2m surface air temperature 2m mean min. air temperature 2m mean max. air temperature 1cotal precipitation 1cotal incident solar radiation 1cotal	PCMDI- Variables	Table/ Ni
2m mean min. air temperature 2m mean max. air temperature total precipitation total incident solar radiation mean scalar wind speed humidity mean sea level pressure global mean sea level change (th. exp.)  frost days extreme temperature range growing season length heat wave duration fraction of time (90 th percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 th percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height variance 200 hPa height variance 200 hPa height variance 850 hPa temperature 500 hPa temperature 500 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	tas	A1a/3
2m mean max. air temperature total precipitation total incident solar radiation mean scalar wind speed humidity mean sea level pressure global mean sea level change (th. exp.)  frost days extreme temperature range growing season length heat wave duration fraction of time (90 <sup>th</sup> percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 <sup>th</sup> percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height variance 200 hPa height variance 500 hPa height variance 850 hPa temperature 500 hPa temperature 500 hPa temperature 200 hPa temperature 850 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	tasmin	A1f/5
total precipitation total incident solar radiation mean scalar wind speed humidity mean sea level pressure global mean sea level change (th. exp.)  frost days extreme temperature range growing season length heat wave duration fraction of time (90 th percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 th percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 500 hPa height variance 200 hPa height variance 500 hPa height variance 200 hPa temperature 500 hPa temperature 500 hPa temperature 200 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	tasmax	A1f/6
humidity mean sea level pressure global mean sea level change (th. exp.)  frost days extreme temperature range growing season length heat wave duration fraction of time (90 th percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 th percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 500 hPa height variance 500 hPa height variance 500 hPa height variance 200 hPa height variance 500 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 850 hPa u-wind 500 hPa v-wind	pr	A1a/2
humidity mean sea level pressure global mean sea level change (th. exp.)  frost days extreme temperature range growing season length heat wave duration fraction of time (90 th percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 th percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 500 hPa height variance 200 hPa height variance 500 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa v-wind	Rrsds	A1a/13
humidity mean sea level pressure global mean sea level change (th. exp.)  frost days extreme temperature range growing season length heat wave duration fraction of time (90 th percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 th percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 500 hPa height variance 200 hPa height variance 850 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 500 hPa u-wind 500 hPa v-wind	uas/vas	A1a/26+27
mean sea level pressure global mean sea level change (th. exp.)  frost days extreme temperature range growing season length heat wave duration fraction of time (90 <sup>th</sup> percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 <sup>th</sup> percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height 200 hPa height variance 950 hPa height variance 0500 hPa height variance 0500 hPa height variance 0500 hPa temperature 0500 hPa temperature 0500 hPa temperature 0500 hPa temperature 0500 hPa rel. humidity 0500 hPa rel. humidity 0500 hPa u-wind 0500 hPa v-wind 0500 hPa v-wind 0500 hPa v-wind 0500 hPa v-wind	huss	A1a/28
global mean sea level change (th. exp.)  frost days extreme temperature range growing season length heat wave duration fraction of time (90 the percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 the percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 500 hPa height variance 200 hPa height variance 500 hPa height variance 500 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 500 hPa rel. humidity 850 hPa u-wind 500 hPa v-wind	psl	A1a /1
extreme temperature range growing season length heat wave duration fraction of time (90 the percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 the percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 200 hPa height variance 850 hPa temperature 500 hPa temperature 200 hPa temperature 200 hPa rel. humidity 500 hPa rel. humidity 500 hPa rel. humidity 200 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	zostoga	O1c/2
extreme temperature range growing season length heat wave duration fraction of time (90 the percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 the percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 200 hPa height variance 850 hPa temperature 500 hPa temperature 200 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa v-wind 850 hPa v-wind 500 hPa v-wind 500 hPa v-wind	fd	A4/1
