

February & March 2020 flood story: River Severn Catchment - Worcestershire

July 2020
v1.2

Introduction

Over the winter of 2019/20 the River Severn catchment saw some of the highest river levels ever recorded. Significant flood events were experienced October, November, February and March. Major Incidents were called in Shropshire, Worcestershire and Herefordshire, with the Local Resilience Forums (LRFs) responding to widespread issues.

Over 70,000 properties across the West Midlands were warned of potential flooding allowing residents to take action. Unfortunately, initial indications are that approximately 1,600 properties were flooded. Environment Agency flood risk management assets prevented over 14,500 properties from flooding across the West Midlands.

This report captures the key statistics for the for the February and March 2020 flood events and the actions taken by the Environment Agency.

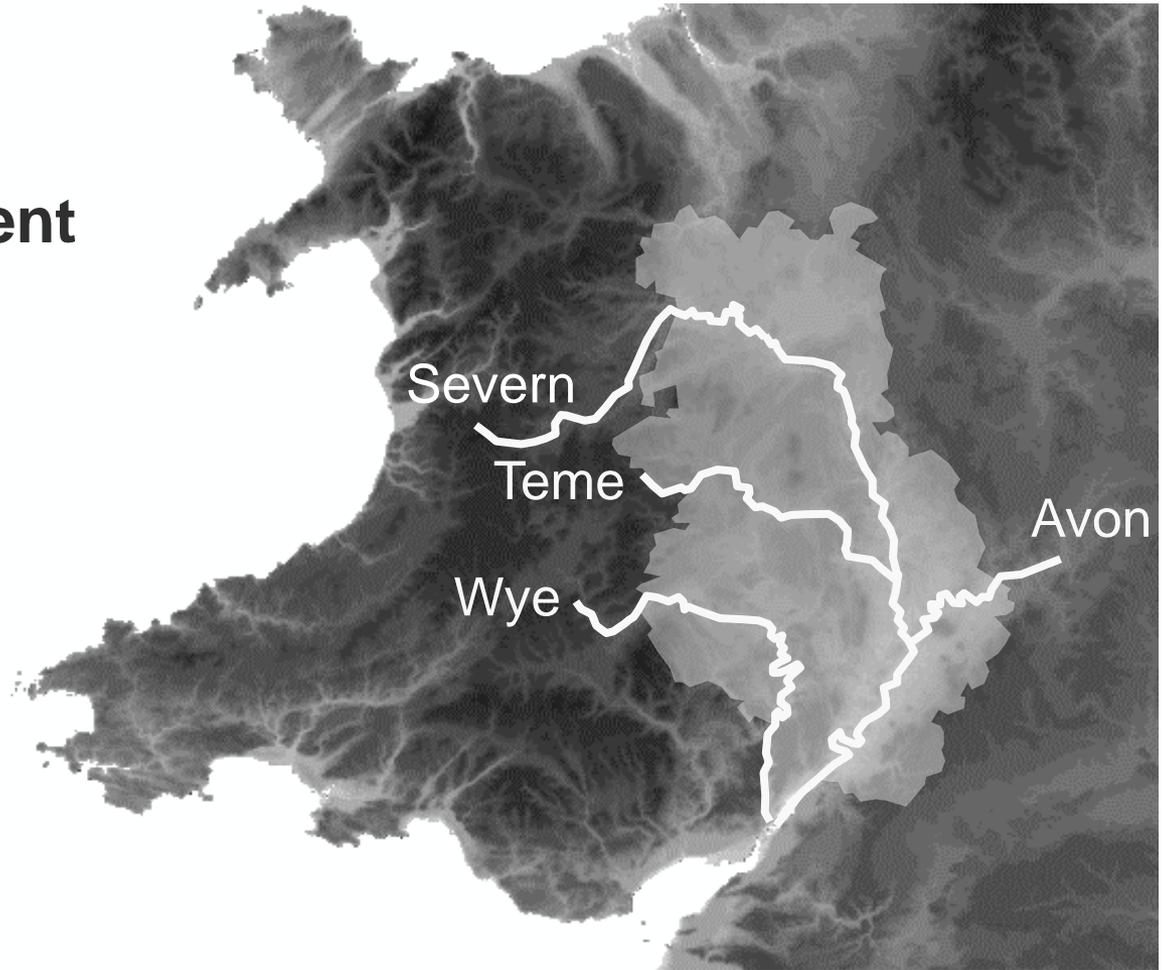
The winter storm events

February & March 2020

The Severn catchment

The largest rivers within the catchment:

