

The Impact of Climate Change on Cargo Underwriting



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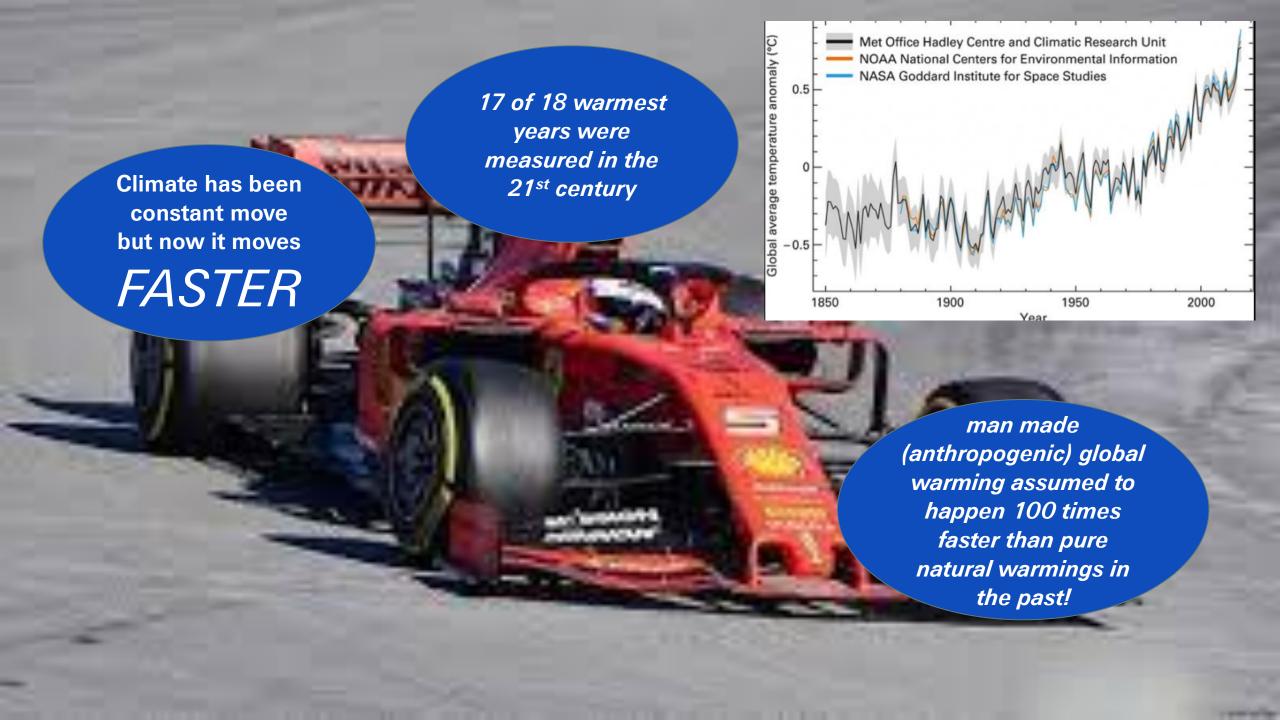


Introduction











Frequency of severe weather events will increase

Urbanisation happens in coastal areas exposed to extreme weather conditions

Cargo turnover in ports and coastal regions will continue to increase

Cargo is most vulnerable while in storage – mainly in port areas



The Technical Impact



8



Technical Impact on Cargo Underwriting





Product design: controlled storage sites to be agreed



Non-binding recommendations by the German Insurance Association (GDV) for optional use. Other conditions may be agreed.

In case of deviations the German wording shall prevail

DTV Cargo Insurance Conditions 2000/2011

(DTV Cargo 2000/2011)

I Open Policy Conditions

Standard policy conditions of the GDV

1.2 Notwithstanding the provisions in Clause 9 DTV Cargo 2000/2011, the insurance of storage by order of the Insured during the insured transport only covers storage facilities agreed with the Insurer prior to the commencement of risk. If the parties agreed that storage prior to the commencement and after the end of the insured transport shall be covered, sentence 1 applies correspondingly.

https://www.tisgdv.de/tis/bedingungen/avb/ware/ware.html/

i. Premiums

6.1 Individual declaration

Premiums at the agreed rates, plus tax and ancillary costs, are invoiced at the end of each agreed period.

