TSUNAMI - Projects Grouped by Theme

Reference	Title

Agriculture and aquaculture

T024	Seasonal predictions of climatic hazards to agriculture in US and Europe
T026	Risk estimates from storm damage to fish farms
T029	CROPWATCH - Medium range forecasting of water availability for crop futures and insurance

3

Climate variability

T003	Prediction of Global Warming Effect on Tropical Cyclone Activity
T013	Influence of surface temperature of the North Atlantic on extreme climate events
T018	Seasonal prediction of tropical cylcone activity
T027	Forcing and ocean response in climatic extrema (FORCE)
T028	Hydroclimatology: large-scale interactions between atmosphere and hydrosphere
I018	Influence of North Atlantic Oscillation and climate variability.

6

Earthquake

T001	Global earthquake data and intensity forecasting (GEDIF)
T053	Real time earthquake observations
T056	Identification of active faults using SPOT-generated digital elevation models
I001	Estimation of Hong Kong earthquake risks
I003	Estimation of earthquake or land/seabed slip in the Caribbean Region.
I015	Earthquake damage estimates for San Francisco and Los Angeles.
I020	Earthquake estimates for Western Europe particularly Italy.

7

Flood

T012	Flood forecasting for the insurance industry
T022	Real-time flood forecasting
T051	Direct observation of flooding from extreme rain storm events
I005	Estimation of risks from flood for the UK.

4

General

T021	Extreme rain-storm events in the UK
T048	Improved estimates of post loss cost development by analysis of changing supply curves.
T059	Ice risks to navigation and offshore structures - changes and innovations
I010	Application of understanding of demographic behaviour to incurred risk and consumer
I011	Correlations between economic behaviour and insurance loss.
I012	Psychological analysis to assist in assessing fraud risk.
I016	New business creation through better estimation of currently uninsured risks.
T060	The use of earth observation data in natural hazard risk assessment and damage
T061	The psychology of insurance fraud

9

Information Technology

I023	Meta-data management methods applied to insurance.

1

Marine

T010	Better risk profiling for marine underwriting
T015	Risk to shipping
I022	Risk estimating in marine underwriting.

3

TSUNAMI - Projects Grouped by Theme

Reference	Title

Mathematical Methods

T031	Alpha-stable processes and mixture models with applications to insurance forecasting	
T032	New mathematical methods for extreme statistical analysis	
T038	Estimating aggregate exposure to extreme events	
T039	PURSE - Managing and integrating risks for loss control: development of a prototype	
T046	Relating expected payouts and risks for portfolios of nonindependent insured events subject	
T047	Singular systems analysis of low frequency events within multiple time series data, with	
T055	ADEPT II - Analysis of spatial dependence due to natural loss exposures	
I009	Application of new mathematical methods for the analysis of extreme statistics.	
I021	Credit and economic risk correlations using new mathematical methods.	
		9

Offshore platforms

T008	Increases in local wave heights and impact velocities due to wave diffraction	
T009	Wave and wind exposure to offshore platforms	
T014	Medium range forecasting of wave conditions in the Northern Hemisphere	
T025	Wave and wind exposure to offshore platforms	
T034	Quantification of risk arising from weather related incidents on offshore platforms	
I008	Improving single event and aggregated offshore oil platform loss estimates.	
		6

Rejected

T011	Rejected	
T041 - 45	Rejected	
T049	Assessing environmental risks from liquid product pipelines.	
		3

Satellite

T002	Direct measurement of land subsidence from space with SAR interferometry	
T004	Evaluation of the risks to satellites from the radiation belts	
T005	Satellite risk	
T050	Satellite damage estimation from debris	
I024	Correlation of satellite life losses and space weather events.	
		5

Sea floor instabilities

T007	Seafloor instability	
T016	Risks associated with seafloor instability	
T030	Volcanic hazard from the Kick 'Em Jenny seamount in the South-West Caribbean	
T058	Hazard assessment of the impact of continental slope and oceanic island volcano instability	
		4

Storm surges

T020	UK storm surge hazards	
T052	Land risk marine erosion observations	
T054	Observation of real-time storm surge events from satellite imagery	
		3

Subsidence/landslip

T023	Climatic controls on subsidence losses in the UK	
T040	Forecasting long-term soil moisture content for subsidence risks	
T057	Identification and characterisation of terrains prone to large-volume slope movements.	
I006	Estimation of subsidence risk by forecasts of prolonged dry periods.	
		4

TSUNAMI - Projects Grouped by Theme

Reference	Title	
Teleconnection		
T017	Teleconnections of extra-tropical climate extremes	
T036	Teleconnections of extra-tropical extremes	
T037	Investigation of Antarctic sea ice anomalies as a potential ENSO predictor	
		3
Well control		
T006	Well control/facilities and oil production business interruption insurance	
T035	Risk assessment for well control events from geologically induced loss of control.	
I007	Improved estimates of well control, facilities loss and business interruption for oil and gas	
		3
Windstorm		
T019	Windstorm hazard in NW Europe	
T033	Storm-to-surface transfer functions	
I002	Refinement of the Gray model for tropical storm prediction	
I004	Impact of climatic change on UK storm modelling.	
I013	Sea surface temperature changes and northern limit of hurricane tracks.	
I014	Fall off of hurricane strength as hurricanes move from sea to land.	
I017	Correlation between sea surface temperature and NW Europe storm tracks.	
I019	Correlations between mean wind speeds and gust speeds.	
		8
		81