- River Severn
- River Teme
- River Wye
- River Avon



8 Feb

15 Feb

22 Feb

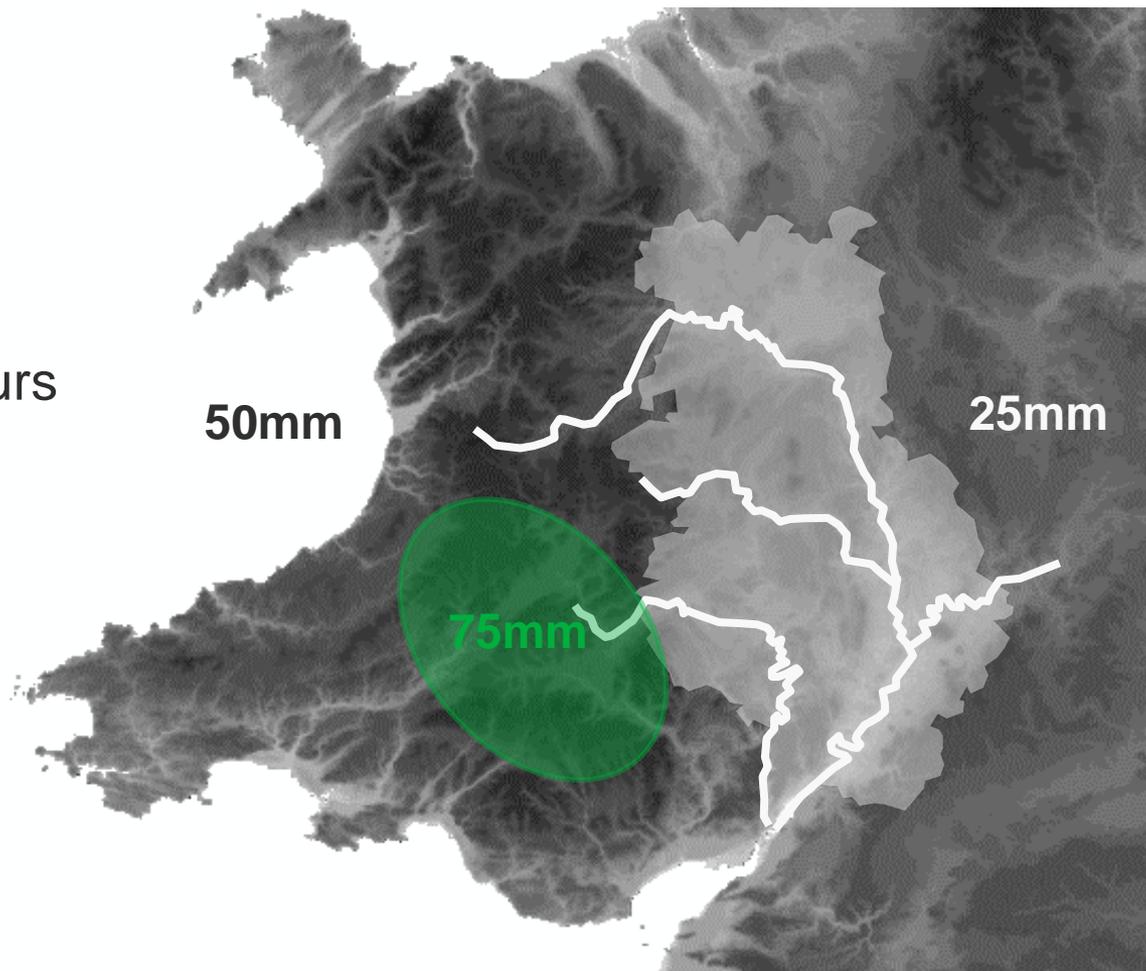
29 Feb

7 Mar

Rainfall overview

Storm Ciara

- 'Normal' winter storm
- Up to 75mm in 48 hours over south Wales



Ciara

8 Feb

15 Feb

22 Feb

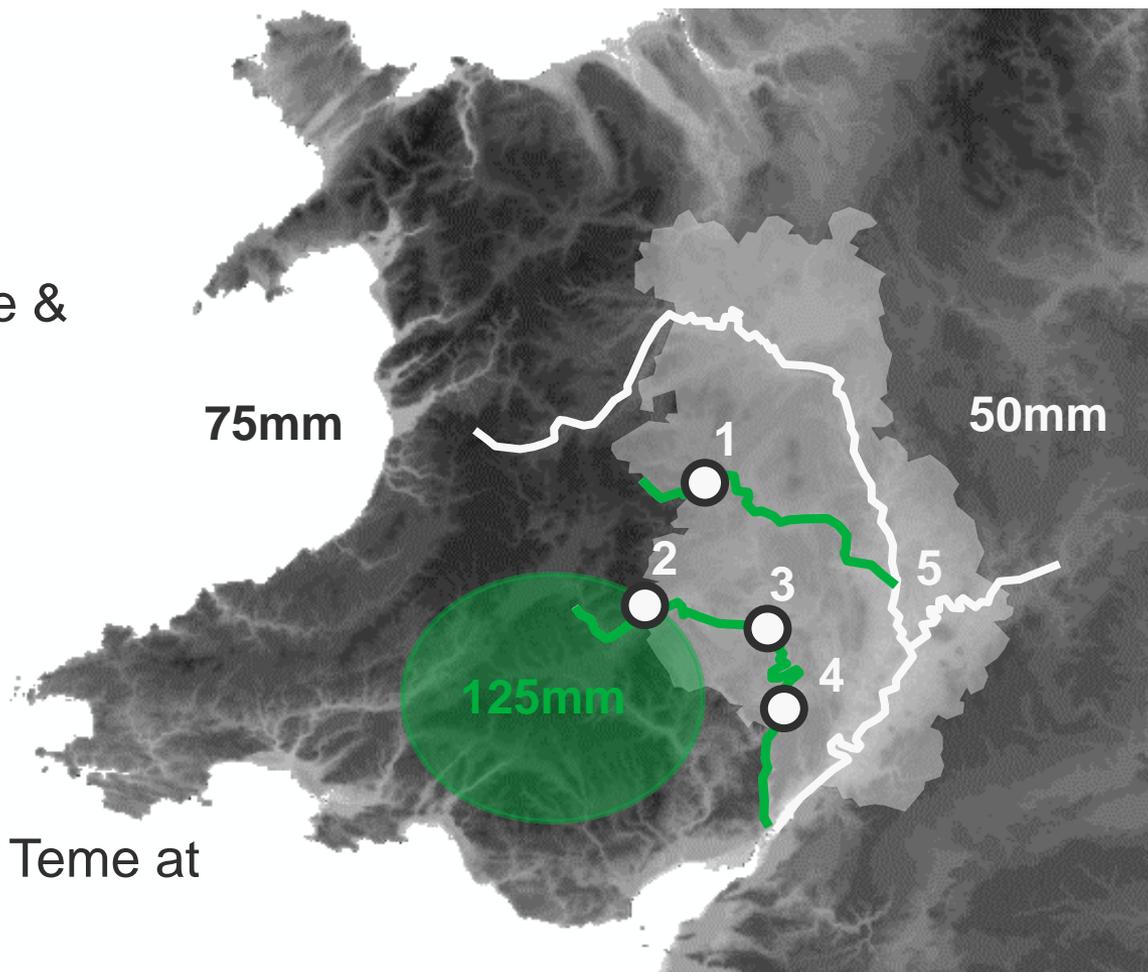
29 Feb

7 Mar

Rainfall overview

Storm Dennis

- Records on Wye, Teme & Lugg, including:
 1. Leintwardine
 2. Hay-on-Wye
 3. Hereford
 4. Ross-on-Wye
- Ciara peak on Severn meets Dennis peak on Teme at Powick (5)



