ODMAP Protocol	Obligatory
ODMAI TIOLOCOI	Objective: Explanation/Inference
	Objective: Mapping/Interpolation
	Objective: Transfer/Forecast
	Optional

Bradwersty data overview were a presented processed processed and processed	ODMA	P section	tion ODMAP subsection ODMAP element			
Working perspection of the control o						
Toron A ceological Terror receives and a ceological Terror receives and a ceological Terror receives a certain and a ceological control and ceological control and a ceological control and ceological contr				Model objective /		
Main target couple it g., sainthete vs. mortalistic habitat, continuous subtain artisticity index abundances Thron researce g., sumer of interpoles, species, promitted inclinate, continuous subtain artisticity index abundances Thron researce g., among of majority set upon the production of the pro				Model purpose		
Peculiary of production levels or g., operational transconding units, individuals, propulations, species, communities in received in facility area. Peculiary of raily area. Secretify data something or g. a. g. secretify data or data from returnal provider. Peculiary of raily of the secretic or g., over field data or data from returnal provider. Secretify data something or g. a. g. secretify from returnal provider. Secretify data or graphing design, if agriculture, counts, OTS becomes from and returnal recognitions. Specify signal something design, if agriculture, and control of the collection. Substitution of the collection of the collection of the collection of the collection. Substitution of considerable control of the collection o						
Data particular				Taxon & ecological		
Specify data control e.g., one mile data or data from external provider. Specify observation page c.g., genandurited montioning date, expert incomissing, critizen acience, heerospeanus in severe the control of the page of						
Biodiversity data overview Special process of the control of the c				Location		·
Specify spetial sampling design, if applicables e.g., random, uniform, environmentally stratified, opportunities Term provid or data ordinary eye or event broadway (g., ratural or political) Spatial and temporal Spatial and temporal Spatial resolution and event year or event broadway (g., ratural or political) Spatial resolution and event year or event broadway (g., ratural or political) Spatial resolution and the spatial or event and precision or event and eve						Specify observation type: e.g., standardised monitoring data, expert knowledge, citizen science, heterogenous types
Spatial and exaporal searly Conceptual model meanupations (T. Table 2) SIDM algorithms Sint was modelling and resolution of model insurance in the conceptual conceptua		ew		-		Specify data type: e.g., presence-only, presence/absence, counts, GPS locations (from individual tracking data)
Spatial and exaporal searly Conceptual model meanupations (T. Table 2) SIDM algorithms Sint was modelling and resolution of model insurance in the conceptual conceptua		ίΥί		overview		
Spatial and exaporal searly Conceptual model meanupations (T. Table 2) SIDM algorithms Sint was modelling and resolution of model insurance in the conceptual conceptua		Ove				*
Conceptual model Assumptions Single control of considered predictor variables and considered predictor variables and considered predictor variables and considered predictor variables and their recibes Software considered predictor variables and their recibes Software considered predictor variables and their recibes and assumptions Single considered predictor variables and their recibes considered variables and season and assumptions Software considered considered predictor variables and their recibes and assumptions Software considered considered in model that stem industry model and their ages assumption and their stem in the considered predictor considered considered and considered considered and their considered considered considered and considered c		•		Spatial and temporal		
Conceptual model Assumptions Assumptions Assumptions Assumptions Subt algorithms Subt model assumptions (cf. Table 2) Subt algorithms Subt and model assumptions (cf. Table 2) Subt algorithms Subt algorithms Subt and model assumptions (cf. Table 2) Subt algorithms Subt and model assumptions (cf. Table 2) Subt algorithms Subt and subtines and subtines are subtines and subtines and subtines are subtines and subtines and subtines are				scale		Temporal resolution and extent
Section of considerable predictor variables and their soulce.				G		
Assumptions State critical model assumptions (cf. Table 2) SIMM algorithme State multiling and resemble lechriques used (justified vis. objectives and assumptions) Model complexity Model complexity Model workflow Conceptual description of modelling steps including model fitting, assessment and prediction Software Specify modelling platform incl. version, key publicips used, availability of source codes and data Databa to a succession (Section 1) Databa in the state of the				Conceptual model		
