



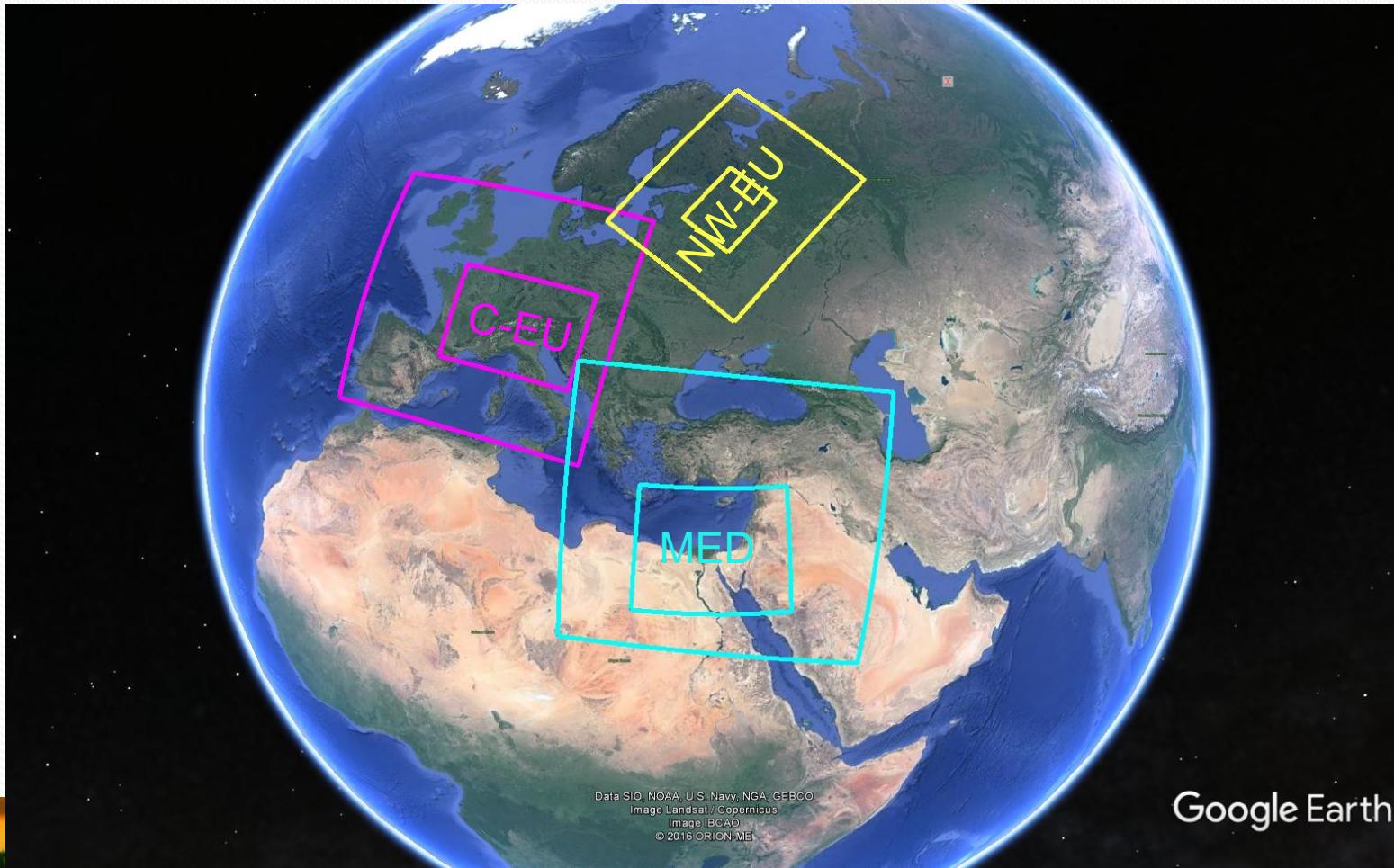
Priority Task Terra Nova

PT Terra Nova

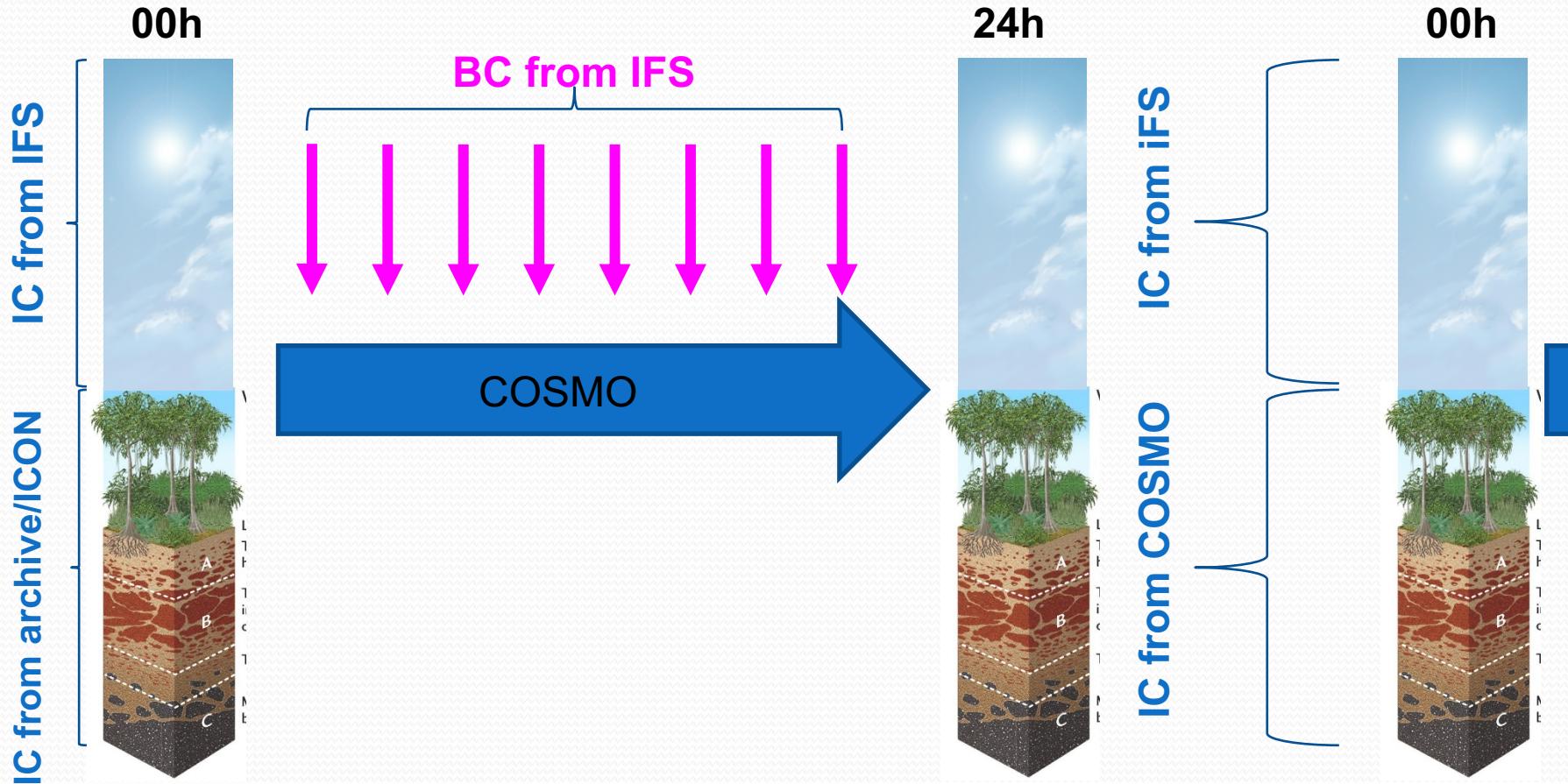
Objectives

- Present results for central EU & MED domain
- Discussion regarding results from 3 speakers
- First notes for final report

Simulations setup - domains



Simulations setup - hindcast



PT Terra Nova

Simulations setup

Central EU & MED – 7km; 2km

- v5.00
- v5.05 old configuration (TERRA & turb)
- v5.05 new TERRA <==> old turb
- v5.05 new (recommended settings)

NW EU – 7km; 2km

- v5.03
- v5.05 new TERRA <==> old turb
- v5.05 new (recommended settings)

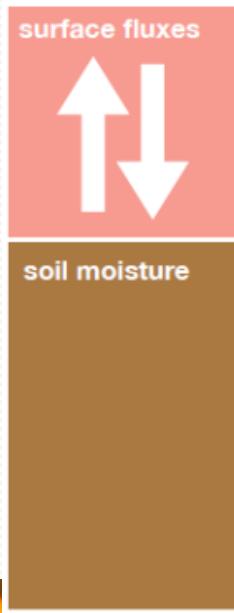
PT Terra Nova Simulations setup

V5.05

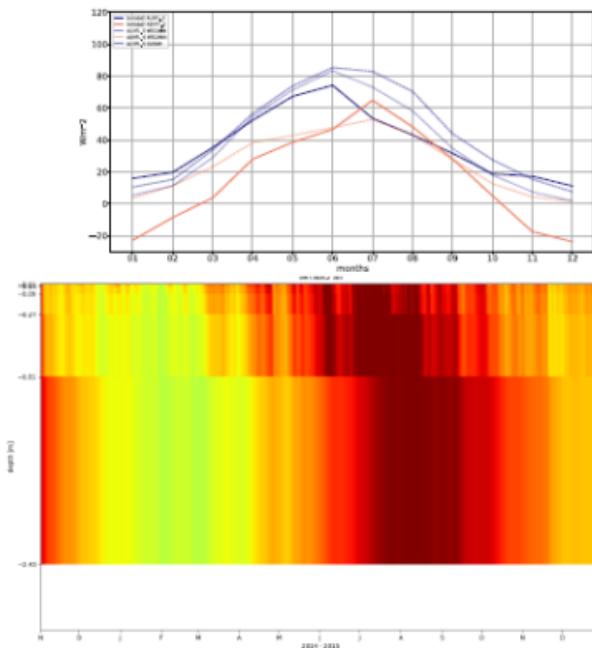
Name	V500	Basic	AdOld	Adv
/TUNING/ (turbulence)				
tkhmin	0.4	0.4	0.4	0.75
tkmmin	0.4	0.4	0.4	0.75
rat_sea	20.0	20.0	20.0	7.5
patlen	500.0	500.0	500.0	750.0
turlen	150.0	150.0	150.0	500.0
a_hshr	0.2	0.2	0.2	2.0
c_soil	1.0	1.0	1.0	1.75
TURBULANCE				
/PHYCTL/ (turbulence)				
loldtur	.TRUE.	.TRUE.	.TRUE.	.FALSE.
itype_vdif	-1	-1	-1	-1
ltkeshs	.FALSE.	.FALSE.	.FALSE.	.TRUE.
itype_sher	1	1	1	0
imode_tran	1	1	1	0
imode_turb	1	1	1	1
icldm_tran	0	0	0	2
TERRA				
/PHYCTL/ (other)				
itype_aerosol	1	1	1	2
itype_root	1	1	2	2
itype_heatcond	2	2	3	3
itype_evsl	1	1	2	2
idiag_snowfrac	1	1	1	1
cwimax_ml	1.0E-6	1.0E-6	0.0005	0.0005
lemiss	.FALSE.	.FALSE.	.TRUE.	.TRUE.
lstomata	.FALSE.	.FALSE.	.TRUE.	.TRUE.

