

Inca et SVN

IncaHowTo
28 janvier 2016

Subversion (SVN) - a version control software

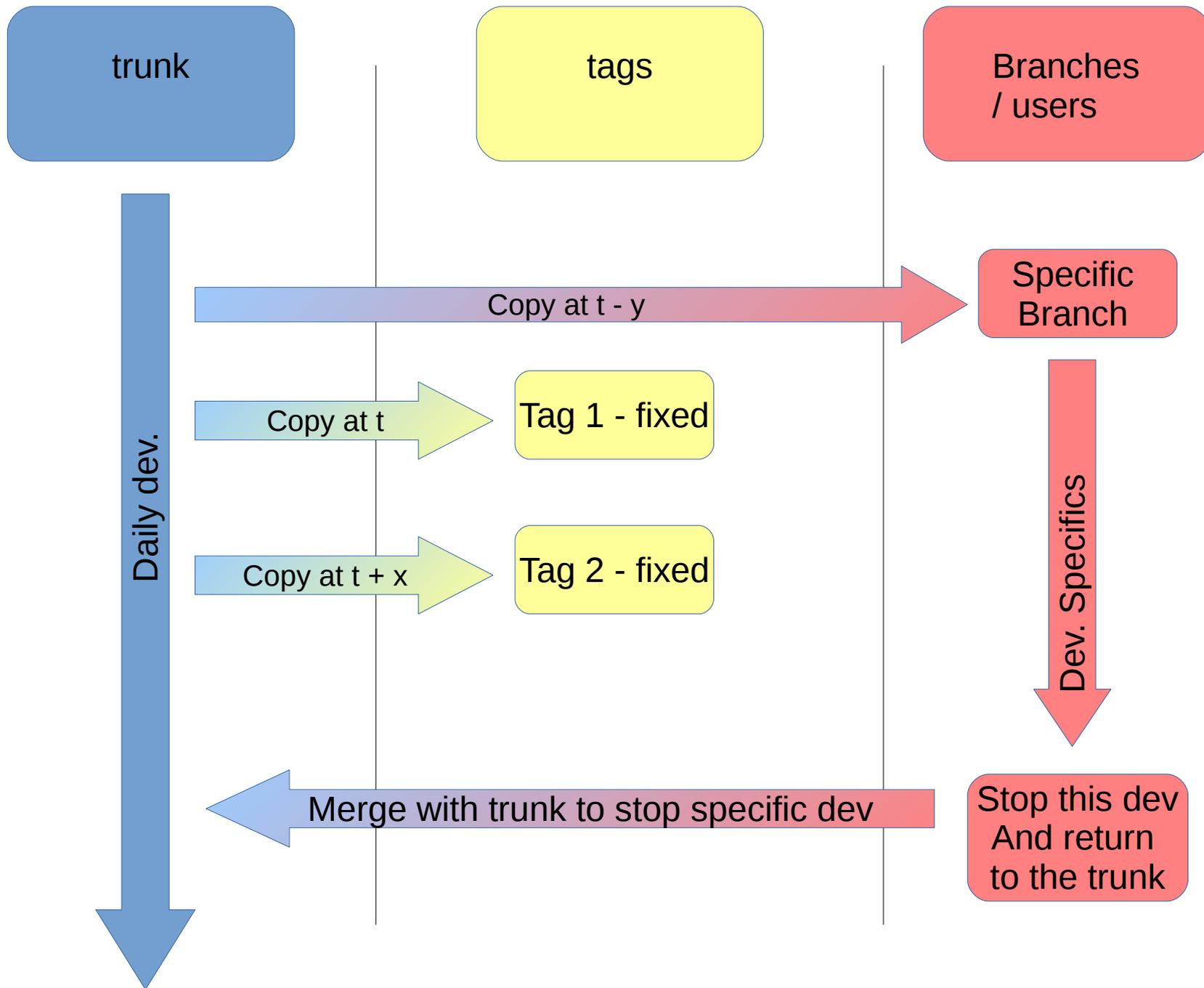
- Keep track of changes done over the time
- Backup and store all previous versions
- Diffusion of public versions of INCA (“tags and trunk”)

- Centralize all existing developments done in INCA
- Makes it easier to work in a group on the same version and exchange developments (“branches”) before inclusion in the main version
- Archive the work done by phd-students, post-doc, researchers,.. (stored in “users” folder)

Different versions of INCA on SVN

Base repository(depot) <svn://forge.ipsl.jussieu.fr/inca>

- trunk Standard version. Regularly updates with bug corrections and new developments
To be used with precaution. Not fully validated.
<https://forge.ipsl.jussieu.fr/inca/browser/trunk>
- tag A copy of the trunk for a specific revision.
Validation done. Latest tag INCA5.1.2
<https://forge.ipsl.jussieu.fr/inca/browser/tags>
- branches Modifications for a specific development.
A branch should start from a copy of the trunk
- users Folder for personal versions.
Ask for help to initialize your folder.
Ask for a login on forge



Basic use of SVN

svn co repository : Extract a directory and its sub-directories.
Add « -r rev » for a specific revision.

