Comparison of EXTPAR results

Used EXTPAR versions in the comparison for the DWD COSMO-D2 model domain:

```
Release: DWD

Tag name ......: V2_10

Checkin-Date ....: 2018-02-19 10:04:42

Code is modified ..: .false.

Compile-Date ....: 2018-03-14 10:03:25

Compiled by .....: for0adm

Release: Release candidate 5.0

Branch: runscript-update

Compile-Date ....: 2018-11-06 12:18:35

Code is modified ..: modified

Library name ....: extpar-4.0

Compiled on ....: lce

Revision number ...: faf9b03e69c9e5e5f8b565la18ada8c66f8bd1c6

Checkout-Date ....: 2018-11-05 10:05:39
```

DWD COSMO-D2 model domain properties:

```
pollon=-170.0
pollat=40.0
startlon_tot=-11.0
startlat_tot=-10.0
dlon=0.020
dlat=0.020
ie_tot=1000
je_tot=1000
```

The comparison of basic EXTPAR output fields, required for COSMO-D2 showed for the domain statistics (minimum, average, and maximum) retrieved from Climate Data Operators (CDO) almost no difference for variables based on land-use data set and aerosols (Figs. 1 and 3). The differences in the albedo variables (Fig. 2) are due to the modified parameter range (0 to 1). For NDVI and SOILTYP some small differences still exist, which could be due to different compiler versions used for DWD V2_10 and Release candidate 5.0 (Figs. 1 and 2). The same reason is assumed for the difference in SSO_THETA, while other orography variables show no difference (Fig. 1).

				_10_DWD/log_1.asc		EXTPAR_COSMO_1000_1000_020_pre_RELEASE_5.0/log_1.asc						
1111-01-11 00	0.0000	0.62975	1.0000	FR_LAND	1	1111-01-11 00	0.0000	0.62975	1.0000	FR_LAND		
1111-01-11 00		0.00019377	1.0000	FRICE	2	1111-01-11 00		0.00019376	1.0000	ICE		
1111-01-11 00	0.0000	0.39630	0.80000	PLCOV_MN	3	1111-01-11 00	0.0000	0.39630	0.80000	PLCOV_MN		
1111-01-11 00	0.0000	0.53269	0.90000	PLCOV_MX	4	1111-01-11 00	0.0000	0.53269	0.90000	PLCOV_MX		
1111-01-11 00	0.0000	0.53635	3.0000	LAI_MN	5	1111-01-11 00	0.0000	0.53635	3.0000	LAI_MN		
1111-01-11 00	0.0000	2.4013	6.0000	LAI_MX	6 7	1111-01-11 00	0.0000	2.4013	6.0000	LAI_MX		
1111-01-11 00	1.0000e-06	0.24940	3.8617	Z0	7	1111-01-11 00	1.0000e-06	0.24940	3.8617	Z0 _		
1111-01-11 00	0.95000	0.98959	0.99990	EMIS_RAD	8	1111-01-11 00	0.95000	0.98959	0.99990	EMIS_RAD		
1111-01-11 00	0.0000	78.603	999.00	RSMIN	9	1111-01-11 00	0.0000	78.603	999.00	RSMIN		
1111-01-11 00	0.0000	0.011990	1.0000	URBAN	10	1111-01-11 00	0.0000	0.011990	1.0000	URBAN		
1111-01-11 00	0.0000	0.11273	0.90000	FOR_D	11	1111-01-11 00	0.0000	0.11273	0.90000	FOR_D		
1111-01-11 00	0.0000	0.053963	0.90000	FOR_E	12	1111-01-11 00	0.0000	0.053963	0.90000	FOR_E		
1111-01-11 00	0.0000	0.58639	1.5000	ROOTDP	13	1111-01-11 00	0.0000	0.58639	1.5000	ROOTDP		
1111-01-11 00	0.0000	0.49174	0.97778	NDVI_MAX	14	1111-01-11 00	0.0000	0.49757	0.97778	NDVI_MAX		
1111-01-11 00	-14.750	232.14	4101.0	HSURF	15	1111-01-11 00	-14.750	232.14	4101.0	HSURF		
1111-01-11 00	-144.64	2276.4	40215.	FIS	16	1111-01-11 00	-144.64	2276.4	40215.	FIS		
1111-01-11 00	0.0000	22.356	679.50	SS0_STDH	17	1111-01-11 00	0.0000	22.356	679.50	SS0_STDH		
1111-01-11 00	-1.5708	0.012280	1.5708	SS0_THETA	18	1111-01-11 00	-1.5708	0.012190	1.5708	SS0_THETA		
1111-01-11 00	0.0000	0.15899	0.99937	SSO_GAMMA	19	1111-01-11 00	0.0000	0.15899	0.99937	SSO_GAMMA		
1111-01-11 00	0.0000	0.029560	0.84832	SS0_SIGMA	20	1111-01-11 00	0.0000	0.029560	0.84832	SSO_SIGMA		