SIAM algoridhms Nodel workflow Conceptual description of modelling steps including model fitting, assessment and prediction Software Species workflow includes the control of the cont				Assumptions		
Valled work flow Solware Datals on external biodiversity data source: e.g., LLRLDOI, accession date, darabase version Details on desconding reference system Datals on desconding reference system Datals on dissorters (type, if applicable: e.g., standards-ad monitoring data, expect knowledge, citizum science reference postem Details on observation type, if applicable: e.g., standards-ad monitoring data, expect knowledge, citizum science reference postem Details on standards on the processor of the control of descriptions, nentedness Details on standards on the processor of the control of descriptions, procedures Details on standards on the processor of descriptions, procedures Details on standards on the processor of the control of the processor of descriptions of descriptions of the processor						State modelling and ensemble techniques used (justified vis. objectives and assumptions)
Software Specify modelling platform and, version, key peckages used, availability of source order and data						
Details on external biodiversity data source c.g., IRLF, DOI, accession date, dambase version Details on taxonomic reference system Details on observation type, if applicable: e.g., standardsed monitoring data, expert knowledge, critizen science heterogenous types. Details on supplies type placed, e.g., amother of observations, nestedence Details on supplies type platson: e.g., number of observations, nestedence Details on subsence data collection, if applicable: e.g., spatial and temporal extent, spatial and temporal burd to the control of the processor of the						
Details on observation type, if applicable: e.g., standardised monitoring data, expert knowledge, citizen science heterogenous types Details on sparsition type, if applicable: e.g., standardised monitoring data, expert knowledge, citizen science heterogenous types Details on sparsition type, if applicable: e.g., number of observations/counts, prevalence Details on sparsition and control of the applicable of the properties of the second expect of observations/counts, prevalence Details on sheeting data editoring in applicable: e.g., patential and temporal vetors, spatial and temporal vetors, spatial publicable of the properties of				Software		
Details on sample size per tuxon. e.g., number of observations/counts, prevalence Details on sample size per tuxon. e.g., number of observations/counts, prevalence Details on sample size per tuxon. e.g., number of observations/counts, prevalence Details on sample size per tuxon. e.g., number of observations/counts, prevalence Details on shock ground data derivation. if applicable: e.g., spatial and temporal extent, spatial and temporal burn bits correction (e.g. target group sampling) Details on potential errors and biases in data, if applicable: e.g., spatial and temporal extent, spatial prevention of the prevention of polygon maps, spatial and temporally, outlier presence freatment Details on scaling, if applicable: e.g., resterisation of polygon maps, spatial and temporal dinning, measures to address spatial uncertainties Selection of fraining data (for model fitting) Selection of fraining data (for model fitting) Selection of fraining data (for model fitting) Details on data sources: e.g., URL DOJ, accession date, database version Details on data sources: e.g., URL DOJ, accession date, database version Details on data sources: e.g., URL DOJ, accession date, database version Details on data sources: e.g., URL DOJ, accession date, database version Details on data sources: e.g., URL DOJ, accession date, database version Details on data sources: e.g., URL DOJ, accession date, database version Details on data sources: e.g., URL DOJ, accession date, database version Details on data sources, e.g., URL DOJ, accession date, database version Details on data sources, e.g., URL DOJ, accession date, database version Model serials: Details on data sources, e.g., URL DOJ, accession date, database version Model serials: Details on data processing and scaling (see above) Quantification of novel evirunmental conditions and provel evirunmental conditions and provel evirunmental conditions and provel evirunmental conditions and provel evirunmental conditions (including default settings of specials on temporal properties on mod						Details on taxonomic reference system
Details on spatial and temporal sampling design, temporal replications, netecthess Details on absence data collection, if applicable. Details on absence data collection, if applicable. Details on absence data collection, if applicable e.g., apartal and temporal extent, spatial and temporal but has correction (e.g. target group sampling) Details on packers in data, if applicable e.g., detection probability, misidentification potentic processor in data, if applicable e.g., tereprotein provided in the processor in data, if applicable e.g., tereprotein provided in the processor in data, if applicable e.g., tereprotein provided in the processor in data, if applicable e.g., tereprotein provided in the processor in data, if applicable e.g., tereprotein provided in the processor in data, if applicable e.g., tereprotein provided in the processor in data, if applicable e.g., tereprotein provided in the processor in data, if applicable e.g., tereprotein provided in the processor in data (and the provided in the processor in data). Data partitioning Da						Details on observation type, if applicable: e.g., standardised monitoring data, expert knowledge, citizen science,