heat wave duration  fraction of time (90 <sup>th</sup> percentile min temp)  rain > 10 mm/d  consecutive dry days  max. 5day precipitation  simple daily intensity index  fraction of annual total prec. > 95 <sup>th</sup> percentile  daily mean temperature variance  daily precipitation variance  surface skin temperature/SST  soil moisture (content)  large scale precipitation  convective precipitation  snow cover  snow melt  snow depth  850 hPa height  500 hPa height variance  500 hPa height variance  200 hPa height variance  500 hPa temperature  500 hPa temperature  500 hPa temperature  200 hPa temperature  500 hPa rel. humidity  500 hPa rel. humidity  500 hPa u-wind  500 hPa u-wind  500 hPa v-wind  500 hPa v-wind  500 hPa v-wind  500 hPa v-wind	etr	A4/2
heat wave duration fraction of time (90 <sup>th</sup> percentile min temp) rain > 10 mm/d consecutive dry days max. 5day precipitation simple daily intensity index fraction of annual total prec. > 95 <sup>th</sup> percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 200 hPa temperature 500 hPa temperature 500 hPa temperature 200 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 500 hPa v-wind	gsl	A4/3
simple daily intensity index fraction of annual total prec. > 95 th percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	hwdi	A4/4
simple daily intensity index fraction of annual total prec. > 95 th percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	tn90	A4/5
simple daily intensity index fraction of annual total prec. > 95 th percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	r10	A4/6
simple daily intensity index fraction of annual total prec. > 95 th percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	cdd	A4/7
simple daily intensity index fraction of annual total prec. > 95 th percentile  daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	r5d	A4/8
daily mean temperature variance daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height variance 850 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 500 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	sdii	A4/9
daily precipitation variance surface skin temperature/SST soil moisture (content) large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 200 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 850 hPa v-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	r95t	A4/10
large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 850 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 200 hPa rel. humidity 500 hPa rel. humidity 200 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	ts	A1a/15
large scale precipitation convective precipitation snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 500 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 500 hPa temperature 200 hPa rel. humidity 500 hPa rel. humidity 500 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind	mrso	A1a/5
snow cover snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 850 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 200 hPa u-wind 500 hPa u-wind 500 hPa v-wind 500 hPa v-wind 500 hPa v-wind		
snow melt snow depth 850 hPa height 500 hPa height 200 hPa height variance 850 hPa height variance 200 hPa height variance 200 hPa height variance 200 hPa temperature 500 hPa temperature 200 hPa temperature 200 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind	prc	A1a/18
snow depth 850 hPa height 500 hPa height 200 hPa height variance 850 hPa height variance 500 hPa height variance 200 hPa height variance 850 hPa temperature 500 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 850 hPa v-wind	snc	A1a/24
850 hPa height 500 hPa height 200 hPa height variance 850 hPa height variance 500 hPa height variance 200 hPa height variance 850 hPa temperature 500 hPa temperature 200 hPa temperature 200 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind 500 hPa v-wind	snm	A1a/25
500 hPa height 200 hPa height variance 850 hPa height variance 500 hPa height variance 200 hPa height variance 850 hPa temperature 500 hPa temperature 200 hPa temperature 200 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 500 hPa v-wind 500 hPa v-wind	snd	A1a/8
200 hPa height variance 500 hPa height variance 200 hPa height variance 200 hPa height variance 850 hPa temperature 500 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 200 hPa u-wind 500 hPa u-wind 500 hPa v-wind 850 hPa v-wind 500 hPa v-wind	zg	A1c/7
850 hPa height variance 500 hPa height variance 200 hPa height variance 850 hPa temperature 500 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind	zg	A1c/7
500 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind	zg	A1c/7
500 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind		
500 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind		
500 hPa temperature 200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind		
200 hPa temperature 850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind	ta	A1c/2
850 hPa rel. humidity 500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind	ta	A1c/2
500 hPa rel. humidity 200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind	ta	A1c/2
200 hPa rel. humidity 850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind	husr	A1c/8
850 hPa u-wind 500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind	husr	A1c/8
500 hPa u-wind 200hPa u-wind 850 hPa v-wind 500 hPa v-wind	husr	A1c/8
200hPa u-wind 850 hPa v-wind 500 hPa v-wind	ua	A1c/3
850 hPa v-wind 500 hPa v-wind	ua	A1c/3
500 hPa v-wind	ua	A1c/3
	va	A1c/4
200 hPa v-wind	va	A1c/4
1	va	A1c/4
Land-sea mask	sftlf	A1b/2
Land ice area fraction model gridbox elevation	stfgif	A1b/3 A1b/1