





Study Title: Coastal Flood Risk Ready Survey

Researcher name: Sien van der Plank **Ethics reference**: ERGO/FEPS/49016

Coastal communities need to be engaged in planning for their future over the coming decades, but the Committee for Climate Change suggests there is currently limited capacity or political will to do so,¹ and previous research found a disconnect between national policy and what households think of it.²

Thank you for taking part in this questionnaire, which should only take 10-15 minutes.

This questionnaire has been designed to find out about past and future flooding, your views on responsibility for managing coastal flooding in the area, and the level of engagement with households on their responsibilities and actions in managing coastal flooding. This research is being conducted for the Leverhulme Trust – EPSRC funded PhD research of Sien van der Plank.

Please check the following box if you agree with the statement(s):

Participant Information Sheet I have read and understood the information sheet (dated 13 June 2019) and have had the opportunity to ask questions about the study.	
Data collection I agree to take part in this research project and agree for my data to be used for the purpose of this study.	
Voluntary participation I understand my participation is voluntary and I may withdraw for any reason without my participation rights being affected.	
Data protection I understand that if I withdraw from the study that it may not be possible to remove the data once my personal information is no longer linked to the data (after 30 November 2019).	

This consent form will be stored with your survey responses - by checking the boxes you are consenting to taking part in this study.

ERGO/FEPS/49016

¹ Russell, A., K. Brown, C. Stark, D. Style, J. Barrett, A. Gault, R. Millar, G. Holmes, and B. Freeman. 'Managing the Coast in a Changing Climate'. Committee on Climate Change, 2018.

² A., Meghan, S. Priest, P. Micou, and S. Tapsell. *Analysing and Evaluating Flood Risk Governance in England: Enhancing Societal Resilience through Comprehensive and Aligned Flood Risk Governance Arrangements*. Wageningen: **STAR-FLOOD Consortium**, 2016.

Example

Below is an example of the type of question you may be asked in the survey...

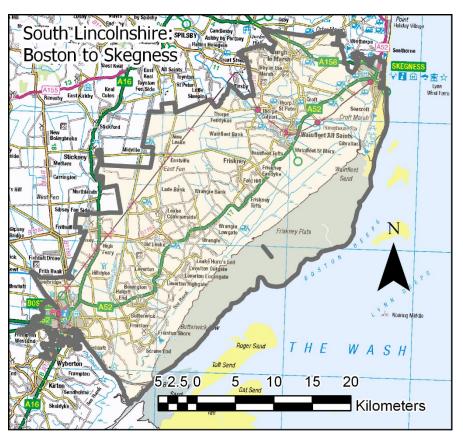
If you see an (1) symbol it means there is extra information available to help you answer the question

Regarding <u>coastal flooding in the coastal area between Boston and Skegness</u>, to what extent do you agree or disagree with the following statement? ①

Please ✓ one box only

Thouse A Gine Dox Grilly	Strongly agree	Agree	Somewhat agree	Somewhat disagree	Disagree	Strongly disagree	Don't know
 a) coastal flood events impacting public and/or private property occur regularly in the coastal area between Boston and Skegness 							

Objection Coastal flooding: when tidal surge, wave action or a combination of tidal surge and waves overtop or overflow the shoreline boundary.



The study area for this research is the coastal area from Boston to Skegness. It <u>includes</u> the urban areas of Boston and Skegness.

This survey asks about coastal flood risk in the south of Lincolnshire, and what you think households and other organisations in (part or all of) this area are doing to prepare for it. Similar questions have been asked to households in the coastal area from Boston to Skegness, to analyse the similarities and differences between households and your perceptions of coastal flood risk and its management in the area.

If you prefer to complete the survey online, please go to https://www.isurvey.soton.ac.uk/33714 and enter the password lincolnshirestudy.

Please complete and return this questionnaire by 31 October 2019.

Different governmental and non-governmental organisations play distinct roles in managing coastal flooding in England. This set of questions asks for some information about who you are and work for

Employer details will never be published such that you could be personally identified. All information collected during the questionnaire will be stored confidentially, and will only be used for the purpose of this study.

Q1a

What is your full name? (1)

Q1C What is your role within this organisation? ①

O Your name will be linked to the questionnaire until 30 November, to (a) ensure we don't ask you participate more than once, and (b) allow you to withdraw your responses until this date. After 30 November 2019 your name will be deleted from the recorded responses – no record you took part will remain.