Details on asberee data collection, if applicable to g. g., standard and temporal but bias correction (e.g. target group assembly) Details on background data derivation, if applicable: e.g., spatial and temporal but bias correction (e.g. target group assembly) Details on on better correct and biases in data, if applicable: e.g., detection probability, misidentification potentia geo-referencing crors, sampling bias Details on data cleaning filtering steep, if applicable: e.g., textonomically, spatially, temporally, outlier presence/treatment of Locality in the probability and temporal thinning, measures to address spatial increations: Selection of standards and temporal data probability and temporal thinning, measures to address spatial increations: Selection of standards and temporal data probability and temporal thinning, measures to address spatial and temporal thinning, measures to address spatial and temporal and temporal data probability and temporal continued and several data probability and temporal and t						
Details to nabsence data collection, if applicable: e.g., spatial and temporal extent, spatial and temporal buri bis correction (e.g. tagge group sampling) Details on potential errors and bases in data, if applicable: e.g., taxonomically, spatially, temporally, outlier presence-ferencing errors, sampling bias Details on or date cleaning filtering steps; if applicable: e.g., taxonomically, spatially, temporally, outlier presence-ferencing if applicable: e.g., taxonomically, spatially, temporally, outlier presence-ferencing if applicable: e.g., taxonomically, spatially, temporally, outlier presence-forencing if applicable: e.g., taxonomically, spatially, temporally, outlier presence-forencing active (for model fitting) Data partitioning Selection of variand (withbold from model fitting, used for estimating prediction error for model selection medical averaging ere ensemble); e.g., cross-validation method Selection of fitting used for estimating prediction error for model selection feet (furly independent) data, sensual lastic, et al. (2009) Details on data sources: e.g., (IRTO), accession method Details on on data courses: e.g., (IRTO), accession date, database version Details on on data courses: e.g., (IRTO), accession date, database version Model averaging in a construction of variables and extent projection Transfer data for projection Model section of one of one of one of one of variables and extent projection of one of one of one of variables and extent projection of one of one of one of variables and extent projection of one of one of one of one of variables and extent projection of one of						
Details on background data derivation, if applicable: e.g., spatial and temporal buff bias correction (e.g. straget group sampling) Details on protestual errors and biases in data, if applicable: e.g., detection probability, misidentification potential geore-ferencing errors, sampling bias Details on data cleaning filtering steps, if applicable: e.g., taxonomically, spatially, temporally, outlier presence/ferentiment Details on scaling, if applicable: e.g., trasterisation of polygon maps, spatial and temporal thinning, measures to address spatial uncertainties Selection of training data (for model fitting) Details on data sources: e.g., URL/DOI, accession date, database version Spatial and temporal resolution and extent Spatial and temporal resolution and extent Transfer data for training data (for adaptive processing and supports) Details on data sources: e.g., URL/DOI, accession date, database version Models and security of the sources of the security of						Details on absence data collection, if applicable
Details on potential errors and biases in data, if applicable: e.g., detection probability, misidentification potential geo-electronic gervos, sampling bias Details on data cleaning/filtering steps, if applicable: e.g., awanomically, spatially, temporally, outlier presence/treatment Details on scaling, if applicable: e.g., rasserisation of polygon maps, spatial and temporal thinning, measures to address spatial uncertainties Selection of validation data (withheld from model fitting) Selection of validation data (withheld from model fitting) Selection of rest (mly independent) data, seave thatis, et al. (2009) Details on data sources: e.g., URL/DOI, accession date, database version Details on measurements errors and bias, when known Spatial and temporal resolution and extent Details on data processing and on spatial, temporal