Ciara

Dennis

8 Feb

15 Feb

22 Feb

29 Feb

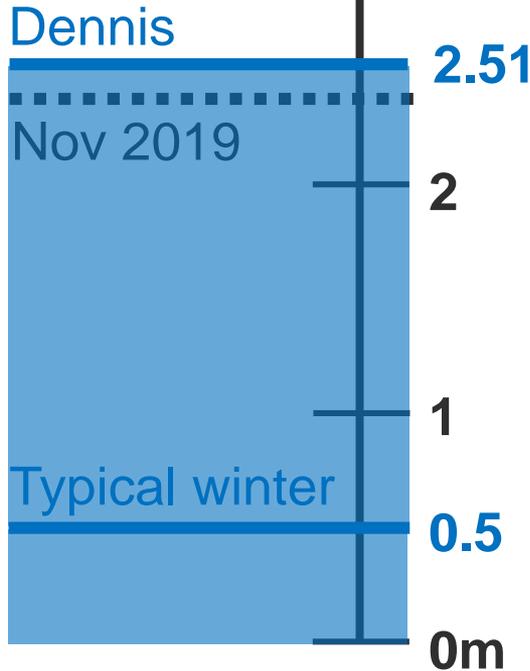
7 Mar

Rainfall overview

River Teme Leintwardine

gauge since 1998

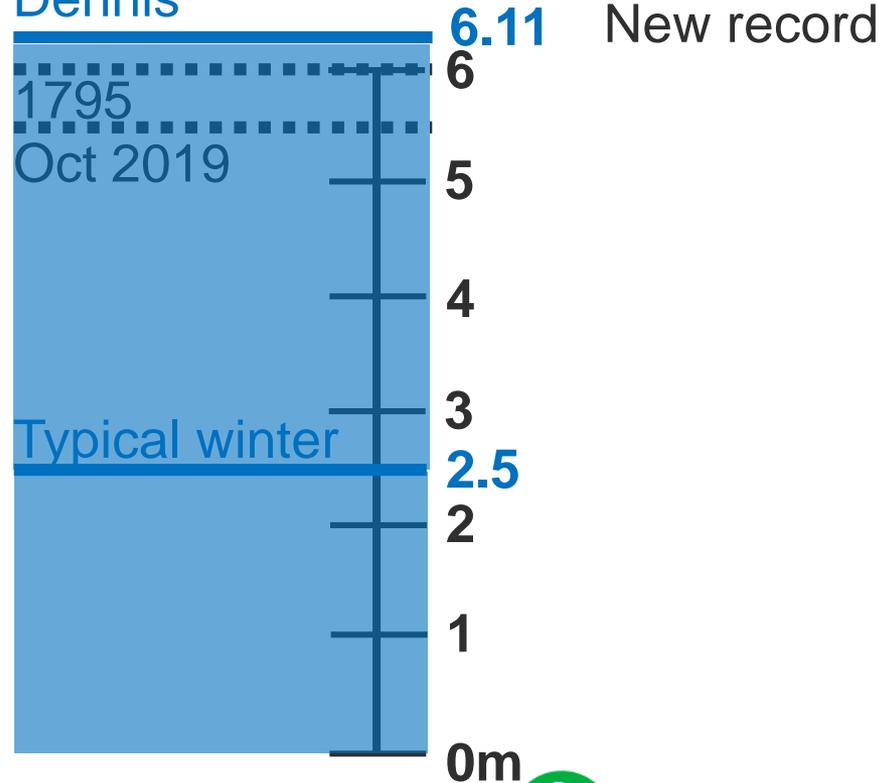
New record



River Wye Hereford

gauge since 1988,
records since late
1700's

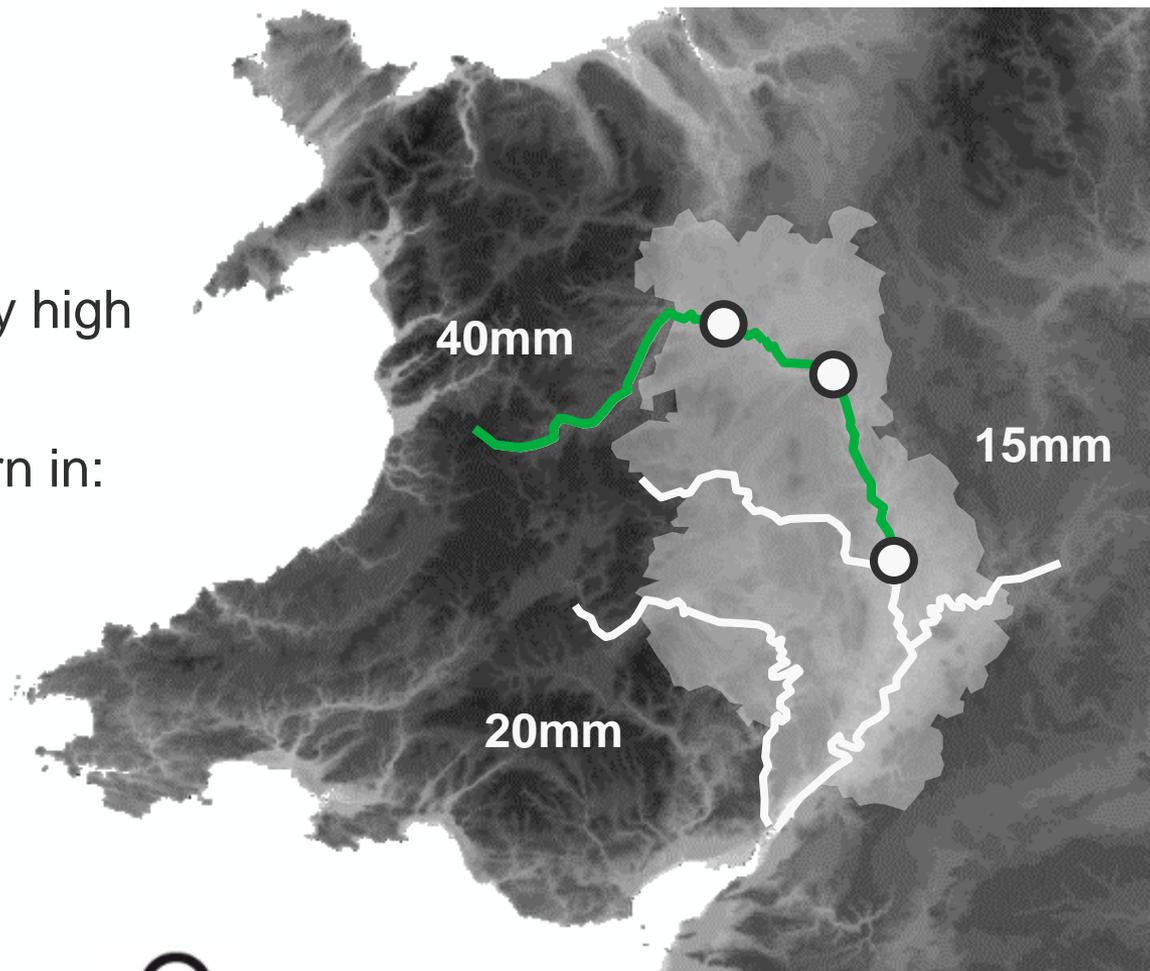
Dennis



Rainfall overview

22-23 February rain

- Rain topped up already high river levels
- Near-records on Severn in:
 - Montford
 - Ironbridge



