



Example (not comprehensive) filled in by Future Cities-partner Hastings Borough Council

Specific event	Weather extreme	Consequences (indirect impacts of events)	Responses taken	Receptors affected	Location
Heat wave					
05/08/2003	Temperatures anticipated to reach 100F (37.8C).	<ul style="list-style-type: none">– Rail and road disruptions.– Parks and open spaces – busier, large number of visitors to town,– Additional litter on the beach– Increases in incidences of respiratory problems and health difficulties for those suffering from angina and heart problems.– Fires on hills	AA warns that tarmac can melt in the heat. ESCC eventually received £4.6 million to help repair roads damaged during the Heat wave.	Transport, social infrastructure, waste service, public health	Hastings and East Sussex
11/08/2003	Heat wave	<ul style="list-style-type: none">– Paramedics, coastguards and fire crews busy all weekend due to affects of heat on sunbathers and dry foliage which readily turned to tinder.– Sussex ambulance service received more than 700 calls for sun-related incidences e.g. dehydration and sunstroke.		Public health, social infrastructure	East Sussex
13/08/2003	Heat wave	<ul style="list-style-type: none">– Rail tracks buckle in the heat – delays to services.– High temperatures cause air pollution in the form of high ozone concentrations	Bus replacements needed.	Transport and public health	East Sussex
19/07/2006	<ul style="list-style-type: none">– Max. temperature, Eastbourne of 27.5C and 32C at Herstmonceux– Hottest July temperatures recorded since 1914.	<ul style="list-style-type: none">– Roads started to melt and ponds dry up.– School closures	Schools close around the county due to heat	Transport, social infrastructure	East Sussex



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Drought					
22/10/2003	The driest year since 1996 (638.4mm compared with the long term average of 800mm) and the ninth driest year since records began. August and September rainfall only 27mm across the south east, driest since 1873.	<ul style="list-style-type: none"> – Summer heat wave and increased tourist numbers increased demand for water – Reservoirs levels in East Sussex very low: Bewl Water 55% full, Arlington Reservoir 33% full, Darwell Reservoir 33%. Powdermill 46%. Normally reservoirs would be 80% full at this time 	Water saving messages given out	Water resources and quality, water service	Reservoirs in East Sussex (Bewl Water, Arlington Reservoir, Darwell Reservoir, Powdermill)
22/06/2005	<ul style="list-style-type: none"> – Temperatures reach 28C. – Southern Water report water demand increased by around 20% 	Water levels in Arlington and Ardingly reservoirs are about 90% and some rivers see their flow rate decline.		Water resources and quality	East Sussex
05/10/2005	– Driest period since 1976	Water levels across county getting low	Environment Agency warns that unless water use is reduced hosepipe and sprinkler bans may come into force	Water resources and quality, green spaces	East Sussex
13/12/2005	Southern region experienced the driest 11 month period since 1976	Reservoir levels across the county at low levels	Hosepipe bans still in place	Water resources and quality, green spaces	Southern region and East Sussex
24/04/2006	Continuing drought across the south east	<ul style="list-style-type: none"> – Small firms could be threatened by water companies seeking drought orders e.g. window cleaners and car washing services – Risk of standpipes being introduced later in the year. 	Hosepipe ban and other restrictions on water use in place	Economy, water supply and sanitation services	East Sussex

Heavy precipitation / Floods					
18/08/1999	Floods and high winds	East Sussex Fire and rescue (ESFR) called out 12 times due to flooding in the Priory Meadow shopping centre		Economy	Priory Meadow area
21/09/1999	Flash flooding: Manhole covers shot into the air and some streets 3 ft deep in water.	As a result cars were stranded in waterlogged streets in St Leonards and Hastings; dozens of people were unable to go to work.	ESFR in St Leonards fought to stop sewage and water entering 40 houses on Bexxhill Road	Transport, economy	Hastings
25/10/1999	Floods and high winds	<ul style="list-style-type: none"> – Pier damaged - not safe for public. – Strong winds brought large amounts of shingle from the beach on to the promenade, around 75% of 114 seafront benches were damaged as a result. – Fire service had to secure scaffolding at Warrior Square and Carlisle Place. – Power cable brought down in Baldslow Road. 	Seafront road closed to traffic Pier closed	Social infrastructure, electricity and heating services	Hastings