Verena

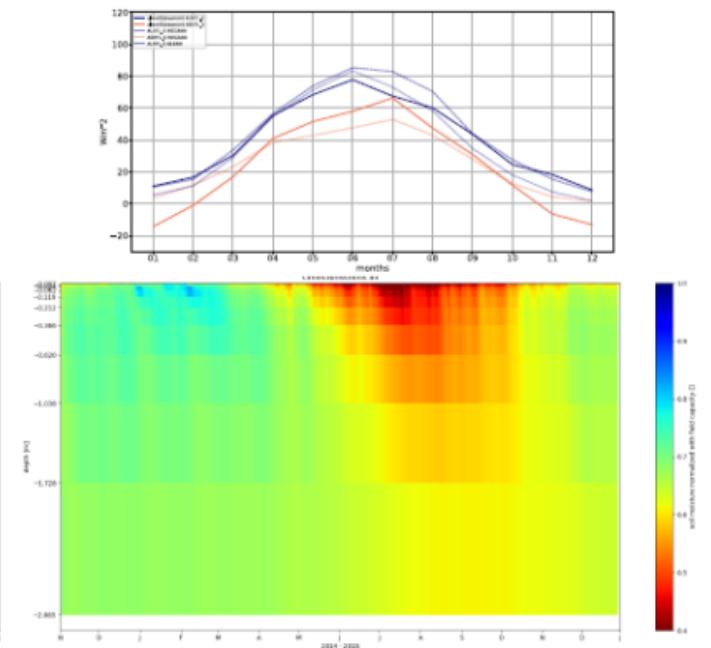
soil moisture and surface fluxes



COSMO-TERRA bs2



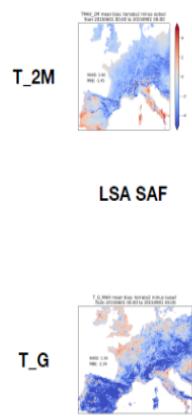
COSMO-CLM v45bhs



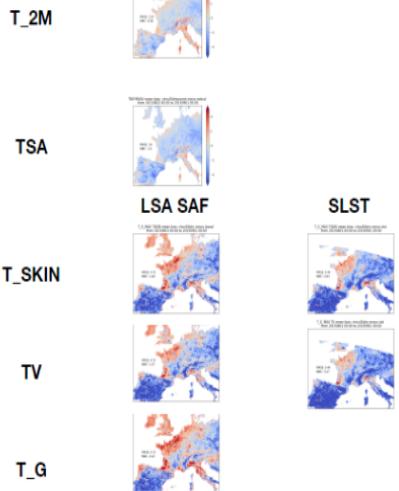
temperature



COSMO-TERRA



COSMO-CLM



CLM

CONSORTIUM FOR SMALL SCALE MODELING



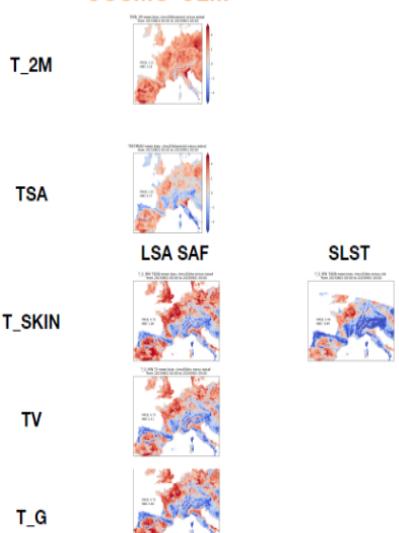
temperature



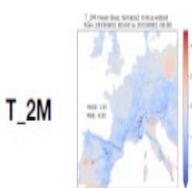
COSMO-TERRA



COSMO-CLM



COSMO-TERRA



COSMO-CLM



T_2M

TSA

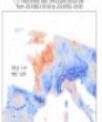
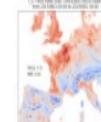
LSA SAF

SLST

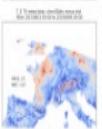
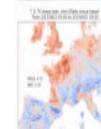
LSA SAF

SLST

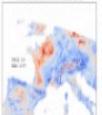
T_SKIN

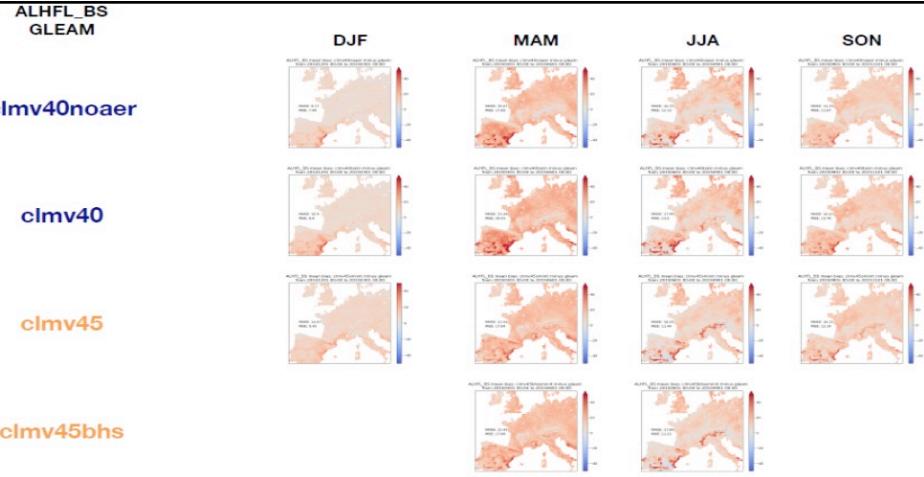
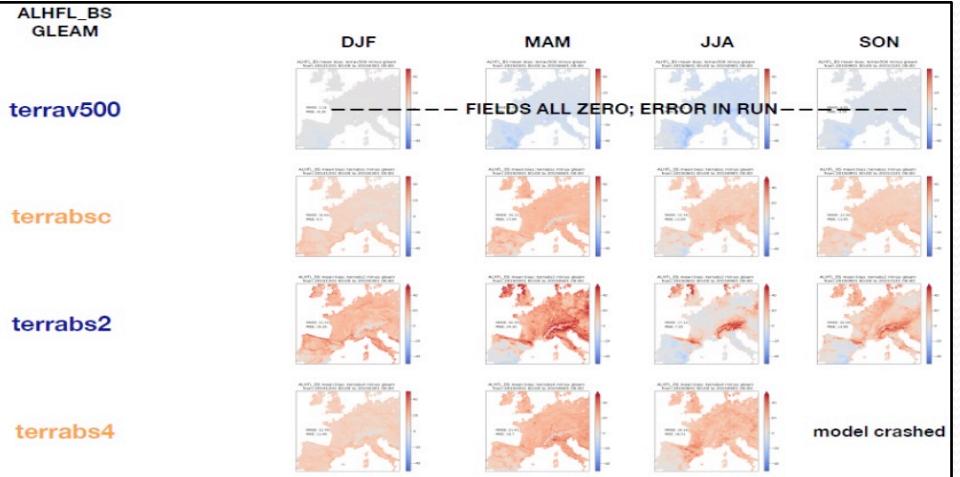
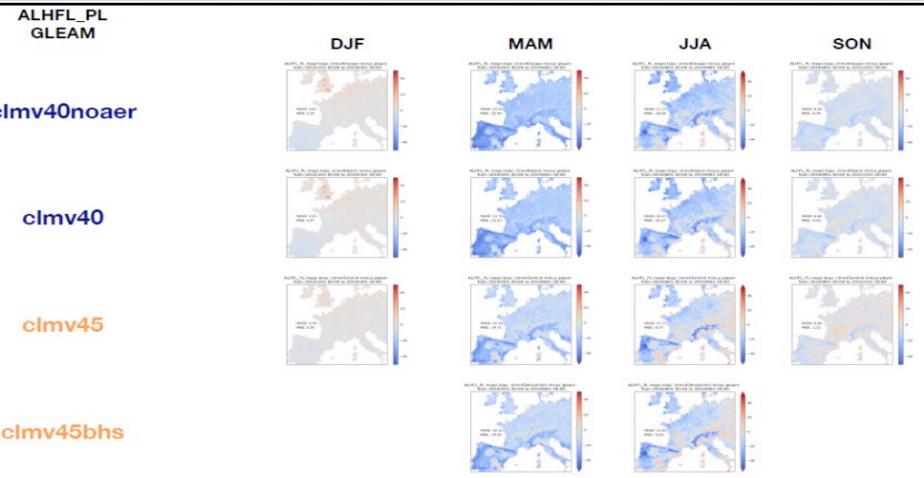
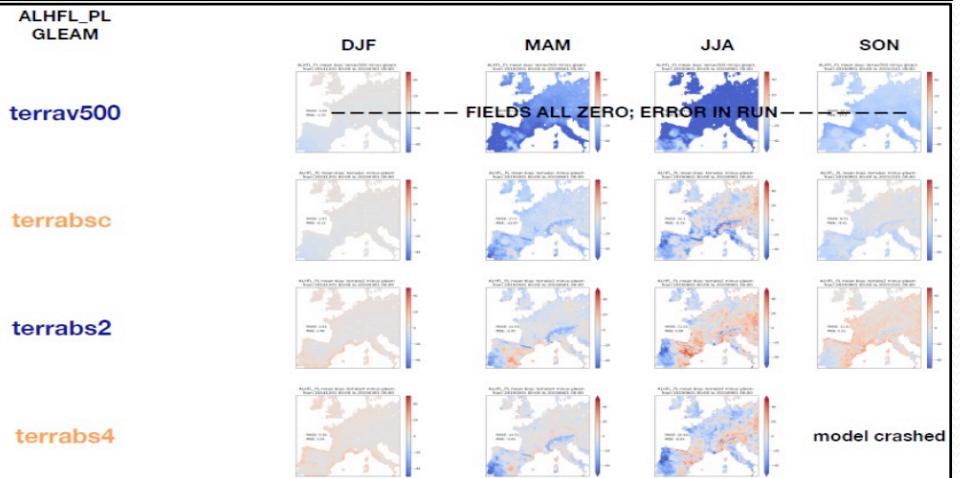
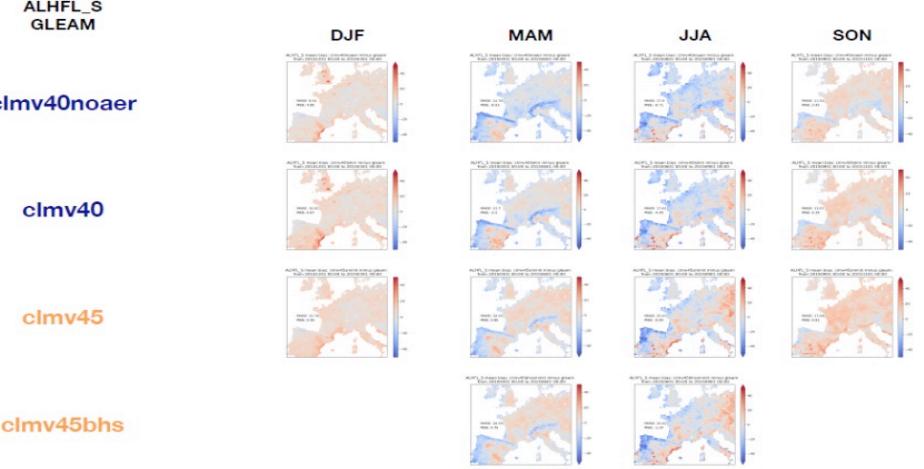
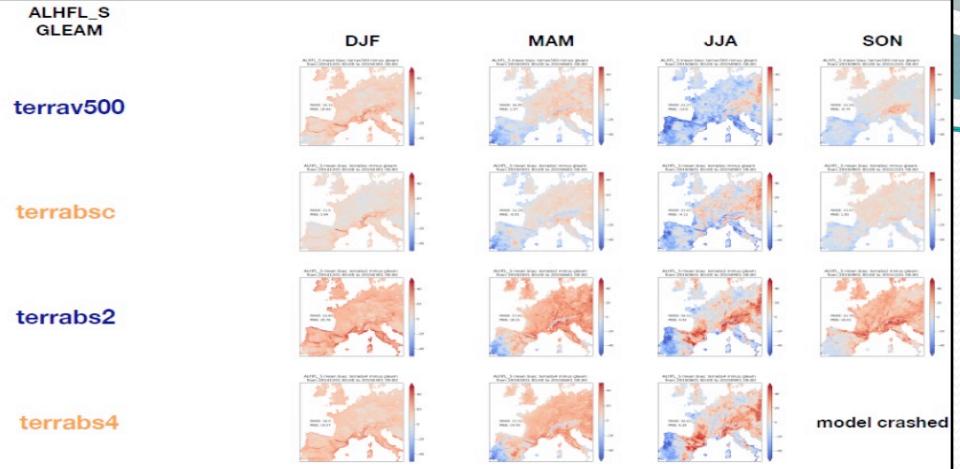


