Thank you for taking the time and care to provide valuable feedback and contributions to this manuscript. Please see our responses to the comments below, which we are ready to implement for a future revision.

Copy of review comments (RC) are given below, followed by the author comments (AC).

Overview
In this paper, the authors use complex network theory with outputs from a model simulation of the North-West European Shelf (NWES) to identify 1) spatial correlation length scales of biogeochemical variables, 2) geographical regions with strong spatial correlation within them and weak correlation between them and 3) correlations between biogeochemical variables. Point 1) is achieved by computing the Spearman's correlation coefficient between the time series of the different grid points. For point 2), for each variable, they build a spatial network with the previous coefficient, apply spectral graph clustering to gather grid-points and identify the boundaries of these clusters. Then, they define the regions base on the fraction of variables that have a boundary in each grid point. For point 3), they compute the Spearman's correlation coefficient between the spatial distributions of each variable, build a spatial network with that and use the spectral graph clustering to cluster biogeochemical variables. A first result of this work is to show that complex network theory can be used to identify biogeochemical variables. This is of interest for reducing the complexity of biogeochemical dynamics and for helping the analysis of simulations. The correlation length scales are of interest for data assimilation as it quantify the range of the influence between grid points. I very much appreciated to read the paper. It is clear and well written. The results are of interest and worth to be published. It presents an interesting way to analyse biogeochemical model outputs. The definition of biogeochemical provinces is particularly interesting as it can help the analysis of models. The methods are clearly explained. I do not have major comments on the paper, but rather a list of minor or specific comments that are more important are
As a summary of my comments, here are my answers to the review criteria at
Biogeosciences. I just selected the relevant questions:
 Do the authors give proper credit to related work and clearly indicate their own new/original contribution? Yes. Maybe a bit of comparison with the literature on correlation length scales could benefit the paper.
 We agree. We will include some comparison to addition literature on lengthscales. Some examples are given below: Fowler, A.M., Skákala, J. and Ford, D., 2023. Validating and improving the uncertainty assumptions for the assimilation of ocean-colour-derived chlorophyll a into a marine biogeochemistry model of the Northwest European Shelf Seas. Quarterly Journal of the Royal Meteorological Society, 149(750), pp.300-324. Desroziers, G., Berre, L., Chapnik, B. and Poli, P., 2005. Diagnosis of observation, background and analysis-error statistics in observation space. Quarterly Journal of the Royal Meteorological Society: A journal of the atmospheric sciences, applied meteorology and physical oceanography, 131(613), pp.3385-3396. Hollingsworth, A. and Lönnberg, P., 1986. The statistical structure of short-range forecast errors as determined from radiosonde data. Part I: The wind field. Tellus A, 38(2), pp.111-136.

RC42	2. Does the abstract provide a concise and complete summary? Mostly. It could be
	improved by more clearly stating the results
AC	Thanks. The abstract will be amended according to the "minor and specific comments" to
	address this.