and thematic scaling: e.g. upscaling/downscaling, transformations, normalisations, thematic agergeations (e.g. of land cover classes), measures to address spatial uncertainties Details on data processing and on spatial, temporal and thematic scaling: e.g. upscaling/downscaling, transformations, normalisations, thematic agergeations (e.g. of land cover classes), measures to address spatial uncertainties Details on data sources: e.g., URL/DOI, accession date, database version Models and approcessing and scaling (see above) Quantification of movel environmental conditions and novel environmental combinations: e.g., distance to train data Methods for identifying and dealing with multicollinearity (Dormann, et al. 2013) or justification if multicollinearity variable pre-selection of variables acting for extrapolation beyond sample range, if applicable: e.g., clamping Assessment of model coefficients Model selection / Model averaging / Details on relevant model settings for extrapolation beyond sample range, if applicable: e.g., clamping Assessment of model coefficients Details on ensemble methods e.g. inintel methods on tresiduals Method for addressing spatial autocorrelation in residuals Me				Biodiversity data		Details on background data derivation, if applicable: e.g., spatial and temporal extent, spatial and temporal buffer,
Details on data cleaning riffering steps. If applicable: e.g., axonomically, spatially, temporally, outlier presence/treatment Details on scaling, if applicable: e.g., rasterisation of polygon maps, spatial and temporal thinning, measures to address spatial uncertainties Selection of training data (for model fitting, used for estimating prediction error for model selection model averaging or ensemble): e.g., cross-validation method Selection of training data (for model fitting, used for estimating prediction error for model selection model averaging or ensemble): e.g., cross-validation method Selection of test (truty independent) data, sexus Hastie, et al. (2009) Details on data sources: e.g., URL/DOI, accession date, database version Details to make sources: e.g., URL/DOI, accession date, database version Details on data sources: e.g., URL/DOI, accession date, database version Spatial and temporal resolution and extent Details on data sources: e.g., URL/DOI, accession date, database version Models and section (element: Details on pre-selection and extent Details on data sources: e.g., URL/DOI, accession date, database version Models and section (element: Details on pre-selection of variables et, if applicable - if model-based, this should be contained in Modes data for the section (element: Details on and actent Spatial and temporal resolution and extent Details on data processing and scaling (see above) Quantification of movel environmental conflictions and novel environmental combinations: e.g., distance to train data Methods for identifying and dealing with multicollinearity (Dormann, et al. 2013) or justification if multicolline data Model settings / model complexity and models settings for extrapolation beyond sample range, if applicable in plantiformic plantification of uncertainty in model coefficients, e.g. resampling Model settings / model coefficients on the coefficients of model coefficients on the plantification of uncertainty in model coefficients on the plantification of uncertainty in model coe						bias correction (e.g. target group sampling) Details on potential arrors and biases in data if applicables a godesteen probability wisidestification as the still
Details on data cleaning: filtering steps, if applicable: e.g., taxonomically, spatially, temporally, outlier presence/teatment Details on scaling, if applicable: e.g., rasterisation of polygon maps, spatial and temporal thinning, measures to address spatial uncertainties Selection of training data (for model litting) Selection of text (truly independent) data, soons Hastic, et al. (2009) Details on data sources: e.g., URL/DOI, accession date, database version Details on data sources: e.g., URL/DOI, accession date, database version Details on data sources: e.g., URL/DOI, accession date, database version Details on data sources: e.g., URL/DOI, accession date, database version Details on data sources: e.g., URL/DOI, accession date, database version Details on data sources: e.g., URL/DOI, accession date, database version Details on data sources: e.g., URL/DOI, accession date, database version Transfer data for projection Transfer data for projection Details on data sources: e.g., URL/DOI, accession date, database version Models and sucremarias used Spatial and temporal resolutions, hematic aggregations (e.g. of land cover classes), measures to address spatial uncertainties Details on data sources: e.g., URL/DOI, accession date, database version Models and sucremarias used Spatial and temporal resolution and extent Details on data sources: e.g., URL/DOI, accession date, database version Models and sucremarias used Methods for identifying and dealing with multicollinearity (Dormann, et al. 2013) or justification if multicollinearity Variable pre-selection Methods for identifying and dealing with multicollinearity (Dormann, et al. 2013) or justification if multicollinearity is not explicitly dealt with Details on model complexity and models settings for extrapolation beyond sample range, if applicable: e.g., clamping Assessment of model coefficients Details on model selection of model coefficients Details on model averaging; e.g. information-theoretic approach for variable selection, shrink						