1111-01-11 00	261.76	282.66	291.38	T_CL	21	1111-01-11 00	261.76	282.66	291.38	T_CL		
1111-01-11 00	0.0000	0.0088134	1.0000	FR_LAKE	22	1111-01-11 00	0.0000	0.0088134	1.0000	FR_LAKE		
1111-01-11 00	-1.0000	-0.89719	50.000	DEPTH_LK	23	1111-01-11 00	-1.0000	-0.89719	50.000	DEPTH_LK		
1111-01-11 00	1.0000	6. 3456	9.0000	SOILTYP	24	1111-01-11 00	1.0000	6. 2822	9.0000	SOILTYP		
1111-01-11 00	0.0000	0.0020896	1.0000	LU_CLASS_FRACTION	25 26	1111-01-11 00	0.0000	0.0020896	1.0000	LU_CLASS_FRACTION		
1111-01-11 00	0.0000	0.14039	1.0000	LU_CLASS_FRACTION LU_CLASS_FRACTION	20	1111-01-11 00	0.0000	0.14039	1.0000	LU_CLASS_FRACTION LU_CLASS_FRACTION		
1111-01-11 00	0.0000	0.10463	1.0000	LU CLASS FRACTION	27 28	1111-01-11 00	0.0000	0.060494	1.0000	LU CLASS FRACTION		
1111-01-11 00 1111-01-11 00	0.0000	0.060494	0.0000	LU CLASS FRACTION	28	1111-01-11 00 1111-01-11 00	0.0000	0.000494	0.0000			
					30		0.0000			LU_CLASS_FRACTION		
1111-01-11 00	0.0000	0.10508	0.0000	LU_CLASS_FRACTION	31	1111-01-11 00	0.0000	0.10508	0.0000	LU_CLASS_FRACTION LU_CLASS_FRACTION		
1111-01-11 00				LU_CLASS_FRACTION LU_CLASS_FRACTION	31	1111-01-11 00		0.027641				
1111-01-11 00	0.0000	0.027641	1.0000	LU CLASS FRACTION	32	1111-01-11 00	0.0000		1.0000	LU_CLASS_FRACTION LU_CLASS_FRACTION		
1111-01-11 00	0.0000	0.015166	1.0000		34	1111-01-11 00 1111-01-11 00		0.015166	1.0000			
1111-01-11 00		0.039009		LU_CLASS_FRACTION LU_CLASS_FRACTION	34		0.0000	0.039009		LU_CLASS_FRACTION LU_CLASS_FRACTION		
1111-01-11 00 1111-01-11 00	0.0000	0.020005	1.0000	LU CLASS FRACTION	36	1111-01-11 00	0.0000	0.026005	1.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.0057064	1.0000	LU CLASS FRACTION	37	1111-01-11 00	0.0000	0.0057064	1.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.031835	1.0000	LU CLASS FRACTION	38	1111-01-11 00	0.0000	0.031835	1.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.031835	1.0000	LU CLASS FRACTION	39	1111-01-11 00	0.0000	0.031835	1.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.014887	0.0000	LU CLASS FRACTION	40	1111-01-11 00	0.0000	0.014887	0.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.0000	0.0000	LU CLASS FRACTION	40	1111-01-11 00	0.0000	0.0000	0.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.0029464	1.0000	LU CLASS FRACTION	42	1111-01-11 00	0.0000	0.0029¶64	1.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.011902	1.0000	LU CLASS FRACTION	42	1111-01-11 00	0.0000	0.0029464	1.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.0016381	1.0000	LU CLASS FRACTION	44	1111-01-11 00	0.0000	0.0016381	1.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.0016381	1.0000	LU_CLASS_FRACTION LU_CLASS_FRACTION	44	1111-01-11 00	0.0000	0.0016381	1.0000	LU CLASS FRACTION LU CLASS FRACTION		
! 1111-01-11 00		0.00019377	1.0000	LU CLASS FRACTION	45	1111-01-11 00		0.00019376	1.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.00019377	0.0000	LU CLASS FRACTION	46	1111-01-11 00	0.0000	0.00019376	0.0000	LU CLASS FRACTION		
1111-01-11 00	0.0000	0.0000	0.0000	FO_CFH22_LUMC1.TOM	47	1111-01-11 00	0.0000	0.0000	0.0000	FO_CEW32_LUNCITON		
					1							

Fig. 1: Comparison of EXTPAR output fields retrieved from CDO. Columns are Date, Minimum, Average, Maximum, Field Name for DWD version V2_10 (left) and Release candidate 5.0 (right). Differences are highlighted by TKDiff.