	Minor and specific comments
	Abstract
	I think the results should be more clearly/precisely stated in the abstract. It seemed a bit to
	vague to me. For example:
RC43	- I. 4: « to identify the functional types », which one are they exactly?
AC	Different expression to be used: "functional groups" when referring to a group of similarly behaving variables, to avoid confusion with PFTs used by ERSEM. We will also mention the key groups in brackets after (i.e. phytoplankton, detritus and
	neterotrophs & DOM).
DC44	
RC44	- 1. 6: « Identifying the (geographically varying) connectivity lengthscales and the clusters of spatial locations that are connected. » What are the main findings concerning the length scales? What are the different clusters? For the length scales, results that seems particularly interesting is that spatial variability is quite similar between variables, requiring only to scale it using the mean length.
AC	We will update the abstract to give more detail on the lengthscale results. "We show that the spatial correlation lengthscales vary significantly between variables and are not directly transferable, however they are distinguished only by a constant scaling factor: the spatial distribution of lengthscales is similar for each variable." We may update the abstract to include some of the specific regions (e.g defined by river input, or open-ocean to shelf-sea exchange), although we identify 13 different regions/clusters in our analysis, each only labelled with a letter A-M. Detailing all of them would seem unnecessarily specific in the case of the abstract.
RC45	- I. 9: « The results of this study help to understand how natural, or antrophogenic, perturbations propagate through the shelf-sea ecosystem », it is difficult to agree with that last sentence since the results where not clearly stated before. After finishing reading paper, I also do not think the results help to understand how perturbations propagate in the ecosystem. The results rather offer a analysis framework to do that.
AC	We agree that our method provides a framework to describe the propagation of
	information. We also agree that using the word "understand" in relation to how perturbations propagate was perhaps too strong and we will change this to "describe". The use of "describe" can be justified since:
	 The nonzontal lengthscales help to identify areas where the information is shared across space. The regionalisation indicate that an area has some level of shared behaviour, meaning information from these regions are more likely to have a stronger
	 Influence within the region than outside of the regions. The inter-variable analysis indicates how information of a particular variable can spread to other linked/clustered variables, as certain subsets of the state variables are shown to behave with a strong correlation. The existing statement will be rephrased as:

	"The results of this study describe how information is expected to propagate through the
	shelf-sea ecosystem on the time-scale of interest, and how it can be used in multiple future
	applications such as stochastic noise modelling, data assimilation, or machine learning."
RC46	- I. 9: « antrophogenic » -> anthropogenic
AC	Agreed, thanks for pointing this out.
	Introduction
RC47	I. 35: « an abstraction that will allow for smarter decision-making when considering data
	sampling and feature selection for ML. » Not that clear to me how and why abstraction can
	allow smarter decision-making.
AC	We agree that the word abstraction" is inappropriate and misleading here, we will replace
	it with the word "information". The key message of this sentence is that identifying
	connections across the NWES and variables, would indicate which variables and locations
	are unneeded as input features into ML algorithms.
RC48	I. 37-50: Very nice paragraph clearly stating the objective of the work.
AC	Thanks.
	Model and Data
RC49	Sec. 2.1: I think it will be nice to have a bit more details about the configuration. Things
	like: numerical schemes, diffusion, viscosity, equation of state, what forcings (wind,
	temperature?). How the simulations are run (spin-up procedure, initialisation). The
	reference to the papers should be for further details. The reader should not need to read
	these papers to get a basic understanding of the configuration.
AC	We agree, and we will give more details about the configuration used.
0.050	Methodology
RC50	Sec. 3.1: maybe a figure showing the raw and filtered time series in the supplementaries
	could be useful to illustrate what are the timescale filtered? Or maybe some periodogram?
	It should probably be stated before (introduction? Or somewhere in the methods?) what
	are the timescales of interest? And why? Out of curiosity have you tried your analysis with
10	the seasonal signal?
AC	We agree and we will provide a Figure comparing the raw and filtered time-series in the
	Supplementary information. The time-scales are limited by the resolution of outputs (1
	day) on one end, and by the need to remove seasonality on the other end, since
	seasonality introduces artificial correlations. The links between variables are explored
	balieve that the links between variables and regions that we identified here could be
	applicable to longer time-scales than the time-scale of the simulation. Note, some tests
	were done using the seasonal signal, however as already said this signal results in a yory
	large temporal correlation across the entire domain, obfuscating any detail within the
	ragion
RC51	1 154: « to a 21 km spatial resolution » make me wonder if the results are sensitive to the
NCJ1	resolution of the model? Longer length scale because of eddy mixing? Or shorter one
	resolution of the model. Longer length scale because of eady mixing: of shorter offe

