_dmn/acraneb_coefs.F90

Modified interface, new arguments PEOSIUN, PEOSNUN, PEOSAUN, PA1CUN, PA1NUN. Calculation of quantities for true direct solar flux.

arpifs/phys_dmn/acraneb_solvs.F90

Modified interface, new arguments PCLCT, PFRSOPS_C, PFRSOPS_CUN, PA1CUN, PA1NUN, PFPCUN and PFPNUN. Separate calculation of the true direct solar

flux in clearsky and cloudy parts of gridbox, needed for correct evaluation of sunshine duration.

arpifs/phys_dmn/acscctr.F90

New subroutine calculating mass flux type updraught for shallow convection.

arpifs/phys_dmn/actkecls.F90

Modified interface, argument PDPHI dimensioned (KLON,KLEV).

New 2m interpolation in stable conditions under key LCLS_HS.

Correct interpolation when lowest model level is below observation height.

arpifs/phys_dmn/actkehmt.F90

Local array ZDPHI dimensioned (KLON,KLEV), initialized on model levels and passed to ACTKECLS.

arpifs/phys_dmn/apl_arome.F90

Modified interface, new argument PSDUR. Implementation of exponential-random cloud overlap in diagnostics (COMPUTE_NEB replaced by ACNPART) and in ACRANEB2 radiation. Proper calculation of sunshine duration in ACRANEB2. Fix for ACRANEB2 with SURFEX.

arpifs/phys_dmn/aplmini.F90

Modified interface, new argument PDECRD (decorrelation depth for exponential-random cloud overlap) replacing constant value RDECRD.

arpifs/phys_dmn/aplmpphys.F90

Modified interface, new argument PDECRD (decorrelation depth for exponential-random cloud overlap) replacing constant value RDECRD.

arpifs/phys_dmn/aplpar.F90

Calculation of varying decorrelation depth for exponential-random cloud overlap in microphysics, ACRANEB2 radiation and diagnostics. Proper calculation of sunshine duration in ACRANEB2. Dataflow changes needed for the new mass flux type parameterization of shallow convection. Modified calls to ACMRIP, ACRANEB2, ACNPART, ACCDEV, ACCVUD and APLMPHYS. Call of ACNPART moved before second call of ACRANEB2. Removed forgotten lines increasing protected convective cloudiness by shallow part coming from turbulence (TOUCANS only).

arpifs/phys_dmn/compute_neb.F90

Subroutine COMPUTE_NEB in APL_AROME was replaced by ACNPART, since it was duplicating cloud overlap computation.

arpifs/phys_dmn/mf_phys.F90

Passing of sunshine duration to APL_AROME.

arpifs/phys_dmn/suphy0.F90

Setting default values of the new namelist variables RDECRD1 to RDECRD4, RDECDRED and HUCREDRA.

arpifs/phys_dmn/suphy1.F90

New variables LCLS_HS and ACLS_HS for screen level interpolation under TOUCANS.

arpifs/phys_dmn/suphy3.F90

Setting default values of the new namelist variables RMIXD and RMIXP0.

arpifs/phys_radi/rrtm_rtrnla_140gp.F90

Fixed out of bound problem in RRTM.
(HIRLAM)

arpifs/pp_obs/apache.F90

Fixed fullpos interpolation inconsistency of relative humidity.
(HIRLAM, R. El Khatib)

arpifs/pp_obs/ppobsac.F90
Call ACTKEHMT instead of ACHMT for ALARO-1 surface canari (LCOEFKSURF).

arpifs/setup/su0phy.F90
Setting default values of the new namelist variables LRNUEXP, LRTRUEBBC
and LRTRUEDIR.

arpifs/setup/suafn2.F90
Fix for post-processed fields on isothermic level.
(R. El Khatib)

arpifs/setup/su_surf_flds.F90
Sunshine duration initialized also for AROME.

odb/pandor/module/bator_init_mod.F90
odb/pandor/module/bator_module.F90
odb/pandor/module/bator_util_mod.F90
Bugfix for internal date/time check in bator (not ported to cy43).
(HIRLAM)

utilities/pinuts/module/fa_cadre_mod.F90
Fix for frodo (pinuts) reading historical files.
(J. Vivoda, differently as P. Marguinaud)

Validation:

Modset was validated with respect to cy40t1_bf05 reference, using
12 hour integrations on ALADIN/CHMI domain (dx = 4.7km, 87 levels,
dt = 180s).