TV



T_G





PT Terra Nova

Verification

MED

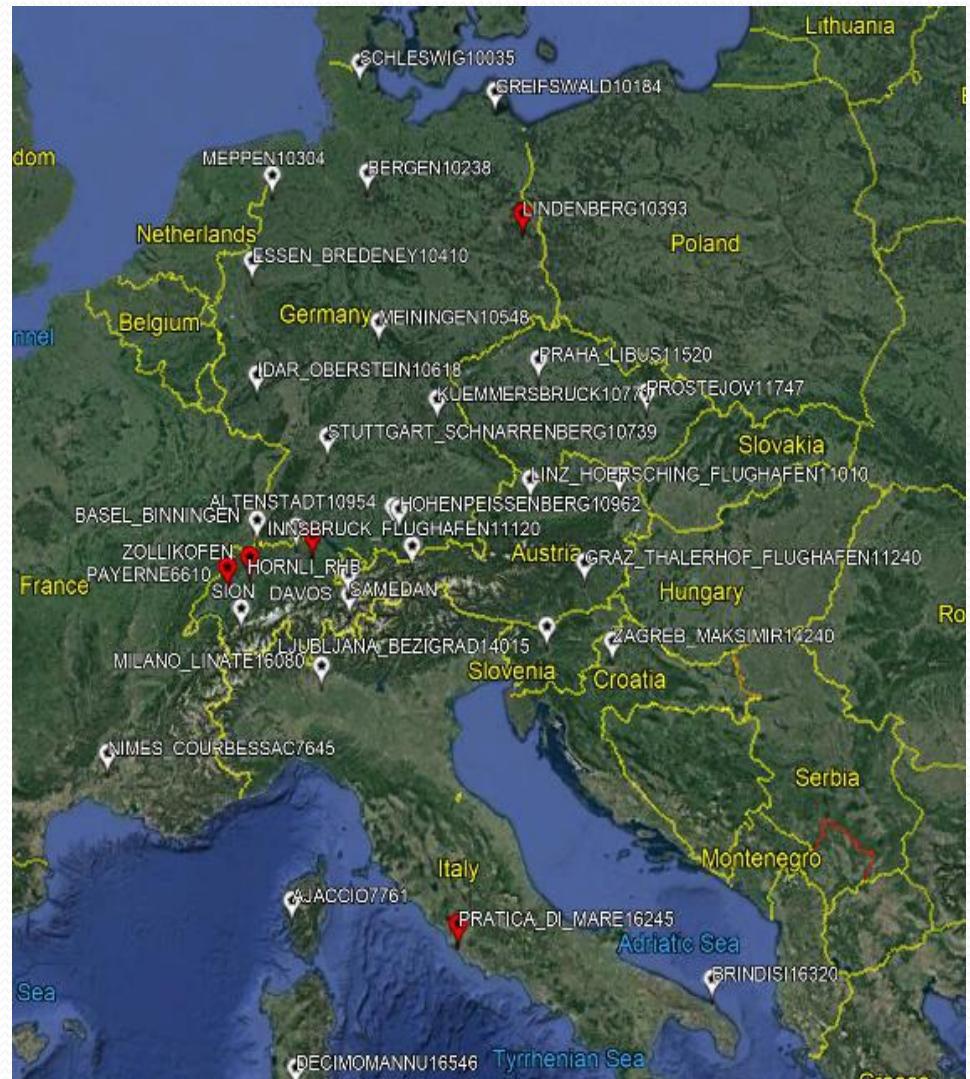
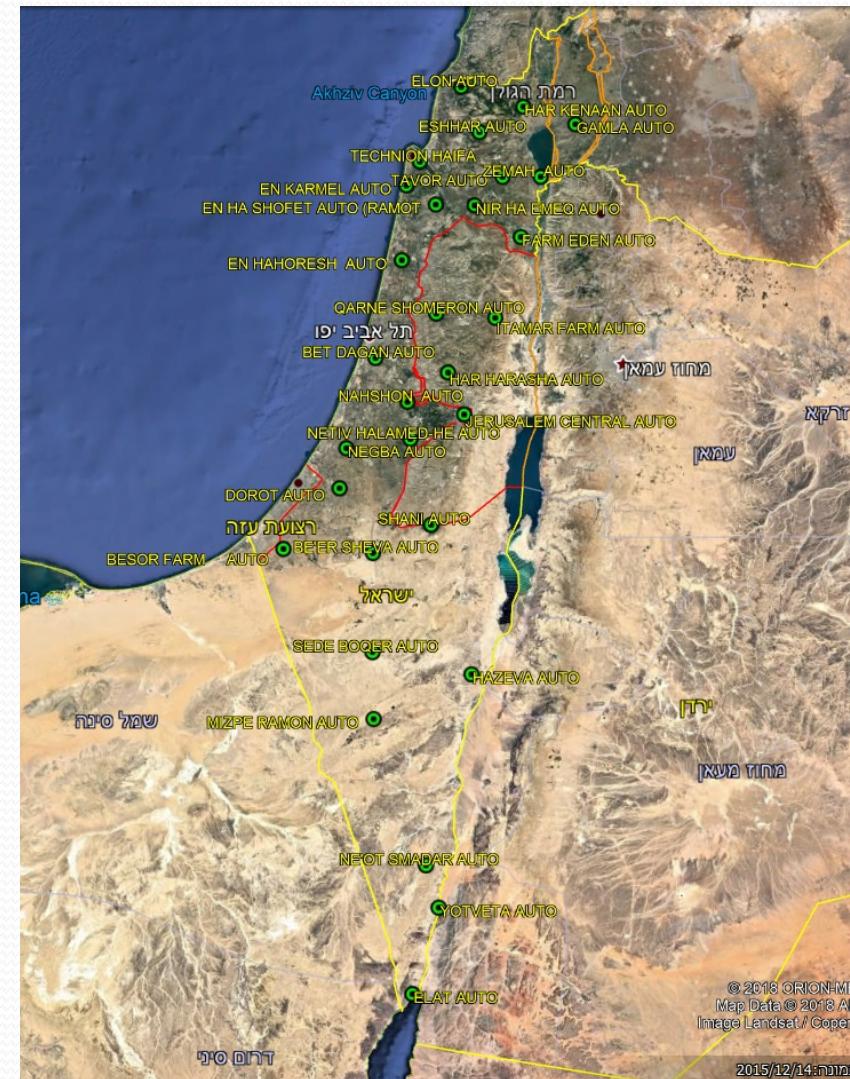
- 35 land stations (T, RH)
- 8 upper-air (not shown)

EU

- 44 land stations (T, RH)
- 3 soil stations (T_SO, W_SO)
- 40 upper-air (not shown)



Verification



PT Terra Nova - verification

MAE

TT - MAM

24h 06h 12h 18h

st_name	00	V50	Cbasic	dvO	Adv	06	V50	Cbasic	dvO	Adv	12	V50	Cbasic	dvO	Adv	18	V50	Cbasic	dvO	Adv
PAYERNE6610	1.2	0.9	0.9	0.9	0.9	1.3	0	0	0	0	1.8	-0	0	-0	0	1.8	0	0.4	0.3	0
KLOTEN	1.5	0	0	0	0	4.5	0	0	0	0	2	-1	0	-0	0	2.4	-1	0.4	0	0
ZOLLIKOFEN	1.7	0	0	0.2	0	4.2	0	0	0	0	2	-0	0	-0	0	2.1	-0	0.3	0	0
SAMEDAN	3.6	0	0	0	0	9.2	0	0	0	0	13	-1	-1	-1	-1	11	-1	0	0	0
SION	6.3	-1	0.2	0.1	0	5.9	-1	0	0	0	7.6	-1	-1	-2	-1	11	-1	0	-1	0
HORNLI_RHB	1.5	0	0	0.2	0	4.4	0	0	0.3	0	1.6	0.4	0	0.2	0	1.4	0.3	0	0.2	0
DAVOS	2.3	-0	0	0	0	5	-0	0	0	0	5.9	-1	-1	-1	-1	3.9	-1	0	0	0
BASEL_BINNINGEN	4.3	0	0.3	0.6	0	10	0	0.2	0	0	5.2	-1	0	-0	0	8.8	-1	0.4	0	0
LINDENBERG10393	1.2	0	0.2	0	0	1.1	0	0	0	0	1.5	0	0	0	0	1.3	0	0.6	0.6	0
NIMES_COURBESSAC7	1.8	0.2	0.2	0	0	1.9	0.2	0.2	0	0	2.1	0	0	0	0	1.9	0.2	0.7	0.9	0
AJACCIO7761	1.5	0	0	0.4	0	1.6	0	0	0	0	1.8	0	0	0.3	0	1.9	0	0.6	0.6	0
SCHLESWIG10035	1.2	0	0.2	0	0	1.2	0	0	0	0	1.4	-0	0	0	0	1.2	0	0.3	0	0
GREIFSWALD10184	1.2	0	0.2	0	0	1.3	0	0.2	0	0	1.6	0	0	0	0	1.3	0	0.3	0.2	0
BERGEN10238	1.5	0	0	0	0	1.3	0	0	0	0	1.9	-1	0.3	0	0	1.7	0	0.5	0.4	0
MEPPEN10304	1.7	0	0	0	0	4.4	0	0	0	0	4.8	-0	0	0	0	1.3	0	0.5	0.4	0
ESSEN_BREDENEY104	1.5	0	0.5	0	0	1.4	0	0.2	0	0	1.7	0	0	0	0	1.7	0	0.6	0.3	0
MEININGEN10548	1.3	0	0.3	0.4	0	1.3	0	0	0	0	1.4	0	0	0	0	1.6	0	0.5	0.4	0
IDAR_OBERSTEIN10618	1.5	0	0	0	0	4.7	0	0	0	0	1.9	-1	0.2	0	0	2.5	-0	0.6	0.2	0
STUTTGART_SCHNARRE	1.6	0.5	0.5	0	0	1.3	0	0.3	0.2	0	1.5	0	0	0	0	2.2	-0	0.5	0.2	0
KUEMMERSBRUCK10771	1.3	0	0	0	0	1.5	0	0	0	0	1.6	-0	0	0	0	2.1	-0	0.6	0.4	0
ALTENSTADT10954	1.4	0	0	0	0	1.4	0	0	0	0	1.8	-0	0	0	0	1.6	-0	0.4	0.2	0
HOHENPEISSENBERG11	1.7	0	0	0.6	0	1.8	0	0	0.6	0	1.9	0.3	0	0	0	1.5	0	0	0.3	0
LINZ_HOERSCHING_FLU	1.3	0	0.2	0.2	0	4.4	0	0	0	0	1.5	0	0	0	0	4.8	0	0.4	0.3	0
WIEN_HOHE_WARTE11	1.6	0.4	0	0	0	7.9	0	0.4	0	0	1.8	0	0	0	0	7.6	0	0.5	0.3	0
INNSBRUCK_FLUGHAFEN	3.9	-1	0	0	0	3.1	-1	0	0	0	5.6	-1	0	-1	0	5.9	-1	0	0	0
GRAZ_THALERHOF_FLU	1.6	0	0	0	0	1.9	0	0	0	0	1.6	0	0	0.2	0	1.8	0	0.5	0.4	0
PRAHA_LIBUS11520	1.3	0	0.2	0.2	0	1.2	0	0.2	0	0	1.5	0	0	0	0	1.3	0	0.5	0.7	0
PROSTEJOV11747	1.7	0	0	0	0	1.5	0	0.2	0	0	1.4	0	0	0	0	1.4	0	0.3	0.4	0
LJUBLJANA_BEZIGRAD	4.5	0.6	0.6	0	0	1.4	0	0	0	0	1.9	0	0	0	0	5.6	0	0.4	0	0
ZAGREB_MAKSIMIR142	1.9	0.2	0	0	0	2.1	0	0.3	0	0	2.2	0	0.2	0	0	2.4	0	0.5	0.3	0
MILANO_LINATE16080	1.6	0.4	0.6	0	0	2.1	0	0.3	0.4	0	2	0	0	0	0	2.4	0	0.2	0.4	0
PRATICA_DI_MARE1624	1.5	0	0.3	0.3	0	1.3	0	0.2	0.4	0	1.2	0	0	0	0	1.4	0	0.5	0.6	0
BRINDISI16320	1.1	0	0	0	0	1.3	0	0	0.3	0	1.5	-0	0	0	0	1.8	0.2	0.2	0.5	0
TRAPANI_BIRGI16429	1.4	0	0	0	0	1.3	0	0	0	0	1.2	0	0	0	0	1.3	0	0.2	0.4	0
DECIMOMANNU16546	4.6	0	0.3	1.1	0	1.7	0	0	0	0	1.6	0	0	0.2	0	1.8	0.3	0.6	0.8	0
MEAN	2	1.9	2.1			2.9	2.8	3	2.9		2.6	2.3	2.6	2.4		3	2.9	3.4	3.3	
STD	1.2	1.1	1.3	1.3		2.4	2.3	2.3	2.3		2.4	2.1	2.2	2.1		2.7	2.5	2.6	2.5	