6.2 Summarised declaration

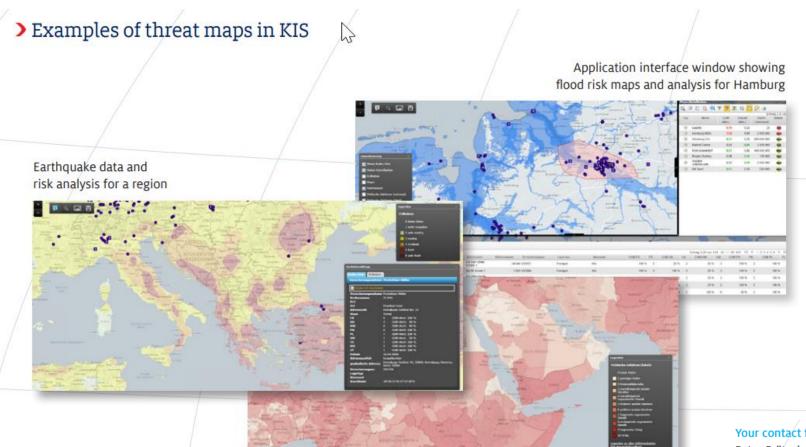
The Insurer is entitled to provisionally invoice a deposit premium for the agreed period. The invoice includes premiums for covering political risks.

A final invoice taking into account the deposit premium already paid is drawn up after the policy year.

Invoices pursuant to Clauses 6.1 and 6.2 are prepared separately for transport and storage by order of the Insured.



Risk modelling: create threat / alarm zones



- Individual storage locations of a cargo portfolio shown in the map
- Specific regions marked from user as threat/alarm zones (red)
- Individual and accumulated sums insured within the alarm zone shown in a table (right & bottom)
- Alarm is triggered once the predefined max. accumulated sums insured for a threat zone have been exceeded.

Your contact for KIS

Regional political risks assessment

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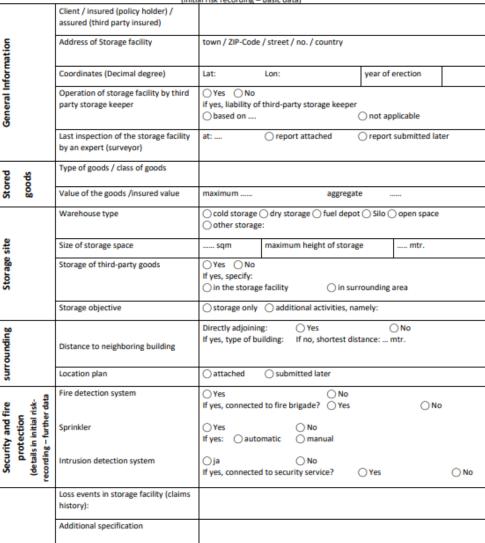
Loss prevention: define safety & survey standards

Non-binding publication of the German Insurance Association (GDV) for facultative use.

Other forms may be agreed.

Storage Questionnaire

(initial risk recording - basic data)







Better response to climate change: include deteriorations from global warming

71% of all insured nat cat losses in 2020 were from so named ,secondary perils'

Secondary perils to be understood as local nat cat events as a consequence or independent from a primary peril

Examples are wildfires, local floodings and severe convective storms (SCS)

SCS are highly localized events with large loss potential from tornadoes, cloud bursts and Hail

Whereas primary perils such as TCNA (hurricanes) are well monitored risks, SCS are not fully monitored or modelled

Avg. frequency of SCS – mainly hail and flash floods – in Germany expected to grow by 25% until 2040 and later by 60% until 2100.