	because of dynamical barrier created by filaments or eddies? This somehow questions also
10	the isotropy assumption.
AC	that physics (eddy-mixing, filaments, eddies, which should be resolved by the 7km model)
	is important contribution to the length-connections (e.g. increase of Rossby radius in the
	appendent contribution to the length-connections (e.g. increase of Rossby radius in the
	drivers are intertwined with biogeochemical drivers that will also be reflected in the output
	(a g river delta geography interaction of sunlight with biology, etc)
	(e.g. river delta geography, interaction of sumight with biologyetc).
	To clarify the 7km and 21km resolutions: the model is run at 7km resolution, and only the
	daily model outputs are upscaled to 21km, because the 21km is the highest resolution we
	could feasibly use in our complex network analysis for computational reasons. When it
	comes to the model resolution (7km), obviously using higher resolution than 7 km would
	improve the physics of the model (e.g. increase of the model resolution to 1.5km is an
	ongoing stream of work at multiple involved institutions), but for the spatial scales
	considered by this manuscript (I.e. the NWES-wide analysis) it is widely accepted that 7
	km model resolution provides a good approximation to physics and biology. At the end, the
	7 km model is used operationally at the UK Met Office and its outputs are supplied to
	CMEMS. To summarize, we expect that increasing spatial resolution would lead to only
	higher order corrections to the results presented in this work.
RC52	I. 162: I do not understand why the authors say : « As opposed to the biogeochemical
	lengthscales computed in Sect. 3.2.1 [] here we manipulate the spatial networks to look
	at the spatial dependency of this length scale. » In section 3.2.1 you also have a map of the
	length scales that give you the spatial information (Fig. 2). I do not get the interest of these
	two definitions. Note that this also bring a bit of confusion about which are the length
	scales used for the different plots. For example in Fig. 4 which one is it? And for Fig. 5? I
	kind of got that Fig. 4 is the length scale define in sec. 3.2.1 and Fig. 5 the one in sec. 3.2.3
	but it is not so clear.
AC	It is correct that 3.2.1 relates to Fig. 4, and Sec. 3.2.3 relates to Fig.5.
	We will add some text to Fig. 2's captions to make clearer – this is just a visualisation of
	what a length scale calculation looks like.
	The difference here, is that 3.2.1 calculates the average length-scale of each variable, while
	the networks used in section 3.2.3 aim to look at the way that these lengthscales vary
	spatially. Utilising the network structure (with pruning and totalling the number of
	connections) allows us to effectively normalise these lengthscales, so we can directly
	compare the spatial distribution of each variable to each other. We will make these need
	for these differences clearer in the text.
DCE2	1 167: " black » rather than " red »?
AC	Agreed Will renhrase to:
,	
	"shows a set of nodes (red) connected to the current target node (black)"
RC54	Sec. 3.3: This part is not easy to follow. Maybe a short description of the objective at the
	beginning could help the reader. What are the objects to be clustered, following which
	criteria? If I understood well, the goal is to clusters grid-points depending on their
	temporal correlation between each other for each variables so that grid-points with strong
	correlation are group together.

