Components	Questions	Author Checklis	st Author Notes	Reviewer Checklist	t Reviewer Notes	Author Response
	Is my folder structure logical? Suggestions for best practices for RIGHtub	~	GJAMDATA. R and out folders to separate data, code, and outputs	~	Well organized and documented	Think you
Project Organization	ta my code in numbered files to indicate the order they should be run?		Numbered 0 to 9. Any files with the same number can be run information.		All scripts are numbered, in right order, and documented, deprecated folder is not mentioned in the readme, but I assume it will be removed eventually arrivators.	
	,	2	Raw code within X and Y subdirectories in GJAMDATA and GJAMDATA/Withheld for Validation. Processed data is outside X and Y	V		
	Are raw data, code, and intermediate outputs separated?	_	subdirectories in the GJAMDATA folder Inputs are called via read.csv() or load() at the beginning and		Code and data match the file structure and are separated outputs for 4 Reduce R and 4 Reduce ecosystem R are labeled as	Nothing to change Nothing to change README changed to reflect cornect also from
	Are all inputs and outputs of a script clearly indicated at the beginning and end of the code?		everything is saved via save() or save.image()		GJAMDATA/processed_xydata_2 RData	Nucleonia Configuration Configuration (Nucleonia Configuration Configura
	Does file and folder naming complement the workflow?	₩.	See above	✓	readable and organized	Therit you
	Include information about the project - use <u>Abby's doc</u> as a way to organize. This information includes the project overview, hypothesias tested, analyses you want reviewed, project states.	✓	See Project Overview - GJAM - AW-CK docx	\checkmark		Notinical so chainse
Project and reput metaletals	7,	-	All code from inputs provided by lan to production figures and statistics	-		
	Is all the code available on Github?		is in the repository		Able to fully complete analysis with inputs and code in the repository	
	If code is ready to be submitted, is the repository public?	✓	Yes	✓	Repository is public!	Nothing to change
	Have I provided information about the packages used in the code within the scripts?		All packages are called using the packagename: function() format	✓	consistent package conventions	Nothing to change
	Have I provided metadata for the nav data?	₩.	Raw data are described in the README under 1 Process R All data are available in the github repository. This is not best practice	✓	yes, well documented	Therk you
	Are all data in a publicly available data respository? If the data is not in a public repository, see points 1) and 2) below.		All data are available in the giffrub repository. This is not best practice but I'm not sure if there's a better option since this is output of a different repository?	✓	im not sure what else to do, but this does definitely work	Noting to charge
	 Are data that will be published when the manuscript is published shared with the reviewer? If not, see below. 		NA.			NA.
	 If data are sensitive in nature with no plan of publication, is simulated data provided to the 		NA .			NA.
	Can someone other than the code creator or project participants understand (and access) the workflow and content of the data?		The sequence of code to run and explanations of data are all included in the README	✓	yes, works very well and is both well documented and intuitive	There's you
	ts a README provided and does it include the following 5 points of information? See Readme template and best practices	✓	Yes	✓	great README, has minor typos	Spall check completed on REACHEE
	1) the data contents and informediate outputs?		Data inputs are described in 1.Process.R and 2.Process_OOS.R. Intermediate outputs are described in the Inputs and Outputs sections of the README for each script	₩.	yes, output for 4.Process R and 4.Process_ecosystem R does not match the README	Commercia and code updated to make the outputs
	2) which license did you pick?	873	MIT License	692	Match the READINE	Gearer Nathing to change
	3) did you include descriptions of each file, including scripts and any other files in the	-	MIT LILEUM			Transity in Lindings
	repository?		Yes		descriptions and everything match	Nothing to change
	4) versions of external packages used and software? 5) Have I provided the dimensions of the intermediate products?		Yes		in README1 dimensions match	Nothing to change
						Nothing to change
Code Residability	ts my code understandable? Are there comments or an associated markdown document?		Yes. Comments in each script		well commented	Think you
	Are there comments describing each code chunk or line?		Yes		yes	Nothing to change
	ts the code logically broken up into sections or into seprate files? Does each file of my code have a brief explanation at the too?		Yes		yes, each step of the process makes sense	Nothing to change
	Does each file of my code have a brief explanation at the top? Does my code have a consistent style?		yes I think so?	2	yes	Nothing to change
	Does my code have a consistent style? Is the use of external packages clearly documented?	<u> </u>	I think so?	<u> </u>	maintains consistent conventions and structure, so I think so yes, called consistently each time, documented in the README	Nothing to change Nothing to change
	is the use of examal packages clearly documented?	- 24	yes	<u> </u>	yes, cased consistency each one, documented in the REALINE ves, figures and summary statistics are reproduced, model matches	Norming to Changle
Output Reproducibility	Can the written results be reproduced using the provided code and data?		yes. See manuscript, Ian is responsible for the writing	☑	yes, rigures and summary statistics are reproduced, model matches paper description	Noting to change This is revenible, unless offered versions of the
	Can an external reviewer run through the code without having to manipulate it?	☑	Yes. Don't re-run 6 Run. Outputs given	\square	yes, only have to manipulate when selecting the model and data in the analysis section	scripts were written. It believe the his method is more intuitive, but if does negarit this user to pay the control of the pay the control of
	Are computationally intensive outputs provided to the reviewer?		yes. Don't re-run 6.Run. Outputs given. Also, outputs given for 9. Predict, OOS_conditional R if you just don't run the loop. Skip and load data after.		ves, see author notes	Any drawing documented in its, more fined.
	Can the results be reproduced and our the figures be replicated?	2	NAME OF THE PARTY	[27]	yes, figures made in 8.Visualize.R match paper and interpretations	Vivi compare documentario in Co., Inventorio in Co.
	ta there a clear link between code and output?	E	yes yes		yes, rigures made in a visualizar in match paper and inserpretations was	Noting to Change
	Have I withheld data for out-of-sample prediction? What are the results?		ves, see step 9	2	ves, able to reproduce the oos prediction and analysis	Noting to change
	What tests have you done (e.g., unit tests)?		I still don't know what this means, no	ñ	n/a	NA NA
	What tests have you undertaken to ensure output reproducibility? List in the author notes.	692	I ran everything on two computers. I checked inputs and outputs of	89		
	What tests should another person do to ensure output reproducibility?		each file	- 2	worked great for mel	Nothing to change
				V	disorcipion of implementation and analysis in the methods section is great and methods well, gold at the key protest of constraints sensitivity and residual correlation, one prediction and companion is documental and matches the object from the inarysis. The results are discussion and matches the object from the inarysis. The results are discussion and the results match the cutpet of the analysis, in not sure wheth makes the oop prediction relocating constraince batter, as the only companion is also model output. The high residual negative consistion is definely an immerstage result, and the interpretation and discussion and decisions are not discussed.	These year The prediction with seasted considerate con
	Do the statistical methods I describe in writing match what I have coded? Are there explanations for methodological (coding and statistical) choices made in		yes, see manuscript. I mostly wrote methods related to the model		is compelling. yes, hypotheses match the statistical methodology employed and	will better reflect this interpretation.
Methodological Consistence	Are there explanations for methodological (coding and statistical) choices made in comments or markdown?		yes		yes, hypotheses match the statistical methodology employed and conclusions reached	Nothing to change