(7) Your role might be a Local Authority Lead Planner, or Coastal Engineer. This information will never be used or published such that you can personally be identified.

Q1b Who do you work for / who are you representing when answering these questions? (1)

Q1d For how long have you ...

Please ✓ one box only

- **Organisation / company / group** from whose employment or involvement you will responding
- *O Your organisation's name* will be linked to the questionnaire until 30 November, to (a) ensure we don't ask you participate more than once, and (b) allow you to withdraw your responses until this date. After 30 November 2019 your name will be deleted from the recorded responses no record you took part will remain.

Tioddo F Otto Dox Offig				
	Less than 1 year	1 – 5 years	6 – 10 years	More than 10 years
a) Worked in Lincolnshire				
b) Worked for or been representative for the organisation as answered in Q1b ?				
c) Worked or been representative in the current position (or a similar position) as answered in Q1c ?				

Q2 Which of the following groups best describes who you are representing when answering these questions?

Please ✓ <u>all</u> boxes that appl	y				
National Government (other than Defra)		Regional Flood and Coast Committee	Fire and rescue	Community flood action group	
Department for Environment, Food and Rural Affairs (Defra)		Coastal Group	Media	Local community group (other than flood action)	
Environment Agency		Internal Drainage Board	Local business (1)	Conservation groups / organisation	
Scientists		Water Company	National business (1)	Church	
National Flood Forum		Utilities (other than water)	Primary Industry (1)	Households	
County Council		Infrastructure provider	Secondary industry (1)	Don't know	
District Council		Insurer	Tourism industry	Other, please specify	
Unitary Authority		Port	Estate agent		
Town Council		Planning authority	Landowner		
Borough Council		Police	Farmer		
Parish Council					

O Local business describes smaller businesses, with one or a few offices / branches / locations locally.

^{**}D National business describes larger businesses, with multiple or many offices throughout the UK, Europe and/or the world.

O Primary industries obtain and provide natural raw materials for conversion into commodities and products for the consumer (e.g. mining, agriculture, or forestry).

^{**}O Secondary industries* convert the raw materials provided by primary industry into commodities and products for the consumer (i.e. manufacturing industry).

Households have been asked about floods they experienced in the past 10 years. These questions are about <u>any floods you are aware of</u> that may have occurred in the coastal area from Boston to Skegness in the past 10 years.

		<u>10 years,</u> aı astal area fı				events that h	ad sig	nificant im	npacts on pu	ıblic and	l/or private
Please v	Yes	Go to question 4		No	Go to question 5	Don't know		Go to question 5	Prefer not to		Go to question 5
		•			· ·	d waves overtop or			•		
Further	of the imp	act, location clude the causes	ns, and dat s of flooding, a	es of each	event? (i) luding number of	ivate property residential and non national governmen	n-residen	tial buildings f			
		·	J	·		Ü					

Coastal flooding: when tidal surge, wave action or a combination of tidal surge and waves overtop or overflow the shoreline boundary.

Q5	In the pas	<u>st 10 years,</u> are y	ou aware of any	river flood e	vents that had s	significant impa	acts on public an	nd private
			n Boston to Skeg	ness? 🕦				
Please	<u>✓ one</u> box only Yes	Go to question 6	No	Go to question 7	Don't know	Go to question 7	Prefer not to say	Go to question 7
		ratercourse is a flowing land, infrastructure and	g body of water includin d homes.	g rivers, streams	and brooks. During tii	mes of heavy rainfall	watercourses' capacity	can be exceeded
Q6			nts impacting pul		ate property in t	he <u>past 10 yea</u>	<u>rs,</u> could you pro	ovide some
Further	details could	include the causes of f	and dates of each flooding, and impacts in local government, hous	cluding number o			flooded, people mental	ly or physically

^{**}O River flooding: a watercourse is a flowing body of water including rivers, streams and brooks. During times of heavy rainfall watercourses' capacity can be exceeded resulting in flooding to land, infrastructure and homes.