Details on scaling, if applicable: e.g., rasterisation of polygon maps, spatial and temporal thinming, measures to address spatial uncertainties Selection of varianting data (for model fitting) Selection of validation data (withheld from model fitting, used for estimating prediction error for model selection model averaging or ensemble): e.g., cross-validation method. Environmental data/predictor variables Environmental data/predictor variables Environmental data/predictor variables Details on data sources: e.g., UR/D/D/I, accession date, database version Details on data processing and on sparial, temporal and thematic scaling: e.g. upscaling/downscaling, trustformations, normalisations, thematic aggregations (e.g. of fand cover classes), measures to address spatial uncertainties Details on data processing and on sparial, temporal and thematic scaling: e.g. upscaling/downscaling, trustformations, normalisations, thematic aggregations (e.g. of fand cover classes), measures to address spatial uncertainties Details on data sources: e.g., UR/LD/D/I, accession date, database version Models and score and association of a section of variables of a section (element). Details on pre-selection of variables of a section of a section of projection of a section of projection of projectio						
Data partitioning Data partitio						
Data partitioning Data partitioning						
Data partitioning Data partitioning Data partitioning Data partitioning Data partitioning Selection of validation data (withheld from model fitting, used for estimating prediction error for model selection model averaging or ensemble) e.g., cross-validation method Selection of test (ruly independent) data, sensu Hastie, et al. (2009) Details on data sources: e.g., URL/DOI, accession date, database version Details on measurements errors and bias, when known Spatial and temporal resolution and extent data/predictor variables Details on data processing and on spatial, emporal and thematic scaling: e.g. upscaling/downscaling, transformations, normalisations, thematic aggregations (e.g. of land cover classes), measures to address spatial uncertainties Details on didan sources: e.g., URL/DOI, accession date, database version Models and scenarious used Spatial and temporal resolution and extent Oparatification of novel environmental combinations: e.g., distance to train data Multicollinearity Variable pre-selection Details on data processing and scaling (see above) Quantification of novel environmental combinations: e.g., distance to train data Multicollinearity Wariable pre-selection Details on model averaging or a pre-selection of variables, if applicable Details on model complexity and models settings for all selected algorithms (including default settings of speci- platforms/packages) Model settimates Model settimates Model settimates Model selection / Model averaging / Finsembles Details on model averaging e.g. derivation of weights Details on model selection strategy: e.g. information-theoretic approach for variable selection, shrinkage and regularization Res						
Production output Prediction output Pred		ata		D () (iii :		Selection of validation data (withheld from model fitting, used for estimating prediction error for model selection,
Details on data sources: e.g., URL/DOI, accession date, database version				Data partitioning		
Details on measurements errors and bias, when known Spatial and temporal resolution and extent Details on data processing and on spatial, temporal and thematic sealing: e.g. upscaling/downscaling, transformations, normalisations, thematic aggregations (e.g. of land cover classes), measures to address spatial uncertainties Details on data processing and on spatial, temporal and thematic sealing: e.g. upscaling/downscaling, transformations, normalisations, thematic aggregations (e.g. of land cover classes), measures to address spatial uncertainties Details on pre-selection of variables et, if applicable – if model-based, this should be contained in Mod section (element.) Details on pre-selection of variables on data sources: e.g., URL/DOI, accession date, database version Model selection / Methods for identifying and dealing with multicollinearity (Dormann, et al. 2013) or justification if multicollin is not explicitly dealt with Variable pre-selection Model settings / model complexity Model settings / model complexity and models settings for all selected algorithms (including default settings of specinal forms/packages) Weighting of data Details on model complexity and models settings for extrapolation beyond sample