Ciara
8 Feb

Dennis
15 Feb



22 Feb

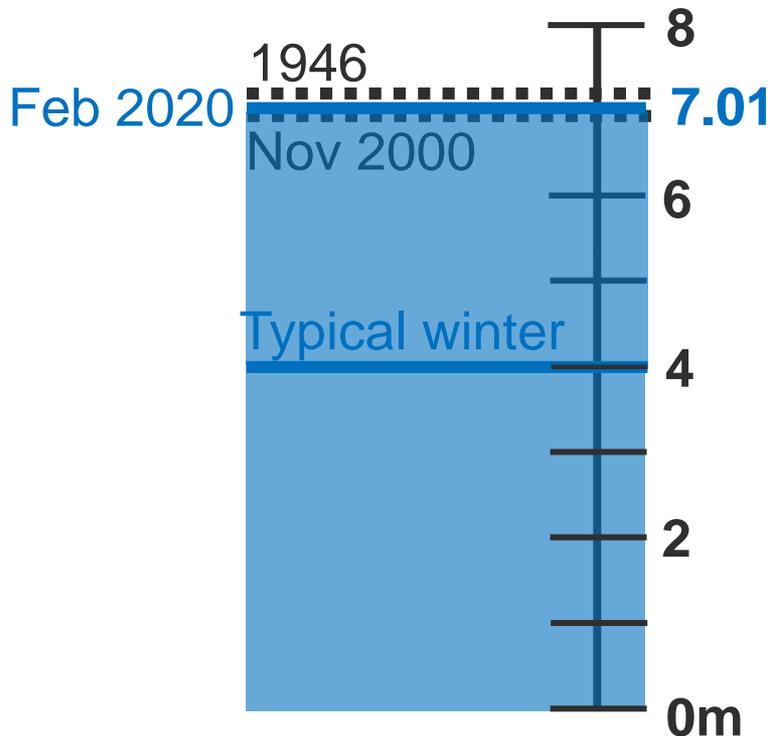
29 Feb

7 Mar

Rainfall overview

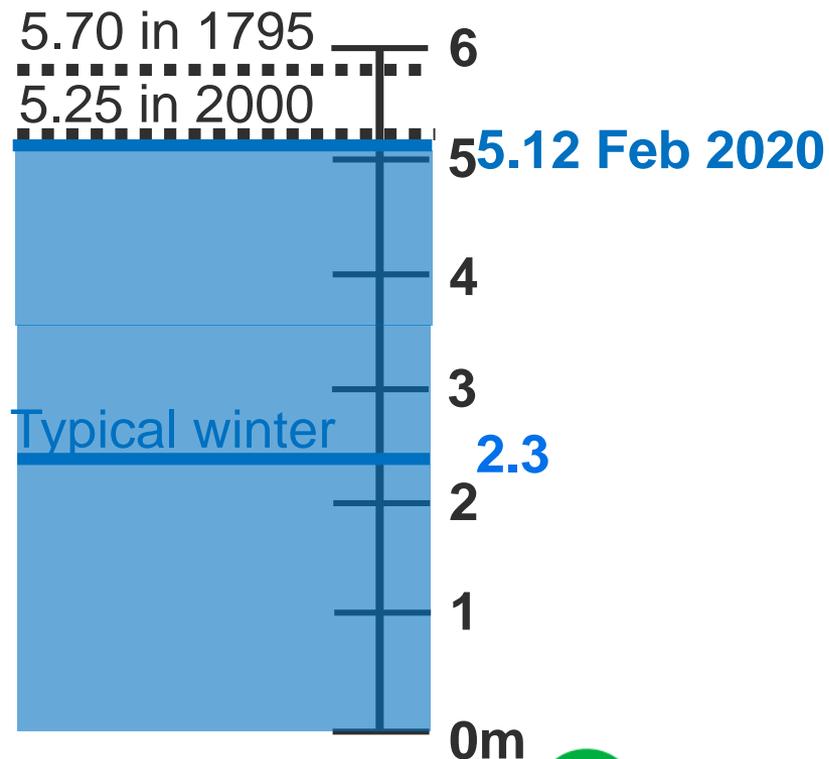
River Severn Montford

gauge since 1958



Welshbridge Gauge

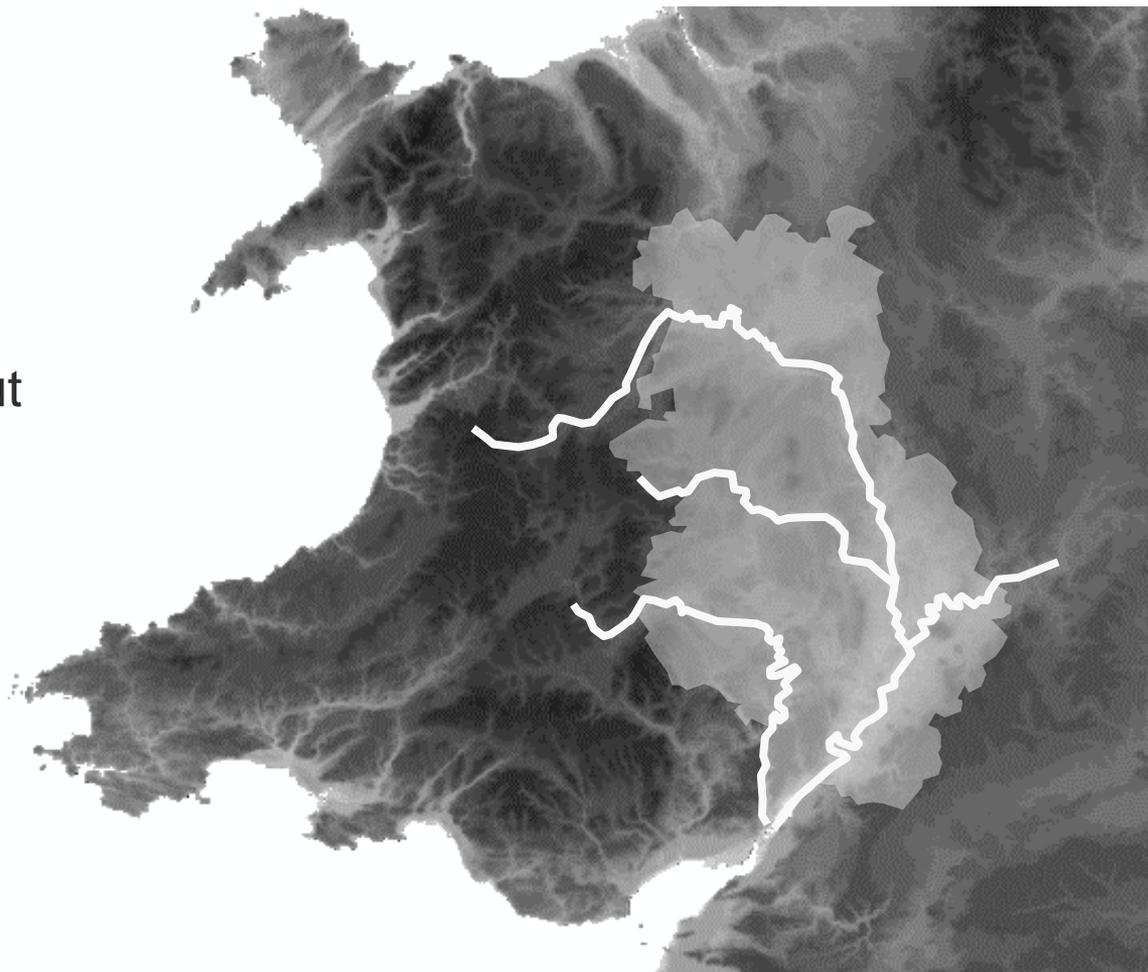
gauge since 1985



Rainfall overview

Storm Jorge

Peaks smaller than storm
Dennis and 22-23 Feb, but
levels remain high



Ciara
8 Feb

Dennis
15 Feb



22 Feb

Jorge

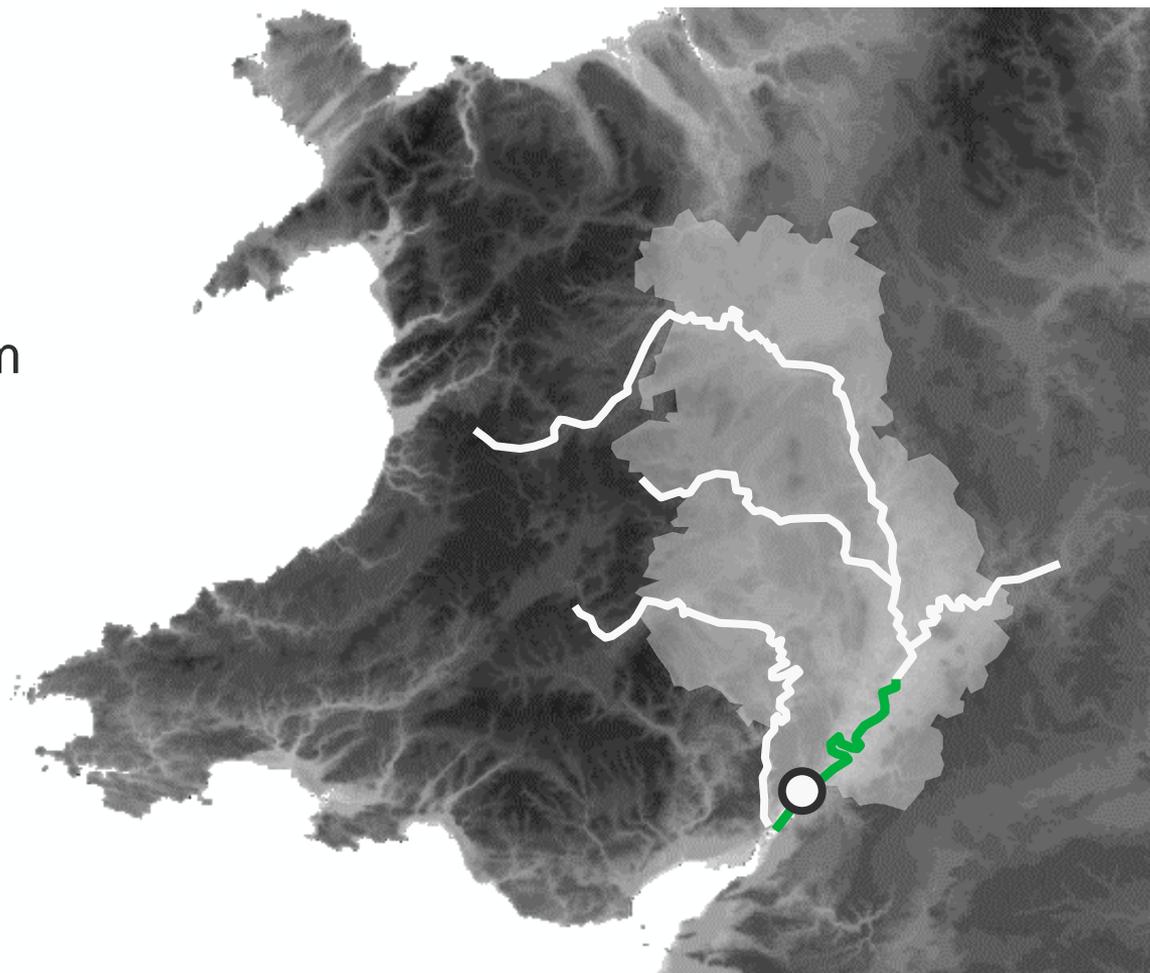
29 Feb

7 Mar

Rainfall overview

Record tides

Beat previous highest at
Sharpness (1936) by 0.2m



Ciara
8 Feb

Dennis
15 Feb



22 Feb

Jorge
29 Feb

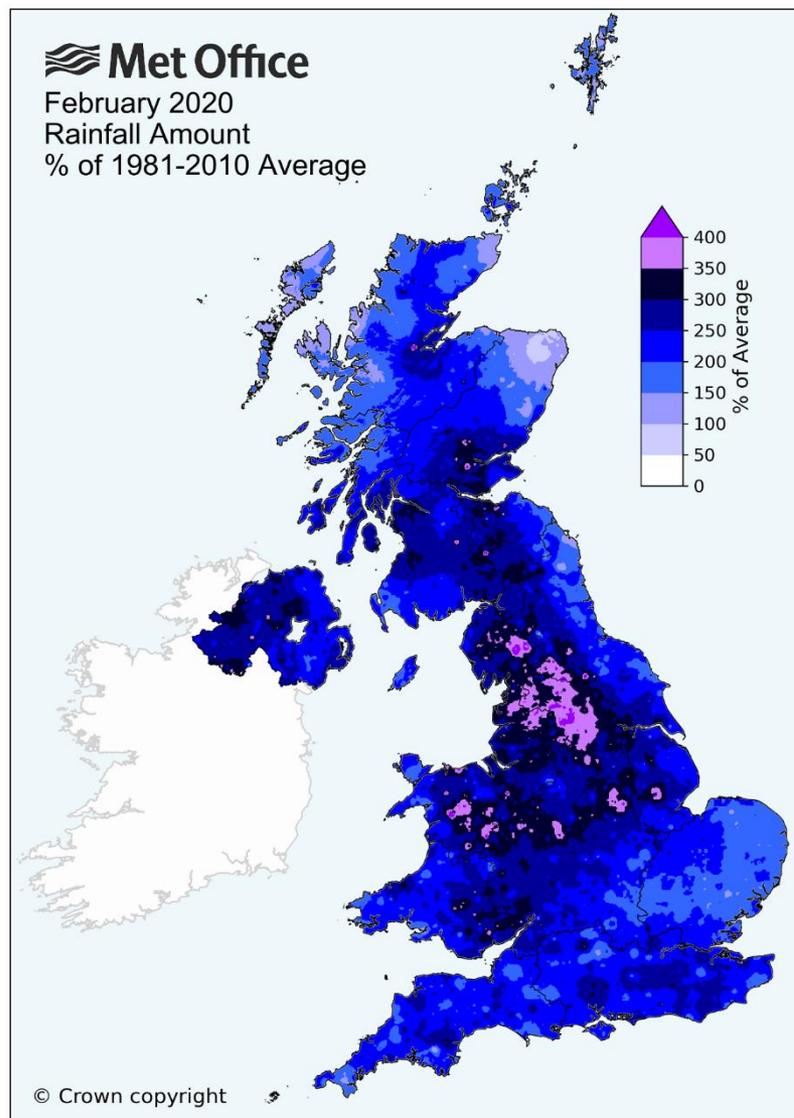
7 Mar

Tides

Rainfall overview

February 2020

- Wettest June to October on record for the Severn catchment, with widespread flooding autumn 2019
- Warm, wet winter
- Multiple rainfall events
- Wettest February since records began
- Prolonged high river levels
- Records on Wye, Lugg, Teme & Severn (*but gauge records generally no more than 40 years old*).



Summary of the EA response

February and March 2020 – West Midlands wide