AC	Agreed. We will rephrase the opening sentence of the section to:
	"With the spatial networks, the graphs, from Sect.~3.2 at hand, we aimed to cluster geographical points (represented as nodes in each network), so that areas with similar temporal behaviour are grouped together."
	Results and Discussion
RC55	Sec. 4.1: As mentioned before, mentioning which length scale (the one from sec. 3.2.1 or sec. 3.2.3) the authors refer to would help the reader. Since two definition of length scale seems to be used, it feels natural to wonder how they compare?
AC	Agreed, we will open section 4.1 with: "Figure 4 shows the estimated correlation lengthscales for each model variable using three correlation thresholds (0.5, 0.6 and 0.7) as found from the analysis described in Sect. 3.2.1."
	This makes it clear which length scale is being spoken about.
RC56	I. 275-278: I think I got the general idea here: the spatial distribution of the length scale of a specific variable is the product between Fig. 5a and Fig. 4. However, as it seems that it is not the same definition of the length scale between Fig. 4 and Fig. 5a it is a bit confusing.
AC	Yes, we will make this clearer as to which definition is being used.
DCE7	Sec. 4.1: Lam not familiar with length scale, but it sooms that there is some literature on
KC57	length scales (just saying that based on a quick search on google scholar). Some comparison of the results and the methods with the literature is missing there. Are there other definition of length scale? How does the method used in this paper compare with other? Are the length scales similar to former estimations?
AC	In variational DA where we often parametrize the horizontal length-correlations, the lengthscales can be supplied as a free parameter fitting a specific function (e.g. Gaussian, Lorenzian, SOAR, Gaspari-Cohn) The length-correlation functions are identified either by ensemble runs, or diagnostic methods, such as by Desroziers et al. (2005). For example, the UK Met Office system on the NWES uses sum of two Gaussian functions and the length-correlation functions have been recently re-assessed through diagnostic methods by Fowler et al (2022). The ambition of this work is not to provide fitted functions for the length-correlation, but rather assess through single length-scale parameter how the length-correlations spatially vary across the NWES. This can then feed into future length-correlation analysis. We will compare the spatial length-scale maps from this manuscript with the only study (we are aware of) that analysed biogeochemistry length-correlations on the NWES in some detail, the Fowler et al (2022) paper, which is already cited in our manuscript. We will include discussion on this comparison in the upcoming revision of our manuscript. Please note that as stated in our response to reviewer's comment 2 (RC41), we will also add to the list of references other, more general, papers on the length-scale estimation.
BUE 0	Fig. 7: How is it done? I guess it is some kind of generalisation of Fig. 6 but it would be
	good to know more than « We used those robust boundaries to identify 13 regions representing areas of NWES connectivity. Results of this regionalisation are represented in Fig. 7. » (line 315)
AC	res, it is a generalisation of Fig 6. We will expand the caption for Fig. / to give more detail.

1	I. 350: « or build simpler models than ERSEM » I think this need to be say a bit differently.
	Complexity of models tends to increase to better (or hoping to better) represent the real
	world. NPZD models already exist with just one phytoplankton, one zooplankton Here
	the issue is to simplify ERSEM while keeping an accurate representation. Maybe something
	like line 51 « simplified (yet realistic with respect to the objectives) ».
AC	Agreed, we will add the following to improve readability as suggested:
	"or build simplified (but realistic with respect to the objectives) models than ERSEM."
RC60	I. 363-366: I do not see that in Fig. 8. The mean correlation between POM (yellow) and the
	Higher Trophic Levels + DOM (pink) is rather low. The authors should clarify.
AC	Current text, "Fig. 8 demonstrates two more clusters of variables grouped together: the
	group of particulate organic matter (POM)"
	We will remove "grouped together" to clarify the meaning. These words are not
	necessary, and they might imply that the clusters are linked in some way.
	Conclusions
DCC1	Conclusions
RCOI	1. 410-426. You are here a bit more specific about the results and this could be used for the
	between variables and are not directly transferable. Nor "we have provided an
	approximation for the lengthscale of each variable, and each spatial location, that is
	informed by the high correlation in the spatial variability between lengthscales of each
	variable »
AC	Agreed. We will add a sentence to the abstract that gives some more detail about the
1.0	length-scale results.
RC62	I. 421-424: « Our analysis demonstrated that the chemical components (e.g., nitrogen,
	carbon, silicon etc) of each pelagic variable (e.g., diatoms, nanophytoplankton,
	microzooplankton) are closely linked and a simpler version of the model can be built, by
	reducing these variables through parametrization. » I do not know ERSEM but I assume
	that as many models it started from a simple version and the complexity has been
1	that as many models it started norma simple version and the complexity has been
	increased (e.g. addition of more phytoplankton types). I am wondering how the grouping
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	general representation? This point is mostly for curiosity as it seems natural to try to use
	these regions.
AC	This is interesting and would well worth considering in future work. However, it is out-of-
	scope for this particular work.
RC65	I. 367: Butenschon et al. (2015) and Butenschon et al. (2016) are similar paper (2015 is the
	discussion version of 2016). Better to keep only 2016.
AC	Agreed, we will change accordingly.

Let us thank again the reviewer for their important suggestions and we hope that after the suggested changes, addressing the reviewer comments, the manuscript will be in a good shape to be accepted for publication.

Best wishes,

Ieuan Higgs and the co-authors