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27/12/1999	Floods and high winds: Gale force winds on Christmas Eve and Christmas Day combined with high tides to cause damage across the county.	<ul style="list-style-type: none"> Some coastal defences were damaged and rivers burst their banks. 		Transport, Social infrastructure	Hastings and East Sussex
12/10/2000	Flooding: Extreme rainfall (More than 100 mm of rain fell in 24 hours) – between 9-12 October the mean rainfall across the River Ouse catchment was 150mm with 200mm recorded between Barcombe and Plumpton. Across the Ouse catchment this was a 1:200 year event and the already saturated ground only exacerbated the problem.	<ul style="list-style-type: none"> Large section of East Sussex virtually under water. Environment Agency state that the floods are the worst the county has seen in 40 years. Every fire crew in East Sussex involved in rescuing people and pumping water from homes and businesses. A21, A22, A26, A27, A227 and A272 all flooded with rush hour motorists on the A22 and 26 stuck in deep water. 	Emergency services fully stretched	Economy, public health, transport, social infrastructure	East Sussex
30/10/2000	Floods and high winds: Worst storm since 1987, 100 mph winds, fallen trees and flooded roads. Around 40 mm of rain fell in 24 hours. Wind gust speeds of around 62 mph recorded at Hastings	<ul style="list-style-type: none"> Thousands of homes across Sussex without power and roads flooded £20k damage to Holy Trinity Church in Robertson Street. Fishing fleet unable to launch due to high winds 	<ul style="list-style-type: none"> Many schools closed. Many roads closed No trains from Hastings 	Transport, social infrastructure	Sussex
22/11/2000	Floods and high winds	<ul style="list-style-type: none"> Some roads flooded, in particular the junction of the A22 and A27 at Polegate. 70 mph winds caused damage to properties and resulted in a car crash on the A21, Kent Road in Hastings 		Transport, public health	Hastings and East Sussex
08/02/2001	<ul style="list-style-type: none"> Flood: 41 mm of rain fell overnight in the Ouse catchment. River Haven burst banks. 	<ul style="list-style-type: none"> Many roads in East Sussex flooded – worst hit A22, A26 and A27. 1 hour of torrential rain from 0300-0400 flooded (many with sewage) 20 shops at the Priory Meadow shopping centre. Bexhill Road flooded as a result A259 closed Landslip in the old town deposits mud and rocks on Rock-a-nore. Waste collection not possible, no access to the CA site 	<ul style="list-style-type: none"> Extra day needed to collect towns waste Roads closed Emergency services very busy 	Transport, economy, waste service	Hastings
16/07/2007	Floods, Lightning and heavy storms	<ul style="list-style-type: none"> Homes and businesses flooded almost 200 people evacuated from Hastings Pier. ESFR in Hastings reported 26 calls between 2030 and 2300 Many premises flooded in the old town. Storm over in 25 minutes. 	ESFR had to get help from other crews in the county.	Public health, social infrastructure	Hastings



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Extreme cold					
31/01/2003	Ice and Snow	Reports of minor accidents on roads Schools closed due to cold	<ul style="list-style-type: none"> – All 25 ESCC gritter lorries were deployed. – Schools and colleges across the county closed 	Transport, social infrastructure	East Sussex
29/01/2004	Ice and snow: 2 cm of snow and freezing temperatures: Patches of ice on most roads leading to the town	Treacherous conditions after gritters proved ineffective in the freezing conditions. Ground temperatures of -4.9C were too cold for gritting roads. Salt only effective above – 3C. AA report 50% rise in callouts.	Gritter lorries deployed	Transport	Hastings
03/03/2005	Snow and ice: Biggest snowfall across the region since 1997.	<ul style="list-style-type: none"> – Gritter lorries dispatched but police and other services inundated with calls of cars sliding off roads and pile-ups. – 120 schools across East Sussex were forced to close as teachers could not get to work. 	ESCC deployed 15 gritters, several fitted with snowp-loughs. Schools closed	Transport, social infrastructure	East Sussex
28/12/2005	Snow and ice: 5 cm of snow recorded at Eastbourne. Temperatures around -2C.	Large disruption to train services.		Transport	East Sussex
07/04/2008	13cm snow at Eastbourne. Blizzards across the county. Heaviest spring snowfall in decades.	– Disruption to rail services and road network	ESCC grits the whole road network. Schools closed	Transport	East Sussex



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High winds / Storm					
08/10/2001	High winds	<ul style="list-style-type: none"> – More than 200 calls to ESFR regarding scaffolding. – Sussex police had over 300 weather related calls in 24 hours. – 12 call-outs for ESFR in Hastings. 	Seafront closed to traffic for more than three hours due to unsafe scaffolding at Regents Hotel. Castle Hill Road and Rothsay Road closed.	Transport, public health	Hastings & East Sussex
02/02/2004	High winds	Police log more than 200 storm related calls in east and west Sussex with reference to felled trees, damaged power lines and flooding.		Transport, public health, electricity and heating services	east and west Sussex
04/12/2006	<ul style="list-style-type: none"> – Storm winds of up to 80 mph across East Sussex. – Floods, high winds: 23 mm of rain recorded for the 02-03/12/2008 at Eastbourne 	<ul style="list-style-type: none"> – Coastguard reports storms reached 'violent' category, one level below a hurricane. – ESFR dealt with blown trees and other damage. 	Emergency services busy with flooding and fallen trees	Transport, social infrastructure	East Sussex
18/01/2007	High winds	<ul style="list-style-type: none"> – By 1130 more than 100 trees were reported as having been blown down due to high winds. – ESFR receive more than 60 calls and attend 35. 	A259 coast road in Hastings closed to all traffic	Transport	Hastings
19/01/2007	High winds	<ul style="list-style-type: none"> – Sussex police receive more than 100 calls regarding fallen trees. Rail services disrupted. – South East Coast Ambulance Service busy throughout day treating drivers for shock after vehicles blown over. – Staff not available to work, – To windy to deliver service 	<ul style="list-style-type: none"> – Council roads engineers and officials spend most of day clearing trees from roads – Seafront road closed 	Transport	