Contribution ID: e2d4ebb9-2cf4-4634-83a9-79966b10142e

Date: 25/02/2021 16:34:53

Discussion Paper: Methodology on potential inclusion of climate change in the nat cat standard formula

Fields marked with * are mandatory.

Responding to the paper

EIOPA welcomes comments on the discussion paper: Methodology on potential inclusion of climate change in the nat cat standard formula.

Comments are most helpful if they:

- respond to the question stated, where applicable;
- contain a clear rationale; and
- describe any alternatives EIOPA should consider.

Please send your comments to EIOPA using the EU Survey tool by Friday, 26 February 2021, 23:59 CET by responding to the questions below.

Contributions not provided using the EU Survey tool or submitted after the deadline will not be processed.

Publication of responses

Contributions received will be published on EIOPA's public website unless you request otherwise in the respective field in the survey below. A standard confidentiality statement in an email message will not be treated as a request for non-disclosure.

Please note that EIOPA is subject to Regulation (EC) No 1049/2001 regarding public access to documents [1] and EIOPA's rules on public access to documents[2].

Contributions will be made available at the end of the public consultation period.

Data protection

Please note that personal contact details (such as name of individuals, email addresses and phone numbers) will not be published. They will only be used to request clarifications if necessary on the information supplied. EIOPA, as a European Authority, will process any personal data in line with Regulation (EU) 2018/1725[3] on the protection of the individuals with regards to the processing of personal data by the Union institutions and bodies and on the free movement of such data. More information on data protection can be found at https://eiopa.europa.eu/ under the heading 'Legal notice'.

- [1] Regulation (EC) No 1049/2001 of the European Parliament and of the Council of 30 May 2001 regarding public access to European Parliament, Council and Commission documents (OJ L 145, 31.5.2001, p. 43).
- [2] Public Access to Documents
- [3] Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45 /2001 and Decision No 1247/2002/EC (OJ L 295, 21.11.2018, p. 39).

* Please ir	ndicate the desired disclosure level of the responses you are submitting.
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Quest	tions to Stakeholders

Yes

No

Please explain.

Hail is characterized by the fall of disjointed logs more or less round of ice (hailstones) whose diameter can vary from a few millimeters to about twenty centimeters in the most extreme cases. While this peril happens during wild storm, the effects are specifics.

Windstorm currently covers a large number of perils which are not linked to the same underlying phenomena.

Q2: Do you think that it should be <u>clarified</u> that the peril currently named "Hail" in the SF refers to "Convective Storm"?			
Yes			
O No			
Please explain.			
As stated in the previous comment, hail is a specific peril.			
Q3: Do you think that the peril currently named "Hail" in the SF should be <u>renamed</u> as "Convective Storm"? One is a second of the second of			
Please explain.			
When you have some hails, you have as well some tornadoes In addition, it would fit with the definition of the cat modelling agent making easier the potential comparisons			
Q4: Do you think that it should be <u>clarified</u> that the peril currently named "Windstorm" in the SF refers to "Cyclonic storm"? Yes No 			
Please explain.			
The French Institut des actuaires believes that this peril could be split into two types of perils: cyclones and extra-tropical cyclones. The origin of those perils are different and therefore should not be part of the same definition. For cat modelers, there are two different models as well.			
Q5: Do you think that the peril currently named "Windstorm" in the SF should be renamed "Cyclonic storm"? Ves No			
Please explain.			

	To avoid confusion as most catastrophe modelling tools treat them separately.
term	Do you agree with the risks identified where there is a high confidence level on the current and short- n impact of climate change in Europe? Yes No
Plea	ase explain.
	No comment
cha (Do you agree to refer to a 1.5°C warming scenario for short-term (5-10 years) projection of climate nge? Yes No No ase explain. If no, would you suggest an alternative scenario?
	More 10 years horizon than 5 years.
	Do you agree to take into account adaptation measures when assessing weather-related risks? Yes No
Plea	ase explain.
	Mitigation measures (objective of action on the factors of climate change despite a significant level of

Mitigation measures (objective of action on the factors of climate change despite a significant level of uncertainty) and measures to adapt to the consequences of change (objective of maintaining equivalent living conditions despite climate change) should be taken into account.

Insurers and reinsurers should be more proactive on this to motivate citizens, cities and states to invest in such these measures

Q9: Do you agree that in light of climate change, it is necessary to explicitly consider climate change in the recalibration of the Nat Cat SF for certain perils/regions as identified in Part 3?

