

Feuille1

Sensitivity tests (sensitivity_test_namelist.tar)				potential temperature initial profile		Large-scale vertical velocity		
Test name	Maximum of sensible heat	Maximum of latent heat	hepfil init	Water vapour mixing ratio initial profil	Wind speed init	Horizontal advection+ r	ew	Only change in
REFERENCE	350	50	Gdient~	Qv0=18	AEJ~400m	Yes	1.5cm/s	
1 F200	200 as REF	as REF	as REF	as REF	as REF	as REF	as REF	flux_conditions_F200.txt
2 Bo1 (Bowen r	200	as REF	200 as REF	as REF	as REF	as REF	as REF	flux_conditions_Bo1.txt
3 Noadv	as REF	as REF	as REF	as REF	as REF	No adv	as REF	tendency_profil_zPthrv_uv_Tq_noadvq.txt
4 Noadvq	as REF	as REF	as REF	as REF	as REF	No advq	as REF	tendency_profil_zPthrv_uv_Tq_noadvq.txt
5 w0	as REF	as REF	as REF	as REF	as REF	as REF	0 cm/s	tendency_profil_zPthrv_uv_Tq_W0.txt
6 w1	as REF	as REF	as REF	as REF	as REF	as REF	1 cm/s	tendency_profil_zPthrv_uv_Tq_W1.txt
7 w2	as REF	as REF	as REF	as REF	as REF	as REF	2 cm/s	tendency_profil_zPthrv_uv_Tq_W2.txt
8 w3	as REF	as REF	as REF	as REF	as REF	as REF	3 cm/s	tendency_profil_zPthrv_uv_Tq_W3.txt
9 noaej	as REF	as REF	as REF	as REF	No AEJ	as REF	1.5cm/s	initial_profil_zPthrv_uv_Tq_noaej.txt
10 stabm	as REF	as REF	as REF	th stability weaker	as REF	as REF	1.5cm/s	initial_profil_zPthrv_uv_Tq_stabm.txt
11 stabp	as REF	as REF	as REF	th stability stronger	as REF	as REF	1.5cm/s	initial_profil_zPthrv_uv_Tq_stabp.txt
12 basm	as REF	as REF	as REF	low levels (0-750m) drier	as REF	as REF	1.5cm/s	initial_profil_zPthrv_uv_Tq_basm.txt
13 basp	as REF	as REF	as REF	low levels (0-750m) moister	as REF	as REF	1.5cm/s	initial_profil_zPthrv_uv_Tq_basp.txt
14 midm	as REF	as REF	as REF	mid levels (750-3000) drier	as REF	as REF	1.5cm/s	initial_profil_zPthrv_uv_Tq_midm.txt
15 midp	as REF	as REF	as REF	mid levels (750-3000) moister	as REF	as REF	1.5cm/s	initial_profil_zPthrv_uv_Tq_midp.txt
16 higm	as REF	as REF	as REF	high levels (3000-5000m) drier	as REF	as REF	1.5cm/s	initial_profil_zPthrv_uv_Tq_higm.txt
17 higp	as REF	as REF	as REF	high levels (3000-5000m) moister	as REF	as REF	1.5cm/s	initial_profil_zPthrv_uv_Tq_higp.txt

More description is given in Couvreur et al., QJRMS, (2012)

Ensemble tests (ensemble_test_namelist.tar)								
REFERENCE	350	50	Gdient~	Qv0=18	AEJ~400m	Yes	1.5cm/s	
1 Ens1	Fsens=1.1*Fsens_ref	as REF	as REF	as REF	as REF	as REF	as REF	flux_conditions_1.txt
2 Ens2	as REF	Flat=1.1*Flat_ref	as REF	as REF	as REF	as REF	as REF	flux_conditions_2.txt
3 Ens3	Fsens=0.9*Fsens_ref	as REF	as REF	as REF	as REF	as REF	as REF	flux_conditions_3.txt
4 Ens4	as REF	Flat=0.9*Flat_ref	as REF	as REF	as REF	as REF	as REF	flux_conditions_4.txt
5 Ens5	as REF	as REF	as REF	low levels (0-750m) -0.1g/kg	as REF	as REF	as REF	initial_profil_zPthrv_uv_Tq_5.txt
6 Ens6	as REF	as REF	as REF	low levels (0-750m) +0.1g/kg	as REF	as REF	as REF	initial_profil_zPthrv_uv_Tq_6.txt
7 Ens7	as REF	as REF	as REF	mid levels (750-3000) -0.1g/kg	as REF	as REF	as REF	initial_profil_zPthrv_uv_Tq_7.txt
8 Ens8	as REF	as REF	as REF	mid levels (750-3000) +0.1g/kg	as REF	as REF	as REF	initial_profil_zPthrv_uv_Tq_8.txt
9 Ens9	as REF	as REF	as REF	high levels (3000-5000m) -0.1g/kg	as REF	as REF	as REF	initial_profil_zPthrv_uv_Tq_9.txt
10 Ens10	as REF	as REF	as REF	high levels (3000-5000m) +0.1g/kg	as REF	as REF	as REF	initial_profil_zPthrv_uv_Tq_10.txt
11 Ens11	as REF	as REF	$\Theta - 0.25K$ in low levels (0	as REF	as REF	as REF	as REF	initial_profil_zPthrv_uv_Tq_11.txt
12 Ens12	as REF	as REF	$\Theta + 0.25K$ in low levels	as REF	as REF	as REF	as REF	initial_profil_zPthrv_uv_Tq_12.txt
13 Ens13	as REF	as REF	as REF	as REF	as REF	tend_rad=0.9*tend_rad_as	as REF	tendency_profil_zPthrv_uv_Tq_13.txt
14 Ens14	as REF	as REF	as REF	as REF	as REF	tend_rad=1.1*tend_rad_as	as REF	tendency_profil_zPthrv_uv_Tq_14.txt
15 Ens15	as REF	as REF	as REF	as REF	as REF	advq=1.1*advq_ref	as REF	tendency_profil_zPthrv_uv_Tq_15.txt
16 Ens16	as REF	as REF	as REF	as REF	as REF	Advq=0.9*advq_ref	as REF	tendency_profil_zPthrv_uv_Tq_16.txt
17 Ens17	as REF	as REF	as REF	as REF	as REF	advT=0.9*advT_ref	as REF	tendency_profil_zPthrv_uv_Tq_17.txt
18 Ens18	as REF	as REF	as REF	as REF	as REF	AdvT=1.1*advT_ref	as REF	tendency_profil_zPthrv_uv_Tq_18.txt
19 Ens19	as REF	as REF	as REF	as REF	as REF	as REF	1.6cm/s	tendency_profil_zPthrv_uv_Tq_19.txt
20 Ens20	as REF	as REF	as REF	as REF	as REF	as REF	1.4cm/s	tendency_profil_zPthrv_uv_Tq_20.txt

For the radiative tendency as well as the computation of advection, the number has been averaged in order to keep the same precision