WHITE is GOOD
BLACK is BAD



GREEN is GOOD
RED is BAD



PT Terra Nova - verification



IMS

MAE

TT - MAM₂₄

M

18b

st_name	00	V50	3asicdvO1	Adv	06	V50	3asicdvO1	Adv	12	V50	3asicdvO1	Adv	18	V50	3asicdvO1	Adv	00	V50	3asicdvO1	Adv	06	V50	3asicdvO1	Adv	12	V50	3asicdvO1	Adv	18	V50	3asicdvO1	Adv
PAYERNE6610	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.8	-0.0	0.0	-0.0	1.8	-0.4	0.3	0.0	0.2	0.5	-0.0	-1.0	0.2	0.5	-0.0	-0.0	-1.0	-1.0	-1.0	-2.0	-2.0			
KLOTEN	1.5	0.0	0.0	0.0	4.5	0.0	0.0	0.0	2	-1.0	0.0	-0.0	2.4	-1.0	0.4	0.0	-0.0	0.2	-1.0	-1.0	2.6	2.8	2.2	2.1	-2.0	-1.0	-2.0	-1.0	-3.0	-2.0		
ZOLLIKOFEN	1.2	0.0	0.0	0.2	4.2	0.0	0.0	0.0	2	-0.0	0.0	-0.0	2.1	-0.0	0.3	0.0	0.0	0.2	-1.0	-1.0	2.9	3.1	2.6	2.4	-2.0	-1.0	-2.0	-1.0	-2.0	-2.0		
SAMEDAN	3.6	0.0	0.0	0.0	9.2	0.0	0.0	0.0	13	-1.0	-1.0	-1.0	11	-1.0	0.0	-0.0	-3.0	-3.0	-3.0	3.6	3.8	3.8	3.6	-1.0	0.0	-0.0	0.9	1.5	1.2	1.4		
SION	6.3	-1.0	0.2	0.0	5.9	-1.0	0.0	0.0	7.6	-1.0	-1.0	-2.0	11	-1.0	0.0	-1.0	-6.0	-6.0	-7.0	-6.0	-6.0	-5.0	-5.0	-6.0	-8.0	-6.0	-7.0	-6.0	-5.0	-4.0	-5.0	
HORNLI_RHB	1.5	0.0	0.0	0.2	4.4	0.0	0.0	0.3	1.6	0.4	0.0	0.2	1.4	0.3	0.0	0.2	0.1	0.5	-0.0	-0.0	3.3	3.7	3.0	3.1	0.8	1.6	0.5	1.2	0.5	1.1	0.4	
DAVOS	2.3	-0.0	0.0	0.0	5	-0.0	0.0	0.0	5.9	-1.0	-1.0	-1.0	3.9	-1.0	0.0	-0.0	-2.0	-2.0	-2.0	-2.0	-2.0	1.0	1.6	1.3	1.3	-6.0	-5.0	-5.0	-5.0	-4.0	-3.0	-4.0
BASEL_BINNINGEN	4.3	0.0	0.3	0.6	10	0.0	0.2	0.0	5.2	-1.0	0.0	-0.0	8.8	-1.0	0.4	0.0	2.2	2.5	1.7	1.6	8.4	8.7	8.1	8.1	1.4	2.3	1.3	2	3.9	4.6	3.4	3.9
LINDENBERG10393	1.2	0.0	0.0	0.2	1.1	0.0	0.0	0.0	1.5	0.0	0.0	0.0	1.3	0.0	0.6	0.6	-0.0	-0.0	-1.0	-1.0	-0.0	-0.0	-1.0	-1.0	-0.0	0.1	-1.0	-0.0	-1	-1	-2	-2
NIMES_COURBESSAC	1.8	0.2	0.2	0.2	1.9	0.2	0.2	0.2	2.1	0.0	0.0	0.0	1.9	0.2	0.7	0.9	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-2.0	-2.0	-2.0	-3	-3	-3	-3	
AJACCIO7761	1.5	0.0	0.0	0.4	1.6	0.0	0.0	0.0	1.8	0.0	0.0	0.3	1.9	0.0	0.6	0.6	0.8	0.8	0.2	-1	0.5	0.5	0.3	-1	-1	-1	-1	-2	-2	-3	-3	
SCHLESWIG10035	1.9	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.4	-0.0	0.0	0.0	1.2	-0.0	0.3	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-0.0	-1	-1	-1	-1	-1	-1
GREIFSWALD10184	1.2	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.3	0.0	0.3	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-0.0	0.1	-1	-1	-1	-1	-1	-1
BERGEN10238	1.5	0.0	0.0	-0	1.3	0.0	0.0	0.0	1.9	-1.0	0.3	-0	1.7	-0.0	0.5	0.4	0.4	0.5	-0	0.3	-0	0.1	-0	0.2	-1	-1	-2	-2	-1	-2	-2	
MEPPEN10304	1.7	0.0	0.0	-0	4.4	0.0	0.0	0.0	4.8	-0.0	0.0	-0	1.3	0.0	0.5	0.4	-0.0	-0.0	-1	-0	2.6	2.7	2.4	2.9	2.3	2.9	2	2.1	-1	-1	-2	
ESSEN_BREDENEY104	1.5	0.0	0.5	0.0	1.4	0.0	0.2	0.0	1.7	0.0	0.0	-0	1.7	-0.0	0.6	0.3	-1.0	-1.0	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2		
MEININGEN10548	1.3	0.0	0.3	0.4	1.3	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.6	0.0	0.5	0.4	-0.0	-0.0	-1	-1	-0	-0	-0	-0	0	0.4	-1	-0	-1	-2	-2	
IDAR_OBERSTEIN10618	1.5	0.0	0.0	0.0	4.7	0.0	0.0	0.0	1.9	-1.0	0.2	-0	2.5	-0.0	0.6	0.2	0.1	0.2	-1	3.4	3.5	3.1	3.3	-1	-1	-2	-1	-2	-3	-3		
STUTTGART_SCHNARF	1.6	0.0	0.5	0.5	1.3	0.0	0.3	0.2	1.5	-0.0	0.0	-0	2.2	-0.0	0.5	0.2	-2	-1	-2	-2	-1	-1	-1	-1	-1	-2	-2	-3	-2	-3	-2	
KUEMMERSBRUCK10771	1.3	0.0	0.0	0.0	1.5	0.0	0.0	0.0	1.6	-0.0	0.0	-0	2.1	-0.0	0.6	0.4	0.1	0.3	-1	0.4	0	0.5	0	0.4	-1	-0	-2	-1	-2	-3		
ALTENSTADT10954	1.4	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.8	-0.0	0.0	-0	1.6	-0.0	0.4	0.2	0.3	0.6	-0	0	-1	-1	-0	-0	-1	-1	-1	-2	-1	-2		
HOHENPEISSENBERG1	1.7	0.0	0.0	0.6	1.8	0.0	0.0	0.6	1.9	0.3	0.0	-0	1.5	0.0	0.0	0.3	-0	0	-1	-1	-0	0.8	1.7	0.7	1.2	0.2	0.9	0	0.1			
LINZ_HOERSCHING_FLU	1.3	0.0	0.2	0.2	4.4	0.0	0.0	0.0	1.5	0.0	0.0	-0	4.8	-0.0	0.4	0.3	-0	0	-1	-1	2.6	2.9	2.4	2.6	-1	0.1	-1	-0	1.5	2.1	1	1.4
WIEN_HOHE_WARTE	1.1	0.6	0.4	0	7.9	0.0	0.4	0	1.8	0.0	0.0	-0	7.6	0.0	0.5	0.3	-1	-1	-2	-2	4.5	4.8	4.1	4.9	-1	-1	-1	-1	4.6	4.9	4	4.5
INNSBRUCK_FLUGHAF	3.9	-1.0	0.0	0	3.1	-1.0	0.0	0	5.6	-1.0	0.0	-1	5.9	-1.0	0.0	0	-4	-3	-4	-4	-3	-2	-3	-3	-4	-3	-4	-3	-6	-5	-6	
GRAZ_THALERHOF_FLU	1.6	0.0	0.0	0	1.9	0.0	0.0	0	1.6	0.0	0.0	-0	1.8	0.0	0.5	0.4	0.6	0.7	-0	-0	0.6	0.8	0.2	0.3	-1	-1	-1	-1	-2	-1	-2	
PRAHA_LIBUS11520	1.3	0.0	0.0	0.0	1.2	0.0	0.0	0	1.5	0.0	0.0	-0	1.3	0.0	0.5	0.7	-0	0	-1	-1	-1	-0	-1	-1	-1	-1	-1	-2	-2	-2		
PROSTEJOV11747	1.7	0.0	0.0	0.0	1.5	0.0	0.2	0	1.4	0.0	0.0	-0	1.4	0.0	0.3	0.4	0.4	0.5	-0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
LJUBLJANA_BEZIGRAD	4.5	0.6	0.6	0.0	1.4	0.0	0.0	0.0	1.9	0.0	0.0	-0	5.6	0.0	0.4	0.0	2.1	2.2	1.4	1.4	-0	0	-1	-1	-1	-1	-1	-2	-1	-2	0.9	
ZAGREB_MAKSIMIR142	1.9	0.2	0.0	0	2.1	0.0	0.3	0.0	2.2	0.0	0.2	-0	2.4	0.0	0.5	0.3	-1	-1	-1	-1	-2	-1	-2	-2	-2	-2	-2	-3	-3	-3		
MILANO_LINATE16080	1.6	0.4	0.6	0.0	2.1	0.0	0.3	0.4	2	0.0	0.0	-0	2.4	0.0	0.2	0.4	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2		
PRATICA_DI_MARE1624	1.5	0.0	0.0	0.3	1.3	0.0	0.2	0.4	1.2	0.0	0.0	-0	1.4	0.0	0.5	0.6	-0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2		
BRINDISI16320	1.1	0.0	0	0	1.3	0.0	0	0	1.5	-0	0	0	1.8	0.2	0.2	0.5	-0	0	-0	-0	0.8	0.9	0.9	1.3	-1	0	-0	-0	-2	-2	-2	
TRAPANI_BIRGI16429	1.4	0.0	0.0	0	1.3	0.0	0	0	1.2	0.0	0	-0	1.3	0.0	0.2	0.4	0	0	0	0	-0	-0	-0	-0	-1	-1	-1	-1	-2	-2		
DECIMOMANNU16546	4.6	0.0	0.3	1.1	1.7	0.0	0	0	1.6	0.0	0	-0	1.8	0.3	0.6	0.8	2.7	2.2	1.7	0.7	-0	-0	-1	-1	-1	-1	-2	-2	-2	-3		
MEAN	2	1.9	2.1		2.9	2.8	3	2.9	2.6	2.3	2.6	2.4	3	2.9	3.4	3.3	-0	-0	-1	-1	0.5	0.7	0.3	0.4	-1	-1	-1	-1	-2	-1		
STD	1.2	1.1	1.3	1.3	2.4	2.3	2.3	2.3	2.4	2.1	2.2	2.1	2.7	2.5	2.6	2.5	1.6	1.4	2.4	2.4	2.4	2.4	2.4	2.4	1.7	1.6	1.6	1.9	1.9	1.9		

