



LONGLINE
ENVIRONMENT

Aquaculture Insurance

Longline Environment



A knowledge company

Longline Environment was founded in 2005, to provide marine environmental products and services based on 20 years of research and technology development experience. Longline offers a range of consultancy services and solutions to the marine and aquaculture industry.

Longline Environment is a leading provider of aquaculture insurance services to aquaculture farms, insurers and reinsurers, and brokers with experience in Europe, Asia, Middle East, Central and South America.

A large underwater photograph of an aquaculture cage. The cage is made of metal bars and is partially filled with water. A black spherical object is visible inside the cage. The background is a deep blue, suggesting the ocean.

Securing
aquaculture
risk



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Aquaculture insurance

Risk solutions

Longline Environment

Longline has a specialist unit dedicated to risk services helping aquaculture farms, underwriting markets, and insurance brokers with production, environmental, and social risks for offshore and onshore aquaculture and related industries.



Risk assessment

Risk assessment services for aquaculture farms, underwriters, and brokers. Production and environmental risks for aquaculture farms. Our modelling and big data tools allow us to provide insights and analysis for offshore and onshore aquaculture, for a wide range of commercial aquaculture species.



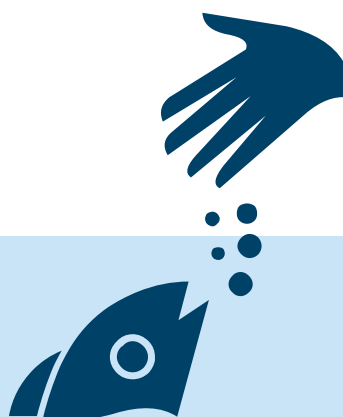
Aquaculture surveys

Aquaculture surveys are performed by a world-class network of scientists from around the world providing, bridging science and risk management for aquaculture insurance and reinsurance markets. We provide clients with experts on a variety of commercial aquaculture species, and areas of knowledge.



Market intelligence

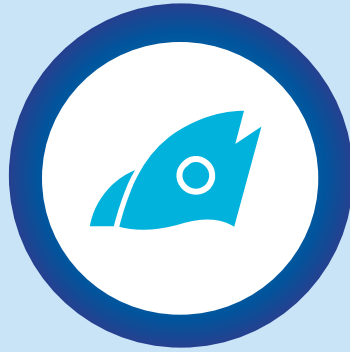
Market intelligence provides strategic insights for aquaculture. Detailed intelligence on government initiatives and policy, companies, sectors, and markets, to address macro and micro trends. Development risk-transfer solutions for some of the largest aquaculture markets around the globe.



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Aquaculture insurance

Risk assessment



Our approach

We provide risk assessment services for aquaculture insurance. We offer a depth of in-house knowledge and an extended network of scientific advisors to identify production and environmental risk factors. We employ sound scientific techniques, including biomass modelling, analytics, remote sensing to profile risk factors.



Due diligence

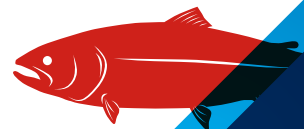
Understanding specific production, environmental, and geographic risks is key to provide a balanced risk assessment. We compile rigorous due diligence to identify and mitigate risks, taking into account language and cultural differences. Accurate compilation and interpretation of data from stakeholders and verification through third party sources is key for risk selection.



Species and systems

Longline has worked with a wide range of species and systems, ranging from finfish, bivalves, to shrimp. Different species present specific challenges and operational risks. Aquaculture insurance underwriting management relies on concise information to price risk factors.

salmon | tuna
sea bass | sea bream
trout | tilapia
native species | barramundi
turbot | halibut
cobia | amberjack
striped bass | pompano
snapper | grouper
sole | turbot
scallops | oysters
mussels | abalone
sea cucumber | urchins
shrimp | lobster



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Aquaculture surveys



Science

Longline's aquaculture surveys are performed by our scientific network and supported by a global pool of advisors, ranging from academic to industry professionals providing specialist knowledge on scientific challenges for commercial aquaculture. Findings are applied using cutting edge science to inform underwriting decisions.

production | disease
algal blooms | water quality
storm exposure | equipment
culture practice | modelling
remote sensing | data
analytics | hydrodynamics
coastal management



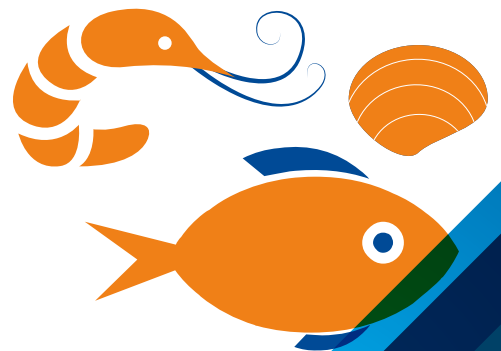
Global reach

We provide a global reach covering a variety of aquaculture systems. Our added-value is to provide trusted surveyors on the ground, whom are bi-lingual and possess detailed knowledge of the local market. Our aquaculture insurance surveys have been carried out in Europe, South America, Central America, Asia, and the Middle East for numerous species and systems.