The increase is even higher in southern and eastern regions of Germany. This happens NOW!

The cause of increase is allocated to the rising temperatures of the sea.

Hail comes with local flash floods can have severe impact on cargo storage locations.

Higher frequencies of small to medium local weather events need special attention but are more difficult to model.

Source: Swiss Re SIGMA 1/21

Source: DWD & GDV

We are not alone!

"The maritime industry is changing – ships are getting bigger, trade is growing, climate change is upon us, and technology is fast impacting our opperations."

The Port Authority of New York & New Jersey – Port Master Plan 2050

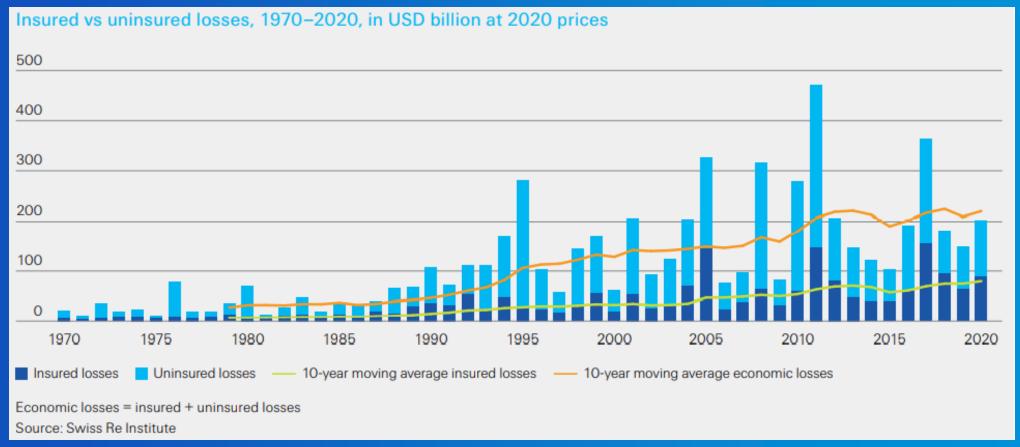


The Political Impact



"Re/Insurance industry has a key role to play in promoting the transformations needed to protect the world from climate change"

Antonio Guterres, UN Secretary General at Insurance Development Forum (IDF), June 8th, 2021



(Re)Insurance part of the problem?



project
insurance
delay in start
up

cargo insurance

'Our best insurance is to keep fossil fuels in the ground'

Unfriend COAL





























INSURANCE COMPANIES ASSESSED IN THIS REPORT













































TIAA













SCORING GRID

	COUNTRY	COAL INSURANCE		COAL DIVESTMENT		OTHER CLIMATE LEADERSHIP	
		RANK	SCORE	RANK	SCORE	RANK	SCORE
Swiss Re	+	1	4.0	1	5.1	6	3.7
Zurich		2	3.6	3	4.3	4	5.3
AXA		3	3.2	5	3.6	5	4.5
AXIS Capital		4	2.7	9	2.4	25	0.0
Generali		5	2.5	7	2.5	7	3.2
QBE	# 1	6	2.4	10	2.3	8	1.8
Allianz		7	2.1	4	4.0	3	5.9
Chubb		8	1.7	12	2.0	20	0.7
SCOR		9	1.7	2	4.5	13	1.3
Hannover Re		10	1.5	6	2.7	22	0.5
HDI Global		10	1.5	12	2.0	24	0.3
Aviva	22	12	1.1	15	1.7	2	6.0
Munich Re	_	13	1.1	7	2.5	11	1.6
Mapfre	6	14	0.8	14	1.7	16	0.9
Ping An	*)	15	0.6	18	0.6	19	0.7
Lloyd's	20 52	16	0.0	11	2.2	16	0.9
W.R. Berkley		16	0.0	16	1.4	25	0.3
Legal & General	22	n/a	n/a	17	1.0	1	6.4
Tokio Marine	•	16	0.0	19	0.0	9	1.8
Sompo	•	16	0.0	19	0.0	10	1.7
TIAA Family		n/a	n/a	19	0.0	12	1.3
MS&AD	•	16	0.0	19	0.0	14	1.1
Samsung FM	(16	0.0	19	0.0	15	1.0
Prudential		n/a	n/a	19	0.0	18	0.8
AIG		16	0.0	19	0.0	20	0.7
MetLife		n/a	n/a	19	0.0	23	0.4
Berkshire Hathaway		16	0.0	19	0.0	25	0.0
FM Global		16	0.0	19	0.0	25	0.0
Liberty Mutual		16	0.0	19	0.0	25	0.0
Sinosure	*)	16	0.0	19	0.0	25	0.0

