

Overview available Variables HDCP2 S4 project

LEGEND

X

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2D Variables	ICON				COSMO	
	ICON-156	ICON-312	ICON-624	Name in ICON	COSMO-DE	COSMO-EU
Tot Precip	x (2d_cloud, restart)	x (2d_cloud, restart)	x (2d_cloud, restart)	rain_gsp_rate, tot_prec	x	x
CLCT	x (2d_cloud)	x (2d_cloud)	x (2d_cloud)	clct	x	x
CLCL	x (2d_cloud)	x (2d_cloud)	x (2d_cloud)	clcl	x	x
CLCM	x (2d_cloud)	x (2d_cloud)	x (2d_cloud)	clcm	x	x
CLCH	x (2d_cloud)	x (2d_cloud)	x (2d_cloud)	clch	x	x
Z PBL	x (2d_cloud)	x (2d_cloud)	x (2d_cloud)	z_pbl	-	-
SHF	x (2d_surface, restart)	x (2d_surface, restart)	x (2d_surface, restart)	shfl_s	x	x
LH	x (2d_surface, restart)	x (2d_surface, restart)	x (2d_surface, restart)	lhfl_s	x	x
U-mom.	x (2d_surface, restart)	x (2d_surface, restart)	x (2d_surface, restart)	umfl_s	x	x
V-mom	x (2d_surface, restart)	x (2d_surface, restart)	x (2d_surface, restart)	vmfl_s	x	x
Net SW RAD	x (2d_rad, restart)	x (2d_rad, restart)	x (2d_rad, restart)	asob_s	x	x
Net LW RAD	x (2d_rad, restart)	x (2d_rad, restart)	x (2d_rad, restart)	athb_s	x	x
W so	x (2d_surface, restart)	x (2d_surface, restart)	x (2d_surface, restart)	mrsl	x	x
T so	x (2d_surface, restart)	x (2d_surface, restart)	x (2d_surface, restart)	tsl	x	x
LAI	x (extpar)	x (extpar)	x (extpar)	LAI_MX (max)	x	x
ALBEDO	x (extpar)	x (extpar)	x (extpar)		x	x
CAPE	-	-	-		x	x
CIN	-	-	-		x	x
IWV	x (2d_cloud)	x (2d_cloud)	x (2d_cloud)	prw	x	x
LWP				QC?	x	x
2m temp	x (2d_surface)	x (2d_surface)	x (2d_surface)		x	x
2m qv	x (2d_surface)	x (2d_surface)	x (2d_surface)	huss	x	x
p srf	x (2d_surface)	x (2d_surface)	x (2d_surface)	ps	x	x
tcm	x (2d_surface, restart)	x (2d_surface, restart)	x (2d_surface, restart)	tcm	x	x
tch	x (2d_surface, restart)	x (2d_surface, restart)	x (2d_surface, restart)	tch	x	x

3D Variables	ICON				COSI	
	ICON-156	ICON-312	ICON-624	Name in ICON	COSMO-DE	COSMO-EU
U	x (restart) U,V need	x (restart) specific	x (restart) Interpolation	VN.TL1,VT.TL1	x	x
V	x (restart)	x (restart)	x (restart)	VN.TL1,VT.TL1	x	x
W	x (restart)	x (restart)	x (restart)	W.TL1	x	x
T	x (need P restart)	x (need P restart)	x (need P restart)	thetae.TL1	x	x
Pres	x (restart)	x (restart)	x (restart)	EXNER.TL1	x	x
QV	x (restart)	x (restart)	x (restart)	QV.TL1	x	x
QC	x (restart)	x (restart)	x (restart)	QC.TL1	x	x
TKE	x but buggy!	x but buggy!	x but buggy!	TKE.TL1	x	x
TKVH	-	-	-		x	x
TKVM	-	-	-		x	x

available
not available

MO		GME	
Name in COSMO	GME	Name in GME	
TOT_PREC, RAIN_GSP	x	TOT_PREC, RAIN_GSP	
CLCT	x	CLCT	
CLCL	x	CLCL	
CLCM	x	CLCM	
CLCH	x	CLCH	
	-		
ASHFL_S	x	ASHFL_S	
ALHFL_S	x	ALHFL_S	
AUMFL_S	x	AUMFL_S	
AVMFL_S	x	AVMFL_S	
ASOB_S	x	ASOB_S	
ATHB_S	x	ATHB_S	
W_SO	x	W_SO	
T_SO	x	T_SO	
LAI	x	LAI_MX (max)	
ALB_RAD	x	ALB_RAD	
CAPE_ML	-		
CIN_ML	-		
TQV	x	TQV	
TWATER? QC?	-		
T_2m	???		
QV_2m	-		
PS	x	PS	
TCM	x	TCM	
TCH	x	TCH	

MO		GME	
Name in COSMO	GME	Name in GME	
U	x	U	
V	x	V	
W	x	OMEGA (pa)	
T	x	T	
P (PP)	x	FI (geopot)	
QV	x	QV	
QC	x	QC	
TKE	-		
TKVH	-		
TKVM	-		