Linking science to insurance

Understanding both the commercial realities of aquaculture and the insurance market is crucial to address insurance and reinsurance challenges. We provide a platform for insurance markets to obtain objective scientific advice on a wide range of disciplines.



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Aquaculture insurance

Market intelligence



Adding value

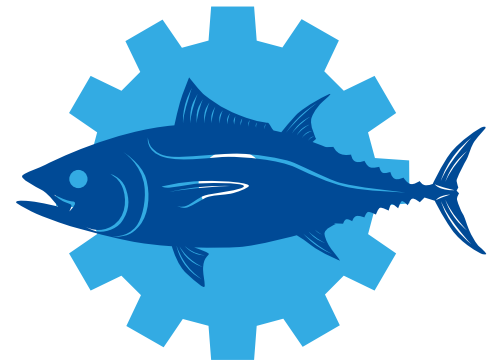
We provide assessment services to aquaculture stakeholders for a variety of risk-transfer solutions. Detailed intelligence on government initiatives and policy, companies, sectors, and markets, to address macro and micro trends. Our knowledge of aquaculture markets enables commercial due diligence to assess strategies for different aquaculture producing countries.

Europe | North America
South America | Central America
Africa | Middle East | Asia



Emerging markets

Many of the largest aquaculture producers around the world are considered emerging markets in insurance terms. Each market requires a bespoke approach in order to achieve a successful entry to market. We work a global network of stakeholders and institutions from the major continents to maximise efficiency, maintaining a global database of producers and scientific data.



Local knowledge

We leverage our local knowledge to support the development of risk transfer solutions, such as aquaculture insurance. Around the world, aquaculture farms, insurance underwriters, and brokers can benefit from our experience.



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Aquaculture insurance

Market information

What is aquaculture insurance?

Aquaculture Insurance is a stock mortality insurance policy, insuring animals in case of unforeseen mortality events. Aquaculture insurance is available for farms around the world for a wide range of species. Aquaculture Insurance should provide the following benefits:

- Protection of capital invested;
- Protection against events/natural hazards that affect health, assets and harvests;
- More secure incomes, increasing stability and economic welfare;
- Improved access to investment capital and finance;
- Access to risk management strategies and opportunities for mutual assistance for cooperation within the aquaculture industry.

Why is aquaculture insurance not widespread?

Aquaculture insurance is a technically difficult industry to insure and the majority of fish farms are not covered by aquaculture insurance.

- Due to the technically-demanding niche nature of the industry and the poor historical underwriting results, there are very few participants in the class;
- Aquaculture business is exposed to high frequency attritional losses (sealice, for example) as well as lower-frequency catastrophe losses (storm, super-chill, tsunami, earthquake, volcano, algae for example).

How much does aquaculture insurance cost?

Due to the varied nature of aquaculture operations, the insurance cost will be different from farm to farm. The cost of insurance for fish and shellfish farms depends on the risk exposures, the operating standards of the farm. Aquaculture insurance is most effective when tailored to the necessities of individual farms, with emphasis on covering the risks beyond the direct control of the farm.



Aquaculture insurance

Offshore perils

- 1. Storm, lightning, tsunami, collision, structural failure of equipment**
- 2. Theft and malicious acts including animal rights groups**
- 3. Predation/physical damage predators**
- 4. Freezing, supercooling, ice damage, including collision from ice**
- 5. Pollution, deoxygenation, plankton bloom or competing biological activity**
- 6. Change in concentration of normal chemical constituents of the water**
- 7. Disease**



Risk
transfer

Aquaculture insurance

Onshore perils

- 1. Pollution**
- 2. Malicious acts (including malicious acts of environmental groups), theft, predators**
- 3. Flood, tsunami**
- 4. Storm damage, structural failure, breakage/blockage of the water supply system**
- 5. Drought, fire, lightning, explosion, earthquake**
- 6. Freezing, frost damage**
- 7. Mechanical or electrical breakdown or accidental damage to machinery and other installations, failure or interruption of the electricity supply, electrocution**
- 8. Deoxygenation due to vegetation, competing biological activity, high water temperature**
- 9. Any other change in concentration of the normal chemical constituents of the water**
- 10. Disease**

Asset protection



Locations



Local knowledge. Global portfolio.

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