TT - JJA
MAE
ME

st_name	00	V50	Casi	dvO	Adv	06	V50	Casi	dvO	Adv	12	V50	Casi	dvO	Adv	18	V50	Casi	dvO	Adv	00	V50	Casi	dvO	Adv	06	V50	Casi	dvO	Adv	12	V50	Casi	dvO	Adv	18	V50	Casi	dvO	Adv	
PAYERNE6610	2.3	-1	-1	-1		1.3	-0	-0	0		1.8	-0	0	0.2		1.4	-0	0	1		2	0.8	0.4	-1		0.7	-0	-0	-1		0.5	-0	-0	-1		0	-1	-1	-2		
KLOTEN	1.6	-0	-0	0.2		4.2	0.2		1.3		1.8	-0	0	1.5		5.1	0.9	0.9	2		1	0.2	-0	-2		2.5	2	1.9	0.8		-1	-2	-2	-3		1.6	0.5	0.5	-1		
ZOLLIKOFEN	1.5	-0	-0	0.7		1.1	-0	0.2	1		1.6	-0.2	0	0.7		1.8	0.9	0.9	1.9		1	-0	-0	-2		0	-1	-1	-2		-0	-1	-1	-2		-1	-2	-2	-3		
SAMEDAN	2.3	0	0.6	0.9		2	-0	0			4.1	-0	0.7	0.8		3.6	-0	0.9	1.3		-2	-2	-3	-3		-1	-1	-1	-2		-4	-4	-5	-5		-3	-3	-4	-5		
SION	4.2	0	1.6	2.6		4.7	0.2	0.8	1.9		4.9	0.2	0.9	1.6		5.7	-	1.5	2.2		-4	-5	-6	-7		-5	-5	-6	-7		-5	-5	-6	-7		-6	-6	-7	-8		
HORNLI_RHB	1.6	0	0	0.8		1.5	-0	-0	0		2.2	-0	-0	0		1.6	-0	-0	0		0.7	0	-0	-2		0.8	0.3	0.3	-1		1.5	1.1	0.9	-1		1.1	0.3	0.1	-1		
DAVOS	1.6	-0	0.7			1.3	-0				3.4	-0	0.8	1		2.6	0	0.9	1.3		-1	-1	-2	-2		-1	-1	-1	-2		-3	-3	-4	-4		-2	-3	-3	-4		
BASEL_BINNINGEN	1.4	-0	-0	0.9							1.6	-0.2		1		1.7	0.9	0.7	1.8		0.8	-0	-0	-2		-0	-1	-1	-2		-1	-2	-2	-3		-1	-2	-2	-3		
LINDENBERG10393	1.5	0	-0			1.2	0	0			1.9	0	0			1.5	-0	0.3	0.5		0.5	-1	-1	-2		0.3	-1	0	-1		0.4	-0	0.2	-0		-0	-1	-1	-1		
NIMES_COURBESSAC7	1.8	-0	-0	0.6		1.4	0.6	0.7	1.3		1.6	-0	0.5	0.5		1.3	0.3	0	1.4		1.2	0	-1	-2		-1	-2	-2	-3		0.6	0.3	0.6	-1		0	-1	-1	-2		
AJACCIO7761	1.4	-0	-0	1.2							1.5	0	0.2	0.2		1.4	0.2	0	1.4		1.1	0.5	0.2	-2		0.2	0	0.2	-1		0.2	0.1	0.2	-1		-1	-1	-2	-3		
SCHLESWIG10035	0.9	-0	-0			1.1	0	0.2	0		1.5	-0	0	0		1.1	0.3	0.3	0		0.1	-0	-0	0		-1	-1	-1	-2		-1	-1	-1	-1		-1	-1	-1	-1		
GREIFSWALD10184	1.4	-0	-0	-0		1.1	0	0	-0		1.6	-0	-0	0		1.2	0.2	0.2	0		0.7	0	0	-1		-0	-1	-0	-0		0.4	0.1	0.3	-0		-1	-1	-1	-2		
BERGEN10238	1.6	-0	-0	-0							1.7	-0.9	0.9	0.9		1.6	-0	0.2	0.8		0.9	0.3	0.1	-0		-0	-1	-1	-1		-0	-1	-0	-1		-1	-2	-1	-2		
MEPPEN10304	1.6	-0	-0	-0		1.3	0	-0	0		1.6	0	-0	0.3		1.4	-0.1	0.3	0.7		0.7	0.2	-0	-0		-0	-1	-1	-0		0.1	-0	-0	-1		-1	-1	-1	-2		
ESSEN_BREDENEY104	1.1	0.2	0.2	0.2		1.2	0	0.2	0.2		1.7	-0	0.2	0.2		1.4	0.2	0	0		0.1	-1	-1	-1		0.4	-1	-1	-2		0.7	-0	0.1	-1		-0	-1	-1	-3		
MEININGEN10548	1.3	0.2	0.2	1		1.3	0	-0	0.2		1.8	-0	0.2	0.2		1.5	0.7	0.5	1.6		1.2	0.2	0	-1		0.8	0.1	0.3	-0		-0	-1	-1	-2							
IDAR_OBERSTEIN10618	1.8	-1	-0			1.4	-0	-0			1.5	-0	0.2	1		2	1	0	1.6		1.2	0.2	0	-1		0.1	-1	-1	-2		-0	-1	-1	-2		-2	-3	-2	-3		
STUTTGART_SCHNARE	1.1	0.7	0.7	1.3		1.1	0.2		0.5		1.6	0.2	0.2	0.7		1.8	1.1	0.3	1.4		0	-1	-1	-2		0.1	-1	-1	-1		0.2	-1	0	-1		-1	-3	-2	-3		
KUEMMERSBRUCK1077	1.4	-0	-0	0.9		1.3	-0	-0	0		1.7	-0	0.2	1.3		2.3	1.1	0.6	1.9		0.9	-0	-0	-1		0.6	-0	-0	-1		-0	-2	-1	-3		-2	-3	-3	-4		
ALTENSTADT10954	1.6	-0	-0	-0		1.4	-0	-0	0		1.7	-0.3	0.3	1.1		2.1	-0	0	1.3		1.2	0.5	0.3	-1		0.9	0.4	0.4	-0		-1	-1	-1	-3		-1	-2	-2	-3		
HOHENPEISSENBURG1	2			1.1		2		-0	0		2	-0	-0	0		1.6	-0	0	0		0	-1	-1	-2		0.1	-0	-0	-1		1.1	0.6	0.7	-1		0.6	-0	-0	-1		
LINZ_HOERSCHING_FLU	1.3	0.2	0.9	1.2							1.7	-0	0.7	0.7		2.5	-0	0.6	1.3		0.1	-1	-1	-2		-1	-1	-1	-2		-1	-2	-1	-2		-2	-3	-3	-4		
WIEN_HOHE_WARTE	1.3	0.3	0.8	1.5							1.7	-0	0	0		2	0	0	0		-0	-1	-1	-2		-1	-2	-2	-2		-1	-2	-1	-2		-1	-2	-2	-2		
INNSBRUCK_FLUGHAF	2.9	0.2	1	1.4		2.5	-0	0.3	1.3		4.9	0.2	0.8	1.5		4.8	-0	0.9	1.5		-3	-3	-4	-4		-2	-2	-3	-4		-3	-3	-4	-5		-5	-5	-6	-6		
GRAZ_THALERHOF_FLU	1.7	-0	-0	-0		1.1	-0	0			1.2	-0	0.2			1.4	-0.5	0	1.1		1.3	0.7	0.3	-1		0.3	-0	0.1	-1		-0	-1	-1	-2		-1	-2	-2	-2		
PRAHA_LIBUS11520	1.2	0.3	0.7	1.3		1.3	0	0.3	0.2		2	0.7	0	0.5		2	1.1	0.3	1.1		0.1	-1	-1	-2		-1	-2	-1	-2		-1	-3	-2	-3		-1	-2	-2	-3		
PROSTEJOV11747	1.7	-0	-0	-0		1.6	-0	0.2			2.2	-0	0	0		1.9	0.9	0.6	1.4		1.1	0.3	0.1	-1		-1	-1	-2	-1		-2	-2	-2	-2		-1	-2	-2	-3		
LJUBLJANA_BEZIGRAD	1.5	-0	-0	0.9		1.2	-0	-0	0		1.8	0	-0	0.8		1.8	-0	0.6	1.3		0.7	-0	-1	-2		0.6	0.2	0.1	-1		-0	-1	-1	-2		-1	-2	-2	-3		
ZAGREB_MAKSIMIR142	2.1	-1	-1	-1		1.2	-0.2	0.2	0		1.4	0	0	0.5		1.9	-0.5	0	1.3		1.6	0.4	0.4	-1		-0	-1	-1	-1		0.3	-1	-1	-2		-0	-2	-2	-3		
MILANO_LINATE16080	1.6	-0	0	0.8		1.5	0.2		0.8		2.4	-1	-1	0		2.3	-0	-0			0.5	-1	-1	-2		-1	-2	-2	-2		1.5	0.1	0.3	-1		0.8	-1	-1	-2		
PRATICA_DI_MARE16224	1.1	-0	-0	0.7		1.1	0	0	0		0.9	0	0.2	0		1.2	0.3	0.3	0.9		0.6	0	0.1	-2		-0	-1	-1	-1		0.3	0.2	0.2	-0		-1	-1	-1	-2		
BRINDISI16320	1	0.1	0	0.6		1.3	0	0	0.4		1.1	0.1	0.1	0.2		2	0.3	0.1	0.6		-0	-1	-1	-1		1.1	1.1	1.1	1.4		0.7	0.7	0.6	0.7		-2	-2	-2	-3		
TRAPANI_BIRGI16429	1.5	0	0	0.2		1	0	0	0.2		1.1	0				1.6	0.2	0.3	0.5		-0	-1	-1	-1		0.1	0.1	0.2	0.6		0.5	0.5	0.6	0.8		-2	-2	-2	-2		
DECIMOMANNU16546	0.9	0	0	1.7		1.1	0.2	0	0		1.4	-0				1.7	-0	0.3	0.9		-0	-1	-1	-3		-0	-1	-1	-1		0	0	0	-1		-1	-2	-2	-2		
MEAN				1.5		2.2		1.5	1.6		1.9		2	2	2.1	2.5		2.1	2.5	2.5	3.2		0.3	-0	-1	-2		-0	-1	-1	-1		-0	-1	-1	-2		-1	-2	-2	-3
STD				0.6	0.7	0.9	1	0.8	0.8	0.9	1.2		0.9	0.9	1.1	1.2		1.1	1.2	1.3	1.4		1.2	1	1.2	1.2		1	1	1	1.2		1.4	1.3	1.6	1.5		1.4	1.2	1.4	1.4

MAE

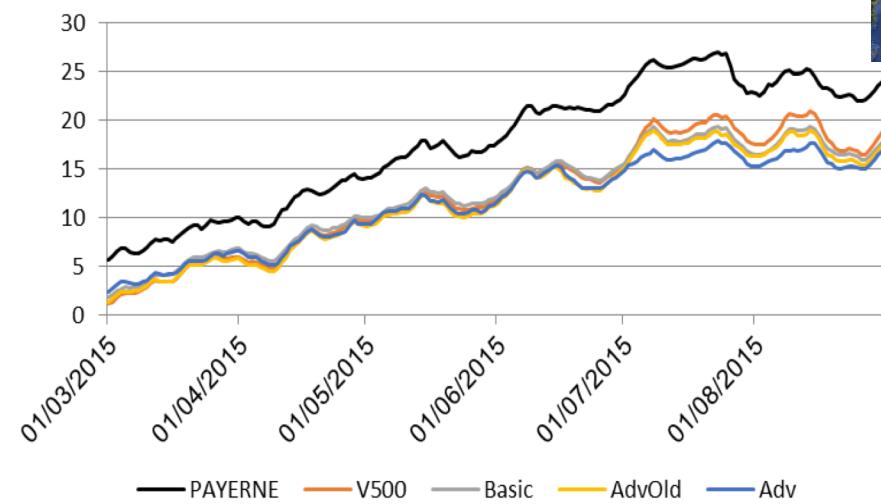
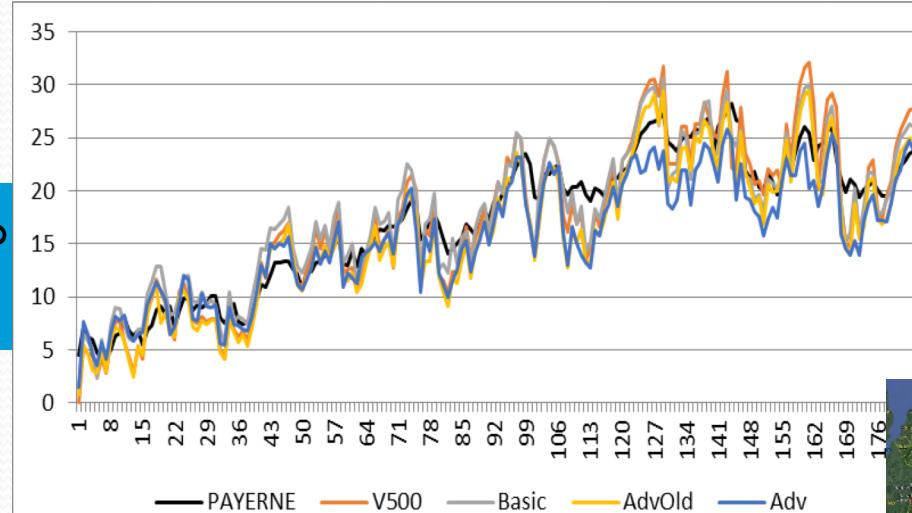
RH - JJA