1 1111-0-11 00 7,0000 10.589 70.000 AB DFT2 2 1111-0-21 100 7,0000 10.599 70.000 AB DFT2 3 1111-0-21 100 7,0000 10.599 70.000 AB DFT2 3 1111-0-21 100 7,0000 10.599 70.000 AB DFT2 5 1111-0-21 100 7,0000 10.599 70.000 AB DFT2 6 1111-0-21 100 7,0000 10.599 70.000 AB DFT2 7 1111-0-21 100 7,0000 10.599 70.000 AB DFT2 8 1111-0-21 100 7,0000 10.599 70.000 AB DFT2 9 1111-0-21 100 7,0000 10.599 70.000 AB DFT2 9 1111-0-21 100 7,0000 10.599 70.000 AB DFT2 100 1111-0-21 100 7,0000 10.599 70.000 AB DFT2 1111-0-21 100 10.0000 10.0000 10.599 70.000 AB DFT2 1111-0-21 100 0.0000 0.0000 10.599 70.000 AB DFT2 12 1111-0-21 100 0.0000 0.0000 0.0000 10.599 70.000 AB DFT2 13 1111-0-21 100 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00		EXTPAR_COSMO_1000_1000_020_V2_10_DWD/log_2.asc EXTPAR_COSMO_1000_1000_020_pre_RELEASE_5.0/log_2.asc												
2 1111-02-11 00 7,0000 10,939 70,000 ALB DIFI2 3 1111-03-11 00 0,00000 0,1939 0,7000 ALB DIFI2 4 1111-03-11 00 0,00000 0,12737 0,7000 ALB DIFI2 5 1111-05-11 00 0,00000 0,12737 0,7000 ALB DIFI2 5 1111-05-11 00 0,00000 0,12737 0,7000 ALB DIFI2 5 1111-05-11 00 0,00000 0,13739 0,7000 ALB DIFI2 5 1111-05-11 00 0,00000 0,13739 0,7000 ALB DIFI2 5 1111-05-11 00 0,00000 0,13739 0,7000 ALB DIFI2 7 1111-05-11 00 0,00000 0,13829 0,7000 ALB DIFI2 7 1111-05-11 00 0,00000 0,12837 0,7000 ALB DIFI2 7 1111-05-11 00 0,00000 0,12837 0,7000 ALB DIFI2 9 1111-05-11 00 0,00000 0,12837 0,7000 ALB DIFI2 9 1111-05-11 00 0,00000 0,12837 0,7000 ALB DIFI2 111-111-11 0,111-11-11 0,70000 10,626 70,000 ALB DIFI2 111-111-11 0,70000 10,626 70,0000 ALB DIFI2 111-111-11 0,70000 10,626 70,0000 10,626 70	1/21	11111-01-11 00	7.0000	10.589	70.000	ALB DIF12		1	11111-01-11 00	0.070000	0.10589	0.70000	ALB DIF12	[2]
3 ! !!!!-03-!! 00 7,0000 11,598 70,000 ALB DIFI2 4 !!!!-03-!! 00 7,0000 12,727 70,000 ALB DIFI2 5 !!!!-05-!! 00 7,0000 13,719 70,000 ALB DIFI2 5 !!!!-05-!! 00 7,0000 13,719 70,000 ALB DIFI2 5 !!!!-05-!! 00 8,07000 0,13719 0,7000 ALB DIFI2 6 !!!!-05-!! 00 8,07000 0,13719 0,7000 ALB DIFI2 7 !!!!-05-!! 00 8,07000 0,13829 0,7000 ALB DIFI2 8 !!!!-05-!! 00 8,07000 0,13829 0,7000 ALB DIFI2 9 !!!!-05-!! 00 8,07000 0,13829 0,7000 ALB DIFI2 9 !!!!-05-!! 00 8,07000 0,13829 0,7000 ALB DIFI2 1 !!!!-10-11-10 0,07000 0,0700 0,0700 ALB DIFI2 1 !!!!-10-11-10 0,07000 0,0700 0,0700 ALB DIFI2 1 !!!!-10-11-10 0,07000 0,0800 0,				10 020				2		0.070000	0.10939		ALB DIF12	
11				11.598					1111-03-11 00	0.070000		0.70000	ALB DIF12	
11	4		7.0000	12,727				4	1111-04-11 00		0.12727		ALB DIF12	
11	5			13,719				5					ALB DIF12	