Example : Extract latest revision of tag INCA5.1.2 :

```
> svn co svn://forge.ipsl.jussieu.fr/inca/svn/tags/INCA5.1.2 MyINCA
```

Example : Extract revision 485 of trunk :

```
> svn co -r 485 svn://forge.ipsl.jussieu.fr/inca/svn/trunk/INCA5  
MyINCA
```

Note : The script « model » in modipsl extracts INCA, LMDZ and ORCHIDEE and all tools needed for a specific configuration. Example :

```
> svn co http://forge.ipsl.jussieu.fr/igcmg/svn/modipsl/trunk modipsl  
> cd modipsl/util  
> ./model LMDZORINCA_v6
```

The model will now be installed in modipsl/modeles/INCA.

Basic use of SVN

svn info : Information will be printed on the screen about extracted version

Example :

```
> cd modips1/modeles/INCA
> svn info
Path: .
URL: http://forge.ips1.jussieu.fr/inca/svn/tags/INCA5.1.2
Repository Root: http://forge.ips1.jussieu.fr/inca/svn
Repository UUID: dc8988e9-b232-0410-ba9d-85c4b96cce30
Revision: 487
Node Kind: directory
Schedule: normal
Last Changed Author: acosce
Last Changed Rev: 480
Last Changed Date: 2016-01-07 11:03:01 +0100 (Thu, 07 Jan 2016)
```

In this example the version of INCA is tags/INCA5.1.2 and the revision is 487. You can also see that no changes for this subdirectory are done since revision 480 which is the latest modified revision.

Basic use of SVN

svn stat / svn status : To know which files have been modified compared to extracted version

```
> svn stat
?      arch.fcm
?      config
?      arch.path
M      src/INCA_SRC/mkdvel.F90
M      src/INCA_SRC/ub_inti.F90
M      src/INCA_SRC/mksflx.F90
M      src/INCA_SRC/adjh2o.F90
```

```
> svn help stat
'A' Added
'C' Conflicted
'D' Deleted
'M' Modified
'?' item is not under version control
'!' item is missing
* a newer revision exists on the server
```

svn -u stat : Compared to latest version on the server

```
> svn -u status
Password:
?      INP/inca_NMHC_AER.inp
*      INP/inca_DUSS.def
?      INP/inca_AER.inp
*      486      INP
M      *      486      src/INCA_MOD/pht_tables_mod.F90
*      486      src/INCA_MOD/aerosol_mod.F90
!      486      src/INCA_MOD/surf_data_mod.F90
```

Basic use of SVN

svn diff : Show difference compare to extracted version

Example :

```
> svn diff src/INCA_MOD/chem_mod.F90
```

```
Index: src/INCA_MOD/chem_mod.F90
```

```
=====
=
--- src/INCA_MOD/chem_mod.F90 (revision 486)
+++ src/INCA_MOD/chem_mod.F90 (working copy)
@@ -98,7 +98,7 @@
     REAL, SAVE, ALLOCATABLE           :: nas(:, :, :)    ! non-advected
species( mmr )
# else
    REAL, SAVE           :: nadv_mass(no_size)
-   REAL, SAVE           :: nas(1)                ! place holder
+   REAL, SAVE           :: nas(no_size)          ! place holder
# endif
!$OMP THREADPRIVATE(nadv_mass)
!$OMP THREADPRIVATE(nas)
```

Lines starting with “+” are added in the local version (also called working copy).

Lines starting with “-” are removed.

Basic use of SVN

`svn update` : Update working copy with the latest revision on the server

Updates only with changes on the same branch (the directory and it's sub-directories)

Local changes will be kept. Conflicts can occur if the same file is modified locally and on the server

Changes are done only in the local working directory

Example :

If you extracted a tag or a branch, changes done on the trunk will not be added in your directory.