YesNo				
Please explain.				
Models are not calibrated each and every year, it is important to include the potential impact of climate change in the next 5 to 10 years. It is important to explicitly point out the quantum in the parameters' calibration attributed to climate change. Since these factors involve country granularity and cross impacts it is more transparent and flexible to mention explicitly as explained in Part 3 the country and the peril impacted by climate change. However a cost / benefit analysis must be run with FCA and undertakings in this consultation to check the feasibility of the inclusion of such explicit variable.				
Q10: Do you agree that for relevant perils/regions where climate change is expected to have an impact, Nat Cat models explicitly considering climate change should be used if available? O Yes No				
Please explain.				
Indeed if the vendors models already include the potential impact of climate change, these models should be used however (and this is the next question), we are not aware of any modules trying to integrate it at the moment.				
Q11: Are you aware of models, which would explicitly consider climate change which could be used to perform the Nat Cat SF parameters' calibration? O Yes No				
Please explain. If yes, please provide information about models.				
There are some regularly used models by Meteorologists such as CMIP 5 but is not fully available and require meteorology knowledge hence a price to pay to handle properly.				
Q12: Do you think that new countries should be considered in the SF in light of climate change? O Yes No				
If yes, please explain which ones, why and provide sources of data/studies.				

	In order to be prudent all countries that have been impacted in the last decade with a high severity and penetration should consider being included - Coastal flood should be added in France since there have been many occurrences in the last 3 years.				
	Q13: For new perils, EIOPA has focused on wildfire. Do you see additional "new" perils which could be of relevance for the SF? Yes No				
If y	es, which ones?				
	In addition to wildfire and drought we should also take into account heatwave increase in frequency and severity, however there is currently no vendors models.				
	4: Do you think that wildfire could potentially be material enough for the insurance sector to be insidered in the SF? Yes No				
Ple	ase explain.				
	The example given is Portugal with a few major events but some events took place in Greece and in northern Europe countries (Finland) as well. Drought is one of the driver of such potential issue as well as building of houses nearby forests.				
	5: Are you aware of models or data which could be used for the calibration of parameters for wildfire risk Europe? Yes No				
Ple	ease describe the data and/or models.				
	Some models exist in the US but to our knowledge not in Europe. We have identified a few data sources: - https://www.preventionweb.net/news/view/73721 - http://www.drias-climat.fr/ - https://cerfacs.fr/en/wildland-fire-propagation/?cn-reloaded=1				

Q16: For new lobs, EIOPA has focused on agricultural insurance and NDBI. Do see additional lobs, which could be of relevance for the SF?
Yes
No
Please explain. If yes, please provide lobs names.
Q17: Do you think that crop insurance could potentially be material enough for the insurance sector to be considered in the SF? Yes
O No
Please explain.
Crops can be impacted by several natural disasters like drought and hail and therefore should be included in the scope especially because some insurance companies are heavily exposed to this specific LoB in limited territories. This will increasingly be covered by parametric insurance.
Q18: Do you think that adding a loading factor is the right approach to capture climate change? © Yes o No
Please explain.
Entities with sufficient knowledge about this risk could use an internal estimated capital approved by the regulator, and therefore not be hit by a loading factor.
Q19: Do you think that revaluating the correlation matrices is the right approach to capture climate change? O Yes
No
Please explain.
·
Correlations are very important but we could end up with an over parametrisation if the correlation matrix has

	Do you agree that there is a need to formalise an approach to re-assess current Nat Cat SCR meters on a regular basis?
	Yes
	No No
	se explain. If yes, how often should this take place? Who should participate to such a reassessment? t should be the parameters considered?
	Insurers will need to discuss with climate change scientists, model vendors, FCA in order to reassess current Nat Cat SCR parameter on a regular basis.
nate	Do you agree that regular recalibration is needed but under the condition that the changes are rial in order to not include artificial volatility? Yes No
Plea	
	se explain.
	Changes needs to take into account the period of return of high severity claims. However this should be monitored since frequency may also increase so the materiality threshold will require a big scrutiny.
Q22 calib	Changes needs to take into account the period of return of high severity claims. However this should be monitored since frequency may also increase so the materiality threshold will require a big scrutiny. Do you agree that any recalibration should take in account adaptation measures in a future ration?
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Q22 calib	Changes needs to take into account the period of return of high severity claims. However this should be monitored since frequency may also increase so the materiality threshold will require a big scrutiny. Do you agree that any recalibration should take in account adaptation measures in a future ration? Yes No

ye:	es, please provide these other comments.
	Generally speaking, it could be interesting to investigate topics related to ecological transition from the perspective of the insurer's place as an economic selector of polluting or green companies.

Contact

Contact Form