W/	In the pas	<u>st 10 years</u> , are yo	u aware of an	y <u>flood event</u>	<u>s other than coa</u>	<u>stal/river</u> that h	nad significant in	npacts on public
		erty in the coasta	l area from B	oston to Skeg	ness?			
Please	<u>✓ one</u> box only Yes	Go to question 8	No	Go to question 9	Don't know	Go to question 9	Prefer not to say	Go to question 9
^ 0								
Q8 provid		e flood events other etails of the nature				private property	in the <u>past 10 y</u>	<u>ears</u> , could you
Further	details could	include the causes of floo	oding, and impacts	including number	of residential and non-		flooded, people mental	ly or physically
iarmea,	, evacuated or	rescued, and costs to loo	aı government, no	usenolas, business	s, national government	t and insurers.		

Households have been asked who they think are responsible for managing coastal flood risk in the coastal area from Boston to Skegness, to compare to who organisational/institutional stakeholders such as yourself indicate to be responsible.

Q9 Who is responsible for managing coastal flood risk in the coastal area from Boston to Skegness?

Please ✓ <u>all</u> boxes that appl	У				
National Government (other than Defra)	Regional Flood and Coast Committee		Fire and rescue	Community flood action groups	
Department for Environment, Food and Rural Affairs (Defra)	Coastal Group		Media	Local community groups (other than flood action)	
Environment Agency	Internal Drainage Boards		Local businesses (1)	Conservation groups / organisations	
Scientists	Water Companies	N	ational businesses (1)	Church	
National Flood Forum	Utilities (other than water)		Primary Industry (1)	Households	
County Council	Infrastructure providers		Secondary industry (1)	Don't know	
District Council	Insurers		Tourism industry	Other, please specify	
Unitary Authority	Port		Estate agents		
Town Council	Planning authority		Landowners		
Borough Council	Police		Farmers		
Parish Council	The organisation/company that I work for/represent				

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① Secondary industries convert the raw materials provided by primary industry into commodities and products for the consumer (i.e. manufacturing industry).

Q10 to mana	What are some of the <u>key actions</u> (physical and planning) that you think your organisation should be carrying out ge coastal flooding?
	What are some of the key actions (physical and planning) that you think the Lincolnshire County Council should be yout to manage coastal flooding? If the from the coastal area from Lincolnshire County Council, please write N/A
n you are	Trom the coastal area from Lincolnshire County Council, please write N/A

vou are from the l	nvironment Agency, please write N/A
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13 What a	e some of the <u>key actions</u> (physical and planning) that you think households should be carrying out to boding?
	·· · · · · · · · · · · · · · · ·

These questions are about coastal flooding and its management in the coastal area from Boston to Skegness, especially regarding household awareness/engagement in coastal flood risk management.

Q14 In the last 10 years, are you aware of any of the following organisations having encouraged households in the coastal area from Boston to Skegness to be more aware, manage and/or prepare for coastal flooding?

Please ✓ <u>all</u> boxes that appl	ly				
National Government (other than Defra)		Regional Flood and Coast Committee	Fire and rescue	Community flood action groups	
Department for Environment, Food and Rural Affairs (Defra)		Coastal Group	Media	Local community groups (other than flood action)	
Environment Agency		Internal Drainage Boards	Local businesses (1)	Conservation groups / organisations	
Scientists		Water Companies	National businesses (1)	Church	
National Flood Forum		Utilities (other than water)	Primary Industry (1)	Households	
County Council		Infrastructure providers	Secondary industry (1)	Don't know	
District Council		Insurers	Tourism industry	Other, please specify	
Unitary Authority		Port	Estate agents		
Town Council		Planning authority	Landowners		
Borough Council		Police	Farmers		
Parish Council		The organisation/company that I work for/represent			

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O Secondary industries convert the raw materials provided by primary industry into commodities and products for the consumer (i.e. manufacturing industry).

Q15	Is there a local community group in the coastal area from Boston to Skegness who can help households prepare for
	flooding?

Please ✓ one box only

Don't know	No	Yes ••••	Please list all those you are aware of

Q16 In the past 10 years, has your organisation ever communicated with households about coastal flood risk in the coastal area from Boston to Skegness?

Please ✓ <u>all</u> boxes that apply

YES, through social media	Go to question 24	YES , through TV	Go to question 2	YES, Go to question 2	YES, don't Go to remember how question 2
YES , by email	Go to question 2	YES, on the radio	Go to question 2	YES, by telephone (text/call) Go to question 2	NO Go to question 25
YES, through newsletter(s)	Go to question 2	YES, at a local event	Go to question 2	YES, by another means Go to question 2	Don't know Go to question 25
YES, through	Go to question 2	YES, through a	Go to question 2		

Q17 Do you remember what the communications were about?