If there is a conflict on a file, type p for postpone. svn will then save your modifications in a separate file. The file without modifications is also saved in your directory.

Commit to svn

Extract in admin mode :

```
> svn co
```

```
svn+ssh://login@forge.ipsl.jussieu.fr/ipsl/forge/projets/inca/svn/  
trunk/INCA5
```

- svn add newfile.f90** Put files and/or directories under version control. They will be added in next commit
- svn rm file.f90** The file will be removed locally and the file is scheduled to be removed from the svn repository in next commit.
- svn commit / svn ci** Commit all changes in the directory to the server. The revision number is increased. This command should be done from directory INCA

Best practice for commit

- Add a log message to each commit
- Do whole INCA source directory in each commit, avoid to commit file by file
- If you are several to work on a branch, discuss with the other people before commit
- make all test before to commit, and work with the last revision version.



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Welcome to INCA Wiki page

(Auteur : Anne Cozic)

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Premiers pas avec modipls : => **Installation de modipls**

Note technique sur INCA

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Les configurations utilisant le modèle INCA

- => [LMDZORINCA](#)
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Last Change Revision Log

source:

Visit: View revision: View diff against:

Name	Size	Rev	Age	Author	Last Change
branches		430	7 months	acosce	oubli de clef cpp pour une compilation en AER
tags		500	12 days	acosce	change name of inca output files (without xios in the name)
trunk		504	2 days	acosce	mise a jour des variables sorties en fonction de la configuration utilisee
users		477	5 months	acosce	import des experiences de Richard

view changes...

Note: See TracBrowser for help on using the repository browser.

Visit the Trac open source project at http://trac.edgewall.com/


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Last Change Revision Log

source: trunk / INCA5 / src / INCA_SRC

Visit: View revision: View diff against:

Name	Size	Rev	Age	Author	Last Change
../					
ac_sulf.F90	5.1 KB	336	16 months	acosce	Nouvelle version du modele inca incluant pour la chimie les nitrates A ...
adjh2o.F90	4.3 KB	488	3 weeks	acosce	Menage dans le code pour supprimer definitivement la clef cpp CH4 et des ...
aerosol_ini.F90	5.2 KB	489	2 weeks	acosce	Modification pour la creation d'une nouvelle configuration DUSS = DUST + ...
aerosol_meteo_calc.F90	21.2 KB	488	3 weeks	acosce	Menage dans le code pour supprimer definitivement la clef cpp CH4 et des ...
aerosol_mode_properties.F90	5.6 KB	336	16 months	acosce	Nouvelle version du modele inca incluant pour la chimie les nitrates A ...
aerosolmain.F90	8.2 KB	489	2 weeks	acosce	Modification pour la creation d'une nouvelle configuration DUSS = DUST + ...
airpl_src.F90	6.3 KB	488	3 weeks	acosce	Menage dans le code pour supprimer definitivement la clef cpp CH4 et des ...
bcpomsource.F90	5.8 KB	489	2 weeks	acosce	Modification pour la creation d'une nouvelle configuration DUSS = DUST + ...
bl_for_dms.F90	5.6 KB	336	16 months	acosce	Nouvelle version du modele inca incluant pour la chimie les nitrates A ...
calendar.F90	23.3 KB	336	16 months	acosce	Nouvelle version du modele inca incluant pour la chimie les nitrates A ...
ccnaer.F90	5.5 KB	489	2 weeks	acosce	Modification pour la creation d'une nouvelle configuration DUSS = DUST + ...
chem_hook.F90	13.8 KB	489	2 weeks	acosce	Modification pour la creation d'une nouvelle configuration DUSS = DUST + ...
chem_intl.F90	8.6 KB	403	8 months	acosce	Mise a jour des barrieres omp et des appels a xios pour corriger un bug ...
chem_time.F90	5.1 KB	403	8 months	acosce	Mise a jour des barrieres omp et des appels a xios pour corriger un bug ...
chemini.F90	11.6 KB	489	2 weeks	acosce	Modification pour la creation d'une nouvelle configuration DUSS = DUST + ...
chemmain.F90	23.6 KB	489	2 weeks	acosce	Modification pour la creation d'une nouvelle configuration DUSS = DUST + ...
chimieaq.F90	11.6 KB	489	2 weeks	acosce	Modification pour la creation d'une nouvelle configuration DUSS = DUST + ...
cloud_mod.F90	7.6 KB	336	16 months	acosce	Nouvelle version du modele inca incluant pour la chimie les nitrates A ...
conf_chem.F90	5.3 KB	408	8 months	acosce	Mise a jour des noms de parametres pour les vents a 10m
diag.F90	6.1 KB	489	2 weeks	acosce	Modification pour la creation d'une nouvelle configuration DUSS = DUST + ...
diurnal_geom.F90	6.9 KB	336	16 months	acosce	Nouvelle version du modele inca incluant pour la chimie les nitrates A ...
drydep.F90	5.1 KB	385	12 months	acosce	Commit pour pouvoir compiler et tourner en NMHC seul
dustecmwf.F90	5.6 KB	336	16 months	acosce	Nouvelle version du modele inca incluant pour la chimie les nitrates A ...
dustsource.F90	15.7 KB	408	8 months	acosce	Mise a jour des noms de parametres pour les vents a 10m
dvel_intl.F90	8.8 KB	488	3 weeks	acosce	Menage dans le code pour supprimer definitivement la clef cpp CH4 et des ...
	9.6 KB	488	3 weeks	acosce	Menage dans le code pour supprimer definitivement la clef cpp CH4 et des ...