range, if applicable: e.g., clamping Assessment of model coefficients Details on model coefficients Details on on model selection of uncertainty in model coefficients, e.g. resampling Variable importance Details on model selection strategy: e.g. information-theoretic approach for variable selection, shrinkage and regularization Details on model oreaging: e.g. derivation of weights Details on model oreaction in residuals Method for addressing spatial autocorrelation in residuals Method for addressing spatial autocorrelation in risesiduals Method for addressing spatial autocorrelation in risesiduals Method for addressing spatial autocorrelation in risesiduals Performance statistics estimated on training data Performance statistics estimated on training data Performance statistic						
Page 2007 Page						
Details on data processing and on spatial, temporal and thematic scaling: e.g. upscaling/downscaling, transformations, normalisations, thematic aggregations (e.g. of land cover classes), measures to address spatial uncertainties Details on dimension reduction of variable set, if applicable – if model-based, this should be contained in Modes and scenic (element: Details on pre-selection of variables) Details on data sources: e.g., URL/DOI, accession date, database version Models and scenarios used Spatial and temporal resolution and extent Details on data processing and scaling (see above) Quantification of novel environmental conditions and environmental conditions and environmental conditions and environmental conditions and environme						
variables Variables Content of the content of						Details on data processing and on spatial, temporal and thematic scaling: e.g. upscaling/downscaling,
Transfer data for projection						
Section (element: Details on pre-selection of variables)				variables		Uncertainties Details on dimension reduction of variable set if applicable – if model-based, this should be contained in Model
Details on data sources: e.g., URL/DOI, accession date, database version Models and scenarios used Spatial and temporal resolution and extent						
Transfer data for projection Spatial and temporal resolution and extent Details on data processing and scaling (see above)						Details on data sources: e.g., URL/DOI, accession date, database version
Power				Transfer data for		
Multicollinearity Multicollinearity Methods for identifying and dealing with multicollinearity (Dormann, et al. 2013) or justification if multicolline is not explicitly dealt with Variable pre-selection Details on pre-selection of variables, if applicable Details on model complexity and models settings for all selected algorithms (including default settings of speciplatforms/packages) Model settings / model complexity Weighting of data Details on relevant model settings for extrapolation beyond sample range, if applicable: e.g., clamping Assessment of model coefficients Details on quantification of uncertainty in model coefficients, e.g. resampling Variable importance Model selection / Model averaging / Ensembles Details on model averaging: e.g. derivation of weights Details on ensemble method: e.g. initial conditions (input data) Method for addressing spatial autocorrelation in residuals Method for addressing spatial autocorrelation in residuals Method for addressing spatial autocorrelation in residuals Method for addressing temporal au						^ ^
Multicollinearity Wariable pre-selection Model settings / model complexity Model estimates Model estimates Model settings / model complexity Model settings / model complexity Model estimates Details on nodel coefficients Details on model coefficients Details on model selection strategy: e.g. information-theoretic approach for variable selection, shrinkage and regularization Details on model averaging: e.g. derivation of weights Details on model averaging: e.g. initial conditions (input data) Non-independence correction/analyses Method for addressing temporal autocorrelation in residuals Method to account for nested data: e.g., fixed and random effects Threshold selection Response shapes Palusibility check: e.g., partial response plots; eyeliation of validation data (from data partitioning) Performance statistics estimated on training data				projection		Quantification of novel environmental conditions and novel environmental combinations: e.g., distance to training
Variable pre-selection Details on pre-selection of variables, if applicable						
Variable pre-selection Details on pre-selection of variables, if applicable Details on pre-selection of variables settings for all selected algorithms (including default settings of speciplatforms/packages) Weighting of data Details on relevant model settings for extrapolation beyond sample range, if applicable: e.g., clamping Assessment of model coefficients Details on quantification of uncertainty in model coefficients, e.g. resampling Variable importance Details on model selection strategy: e.g. information-theoretic approach for variable selection, shrinkage and regularization Details on model averaging: e.g. derivation of weights Details on ensemble method: e.g. initial conditions (input data) Method for addressing spatial autocorrelation in residuals Method for addressing temporal autocorrelation in residuals Method to account for nested data: e.g., fixed and random effects Threshold selection Response shapes Response shapes Response shapes Performance statistics estimated on training data Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction unit Prediction unit Post-processing, e.g. clipping, reprojection				Multicollinearity		