Please ✓ <u>all</u> boxes that app	oly			
Historic flood events in the coastal area from Boston to Skegness		Future levels of flood risk in the coastal area from Boston to Skegness	Planning actions households can take to prepare for flooding (1)	Information on what to do in the event of a flood
Recent flood events in the coastal area from Boston to Skegness		Effect of climate change on coastal flood risk	Structural actions households can take to prepare for flooding ①	Other
Current levels of flood risk in the coastal area from Boston to Skegness		Invitation to an event (meeting, evening, forum, etc) to prepare for flooding	Signing up to a flood alert system (e.g. Floodline)	Don't know

Planning actions include making a household emergency plan, moving to a less risky location, attending information sessions, etc.

^{**}O Structural actions** include getting a pump, placing electrical sockets above most likely flood level, installing main rooms above most likely flood level, etc.

Households have been asked about their perceptions and preparedness regarding coastal flood risk. This study compares their responses to institutional/organisational stakeholders such as yourself.

Q18	Based on	the past	10 years:
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Please ✓ <u>all boxes that apply</u>							
	Very		Somewhat	Somewhat		Very	Don't
	unlikely	Unlikely	unlikely	likely	Likely	likely	know
a) How <u>likely</u> is it that the coastal area from Boston to Skegness will be flooded by a coastal flood at least once in the next 10 years?							
b) If a coastal flood were to occur in the next 10 years, how likely do you think is that any homes will flood ?							

Q19 In general, to what extent do you agree or disagree with the following two statements?

Please ₹ <u>one box only</u>							
	Strongly agree	Agree	Somewhat agree	Somewhat disagree	Disagree	Strongly disagree	Don't know
 a) Households are able to take effective coastal flood preparedness measures for their dwelling/home 							
b) The costs of a household preparing for coastal flooding are less than the costs of doing nothing							

Q20 To what extent do you agree or disagree with the following statements about how households might feel about coastal flood risk in the coastal area from Boston to Skegness? Please V one box only

a) People in the coastal area from Boston to Skegness are aware of their coastal flood risk b) People in the coastal area from Boston to Skegness feel responsible for	gree Agree	agree	disagree	Disagree	disagree	know
b) People in the coastal area from Boston to Skegness feel responsible for						
, .						
managing their coastal flood risk	\neg					
c) People in the coastal area from Boston to Skegness know what to do if a coastal flood occurs						
d) There are public flood defences that increase the safety of households in the coastal area from Boston to Skegness in coastal flooding ①						
e) There are local strategic flood plans to increase the safety of households in the coastal area from Boston to Skegness in coastal flooding						
f) Households in the coastal area from Boston to Skegness are responsible for preventing damage to their own home from coastal flooding						
g) Households in the coastal area from Boston to Skegness are capable of avoiding the consequences of coastal flooding to their home						
h) Most households in the coastal area from Boston to Skegness will know if they are living in Flood Zone 3 ①						
i) Most households in the coastal area from Boston to Skegness are signed up to receive flood warnings by phone, email or text. ①						
j) Most households in the coastal area from Boston to Skegness receive information about coastal flooding in a wide range of formats (social media, newsletters, events, etc)						
k) Most households in the coastal area from Boston to Skegness regularly receive information about coastal flooding.						
I) Most households in the coastal area from Boston to Skegness receive information about a wide range of topics regarding preparedness for coastal flooding (historic floods, actions households can take, future levels of flood risk, etc)						

Public flood defences include shared structures such as sea walls, groynes and embankments.

Flood warnings could be a locally run system, Floodline or another organisation providing flood warnings.

^{##} Flood zone 3 - areas within flood zone 3 have been shown to be at a 1% or greater probability of flooding from rivers or 0.5% or greater probability of flooding from the sea.

Thank you for taking the time to complete this this survey.
Your responses will be analysed with those of other institutional and organisational stakeholders in the area, as well as compared to household responses to a complementary questionnaire. Please email s.vanderplank@soton.ac.uk should you wish to receive a summary of results in 2020.