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Wiki Timeline Roadmap Browse Source View Tickets New Ticket Search

View Latest Revision

source: trunk / INCA5 / src / INCA_SRC / chemini.F90

Added Modified Copied or renamed

View changes

Revision Log Mode:

- Stop on copy
- Follow copies
- Show only adds and deletes

View log starting at 504 and back to

Show at most 100 revisions per page.

Show full log messages

Update

Diff	Rev	Age	Author	Log Message
	@489	2 weeks	acosce	Modification pour la creation d'une nouvelle configuration DUSS = DUST + ...
	@488	3 weeks	acosce	Menage dans le code pour supprimer definitivement la clef cpp CH4 et des ...
	@484	2 months	acosce	remplace DUSS par DUST et SS / CNO3 par DNO3 et SNO3 ajoute une dimension ...
	@403	8 months	acosce	Mise a jour des barrieres omp et des appels a xios pour corriger un bug ...
	@387	12 months	acosce	Modif pour corriger le bug sur time_counter dans les sorties netcdf
	@379	12 months	acosce	Add a routine print_err to replace stop by message Add an argument to ...
	@378	12 months	acosce	Add two flag to manage output in inca : xios_inca_ok and lolpsl_inca_ok ...
	@377	13 months	acosce	modification du code pour que la version "aerosols only" puisse tourner ...
	@373	14 months	acosce	Merge avec INCA_XIOS rev 348 to 365
	@344	16 months	acosce	mise a jour pour la parallelisation openmp
	@336	16 months	acosce	Nouvelle version du modele inca incluant pour la chimie les nitrates A ...

View changes

Note: See TracRevisionLog for help on using the revision log.

Download in other formats: RSS Feed ChangeLog

Unmodified
 Added
 Removed

trunk/INCA5/src/INCA_SRC/chemini.F90

Tabular Unified

r387	r489	
80	80	USE CHEM_CONS
81	81	USE CHEM_TRACNM
82	82	USE TIMING
83	82	USE INCA_DIM
84	83	use param_chem, only : ioipsl_inca_ok
...	...	
141	140	REAL :: ini_heure
142	141	
143	143	timertot = TSECND()
144	142	!
145	143	! Initialisation de xios
146	144	!
147	147	!\$OMP BARRIER
148	148	
149	149	
150	150	
151	145	call conf_chem()
152	146	
...	...	
165	159	
166	160	#endif
167	167	!\$OMP BARRIER
168	161	
169	162	!-----
...	...	
225	218	!-----
226	219	!DH call DIAGS_INTI(solsym)
220	220	#ifndef DUSS
227	221	# if CLSCNT4 != 0
228	222	!-----
...	...	
231	225	call IMP_SLV_INTI()
232	226	# endif
233	233	
227	227	#endif
234	228	unit = NAVU()
235	229	
...	...	
257	251	! ... Read time-dependent surface flux dataset
258	252	!-----
253	253	#ifndef DUSS
259	254	CALL SFLX_INTI ('sflx.nc')
260	255	#ifdef GES
...	...	
264	259	CALL NPP_INTI ('npp.nc')
265	260	
261	261	#endif



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← Previous Revision Latest Revision Next Revision Blame Revision Log

source: trunk / INCA5 / src / INCA_SRC / ccnaer.F90 @ 489

Visit: View revision: 489 View diff against:

