## Code Evaluation questionnaire this document aims to provide a guideline how to evaluate (R) code in my course

Pleas	e note: not all item might be applicable - please cross-out any non-relevant part.						
1.	Informative naming of the script? □ absolutely □ not really because:						
Met	a-Information						
2.	Meta-information does exist? □ Yes □ No						
3. Authors name:							
4. Contact details are provided (email, URL, git)? $\Box$ Yes $\Box$ No							
<b>5.</b>	Date of development is listed? $\Box$ Yes $\Box$ No						
6.	3. Main purpose of the analysis is explained?						
7.	Needed input is defined (format incl. which information are required? (e.g. shp with column of type x and content of y) $\Box$ yes $\Box$ not really because:						
8.	Output is defined? (incl. explanations, format etc.) $\Box$ yes $\Box$ not really because: $\_$						
9.	9. R version used and R packages needed are listed? $\Box$ yes $\Box$ not really because:						
10.	0. Operating system used is listed or on which one it has been tested?   □ yes □ no						
11.	Required other software is explained? $\Box$ yes $\Box$ not really because:						
<b>12.</b>	Informative header is well formatted? $\Box$ yes $\Box$ not really because:						
13.	All necessary details are provided?						
	$\square$ Yes, I understand its aim and needed input						
	$\hfill\Box$ No, I need to check the script carefully						
	□ just some parts are provided.						
14.	What do you think until now what the output/results will be? Describe it briefly before checking the actual script:						
	ual Code for the Analysis						
	Data import is generic? (no full paths, direct import possible) yes —————— no						
	Well commented? horrible ————————————————————————————————————						
	Ratio of Comments vs. Code is adequate? horrible ——————— fantastic						
	Easy to read? (appropriate indentation and spacing) horrible ——————— fantastic						
	The script is written for generic data analysis?   absolutely   not really because:						
	Does the code require a rigid data structure? (e.g. specific column names in data.frame) $\Box$ absolutely $\Box$ no, quite flexible						
	Is the code flexible? (i.e allows inputs of different data types)  □ absolutely □ not really because:						
22.	Data can be retrieved without contacting the author?  □ absolutely □ not really because:						

23.	Code follows a logical structure?   absolutely   not really because:						
24.	. Analysis only includes relevant codes? (no code output which is not used afterwards) □ absolutely □ not really because:						
25.	. Are the derived variables self-explanatory? (e.g. through clear variable names and/or comments)  □ absolutely □ not really because:						
26.	A standard documentation structure/naming convention is applied?  □ absolutely □ not really because:						
27.	The analysis can be run easily on other data sets? (generic code)  absolutely not really because:						
28.	Appropriate use of commands - no unnecessary complex code snippets?						
29.	. (If a function) is provided: are example code/data provided/explained?						
30.	<b>Does the code minimize the storage of data?</b> (e.g. removal of unused variables) $\Box$ yes $\Box$ no						
	Does the code minimize the use of RAM?(e.g. appropriate subsetting, no re-reading data)  □ yes □ no						
32.	Data handling and transformation is coherent and well commented? yes ————— no						
	Novel code not covered in the course is used? a lot ———————————————————————————————————						
	Script is actually a package?   yes   no						
	Proper documentation (manual pages) is provided for this package?   yes   no						
	Impression						
	The script triggered interest and you learned new things? yes, a lot ————— no, not a bit						
	Please describe what was special/interesting:						
38.	Script is fast (based on performance measures) yes —————— no						
	The code can be executed without any fixes?   absolutely   not really because:						
	Which parts should be improved?						
41.	What is missing?						
Gra	phs and Maps						
42.	Graphs or Maps are providing key messages? □ absolutely □ not really because:						
	Plots/Maps are are self-explanatory?   absolutely   not really because:						
	Plots/maps are informative? yes ———————————————————————————————————						
	Graphs include all necessary items? (legend, axis title etc.)						
40.	□ absolutely □ not really because:						

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<ul> <li>46. Plots/maps are not overloaded? yes, clean □—□—□—□ no, totally cluttered</li> <li>47. Plots/maps layout is consistent through-out the script?</li> <li>□ absolutely □ not really because:</li></ul>							
							48.
	, -	le bars, legend, coordinates? $\Box$ absolu	v	not really because:			
50. Maps include landmarks, cities, roads for orientation?  □ absolutely □ not really because:							
Ove	erall Impress	sion					
Pleas	e evaluate the fo	ollowing parts					
	Readability	horrible $\square$ — $\square$ — $\square$ fantastic					
	Information	horrible ————— fantastic					
	Structure	horrible —————— fantastic					
	Innovation	horrible ————— fantastic					
<b>55.</b>	Do you think	it qualifies for being scientifically repr	oducible?				
	$\square$ yes						
	□ no						
	$\square$ needs some r	more work:					
<b>56.</b>		ally worth the effort for you to check  Probably not. Don't know.	it out?				
57	☐ Yes, totally.	interested to use this script for your	analysis?				
91.	would you be	interested to use this script for your		yes, would love to			
				no, not really anything I			
				couldn't do myself			
				yes, definitely parts of it.			
				No clue what is does. I just			
F0	Dlagge decemb	!		can't figure it out.			
58.	Please describ	e your impression:					
59.	When you check your anticipated results/output (Q 14) at the beginning - are your expectations met? and if no, why not:						
60.	What do you	especially like about this script:					

61.	1. What do you especially <u>dislike</u> about this script:					

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 $code\ quality\ check$  - question naire