11	6			13,829				6			0.13829		ALB DIF12	
11	7	11111-07-11 00	7.0000	13,619	70.000			7	1111-07-11 00	0.070000	0,13619	0.70000	ALB DIF12	
11	8		7,0000	13,127	70,000	ALB DIF12		8	! 1111-08-11 00	0.070000	0,13127	0.70000	ALB DIF12	
11	9	1111-09-11 00	7,0000	12,523	70,000	ALB DIF12		9	! 1111-09-11 00	0.070000	0,12523	0.70000	ALB DIF12	
11	10	! 1111-10-11 00	7,0000	11,651	70,000	ALB DIF12		10	1111-10-11 00	0.070000	0.11651	0.70000		
12 ! 1111-12-11 00	11	1111-11-11 00	7.0000	10.826	70.000	ALB DIF12		11	1111-11-11 00	0.070000	0.10826	0.70000	ALB DIF12	
14 ! 1111-02-11 00 0.0000 0.2897 0.86316 NOVT 15 ! 1111-03-11 00 0.0000 0.38276 0.86316 NOVT 16 ! 1111-03-11 00 0.0000 0.38276 0.86329 NOVT 16 ! 1111-03-11 00 0.0000 0.38276 0.86329 NOVT 17 ! 1111-03-11 00 0.0000 0.3618 0.89346 NOVT 18 ! 1111-05-11 00 0.0000 0.3618 0.89346 NOVT 19 ! 1111-05-11 00 0.0000 0.3618 0.89346 NOVT 19 ! 1111-05-11 00 0.0000 0.46978 0.99528 NOVT 19 ! 1111-05-11 00 0.0000 0.47787 0.97778 NOVT 19 ! 111-05-11 00 0.0000 0.47787 0.97778 NOVT 19 ! 111-05-11 00 0.0000 0.47787 0.97778 NOVT 19 ! 111-05-11 00 0.0000 0.47784 0.97778 NOVT 19 ! 111-05-11 00 0.0000 0.47815 0.97255 NOVT 19 ! 111-05-11 00 0.0000 0.47784 0.97778 NOVT 19 ! 111-05-11 00 0.0000 0.47784 0.9778 NOVT 19 ! 111-05-11 00 0.0000 0.47784 0.9778 NOVT 19 ! 111-05-11 00 0.0000 0.47784 0.9778 NOVT 19 ! 111-05-11 00 0.0000 0.47784 0.9918 NOVT 19 ! 111-05-11 00 0.0000 0.47784 0.9918 NOVT 19 ! 111-12-11 00 0.0000 0.47784 0.9918 NOVT 19 ! 111-05-11 00 0.0000 0.47784 0.9918 NOVT 19 ! 111-05-11 00 0.0000 0.47784 0.9918 NOVT 19 ! 111-05-11 00 0.0000 0.38988 0.9915 NOVT	12	11111-12-11 00	7.0000	10.624	70.000	ALB DIF12		12	1111-12-11 00	0.070000	0.10624	0.70000	ALB DIF12	
15 ! 1111-03-11 00	13	1111-01-11 00	0.0000	0.27885	0.86601	NDVĪ		13	1111-01-11 00	0.0000	0.28218	0.86601	NDVĪ	
16 1111-04-11 00 0.0000 0.36012 0.09346 NOVT 16 1111-05-11 00 0.0000 0.46078 0.989346 NOVT 17 1111-05-11 00 0.0000 0.46078 0.989346 NOVT 18 1111-05-11 00 0.0000 0.46078 0.98938 NOVT 18 1111-05-11 00 0.0000 0.46078 0.98938 NOVT 19 1111-05-11 00 0.0000 0.48515 0.97255 NOVT 19 1111-05-11 00 0.0000 0.48515 0.97255 NOVT 19 1111-05-11 00 0.0000 0.48515 0.97255 NOVT 19 1111-05-11 00 0.0000 0.48515 0.95948 NOVT 10 1111-05-11 00 0.0000 0.4856 0.96055 NOVT 1111-05-11 00 0.0000 0.4856 0.96055 NOVT 1111-05-11 00 0.	14	1111-02-11 00	0.0000	0.28207	0.86316	NDVI		14	1111-02-11 00	0.0000	0.28570	0.86316	NDVI	