Last change on this file since 489 was 489, checked in by acosce, 2 weeks ago

Modification pour la creation d'une nouvelle configuration DUSS = DUST + SS (clefs CPP actives : DUSS + AER + AERONLY)

File size: 5.5 KB

```

Line
1  ! $Id: ccnaer.F90 147 2009-11-20 13:29:01Z acosce $
2  !! =====
3  !! INCA - Interaction with Chemistry and Aerosols
4  !!
5  !! Copyright Laboratoire des Sciences du Climat et de l'Environnement (LSCE)
6  !! Unite mixte CEA-CNRS-UVSQ
7  !!
8  !! Contributors to this INCA subroutine:
9  !!
10 !! Michael Schulz, LSCE, Michael.Schulz@cea.fr
11 !! Anne Cozic, LSCE, anne.cozic@lsce.ipsl.fr
12 !!
13 !! This software is a computer program whose purpose is to simulate the
14 !! atmospheric gas phase and aerosol composition. The model is designed to be
15 !! used within a transport model or a general circulation model. This version
16 !! of INCA was designed to be coupled to the LMDz GCM. LMDz-INCA accounts
17 !! for emissions, transport (resolved and sub-grid scale), photochemical
18 !! transformations, and scavenging (dry deposition and washout) of chemical
19 !! species and aerosols interactively in the GCM. Several versions of the INCA
20 !! model are currently used depending on the envisaged applications with the
21 !! chemistry-climate model.
22 !!
23 !! This software is governed by the CeCILL license under French law and
24 !! abiding by the rules of distribution of free software. You can use,
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26 !! license as circulated by CEA, CNRS and INRIA at the following URL
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32 !! economic rights, and the successive licensors have only limited
33 !! liability.
34 !!

```

```

80
87  IMPLICIT NONE
88
89  REAL, INTENT(in) :: tr_seri(PLON,PLEV,PCNST)
90  REAL, INTENT(in) :: area(PLON)
91  REAL, INTENT(out) :: ccm(PLON,PLEV,2)
92  !raf
93  REAL, INTENT(in) :: pdel(PLON,PLEV) !delta press across midpoints
94  REAL :: epais
95
96  INTEGER :: i, k, m
97
98  DO i=1,PLON
99  DO k=1,PLEV
100  ! total CCN aerosol mass
101  #ifndef DUSS
102  ccm(i,k,1)=tr_seri(i,k,id_ASS04M)+&
103  tr_seri(i,k,id_ASBCM)+&
104  tr_seri(i,k,id_AIBCM)+&
105  tr_seri(i,k,id_ASPOMM)+&
106  tr_seri(i,k,id_AIPOMM)+&
107  tr_seri(i,k,id_ASSSM)
108  #else
109  ccm(i,k,1)=tr_seri(i,k,id_ASSSM)
110  #endif
111
112  ! natural CCN aerosol mass
113  #ifndef DUSS
114  ccm(i,k,2)=tr_seri(i,k,id_ASS04M)*fractnat_allaer(i,id_ASS04M)+ &
115  tr_seri(i,k,id_ASBCM)*fractnat_allaer(i,id_ASBCM)+ &
116  tr_seri(i,k,id_AIBCM)*fractnat_allaer(i,id_AIBCM)+ &
117  tr_seri(i,k,id_ASPOMM)*fractnat_allaer(i,id_ASPOMM)+ &
118  tr_seri(i,k,id_AIPOMM)*fractnat_allaer(i,id_AIPOMM)+ &
119  tr_seri(i,k,id_ASSSM)*fractnat_allaer(i,id_ASSSM)
120  #else
121  ccm(i,k,2)=tr_seri(i,k,id_ASSSM)*fractnat_allaer(i,id_ASSSM)
122  #endif
123  ENDDO
124  ENDDO
125
126
127  !
128  ! We need to convert ccm from Mass mixing ratios to ug/m3
129  !
130  ccm(:,1) = ccm(:,1) * airm(:,1) !kg tracer
131  ccm(:,2) = ccm(:,2) * airm(:,2) !kg tracer
132
133  DO k=1,PLEV
134  ccm(:,k,1) = (ccm(:,k,1)*1.e9) / (area(:)*zheight(:,k)) !ug/m3
135  ccm(:,k,2) = (ccm(:,k,2)*1.e9) / (area(:)*zheight(:,k)) !ug/m3
136  ENDDO
137
138  DO i=1,PLON
139  colmass_solu_aero(i)=0.