ALARO-0 baseline version:

Spectral norms of ALARO-0 baseline configuration are bit identical
to cy40t1_bf05 reference.

ALARO-1 version A:

Modifications in turbulence and radiation prevent bit reproducibility
with respect to cy40t1_bf05. After fixing TOUCANS related bug in APLPAR,
spectral norms after 2h integration can differ on 3rd decimal place.
Meteorological impact is weak anyway and the corectness of results
is ensured by visual comparison of fields with local CHMI reference
cy38t1tr_op6.

ALARO-1 version B:

This newly introduced configuration works technically. Visual comparison
of cloudiness, cumulated precipitation and T2m fields against local CHMI
reference cy38t1tr_op6 shows reasonable agreement after 12 hour forecast.

AROME:

Spectral norms are bit identical with respect to cy40t1_bf05 reference.
Gridpoint norms of cloudiness (SURFNEBUL*, ATMONEBUL*) differ on 9-10th
decimal place due to subroutine COMPUTE_NEB replaced by more general
subroutine ACNPART. This slight difference influences only diagnostic
cloudiness and has no impact on model integration.

- Available binaries on beaufix (BULL) :

Mon Jan 16 14:54:27 2017	6181773	al40t1_blendsur-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:53 2017	6184312	al40t1_chklimits-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:50:40 2017	6369937	al40t1_surfmix-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:50:43 2017	805123	cpl40t1_gpcou-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:46 2017	172055569	cy40t1_master-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:55:23 2017	337427781	cy40t1_masterodb-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:52:35 2017	1746494	cy40t1_mrgvarbc-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:50:24 2017	27247320	ms40t1_oimain-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:51:55 2017	29212250	ms40t1_pgd-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:50:37 2017	37227442	ms40t1_prep-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:12 2017	36180490	ms40t1_sfxtools-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:53:01 2017	164883529	od40t1_bator-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:55:34 2017	161703424	od40t1_compress-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:51:36 2017	163660034	od40t1_fcqodb-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:50:47 2017	413586	od40t1_ioassign-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:53:17 2017	163429941	od40t1_mandalay-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:52:08 2017	164461789	od40t1_tools-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:53:35 2017	1036708	st40t1_25to50-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:30 2017	28987	st40t1_buf-r-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:51:01 2017	37582	st40t1_dcneqc-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:52:14 2017	1230321	st40t1_filter-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:57 2017	5913834	ta40t1_eatstpro-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:50 2017	2132578	ta40t1_etestadj-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:52:21 2017	2027180	tf40t1_atstprog-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:15 2017	1366386	tf40t1_rgrid-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:51:44 2017	2481178	tf40t1_testadj-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:50:54 2017	4153472	ut40t1_911-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:51:08 2017	5684127	ut40t1_addzoaer-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:50:28 2017	5887111	ut40t1_addsurf-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:00 2017	5386287	ut40t1_cloud-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:23 2017	6232067	ut40t1_combi-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:53:57 2017	25949	ut40t1_dategrib-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:53:52 2017	4833663	ut40t1_gobptout-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:53:29 2017	7728570	ut40t1_inversion-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:51:04 2017	744424	ut40t1_lectbdap-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:53:46 2017	6371961	ut40t1_pinuts-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:03 2017	4724056	ut40t1_progrid-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:52:43 2017	50490	ut40t1_sstnetcdf-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:55:02 2017	3673257	xr40t1_ddhc-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:54:07 2017	1046945	xr40t1_ddhr-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:52:27 2017	1087037	xr40t1_ddht-bf.06	IMPI500IFC1301.2w.exe
Mon Jan 16 14:50:58 2017	7571968	xr40t1_lfitools-bf.06	IMPI500IFC1301.2w.exe

NEW SOURCE CODE VERSION CY40T1_bf.07

A new bugfix is available for cycle CY40T1 .