February - March 2020 Floods: West Midlands Area

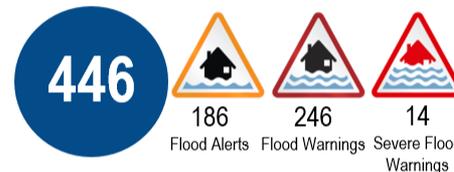
February 2020 was the wettest February on record for England with double the average monthly rainfall. It was also the fifth wettest of any calendar month since 1862 and some areas experienced a month's worth of rain in 24 hours. In England 154.9 mm rainfall fell, 258% of the average rainfall for the month. Some places received over four times the average monthly rainfall.



properties flooded in West Mids during Feb – March floods



properties protected



alerts and warnings issued, including a record 158 FW and 10 SFW in force at one time



properties warned through the Flood Warning Service



EA & DEFRA staff involved in incident response across West Midlands



mutual aid staff travelled from across the country to help



consecutive days our area incident rooms were open, mostly 24/7, from 10 Feb to 13 March 2020



multi-agency command groups across West Midlands, the majority in Shrops, Heref, Worcs and Glos

Worcestershire

Flood risk in Worcestershire

There is a long history of flooding in Worcestershire on the River Severn, River Teme and the small watercourses around the county.

The largest flood in the last 100 years was recorded in 1947 where snow melt was met with heavy rainfall.

In July 2007 prolonged heavy rain over much of the county resulted in widespread flooding from various sources including watercourses, groundwater, surface water and sewers.

The flood events during February 2020 primarily impacted the largest rivers however there was still flooding on the smaller water courses and widespread surface water issues.

The following section provides an overview of the individual communities impacted.



Worcestershire Flood Warnings

The following numbers of flood warnings were issued across Worcestershire during the winter of 2019/20:

Number of Severe Flood Warnings Issued - WMD West (SHWG) (Monthly)						
County	October 2019	November 2019	December 2019	January 2020	February 2020	March 2020
Worcestershire	0	0	0	0	5	0

Number of Flood Warnings Issued - WMD West (SHWG) (Monthly)						
County	October 2019	November 2019	December 2019	January 2020	February 2020	March 2020
Worcestershire	29	34	14	2	61	2