Details on model complexity and models settings for all selected algorithms (including default settings of speciplatforms/packages) Weighting of data Details on relevant model settings for extrapolation beyond sample range, if applicable: e.g., clamping Assessment of model coefficients Details on quantification of uncertainty in model coefficients, e.g. resampling Variable importance Model selection / Model averaging / Ensembles Details on model averaging: e.g. derivation of weights Details on model averaging: e.g. derivation of weights Details on ensemble method: e.g. initial conditions (input data) Method for addressing spatial autocorrelation in residuals Method for addressing semporal autocorrelation in residuals Method for addressing temporal autocorrelation in residuals Method for addressing temporal autocorrelation in residuals Method to account for nested data: e.g., fixed and random effects Performance statistics Performance statistics estimated on training data Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction unput Prediction output Details on model coefficients Details on relevant model settings for extrapolation beyond sample range, if applicable: e.g., clamping Details on relevant model settings for extrapolation beyond sample range, if applicable: e.g., clamping Details on relevant model settings for extrapolation beyond sample range, if applicable: e.g., clamping Personance, in residuals Details on relevant model settings for extrapolation beyond sample range, if applicable: e.g., clamping Personance statistics estimated on training data Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Performance statistics estimated on test (truly independent) data, if applicable						
Model settings / model complexity Model estimates Details on relevant model settings for extrapolation beyond sample range, if applicable: e.g., clamping Assessment of model coefficients Details on quantification of uncertainty in model coefficients, e.g. resampling Variable importance Details on model selection strategy: e.g. information-theoretic approach for variable selection, shrinkage and regularization Details on model averaging: e.g. derivation of weights Details on ensemble method: e.g. initial conditions (input data) Method for addressing spatial autocorrelation in residuals Method for addressing temporal autocorrelation in residuals Method to account for nested data: e.g., fixed and random effects Threshold selection Response shapes Plausibility check: e.g., partial response plots, evaluation strips, inflated response plots Performance statistics estimated on training data Performance statistics estimated on training data Performance statistics estimated on test (truly independent) data, if applicable Prediction output Prediction output Post-processing, e.g. clipping, reprojection				Variable pre-selection		
Model estimates						Details on model complexity and models settings for all selected algorithms (including default settings of specific
Model estimates Model estimates				_		
Model estimates Model selection / Model averaging / Ensembles Details on model averaging: e.g. derivation of weights Details on ensemble method: e.g. initial conditions (input data) Method for addressing spatial autocorrelation in residuals Method for addressing temporal autocorrelation in residuals Method for addressing temporal autocorrelation in residuals Method for addressing temporal autocorrelation in residuals Method to account for nested data: e.g., fixed and random effects Details on threshold selection, if applicable: transforming continuous predictions into binary predictions Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction unit Post-processing, e.g. clipping, reprojection				model complexity		<u> </u>
Model estimates Details on quantification of uncertainty in model coefficients, e.g. resampling Variable importance Details on model selection strategy: e.g. information-theoretic approach for variable selection, shrinkage and regularization Details on model averaging: e.g. derivation of weights Details on ensemble method: e.g. initial conditions (input data) Non-independence correction/analyses Method for addressing spatial autocorrelation in residuals Method for addressing temporal autocorrelation in residuals Method to account for nested data: e.g., fixed and random effects Threshold selection Response shapes Performance statistics Performance statistics estimated on training data Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction unput Prediction output			odel			