ME

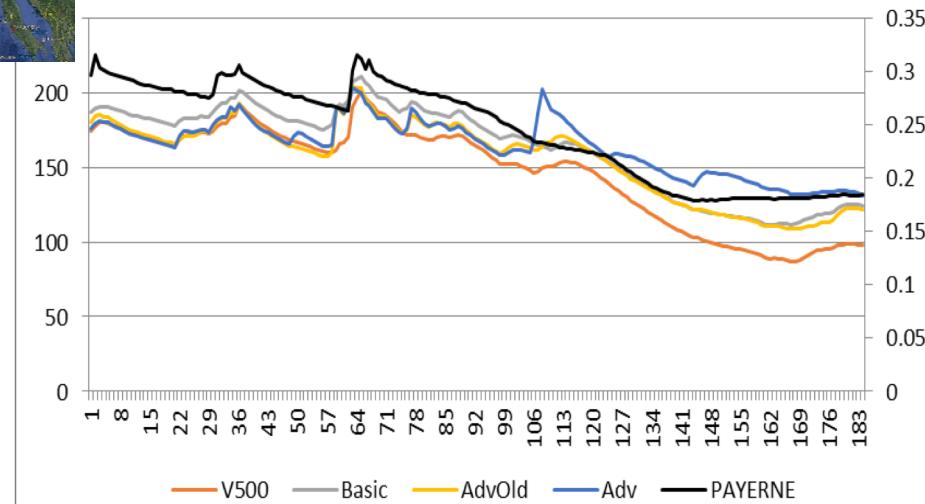
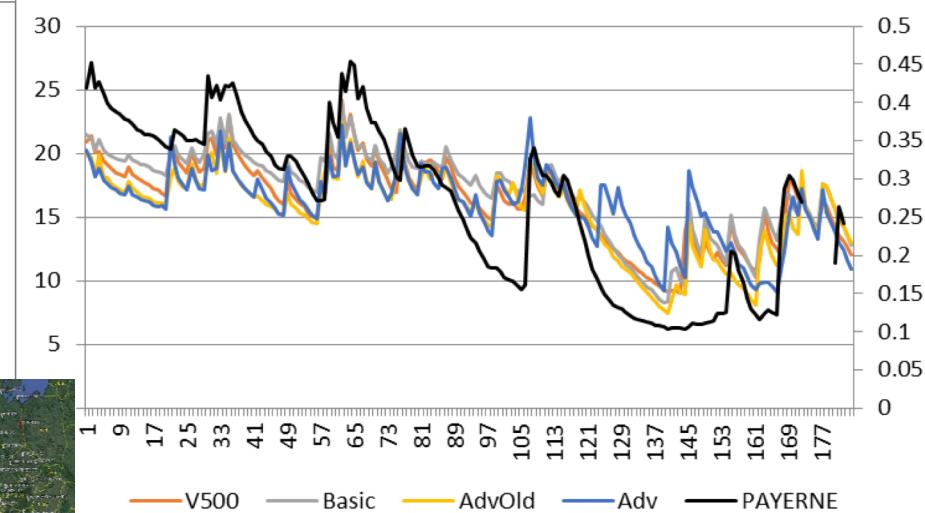
st_name	00	V50	Casi	dvO	Adv	06	V50	Casi	dvO	Adv	12	V50	Casi	dvO	Adv	18	V50	Casi	dvO	Adv	00	V50	Casi	dvO	Adv	06	V50	Casi	dvO	Adv	12	V50	Casi	dvO	Adv	18	V50	Casi	dvO	Adv
PAYERNE6610	14	-6	-6	-6		11	-3	-3	-4		9.1	0	0		8.6	1	1	3.3		-12	-4	-4	3.4		-7	-2	-2	0.5		-3	3.6	3.3	2.2		-2	7.2	7.6	8.8		
KLOTEN	8.1	-1	-2			8.1	0	0	0.3		11	3.1	1	5.9		14	5.9	5.5	14		-4	0.5	1.5	8.5		0.4	3	3.5	8.6		7.8	11	12	16		11	18	18	27	
ZOLLIKOFEN	12	-4	-4	-2		10	-3	-2	-3		8.6	0	0	0.3		10	6.1	3.9	11		-9	-2	-2	7.3		-6	0.1	-0	3.8		0.9	8.1	5.9	8.8		3.7	14	12	19	
SAMEDAN	8.1	-1	-0.5	-1		12	-3	-3	-5		12	-3	-2	0.4		15	-2	3.1			-4	-6	-1	1.4		-11	-13	-8	-6		6	3	12	10		5.9	3.6	14	14	
SION	11	-1	0.5	2		9.2	0	0	2.7		13	-2	0			16	0.8	7.1	7.9		0.3	2.2	6.7	9.6		2	2.1	6.1	9.9		3.7	5.5	11	12		11	15	21	23	
HORNLI_RHB	11	0.3	1.2	5		10	0	0	2.5		12	-1	-1	-1		11	0	0	8.5		3.2	7	5.6	13		0	3	3.4	10		-4	-2	0.8	6.1		3.3	7.8	9.9	18	
DAVOS	7.8	0.1				8.2	0	0	-2		16	-3	5.3	3.8		14	0	6	6.9		-2	-4	0.5	3.2		-5	-6	0.3	2.7		12	8.9	20	18		11	9.8	19	19	
BASEL_BINNINGEN	9.7	-3	-3	0.3		0.4	0	0	2.9		7.9	0	0	0.3		11	6	3.9	11		-8	-0	-2	8.5		-2	4.3	3.9	8.5		0.6	6.6	5.4	9		5.4	15	14	21	
LINDENBERG10393	12	0.6	0.6	0.6		10	0	-1	-1		9.6	0.4	0.2			10	3.7	0.9	0		-4	5.5	0.9	8.1		-5	1.9	-1	0.2		-1	4.2	1.4	0.8		-1	8.3	4.2	6	
NIMES_COURBESSAC7	11	-2	-3			7.8	0	0	0		7.2	0	0.2	0.1		8.1	0	1	3		-9	-4	-3	6.8		-4	0.9	-0	6.6		-5	-3	-4	2.4		-5	-2	-2	6.6	
AJACCIO7761	10	0.8				9.6	0.2	0.1	0		15	0.2	0.1	-4		11	0	0	0		-5	-5	-8	1.4		-2	-2	-4	-2		-13	-14	-14	-6		-6	-4	-5	6.9	
SCHLESWIG10035		-2	-2			7.0	0	0	0		8.9	0.6	-0.5			12	0	0	2.9		-4	-3	-2	-2		-2	-2	-0	-0		-2	2.4	0.1	3.4		0	4.5	3.9	6.4	
GREIFSWALD10184	10	-2	-2	-3		7.7	0	0	0		9.5	-1				8.3	0	0.6	0		-7	-2	-3	0.5		-1	1.3	0.6	0.6		-4	-1	-2	-1		1.6	6.1	4.6	8	
BERGEN10238	11	-2	-2	-5		8.2	0	0	-2		9.3	0	0	0		10	3.2	0	4.6		-8	-2	-3	0		-3	0.8	-0	0		0.3	5.7	2	5.2		2.1	9	5.4	10	
MEPPEN10304	8	-1	0	-1		7.6	0	0	0		10	0	0.5	0.4		11	0	0	4.4		-1	1.8	2.3	4.3		0.2	1.8	2.1	1.8		0.9	4.6	4.2	4.4		4.7	9.2	9.2	13	
ESSEN_BREDENEY104	10	-1	-2	-1		9.4	0.3	-1			11	0	0	0		11	0	1	2.0		-5	2.4	0.8	4.4		-4	0.8	-1	0.1		-4	0.9	-3	0.1		-0	7.1	3.4	8.8	
MEININGEN10548	9.2	0	0.4	4.2		9.6	-2	1			9.6	0	0	0		11	5.6	0	9.4		-3	6.5	4.3	11		-4	2.7	-0	3.6		-2	4.7	2.3	7.4		1.5	13	8.7	18	
IDAR_OBERSTEIN10618	12	-3	-2	-2		11	-3	-1	-4		9.2	0	0.2	0.1		12	6.7	0.4	7.2		-9	-0	-3	4.9		-9	-2	-6	-2		-2	5.1	1.3	5.6		3.8	15	8.5	17	
STUTTGART_SCHNARF	8.9	3.3	0.4	6.1		8.6	0	0	0		7.6	4.3	0	3.5		11	8.7	0	8.3		-1	8.9	4.6	13		-1	6.6	3.1	7.1		1.6	9	4.7	6.1		5.3	17	11	16	
KUEMMERSBRUCK10771	9.6	1	0.8	0		0.4	0	0	0.9		9.2	3.4	0.6	5.2		14	6.8	3.2	13		-2	6.1	5.4	9.7		-2	3.6	3.1	5.1		1.7	8.9	5.8	13		9.8	19	16	27	
ALTENSTADT10954	8.1		0.4			9	-2	-2	-3		11	0	0	1		15	0.5	2.5	8.5		-3	-0	-0	5.8		-7	-3	-3	2		5.4	8.1	9.9	14		9.9	14	15	22	
HOHENPEISSENBERG115	15	0.5	0.2	5.3		13	0	0	6		12	0	0.5	3.3		17	0.4	0	7.2		6.1	8.6	9	16		5	8	8.3	14		2.2	4.6	5.7	9.9		10	14	15	21	
LINZ_HOERSCHING_FLU	8.4	2.5	0	4.3		9.5	0	1	0.9		12	2.7	0	0.7		17	3.3	4.1	6.8		3	6	8.1	12		6.2	7	8.9	8.9		11	14	14	13		15	18	19	22	
WIEN_HOHE_WARTE111	11	11	0.9	0		11	0.7	0.4	-2		9.4	0	0	0.2	0.7	14	4.1	2.0	0		4.2	8.9	8.8	11		6.6	9.4	9.1	5.6		4.4	8.2	6.1	5.4		9.1	14	13	12	
INNSBRUCK_FLUGHAF	11	-1	-2	-1		8.8	0	-2	-3							14	0	4.8	8.5		-5	-2	0.2	4.6		-6	-7	-4	1.9						11	13	18	21		
GRAZ_THALERHOF_FLU	13	-3	-4	-6		8.6	-2	-1	-2		8.5	3.3	0			10	4.1	2.8	6.4		-11	-8	-7	-1		-5	-2	-2	-1		2.8	9.1	7	6.7		5.3	11	10	14	
PRAHA_LIBUS11520	9.4	3.1	0.7	3.9		8.7	0	0	0.7		9.1	4	0	0.3		12	7.2	0	5.7		0.4	7.6	5.2	9.7		0.2	5.1	4.4	3.7		1.6	8.6	4.8	4.8		6.3	16	10	15	
PROSTEJOV11747	9.6	0	-1	-1		11	0	0.5			12	3	0	0		12	5.4	3	7.8		-4	0.4	0.8	3.9		5.7	8.3	9	7.1		8.2	12	11	10		9.5	16	14	19	
LJUBLJANA_BEZIGRAD	12	-4	-4	-2		11	-2	-3	-3		11	-1	0	0		13	0	0	7.8		-8	-2	-2	7.1		-7	-4	-4	1.4		0.3	5	5.1	8.8		4.6	12	13	20	
ZAGREB_MAKSIMIR142	15	-6	-6	-8		11	-1	-2	-2		7.5	0	0.2	0.1		13	0.7	0	4.1		-13	-4	-5	0.1		-4	3.2	3.4	5.9		-4	4.5	2.7	6.8		-3	8.3	6.2	15	
MILANO_LINATE16080	14	-4	-3			11	2	-2	0.3		11	1	1	0.5		14	1	0	4.6		-7	2.9	2	8.6		-3	3.6	4.1	8.3		-6	0.8	1.2	4.9		-3	6.4	6.8	15	
PRATICA_DI_MARE16224	10	0	-1	-3		13	0.3	0.7			12	0.8	0			11	0	0	-2		-7	-9	-10	1		-8	-8	-10	-6		-8	-8	-9	-5		-6	-5	-7	0.6	
BRINDISI16320	0	0	0	0.3		6.6	0	0	0.5		19	0	0	1		13	1	-1	-2		-3	-4	-5	2		-9	-10	-10	-9		-13	-14	-14	-13		0.5	1.5	0.2	4.2	
TRAPANI_BIRGI16429	7.4	0	0	0.3		6.6	0	0	0.5		19	0	0	1		13	1	-1	-2		1.8	2.7	3	4.9		-1	-1	-1	-3		-18	-18	-18	-19		-10	-8	-8	-7	
DECIMOMANNU16546	15	-2	-7	13		13	0	0	1		16	0	0.5			16	-2	1	-3		-14	-12	-13	-6		-13	-14	-15	-13		-15	-15	-16	-14		-15	-13	-15	-11	
MEAN		10	0	-3	10		-9.5	8.9	9.2		11	12	12	12		12	15	14	17		-4	0.2	-0	5.6		-3	0.1	0	2.4		-1	2.7	2.3	4.6		3.1	8.8	8.4	14	
STD		2.2	2.1	2	3.2		1.7	2.2	2.1	2.7		2.6	2.5	3.1	2.8		2.6	3.6	3.9	5.3		4.8	5.2	4.8	5.7		4.6	5.6	5.4	5.7		6.8	7.9	8.4	8.1		6.6	7.7	8.2	8.5