17 1111-05-11 00 0.0000 0.4592 0.96928 NOVT 18 1111-05-11 00 0.0000 0.4778 0.9778 NOVT 19 1111-05-11 00 0.0000 0.4878 0.95948 NOVT 19 1111-05-11 00 0.0000 0.4878 0.95958 NOVT 19 1111-05-11 00 0.0000 0.4878 0.95955 NOVT 19 1111-05-11 00 0.0000 0.	15	1111-03-11 00	0.0000		0.86209	NDVI		15	1111-03-11 00	0.0000			NDVI	
18 1111-06-11 00	16	1111-04-11 00	0.0000	0.36212	0.89346				1111-04-11 00	0.0000	0.36618	0.89346	NDVI	
19 1111-07-11 00	17	1111-05-11 00	0.0000	0.45592	0.96928			17	1111-05-11 00	0.0000	0.46078		NDVI	
20 1111-09-11 00														
21 1111-09-11 00														
22 1111-0-11 00											0.43856			
23 ! 1111-11-11 00													NDVI	
24 ! 1111-12-11 00														
25 1111-01-11 00														
26 ! 1111-02-11 00											0.34986			
27 ! 1111-03-11 00														
28 ! 1111-05-11 00		1111-02-11 00												
29 1111-05-11 00													NDVI_MRAT	
30 ! 1111-05-11 00 0.0000 0.050081 1.0000 NOVI_MRAT 31 ! 1111-07-11 00 0.0000 0.050081 1.0000 NOVI_MRAT 32 ! 1111-07-11 00 0.0000 0.05568 1.0000 NOVI_MRAT 32 ! 1111-07-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 33 ! 1111-09-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 34 ! 1111-09-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 34 ! 1111-10-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 35 ! 1111-11-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 36 ! 1111-11-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 37 ! 1111-11-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 38 ! 1111-11-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 39 ! 1111-11-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 30 ! 1111-11-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 30 ! 1111-11-11 00 0.0000 0.5568 1.0000 NOVI_MRAT 30 ! 1111-11-11 00 0.0000 0.5568 1.0000 NOVI_MRAT								28					NDVI_MRAT	
11 ! 1111-07-11 00														
32 ! 1111-09-11 00											0.61767			
33 ! 1111-09-11 00														
34 ! 1111-10-11 00														
35 ! 1111-11-11 00 0.0000 0.5874 1.0000 NDYT_MAT 35 ! 1111-12-11 00 0.0000 0.5826 1.0000 NDYT_MAT 36 ! 1111-12-11 00 0.0000 0.48708 1.0000 NDYT_MAT 37 1111-12-11 00 0.0000 0.48804 1.0000 NDYT_MAT														
36 ! 1111-12-11 00 0.0000 0.4\$70\$ 1.0000 NDVI_MRAT														
7				0.50974							0.52296			
	36	1111-12-11 00	0.0000	0.44706	1.0000	NDV1_MRAT		36	1111-12-11 00	0.0000	0.45904	1.0000	NDV1_MRAT	
	1													
	N_							1						

Fig. 2: Comparison of EXTPAR output fields retrieved from CDO. Columns are Date, Minimum, Average, Maximum, Field Name for DWD version V2_10 (left) and Release candidate 5.0 (right). Differences are highlighted by TKDiff.