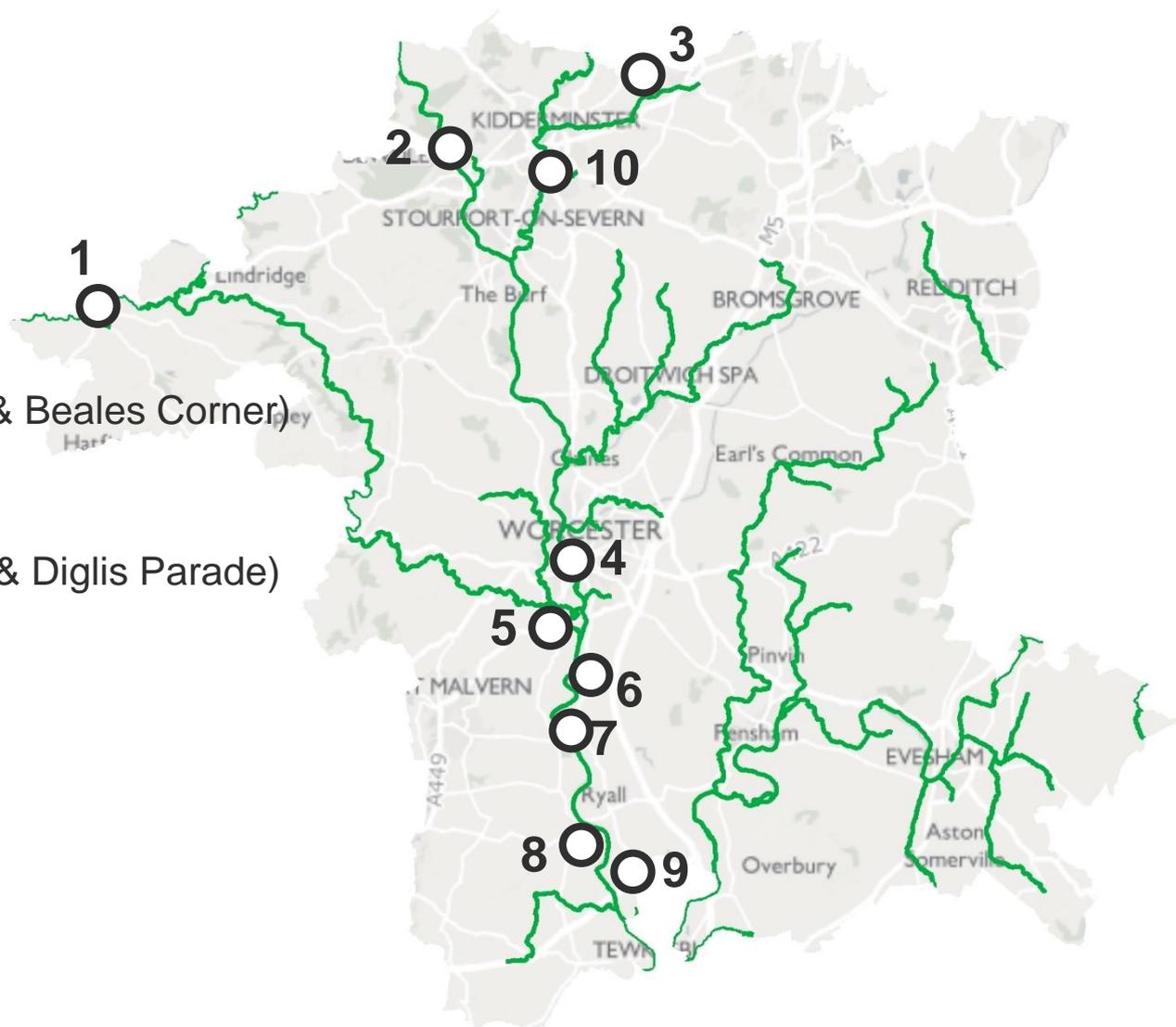
Number of Flood Alerts Issued - WMD West (SHWG) (Monthly)						
County:	October 2019	November 2019	December 2019	January 2020	February 2020	March 2020
Worcestershire	26	34	33	16	41	3

Incident response – Worcestershire

Main river 

Most impacted communities:

1. Tenbury Wells
2. Bewdley (Severnside & Beales Corner)
3. Blakedown Pool
4. Worcester (Hylton Rd & Diglis Parade)
5. Powick
6. Kempsey
7. Severnstoke
8. Upton on Severn
9. Uckinghall
10. Stourport & Kidderminster



Community: Tenbury Wells

Flooding mechanism: high river levels on the River Teme and the Kyre Brook resulted in flooding within the town. Water initially entered the town from the Kyre Brook before flooding from the River Teme.

The EA was part of the West Mercia LRF response that organised a mass scale evacuation of properties at risk along with overnight accommodation for those impacted.

Numbers impacted: over 125 properties (residential and businesses) were reported to have been impacted by flooding.

Flood warnings issued: Flood Warning issued 15 February followed by a Severe Flood Warning later on the 15 February 2020.

Peak river level: Tenbury gauge on the River Teme: 5.89m ASD 16 February 2020. Levels were similar to those experienced in 2007 – 5.97m ASD.

Kyre Brook gauge: 3.51m ASD 15 February 2020. This is the highest level recorded since the gauge was installed in 2009.

EA assets: currently there are no built EA assets in the town.

EA operation of assets: N/A.

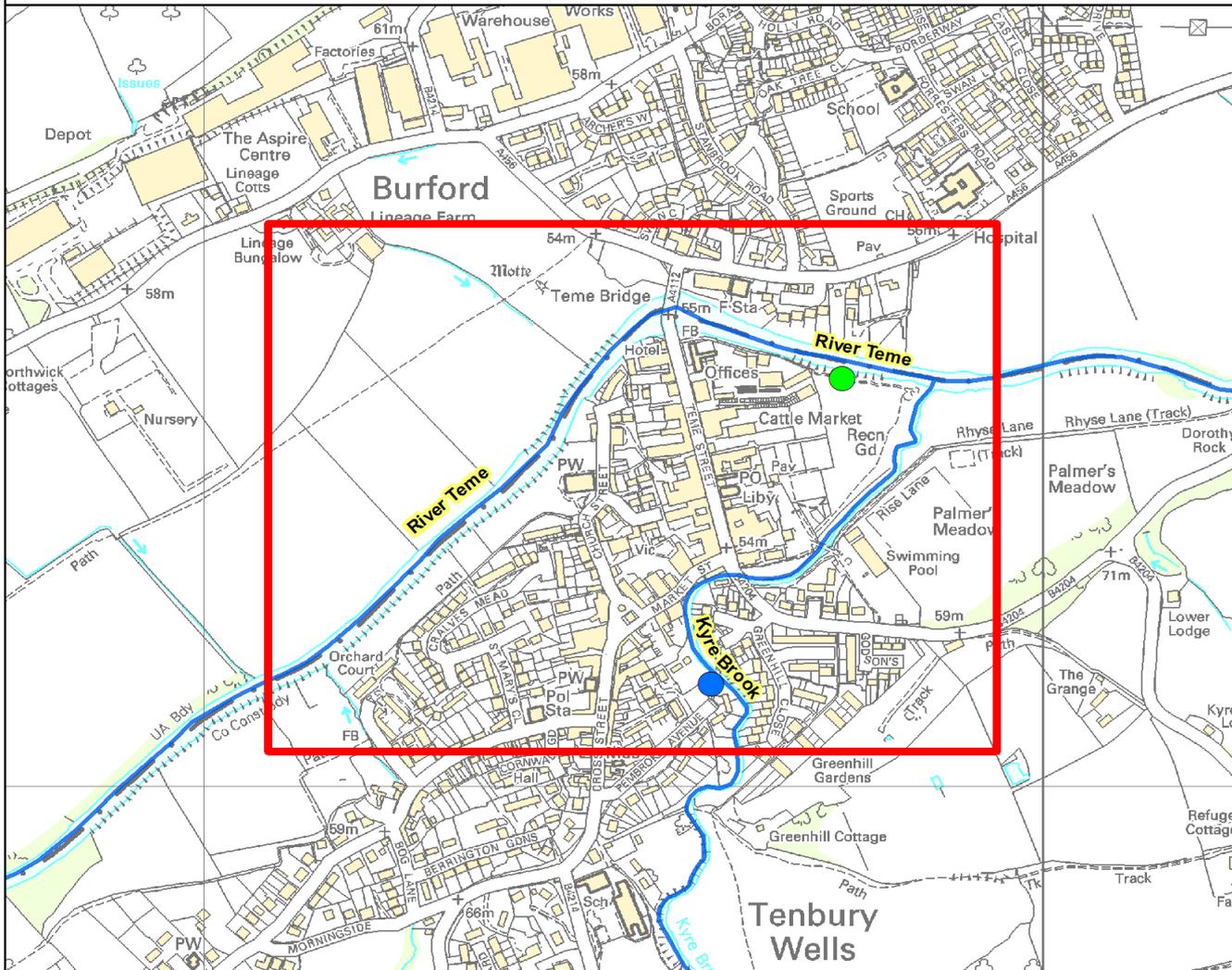
Community engagement: CIOs (Community Information Officers) attended the town during the peak of the event and over the following days to support residents.