PAYERNE – soil parameters – 12Z

T_SO



W_SO



PT Terra Nova - verification

TT - JJA

MAE

ME

st_name	00	V50	Casi	dvO	Adv	06	V50	Casi	dvO	Adv	12	V50	Casi	dvO	Adv	18	V50	Casi	dvO	Adv	00	V50	Casi	dvO	Adv	06	V50	Casi	dvO	Adv	12	V50	Casi	dvO	Adv	18	V50	Casi	dvO	Adv
AFULA_NIR_HAEMEQ	1.7	-0	-0	-0	-0	2	-0	-0	-1	-0	1.1	-0	-0	-0	-0	0.9	-0.4	-0	-0	-0	1.1	-0	-0	-0	-0	-2	-2	-2	-1	-0	-0	-0	-0	-0	0	-1	-1	-1	-1	
BEER_SHEVA	1.3	-0	0.6	0.5	-0	1.2	-0	0.3	-0	-0	1.1	-0	-0	-0	-0	0.9	0.3	0.7	0.7	-0	1.1	-1	-1	-2	-1	-1	-1	0.3	0.4	0.3	-0	-1	-1	-2	-2					
BESOR_FARM	1.5	-0	-1	0	-0	0.9	-0	-0.3	-0	-0	2.2	0	-0	-0	-0	0.7	-0.2	0.4	0.3	-0	1.4	0.9	0.4	1	-0	-0	-0	0.3	2.2	2.2	2	1.6	0	-1	-1	-1				
BET_DAGAN	1.1	0.3	0.4	0.2	-0	1.4	-0	-0.3	-0	-0	1.2	0	-0	-0	-0	2.2	0.3	0.3	-0	-0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-3	-2	-2					
BET_HAARAVA	0.4	1.4	1.2	-0	-0	1	0	-0.2	-0	-0	4.4	-0.5	0.9	-0	-0	0.9	-0	0.4	0.3	-0	-0	-1	-2	-2	-2	-0	-0	-0	0.1	4.4	4.2	4.9	5.3	0	-1	-1	-1			
DAFNA	1.9	0.5	0.8	1.4	-0	1.9	-0	-0	-1	-0	1	-0	-0	-0	-0	1.5	0.7	1.1	1.1	-0	-1	-2	-2	-3	-2	-2	-2	-1	-0	-0	-1	-1	-1	-1	-2	-3	-3			
DOROT	1.5	-0	-0	-0	-0	1.4	-0	-0.4	-0	-0	1.1	0	-0	-0	-0	0.7	-0.1	0.0	0.0	-0	1.3	0.7	0.5	1.1	-1	-1	-1	-2	-1	-1	0.7	0.8	0.5	0.1	0.2	-1	-0	-0		
EDEN_FARM	1.5	0.2	0.2	-0	-0	1.2	0	-0.3	-0	-0	1.2	0	-0	-0	-0	1.5	0.4	0.5	0.3	-0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2						
ELAT	0.9	0.1	0.2	0.2	-0	1.3	0	0	-0	-0	1.9	0	-0	-0.9	-0	1.6	0	0	-0	-0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1					
ELON	1.5	0	0.3	0.3	-0	2.1	-0	-0	-1	-0	1.8	-0	-0	-0	-0	1.5	0.4	0.7	0.8	-0	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2						
EN_HASHOFET	0.9	0	0	0.3	-0	0.9	0	-0	-0	-0	1.6	0	-0	-0	-0	1	-0	-0	-0	-0	0.1	-0	-0	-0	-1	0	0	-0	0.8	1.4	1.5	1.4	1.4	0.7	0.2	0.2	0.2			
EN_KARMEL	1.5	0.1	0.2	0	-0	2	0	-0	-1	-0	1.2	0	0	-0	-0	1.6	0.4	0.6	0.4	-0	0.1	-0	-1	-0	-2	-2	-2	-1	-1	-1	-1	-2	-2	-2						
ESHHAR	1.1	0	0	0.2	-0	1	-0	-0	-0	-0	1.9	-0	-0	-0	-0	1.3	-0	-0	-1	-0	0.1	-1	-1	-1	-1	0.2	0.1	0	0.7	1.8	1.9	1.7	1.2	0.5	0.4	0.4				
EZUZ	1.6	0	0	-1	-0	1.2	-0	-0.2	-0	-0	1.8	0	-0	-0	-0	0.9	0	-0	-0	-0	1.3	1.2	1	0.5	-0	0	0	-0	-0.5	1.7	1.7	1.8	1.5	0.7	0.7	0.5	0.3			
GAMLA	1.4	-0	-0	-1	-1	1	0	0	0	-0	1.5	-0	0	-0.6	-0	1.5	-0	-0	-0	-0	0.8	0.1	0.1	0.1	0.1	0.4	0.2	-0	0.6	1.3	1.5	1.2	2	1.2	0.8	0.8	1.2			
HAIFA_TECHNION	1.3	0.2	0.3	0.4	-0	0.7	0	-0	-0.3	-0	2.2	-0	-0	-0	-0	0.7	-0.2	0.3	0.3	-0	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2						
HAR_HARASHA	1.2	0	-0.2	-0.2	-0	1.1	-0	-0.2	-0.3	-0	1.3	0	0	0	-0	1.4	-0	-1	-1	-0	0.4	0	-0	-1	-1	0.2	0.3	0.3	0.7	1	1	0.9	1	1.2	0.5	0.2	0.2			
HAZева	1.1	0	0	-0	-0	1	0	0	-0	-0	2.7	0	-0	-0.3	-0	1	0	-0	-0	-0	0.2	0	0	-0	-1	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0				
ITAMAR	2.5	-1	-1	-1	-1	2.2	0	0	-0.3	-0	2.3	0	-0	-0	-0	3	-1	-1	-1	-1	2.2	1.6	1.4	0.5	-2	2.1	2.1	2.1	2.4	2.3	2.4	2.2	2.3	3	2.1	1.9	1.7	1.7		
JERUSALEM_CENTRE	1.2	0	0	0.6	-0	1.2	0	0	0	-0	1.3	0	0	0	-0	1.1	-0.2	0	0	-0	0.1	-0	-0	-0	-2	-0	-0	-0	-0	0.9	1	0.9	1.1	0.2	-0	-1	-1			
MEROM_GOLAN_PICMAN	2.6	0	-0	-0	-0	2	-0	-0	-0	-0	1	0	0	0	-0	1.8	-0	-0	-0	-0	1.9	2	1.8	1.2	-2	-1	-1	-2	-1	0.3	0.2	-0	0.2	1.5	1.2	1	0.8			
MIZPE_RAMON	2.2	-0	-0	-1	-0	1.6	-0	-0.2	-0.2	-0	2.7	0	-0	-0.3	-0	2.4	-0	-0	-0	-0	2.1	1.9	1.8	1	-1	1.3	1.4	1.5	2.7	2.6	2.8	3	2.3	2.2	2.1	2				
NAHSNON	2.7	-1	-1	-1	-1	1.4	-0	-0	-1	-0	0.9	0	0	-0	-0	1.6	-1	-1	-1	-1	2.7	2.1	1.7	1.9	-1	-1	-1	-1	-0	0.5	0.6	0.5	0.2	1.6	0.9	0.5	0.7			
NEGBA	1.2	0	-0	-0	-0	1	-0	-0	-0	-0	1.3	-0	-0	-0	-0	0.9	-0	-0	-0	-0	0.8	0.1	-0	0.5	-1	-1	-1	-1	-0	1.1	1.1	0.8	0.7	0.7	0	-0	0.1	0.1		
NEOT_SMADAR	3.3	-0	-1	-1	-0	1.3	-0	0	0	-0	3.3	0	-0	-0.4	-0	1.5	-0	-0	-0	-0	3.2	3.1	2.9	2.7	-1	1	0.9	0.9	1	3.2	3.2	3.5	3.7	1.3	1.2	1.1	1			
NETIV_HALAMED_HE	4.2	-0	-1	-1	-0	1.7	-0	-0.3	-0	-0	1	-0	0	-0	-0	1.7	-1	-1	-1	-1	4.1	3.5	3.3	3	-2	-2	-2	-1	-1	-1	-0	-1	-1	-1	-1	1.6	0.9	0.6	0.6	
QARNE_SHOMERON	1.2	0	0	0.4	-0	1.1	0.3	0.3	-0	-0	1.4	0	-0	-0	-0	0.9	0.6	0.9	0.8	-0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1					
SEDE_BOQER	1.9	0	0	-0	-0	1.1	-0	-0.2	-0	-0	1.3	0	-0	-0	-0	0.9	-0	-0.2	-0	-0	0.4	0.3	0.2	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0				
SHANI	1.8	-0	-0	-0	-0	1.6	-0	-0	-0	-0	1.1	-0	-0	-0	-0	1.2	-0	-0	-0	-0	1.4	1.2	1	0.3	-1	-1	-1	-0	-0	0.5	0.6	0.5	0.5	0.7	0.1	0.1	0.2			
TAVOR_KADOORIE	1.6	-0	-0	-0	-0	1.5	-0	-0.4	-0	-0	1	0	0	0	-0	1.3	0.6	0.6	0.6	-0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
YOTVATA	1.5	-0	-0	-0	-0	1	0	0	0	-0	2.7	0	-0.3	0.5	-0	0.9	0	0	0	-0	1.4	1.3	1.1	1	-0	0.4	0.3	0.3	0.5	2.6	2.6	2.9	3.2	0.2	0.1	0	0.3			
ZEFAT_HAR_KENAAN	2.4	-1	-1	-0	-0	2.1	-0	-0	-0.6	-0	5.4	0	-0	-0	-0	5	-1	-1	-1	-0	2	1	0.7	1.3	-2	-2	-2	-2	-2	0.4	5.4	5.1	5.4	5	4.4	4.1	4			
ZEMAH	1.6	-0	-0.2	-0	-0	1.9	0.3	0.6	-0	-0	1.4	0	-0	0	-0	1.4	0.5	0.5	0.4	-0	0.2	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2						
ZOMET_HANEGEV	1.7	0	0	-0	-0	1.2	-0	-0.2	-0.2	-0	1.8	0	-0	-0	-0	0.7	0	-0.1	0	-0	1	0.7	0.5	0.2	-0	0.1	0.7	-1	1.7	1.8	1.9	1.4	0.1	-0	-1	-1				
MEAN	1.7	1.7	1.7	1.6	-0	1.5	1.5	1.3	-0	-0	1.8	1.8	1.8	1.9	-0	1.4	1.4	1.5	1.4	-0	0.7	0.3	0	-0	-0	-0	-0	1.1	1.2	1.1	1.1	0.3	-0	-0	-0					
STD	0.7	0.6	0.6	0.5	-0	0.4	0.4	0.4	-0	-0	1	1	1	1.1	-0	0.8	0.7	0.7	0.7	-0	1.2	1.3	1.3	1.3	-1	-1	-1	-1	1.5	1.5	1.6	1.7	1.4	1.4	1.4	1.4				