		EXTPAR_COSM	40_1000_100	0_020_V2_10	_DWD/log_3.asc			EXTPAR_COST	MO_1000_1000	0_020_pre_R	ELEASE_5.0/log_3.asc
1	1111-01-11 00	0.0031950	0.019079	0.038473	AER BC12	1	1111-01-11 00	0.0031950	0.019079	0.038473	AER BC12
2	1111-02-11 00	0.0036821	0.017935	0.037788	AER BC12	2	1111-02-11 00	0.0036821	0.017935	0.037788	AER BC12
3	1111-03-11 00	0.0039212	0.021922	0.043181	AER BC12	3	1111-03-11 00	0.0039212	0.021922	0.043181	AER BC12
4	1111-04-11 00	0.0040467	0.014344	0.029622	AER BC12	- Δ	1111-04-11 00	0.0040467	0.014344	0.029622	AER BC12
5	1111-05-11 00	0.0050899	0.019252	0.036975	AER BC12	5	1111-05-11 00	0.0050899	0.019252	0.036975	AER BC12
6	1111-06-11 00	0.0031470	0.023350	0.048367	AER BC12	6	1111-06-11 00	0.0031470	0.023350	0.048367	AER BC12
7	1111-07-11 00	0.0026657	0.016989	0.038492	AER BC12	7	1111-07-11 00	0.0026657	0.016989	0.038492	AER BC12
8	1111-08-11 00	0.0026665	0.014957	0.034287	AER BC12	8	1111-08-11 00	0.0026665	0.014957	0.034287	AER BC12
9	1111-09-11 00	0.0023987	0.016392	0.034984	AER BC12	9	1111-09-11 00	0.0023987	0.016392	0.034984	AER BC12
10	1111-10-11 00	0.0021317	0.014653	0.030479	AER BC12	10	1111-10-11 00	0.0021317	0.014653	0.030479	AER BC12
11	1111-11-11 00	0.0021428	0.012381	0.024386	AER BC12	11		0.0021428	0.012381	0.024386	AER BC12
12	1111-12-11 00	0.0020734	0.013553	0.028092	AER BC12	12		0.0020734	0.013553	0.028092	AER BC12
13	1111-01-11 00	0.00077279	0.0041967	0.015556	AER DUST12	13		0.00077279	0.0041967	0.015556	AER DUST12
14	1111-02-11 00	0.0022389	0.0066591	0.032628	AER DUST12	14		0.0022389	0.0066591	0.032628	AER DUST12
15	1111-03-11 00	0.0046068	0.011907	0.033616	AER DUST12	15		0.0046068	0.011907	0.033616	AER DUST12
16	1111-04-11 00	0.0090143	0.023475	0.059237	AER DUST12	16	1111-04-11 00	0.0090143	0.023475	0.059237	AER DUST12
17	1111-05-11 00	0.018249	0.046131	0.11770	AER DUST12	17		0.018249	0.046131	0.11770	AER DUST12
18	1111-06-11 00	0.015740	0.036263	0.092800	AER DUST12	18	1111-06-11 00	0.015740	0.036263	0.092800	AER DUST12
19	1111-07-11 00	0.011477	0.028309	0.075180	AER DUST12	19		0.011477	0.028309	0.075180	AER DUST12
20	1111-08-11 00	0.0091797	0.020422	0.059050	AER DUST12	20		0.0091797	0.020422	0.059050	AER DUST12
21	1111-09-11 00	0.0076373	0.024423	0.075742	AER DUST12	21	1111-09-11 00	0.0076373	0.024423	0.075742	AER DUST12
22	1111-10-11 00	0.011205	0.015110	0.057062	AER DUST12	22	1111-10-11 00	0.011205	0.015110	0.057062	AER DUST12
23	1111-11-11 00	0.0080202	0.013062	0.067621	AER DUST12	23	1111-11-11 00	0.0080202	0.013062	0.067621	AER DUST12
24	1111-12-11 00	0.0050606	0.0097001	0.045591	AER DUST12	24	1111-12-11 00	0.0050606	0.0097001	0.045591	AER DUST12
25	1111-01-11 00	0.012884	0.070085	0.13091	AER ORG12	25		0.012884	0.070085	0.13091	AER ORG12