```

```

80
87 IMPLICIT NONE
88
89 REAL, INTENT(in) :: tr_seri(PLON,PLEV,PCNST)
90 REAL, INTENT(in) :: area(PLON)
91 REAL, INTENT(out) :: ccm(PLON,PLEV,2)
92 !raf
93 REAL, INTENT(in) :: pdel(PLON,PLEV) !delta press across midpoints
94 REAL :: epais
95
96 INTEGER :: i, k, m
97
98 DO i=1,PLON
99 DO k=1,PLEV
100 ! total CCN aerosol mass
[489] 101 #ifndef DUSS
[336] 102 ccm(i,k,1)=tr_seri(i,k,id_ASS04M)+&
103 tr_seri(i,k,id_ASBCM)+&
104 tr_seri(i,k,id_AIBCM)+&
105 tr_seri(i,k,id_ASPOMM)+&
106 tr_seri(i,k,id_AIPOMM)+&
107 tr_seri(i,k,id_ASSSM)
[489] 108 #else
109 ccm(i,k,1)=tr_seri(i,k,id_ASSSM)
110 #endif
[336] 111
112 ! natural CCN aerosol mass
[489] 113 #ifndef DUSS
[336] 114 ccm(i,k,2)=tr_seri(i,k,id_ASS04M)*fractnat_allaer(i,id_ASS04M)+ &
115 tr_seri(i,k,id_ASBCM)*fractnat_allaer(i,id_ASBCM)+ &
116 tr_seri(i,k,id_AIBCM)*fractnat_allaer(i,id_AIBCM)+ &
117 tr_seri(i,k,id_ASPOMM)*fractnat_allaer(i,id_ASPOMM)+ &
118 tr_seri(i,k,id_AIPOMM)*fractnat_allaer(i,id_AIPOMM)+ &
119 tr_seri(i,k,id_ASSSM)*fractnat_allaer(i,id_ASSSM)
[489] 120 #else
121 ccm(i,k,2)=tr_seri(i,k,id_ASSSM)*fractnat_allaer(i,id_ASSSM)
122 #endif
[336] 123 ENDDO
124 ENDDO
125
126
127 !
128 ! We need to convert ccm from Mass mixing ratios to ug/m3
129 !
130 ccm(:,1) = ccm(:,1) * airm(:,1) !kg tracer
131 ccm(:,2) = ccm(:,2) * airm(:,2) !kg tracer
132
133 DO k=1,PLEV
134 ccm(:,k,1) = (ccm(:,k,1)*1.e9) / (area(:)*zheight(:,k)) !ug/m3
135 ccm(:,k,2) = (ccm(:,k,2)*1.e9) / (area(:)*zheight(:,k)) !ug/m3
136 ENDDO
137
138 DO i=1,PLON
139 colmass_solu_aero(i)=0.

```

Changeset 489

Close

Timestamp: 01/12/16 14:23:37 (2 weeks ago)

Author: acosce

Message: Modification pour la creation d'une nouvelle configuration DUSS = DUST + SS
(clefs CPP actives : DUSS + AER + AERONLY)

Location: trunk/INCA5/src

Files:

26 edited

- [INCA_MOD/aerosol_mod.F90 \(view diffs\)](#)
- [INCA_MOD/drydep_parameters_mod.F90 \(view diffs\)](#)
- [INCA_MOD/obs_profile_mod.F90 \(view diffs\)](#)
- [INCA_SRC/aerosol_ini.F90 \(view diffs\)](#)
- [INCA_SRC/aerosolmain.F90 \(view diffs\)](#)
- [INCA_SRC/bcpomsource.F90 \(view diffs\)](#)
- [INCA_SRC/ccnaer.F90 \(3 diffs\)](#)
- [INCA_SRC/chem_hook.F90 \(view diffs\)](#)
- [INCA_SRC/chemini.F90 \(view diffs\)](#)
- [INCA_SRC/chemmain.F90 \(view diffs\)](#)
- [INCA_SRC/chimieaq.F90 \(view diffs\)](#)
- [INCA_SRC/diag.F90 \(view diffs\)](#)
- [INCA_SRC/gastoparticle.F90 \(view diffs\)](#)
- [INCA_SRC/humgrowth.F90 \(view diffs\)](#)
- [INCA_SRC/imp_slv.F90 \(view diffs\)](#)
- [INCA_SRC/ini_diagnostics.F90 \(view diffs\)](#)
- [INCA_SRC/mkdvel.F90 \(view diffs\)](#)