PT Terra Nova - verification

MAE

RH - JJA

ME

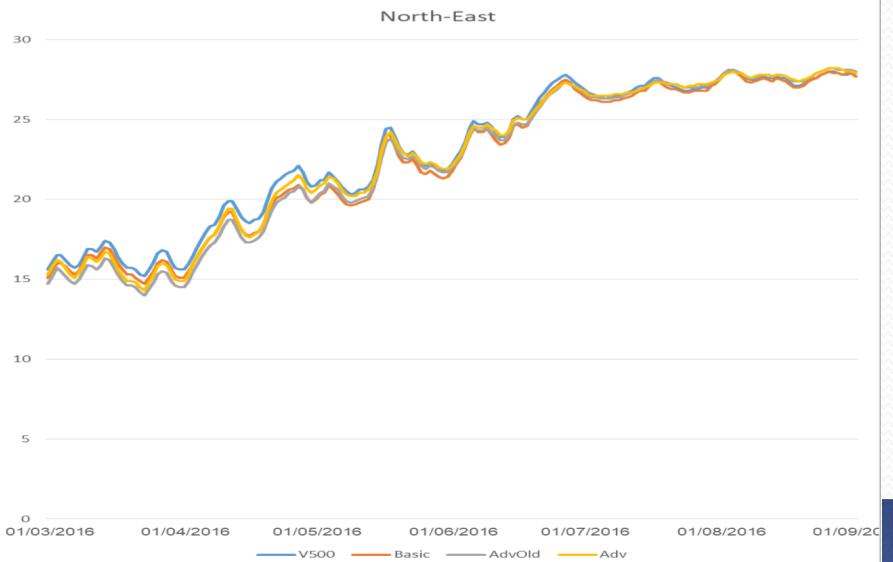
st_name	00	V50	Cbasic	dvO1	Adv	06	V50	Cbasic	dvO1	Adv	12	V50	Cbasic	dvO1	Adv	18	V50	Cbasic	dvO1	Adv	00	V50	Cbasic	dvO1	Adv	06	V50	Cbasic	dvO1	Adv	12	V50	Cbasic	dvO1	Adv	18	V50	Cbasic	dvO1	Adv
AFULA_NIR_HAEMEQ	7.9	0.1	-1			5.2	0.9	1.4			5.5					6.9	0.1	-2			-5	0.3	1.5	2.2		3.5	3.9	4.3	0.3	1.5	0.3	1.1	0.8	-4	0.2	2.6	1.2			
BEER_SHEVA	10	0.9	0.9	0		8.8	1.3	1.4	-2		5.2	0	0			8		1.8	1.5		4.3	3.2	4.7	7.3		1.1	0.4	0.1	-3	0.1	-1	-1	0.2	4.5	5.2	7	9.1			
BESOR_FARM	7.5	0.8	0.1			5.8	1.6	2	0.8		7.5	0.8	0.2			6.7	1.2	2.3	0.8		-1	-0	1.3	-0		-2	-2	-2	-5	-7	-8	-7	-5	3.5	5.4	7.4	6.9			
BET_DAGAN	7.6	2.1	1.9	-3		6.4	0	0.3	-2		5.9	0	0			15	0.3	0.1	-2		5.4	6.1	6.2	4.7		3.6	2.7	2.7	1.7	5.5	5	5.1	4	15	15	15	13			
BET_HAARAVA	6.3	1.6	3.4	1.5		5.7	0	0	-1		5.9	0.4	0.7	1.2		5	0.6	1.7	0		-1	1.9	6	5.8		-2	-1	-1	-2	-5	-6	-6	-7	2.5	3.2	5.4	3.7			
DAFNA	12	0	1.8			8.9	1.7	1.9	2.8		4.3	0.3	0	0		7	1	1.7	1.1		-7	-8	-7	-4		-6	-8	-8	-11	-1	-2	-2	-2	-0	2.4	4.1	5.6			
DOROT	8.1	1.6	1.7			7.7	1.5	2.2	-3		5.6	0	0			6.8	1	1.1	-1		-2	-2	-0	-2		1.9	1.4	3.3	0.2	-2	-4	-2	-1	2	4.6	4.3	4.2			
EDEN_FARM	9.8	1.3	1.3	-3		5.4	0	0.8			0	0.3	0			7.6	1.3	1.5	0.3		-3	-2	-1	2.8		-2	-2	-1	-2	1.3	0.1	0.8	1.1	4.3	6.2	6.7	6.4			
ELAT	6.7	0	0.1	0		6.2	0.2	0	0.1		4.5	0	0.2	0.9		7.6	0	0	-2		-2	-2	-2	-3		-2	-3	-3	-5	4.6	3.4	3.7	0.4							
ELON	12	0.7	0.4			6.8	1	1	-2		5.9	0.1	0.2			9.9	1.5	2	1		0.6	1.1	2.1	6.2		2.6	2.7	3.1	0.2	2.2	0.5	1.3	1.2	0.8	2.6	3.9	7.1			
EN_HASHOFET	7	1.1	1.3			6.1	0	0	1.9		6.8	0.4	0	0.8		9	1.1	0.8	-2		-0	0.3	0.5	3.3		-2	-2	-1	-6	-5	-6	-5	-6	-4	-4	-4	-2			
EN_KARMEL	5.9	1.2	1	-1		6.3	0.3	1.4	-1		6					7.6	2.1	2.7	1.5		2.6	3.3	3.5	3.1		3	2.4	3.7	-0	-3	-3	-2	-3	4.1	6.3	7.1	7.5			
ESHHAR	11	0	-0	-2		5.5	0	0.7	1.3		7.4	1	0	0.8		13	-3	-2	-5		-4	-2	-2	1		-1	-1	-1	-4	-6	-7	-6	-11	-6	-7	-5				
EZUZ	11	1.7	1.9	-2		11	0.8	0.9			4.6	0.1	0			8	0.3	0.2	1		-5	-6	-5	0.9		-4	-4	-4	-5	-0	-1	-1	0.2	-4	-5	-5				
GAMLA	10	0	-1			9.2	0.3	0	2.5		6.5	0.3	0	2.2		11	0	1	0		-5	-3	-3	-2		-8	-8	-6	-10	-4	-5	-4	-8	-8	-7	-8				
HAIFA_TECHNION	9.5	0	0.3	0.8		4.4	0	0	1.9		9.6	0.7	0.9	0		7.3	0	0.8	1.4		7.9	7.4	7.6	9		0.3	-1	0	-4	-8	-9	-8	-8	4.7	4.1	5.1	5.7			
HAR_HARASHA	14	0.3	0.1	-1		11	0.9	0	0.1		6.7	0.3	0.3	0		11	0	1	-3		-5	-5	-5	3.5		-7	-8	-7	-7	-3	-4	-4	-4	-7	-4	-3	2.1			
HAZева	7.6	0.8	0.8	0.3		7.2	0	0.1	-1		3.6	0	0	0.5		5.3	0	0	0		-1	-2	-1	3.3		-1	-1	-1	0.5	0	-1	-1	-2	-0	0.3	0.8	2.2			
ITAMAR	17	-2	-3	-5		12	0.2	0	0		6.1	0	0	0.3		19	-4	-5	-8		-13	-10	-9	1.6		-9	-9	-9	-8	-4	-5	-4	-4	-17	-12	-11	-6			
JERUSALEM_CENTRE	14	0	0	0.8		9.6	0.3	0	0		5.7	0.3	0.2	0.2		13	-1	-1	-3		-3	-2	-2	10		-0	-1	-1	0.7	-1	-2	-2	-3	-9	-5	-4	1.4			
MEROM_GOLAN_PICMAN	24	1.4	1.5	-3		11	0	0	0		6					21	0	1	-4		-21	-24	-23	-17		-4	-7	-6	-7	-2	-3	-2	-3	-19	-19	-17	-13			
MIZPE_RAMON	17	0	0	-4		11	0.7	0.8			4.6	0.1	0.1	0		13	0	0.3	-2		-10	-11	-10	-3		-5	-7	-7	-5	-1	-1	-2	-2	-10	-11	-11	-8			
NAHSHON	8.1	0	1.1	2		7.4	1.5	2.2	-2		5.4	0.1	0	0		5.1	0.3	1.1	0		-2	-2	-1	0		0.1	0	0	-2	-2	-3	-3	-2	-1	1.3	3.4	3.3			
NEGBA	7.6	1.4	1.4	0.1		6.5	1.2	1.1			5.8	0	0	0		5.4	1.1	1.8			1.3	2.2	3.2	1.9		-1	-1	-1	-2	-4	-4	-3	-4	0.9	3.3	4.9	2.9			
NEOT_SMADAR	13	0	0			8.8	0	0			4.7	0	0.1	0		5.7	0	0	0		-11	-11	-11	-10		-5	-6	-6	-5	-3	-3	-3	-4	-2	-2	-2	-2			
NETIV_HALAMED_HE	14	0	0.3	-2		8.7	1.4	1.8	-3		5.2	0.1	0	0		6.4	0.3	0	0		-9	-7	-7	-1		0.1	0.7	1	0	0.5	-1	-1	0.7	-3	0.2	1.8	3			
QARNE_SHOMERON	11	0.2	0.7	-3		7.5	1.6	1.7			6.6	1.1	0	0		6.7	2.7	3.4	2.3		-6	-4	-3	4		-4	-4	-3	-5	-4	-6	-5	0.7	6	7.9	7.6				
SEDE_BOQER	14	1.2	1.1	-5		10	0.9	0.8			4.8	0	0	0		7.6	0.3	0.9	0		-6	-8	-7	2.6		-6	-6	-6	3.2	1.7	1.1	1.3	1.7	0.6	0.2	1.5	4.6			
SHANI	15	0.1	0.2			11	0	0			5.7	0	0			13	0	0.1	-2		-6	-6	-6	3.2		2.3	2	2	0.7	0.5	0.5	0.3	-0	-9	-7	-7	-6			
TAVOR_KADOORIE	8.5	0.9	1.3	0		5.5	1.2	1.6			4.8	0	0.1	0		8.1	2.1	2.2	1.8		-2	-0	0.3	6.2		0.3	0.4	1.4	-2	-1	-2	-1	-1	4.6	4.6	6.8				
YOTVATA	7.6	0	0			7.3	0	0	0.2	0.1	3.5	0	0.3	0		4.9	0	0			-5	-5	-5	-5		-3	-4	-4	-3	-1	-1	-2	-2	1.8	1.5	1.8	1			
ZEFAT_HAR_KENAAN	18	2.3	2.3	0		12	0	0	1.4		10	0	0	1		16	0.3	0	-2		7.7	13	13	8.1		2.7	4.1	4.9	-1	-9	-10	-9	-11	-10	-9	-8	-5			
ZEMAH	8.2	-1	-2	-3		5.9	0	1			6.6	0.2	0	0.2		7.4	0	0	-1		-7	-3	-2	0.2		-2	-2	-1	-2	-3	-4	-3	-4	-3	-0.4	0.2	1.1			
ZOMET_HANEGEV	9.7	1.5	1.8	-2		11	1	1.6	1.4		5.4	0	0	0		6.6	0.1	0	0		-2	-3	-3	3		-4	-4	-5	-6	-1	-2	-2	-2	0.3	0.1	1.8	3.2			
MEAN	11	11	12	9.9		8	8.8	8.9	7.7		5.8	6	5.8	5.8		9.1	9.4	9.6	8.3		-3	-3	-2	1.4		-2	-2	-2	-3	-2	-3	-2	-3	-0	0.5	1.6				
STD	3.9	4	3.9	3.5		2.2	2.2	2.2	2.6		1.4	1.6	1.4	1.7		3.9	3.5	3.2	2.8		5.7	6.2	6.4	5.2		3	3	2.9	3.1		6.7	6.5	6.6	5.6						



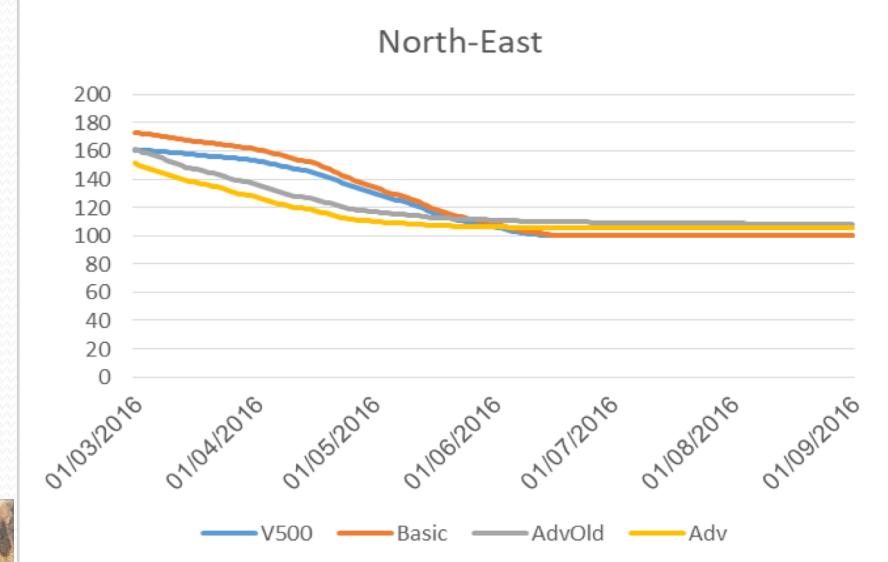
PT Terra Nova - verification

Soil parameters – 50 cm

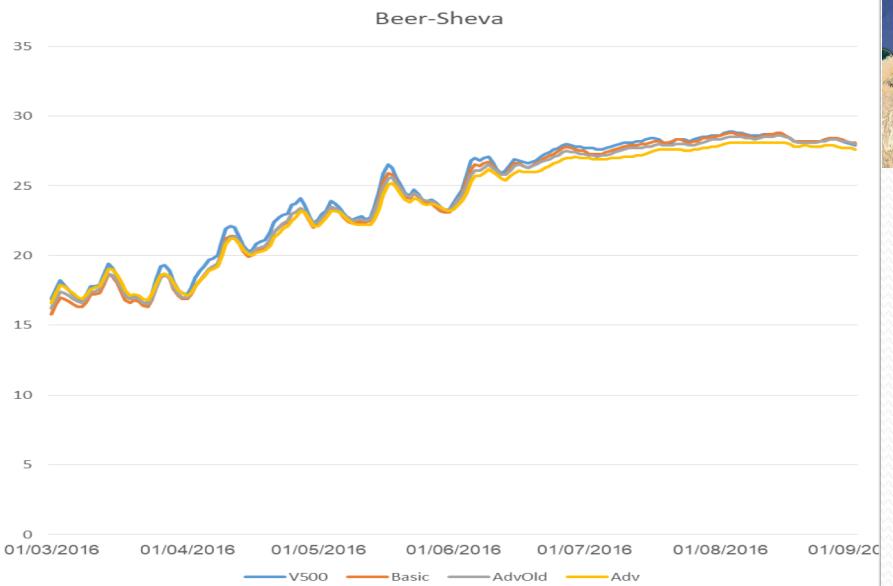
T_SO



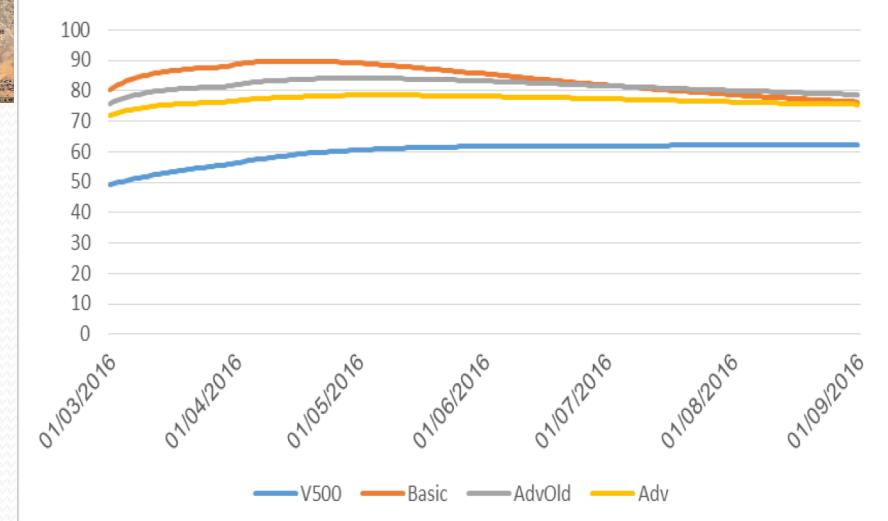
W_SO



Beer-Sheva



Beer-Sheva



CONCLUSIONS:

- No robust impact of model config. on T, RH
However, as seen in ICON:
 - Some cooling at night (too much?)
 - Cooling and moistening at 18Z
- No evident drying of soil in Advanced config.
- Differences in results between domains
- Some cooling of soil in Advanced config. In summer

Ideas welcome...

The background of the image is a wide, lush green field of tall grass or crops. In the distance, a dense line of green trees marks the horizon. Above the horizon, the sky is filled with large, billowing clouds colored in shades of orange, yellow, and light blue, suggesting a sunset or sunrise. The overall atmosphere is bright and celebratory.

MAZAL TOV