26	1111-02-11 00	0.017790	0.066347	0.11989	AER ORG12	26	1111-02-11 00	0.017790	0.066347	0.11989	AER ORG12
27	1111-03-11 00	0.017635	0.082127	0.15488	AER ORG12	27	1111-03-11 00	0.017635	0.082127	0.15488	AER ORG12
28	1111-04-11 00	0.017730	0.054467	0.10194	AER ORG12	28		0.017730	0.054467	0.10194	AER ORG12
29	1111-05-11 00	0.024701	0.072810	0.11693	AER ORG12	29		0.024701	0.072810	0.11693	AER ORG12
30	1111-06-11 00	0.018483	0.086484	0.15290	AER ORG12	30	1111-06-11 00	0.018483	0.086484	0.15290	AER ORG12
31	1111-07-11 00	0.017221	0.063894	0.12298	AER ORGL2	31		0.017221	0.063894	0.12298	AER ORG12
32	1111-08-11 00	0.013018	0.055895	0.10896	AER ORG12	32		0.013018	0.055895	0.10896	AER ORG12
33	1111-09-11 00	0.010529	0.060010	0.11694	AER ORG12	33	1111-09-11 00	0.010529	0.060010	0.11694	AER ORG12
34	1111-10-11 00	0.0094898	0.054955	0.097135	AER ORG12	34	1111-10-11 00	0.0094898	0.054955	0.097135	AER ORG12
35	1111-10-11 00	0.0093434	0.046504	0.078551	AER ORG12	35	1111-11-11 00	0.0093434	0.046504	0.078551	AER ORG12
36	1111-12-11 00	0.0091340	0.050475	0.088970	AER ORG12	36		0.0091340	0.050475	0.088970	AER ORG12
37	1111-01-11 00	0.0086413	0.021390	0.042370	AER_S0412	37		0.0086413	0.021390	0.042370	AER_S0412
38	1111-02-11 00	0.0093731	0.029400	0.090932	AER S0412	38		0.0093731	0.029400	0.090932	AER S0412
39	1111-03-11 00	0.017325	0.048206	0.086394	AER S0412	39		0.017325	0.048206	0.086394	AER S0412
40	1111-04-11 00	0.016558	0.064549	0.12095	AER S0412	40		0.01/323	0.064549	0.12095	AER S0412
41	1111-05-11 00	0.015141	0.040935	0.077538	AER_50412 AER S0412	41		0.015141	0.040935	0.077538	AER S0412
42	1111-06-11 00	0.023717	0.051664	0.11607	AER S0412	42		0.023717	0.051664	0.11607	AER S0412
43	1111-07-11 00	0.039255	0.080415	0.18248	AER_50412 AER S0412	43		0.039255	0.080415	0.18248	AER 50412 AER 50412
44	1111-08-11 00	0.033180	0.088774	0.20067	AER S0412	44		0.033180	0.088774	0.20067	AER S0412
45	1111-09-11 00	0.032849	0.10537	0.25690	AER S0412	45		0.032849	0.10537	0.25690	AER S0412
46	1111-10-11 00	0.019623	0.042833	0.086681	AER_S0412	45		0.019623	0.042833	0.086681	AER_S0412
47	1111-11-11 00	0.011348	0.028024	0.057385	AER S0412	47		0.013023	0.028024	0.057385	AER S0412
48	1111-12-11 00	0.0072757	0.019394	0.041647	AER S0412	48		0.0072757	0.019394	0.041647	AER S0412
1170	1111 12-11 00	0.00/2/3/	0.019394	0.041047	PD - 20475	40	1111-12-11 00	0.00/2/3/	0.019394	0.041047	0612-00744
7											
						0					
17						- 1					

Fig. 3: Comparison of EXTPAR output fields retrieved from CDO. Columns are Date, Minimum, Average, Maximum, Field Name for DWD version V2_10 (left) and Release candidate 5.0 (right). Differences are highlighted by TKDiff.