Primarily reinsurance

The maximum score for each column is 10.

Multiline insurance

For details of insurers' policies see page 14 and https://unfriendcoal.com/2019scorecard.

INSURING COAL NO MORE The 2019 Scorecard on Insurance, Coal and Climate Change

Primarily life insurance

(Re)insurance part of the solution!

AFRICATECH

NOVEMBER 23, 2015 / 11:05 PM / 3 YEARS AGO

Allianz to pull funds out of coal businesses -exec to ZDF



Es ist höchste Zeit, dass Hannover Rück sich ein Beispiel an der Allianz und Munich Re nimmt und aufhört, letzter Rettungsanker der Kohleindustrie zu sein.

Regine Richter, urgewald

LATEST NEWS

headlines from 2019



MARCH 14, 2019

Uniqa will stop insuring new coal plants and mines – 10th insurer to ditch coal



MARCH 11, 2019

Spain's Mapfre will stop insuring new coal plants and mines – 9th insurer to restrict underwriting



MARCH 4, 2019

Smart money is jumping the sinking coal ship



Swiss Re establishes thermal coal policy to support transition to a low-carbon economy

Swiss Re will not provide re/insurance to businesses with more than 30% thermal coal exposure

"In the individual risk business, where we can see the risks exactly, we will, in the future, in principle no longer insure new coal fired power plants or mines in industrial countries," says Munich Re CEO Joachim Wenning in a commentary published in German daily newspaper *Frankfurter Allgemeine Zeitung* on Monday.



Environmental, Social, Governance (ESG) issues How will Marine insurers be affected by sustainability issues?





Conclusion



Conclusion

Cargo underwriter will feel increased pressure to better monitor cargo nat exposure.

Tools to increase transparency are available to cargo underwriters (IUMI!) – time to implement.

Threat maps will allow exposure steering along capital requirements and reinsurance.

Secondary perils a challenge for nat cat modelling.

ESG requirements will create political pressure. No exception for cargo underwriting.

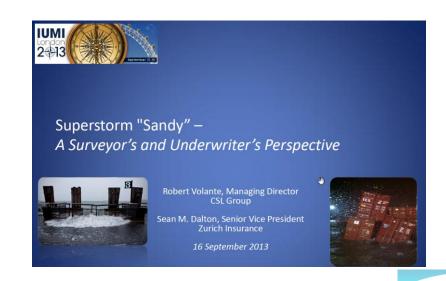
Underwriting process might become more complex.



Static cargo most exposed to large loss events - IUMI provides regular expertise











IUMI 2018 Static Risks in Cargo Insurance Matthias Kirchner AXA Corporate Solutions Germany 18 September 2018





Building on Asian Property Expertise to Meet NAT CAT Challenges on Static Cargo

Joe Venetico

Global Underwriting Manager, Property & Business Interruption Zurich Insurance Company Ltd

Sources

- Deutscher Wetterdienst DWD
- Gesamtverband der Deutschen Versicherungswirtschaft GDV
- IUMI
- Swiss Re Institute/Sigma
- Verein Hanseatischer Transportversicherer VHT / Kumul Informationsservice KIS
- Unfriend Coal
- Urgewald





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