**Appendix S1** Schema of the *myClim* i.) *Raw-format* and ii.) *Agg-format* objects. The schema is helpful to navigate through the myClim objects using standard R syntax [] \$ @ if necessary. (e.g., tms.clean\$localities[["91171001"]]\$loggers[[1]]\$sensors\$TS\_T\$values; tms.clean\$localities[["91171001"]]\$metadata@locality\_id).

## i.) Schema of the myClim Raw-format

7	_	adata - class	•			
    -	+		i I			
localities	   locality[1]	 				
- 			etadata - class			
				-+           		
	\$loggers	logger[1]				
		     \$metadata	+   mc_LoggerMeta			
			+   @type   @serial_numbe +	ır		
		<pre>\$clean_info</pre>	+   mc_LoggerClea	ınInfo - cla	+ ss	
			+	ities g ered		
		\$datetime	+ POSIXct vector		+	
		\$sensors	sensor[1] +			   +
			   \$metadata	mc_Sensor	Metadata - cl	ass
			       	@sensor_io   @name   @height   @calibrato	d ed	
	 		\$values	\$values numeric/logical vector		
			   \$calibration   	datetime   +	cor_factor   +	cor_slope         +
			   \$states   		rt   end   va 	1 1
		 	+ +   sensor[2]			+ + 
			÷			<del>-</del>
			sensor[n] +			   
	 	    logger[2]				
	-					
	-	logger[n]				
	-	<b></b>				
- - -	+	+ 				
- - - -	      locality[2					

+----+

## ii.) Schema of the myClim Agg-format

	+											
	mc_MainMeta	dataAgg - class	   									
	@version   @format_typ   @step   @period   @intervals_:   @intervals_:	e start	           									
\$localities	+											
	   \$metadata	+   mc_LocalityMe <sup>.</sup>										
	 	@locality_id   @elevation   @lat_wgs84   @lon_wgs84   @tz_offset   @tz_type   @user_data										
	++   \$datetime POSIXct vector											
	   \$sensors	+										
		\$metadata   	mc_Sensor 	į								
	     	i .	datetime   cor_factor     +		factor	cor	_slope					
	     	   \$states   	++   tag   sta 			lue   .	· j					
		+										
	 	sensor[2]										
	 	····										
	 	sensor[n]										
	+ +				 							
	locality[2]											
7												
-	locality[n]											
•	,											