Model selection / Model averaging / Ensembles Details on model selection strategy: e.g. information-theoretic approach for variable selection, shrinkage and regularization)de		Model estimates		
Model averaging / Ensembles Details on model averaging: e.g. derivation of weights		f W			-	·
Model averaging / Ensembles Details on model averaging: e.g. derivation of weights Details on ensemble method: e.g. initial conditions (input data) Non-independence correction/analyses Method for addressing spatial autocorrelation in residuals Method for addressing temporal autocorrelation in residuals Method to account for nested data: e.g., fixed and random effects Threshold selection Response shapes Plausibility check: e.g., partial response plots, evaluation strips, inflated response plots Performance statistics Performance statistics estimated on training data Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction output Prediction output Post-processing, e.g. clipping, reprojection				Model selection /		** *
Ensembles Details on model averaging: e.g. derivation of weights Details on ensemble method: e.g. initial conditions (input data) Non-independence correction/analyses Threshold selection Response shapes Performance statistics Performance statistics Prediction output Details on model averaging: e.g. derivation of weights Details conditions (input data) Method for addressing spatial autocorrelation in residuals Method to account for nested data: e.g., fixed and random effects Details on threshold selection in residuals Method to account for nested data: e.g., fixed and random effects Details on threshold selection in residuals Method to account for nested data: e.g., fixed and random effects Performing continuous predictions into binary predictions Performance statistics estimated on training data Performance statistics estimated on training data Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction unit Post-processing, e.g. clipping, reprojection						regularization
Non-independence correction/analyses Method for addressing spatial autocorrelation in residuals Method for addressing temporal autocorrelation in residuals Method to account for nested data: e.g., fixed and random effects Details on threshold selection, if applicable: transforming continuous predictions into binary predictions Response shapes Performance statistics Performance statistics estimated on training data Performance statistics Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction output Prediction output Post-processing, e.g. clipping, reprojection				1		
Method for addressing temporal autocorrelation in residuals Method to account for nested data: e.g., fixed and random effects Threshold selection Response shapes Plausibility check: e.g., partial response plots, evaluation strips, inflated response plots Performance statistics Performance statistics estimated on training data Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction output Prediction output Post-processing, e.g. clipping, reprojection						
Method to account for nested data: e.g., fixed and random effects Threshold selection Response shapes Plausibility check: e.g., partial response plots, evaluation strips, inflated response plots Performance statistics Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction output Prediction output Post-processing, e.g. clipping, reprojection						
Threshold selection Response shapes Plausibility check: e.g., partial response plots, evaluation strips, inflated response plots Performance statistics Performance statistics estimated on training data Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction output Prediction output Post-processing, e.g. clipping, reprojection				correction/analyses		
Performance statistics estimated on training data Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on validation data (from data partitioning) Performance statistics estimated on test (truly independent) data, if applicable Prediction output Prediction output Post-processing, e.g. clipping, reprojection						Details on threshold selection, if applicable: transforming continuous predictions into binary predictions
Prediction output Prediction unit Post-processing, e.g. clipping, reprojection		ime		Response shapes		
Prediction output Prediction unit Post-processing, e.g. clipping, reprojection		sess		Performance statistics		
Prediction output Prediction unit Post-processing, e.g. clipping, reprojection		Ass		1 criormance statistics		
Post-processing, e.g. clipping, reprojection		•		Prediction output		Prediction unit
Algorithmic uncertainity, if applicable		Prediction		1 realetion output		
Uncertainty in input data, if applicable						
Uncertainty Uncertainty Uncertainty Error propagation in Hierarchical/Bayesian models, if applicable				-		
				quantification		Uncertainty in scenarios (e.g. climate models, land use models, storylines)
Visualisation/treatment of novel environments: e.g., masking				1,		Visualisation/treatment of novel environments: e.g., masking
Map display Plausibility check				Map display		Plausibility check