- Source code management :

Git : % git_branch -r 40t1 -b bf [-v 07] -u mybranch

NB : Don't forget to execute « git fetch » in your repository !!

A full external source code pack is available :
hendrix:~martinezs/pub/src/arp/cy40/cy40t1_bf.07.tar.gz

- Compilation :

gmckpack (beaufix) : % gmckpack -r 40t1 -b bf [-v 07] -u mybranch -l IMPI500IFC1301 -o 2w etc...

- Comments :

None

- Documentation :

-- author: MASEK Jan

-- branch: masekj_CY40T1_bf06

-- added:

README

-- modified:

arpifs/module/elbc0b_mod.F90

-- doc:

- 1) Fixed bug in options LQCPL (quadratic coupling) and LCCPL (cubic coupling).
- 2) Added README file with description of cy40t1_bf06 modset.

- Available binaries on beaufix (BULL) :

Mon	Jan	16	14:54:27	2017	6181773	al40t1_blendsur-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:54:53	2017	6184312	al40t1_chklimits-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:50:40	2017	6369937	al40t1_surfmix-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:50:43	2017	805123	cpl40t1_gpcou-bf.06.IMPI500IFC1301.2w.exe
Tue	Mar	07	15:22:39	2017	172058125	cy40t1_master-bf.07.IMPI500IFC1301.2w.exe
Tue	Mar	07	15:23:20	2017	337430521	cy40t1_masterodb-bf.07.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:52:35	2017	1746494	cy40t1_mrgvarbc-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:50:24	2017	27247320	ms40t1_oimain-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:51:55	2017	29212250	ms40t1_pgd-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:50:37	2017	37227442	ms40t1_prep-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:54:12	2017	36180490	ms40t1_sfxtools-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:53:01	2017	164883529	od40t1_bator-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:55:34	2017	161703424	od40t1_compress-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:51:36	2017	163660034	od40t1_fcqodb-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:50:47	2017	413586	od40t1_ioassign-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:53:17	2017	163429941	od40t1_mandalay-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:52:08	2017	164461789	od40t1_tools-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:53:35	2017	1036708	st40t1_25to50-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:54:30	2017	28987	st40t1_buf-r-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:51:01	2017	37582	st40t1_dcneqc-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:52:14	2017	1230321	st40t1_filter-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:54:57	2017	5913834	ta40t1_eatstpro-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:54:50	2017	2132578	ta40t1_etestadj-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:52:21	2017	2027180	tf40t1_atstprog-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:54:15	2017	1366386	tf40t1_rgrid-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:51:44	2017	2481178	tf40t1_testadj-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:50:54	2017	4153472	ut40t1_911-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:51:08	2017	5684127	ut40t1_addzoaer-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:50:28	2017	5887111	ut40t1_addsurf-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:54:00	2017	5386287	ut40t1_cloud-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:54:23	2017	6232067	ut40t1_combi-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:53:57	2017	25949	ut40t1_dategrib-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:53:52	2017	4833663	ut40t1_gobptout-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:53:29	2017	7728570	ut40t1_inversion-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:51:04	2017	744424	ut40t1_lectbdap-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:53:46	2017	6371961	ut40t1_pinuts-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:54:03	2017	4724056	ut40t1_progrid-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:52:43	2017	50490	ut40t1_sstnetcdf-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:55:02	2017	3673257	xr40t1_ddhc-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:54:07	2017	1046945	xr40t1_ddhr-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:52:27	2017	1087037	xr40t1_ddht-bf.06.IMPI500IFC1301.2w.exe
Mon	Jan	16	14:50:58	2017	7571968	xr40t1_lfitools-bf.06.IMPI500IFC1301.2w.exe