Post flood work: a project is underway looking to deliver a scheme to reduce flood risk at Tenbury Wells. Funding was confirmed for the scheme July 2020.

Feasibility of a scheme was previously assessed in 2004 and 2009, but without a strong justification for GiA funding scheme.

It is the ambition of the EA to run a community engagement event late September 2020.

Tenbury Wells - FAS



Legend

-  Main Rivers
-  Study Area
-  Tenbury Gauging Station
Active since Dec. 1969
-  Kyre Brook Gauging Station
Active since 2009

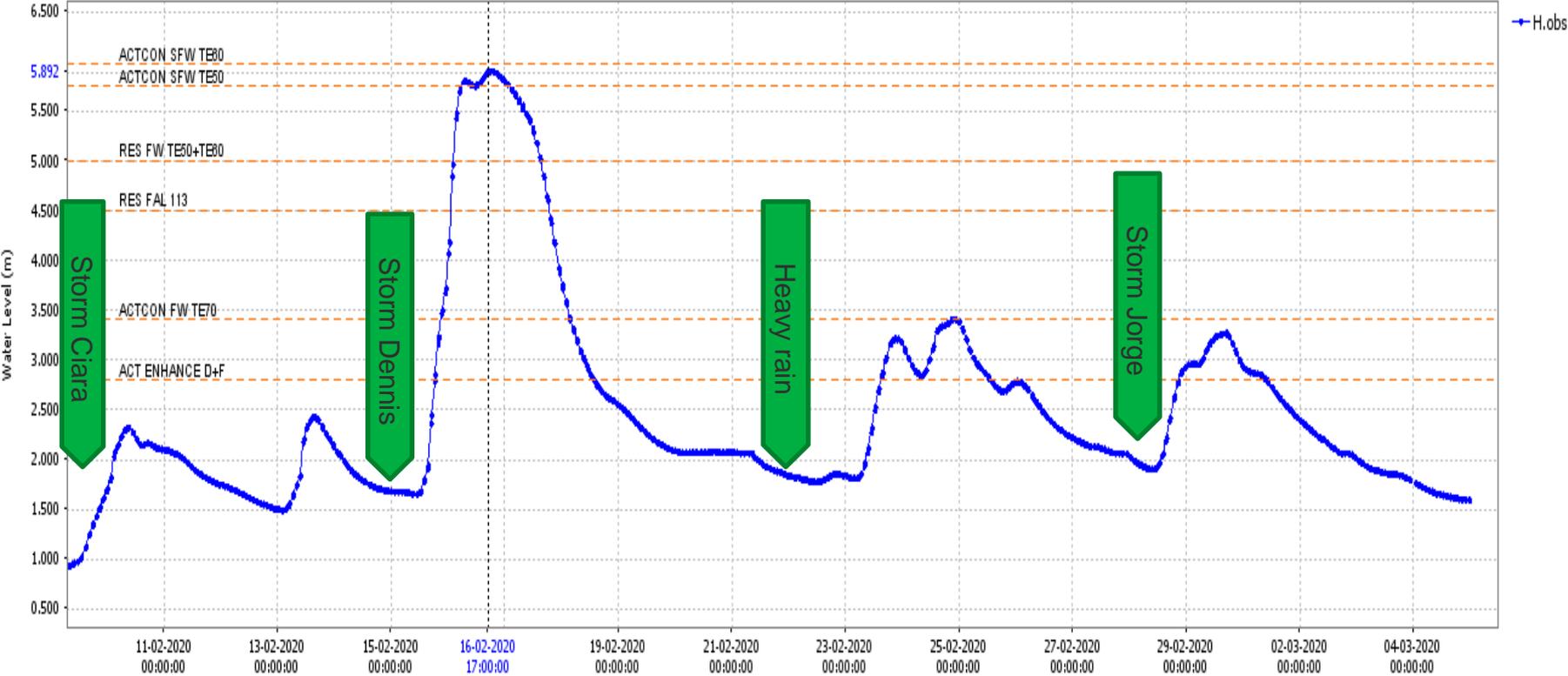
Scale 1:7,000



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Environment Agency, 100026380, 2020



Tenbury



River Teme levels at the Tenbury Wells gauge, February 2020 (m ASD)

Incident response – Worcestershire



Tenbury Wells

- Similar levels to 2007 (not a record)
- More than 126 properties flooded here and more along River Teme

Community: Severnside, Bewdley

Flooding mechanism: high river levels on the River Severn resulted in the flooding of low lying land and properties.

An exceptional increase in level on the River Severn was experienced on the 15 March 2020 as heavy rainfall fell on the local catchment.

Numbers impacted: 12 properties were reported to have been impacted by flooding.

Flood warnings issued: Flood Warning issued 16 February when the Phase 1 Severnside north barriers were exceeded by the extreme increase in level.

Peak river level: 5.48m ASD on the 26 February 2020. This is the highest level recorded since the Severnside scheme was completed.

The highest recorded level on record is the 1947 level which reached 5.82m ASD. The November 2000 flood levels reached 5.56m ASD.

EA assets: combination of demountable barrier and flood walls for approximately 200 properties.

Dog Lane pumping station reduces the risk of surface water flooding.

Severn Trent Water have the Lax Lane pumping station to also help manage surface water.

EA operation of assets: all phases of the Severnside barriers were deployed during February 2020.

- Phase 1 was deployed 12 February 2020.
- Phase 2 was deployed early morning on the 16 February 2020 following an un-forecast rise in river levels in the early hours that resulted in several properties flooding at Severnside North.
- Phase 3 was deployed over the 16 and 17 February 2020.

The barriers were finally taken down early March 2020.

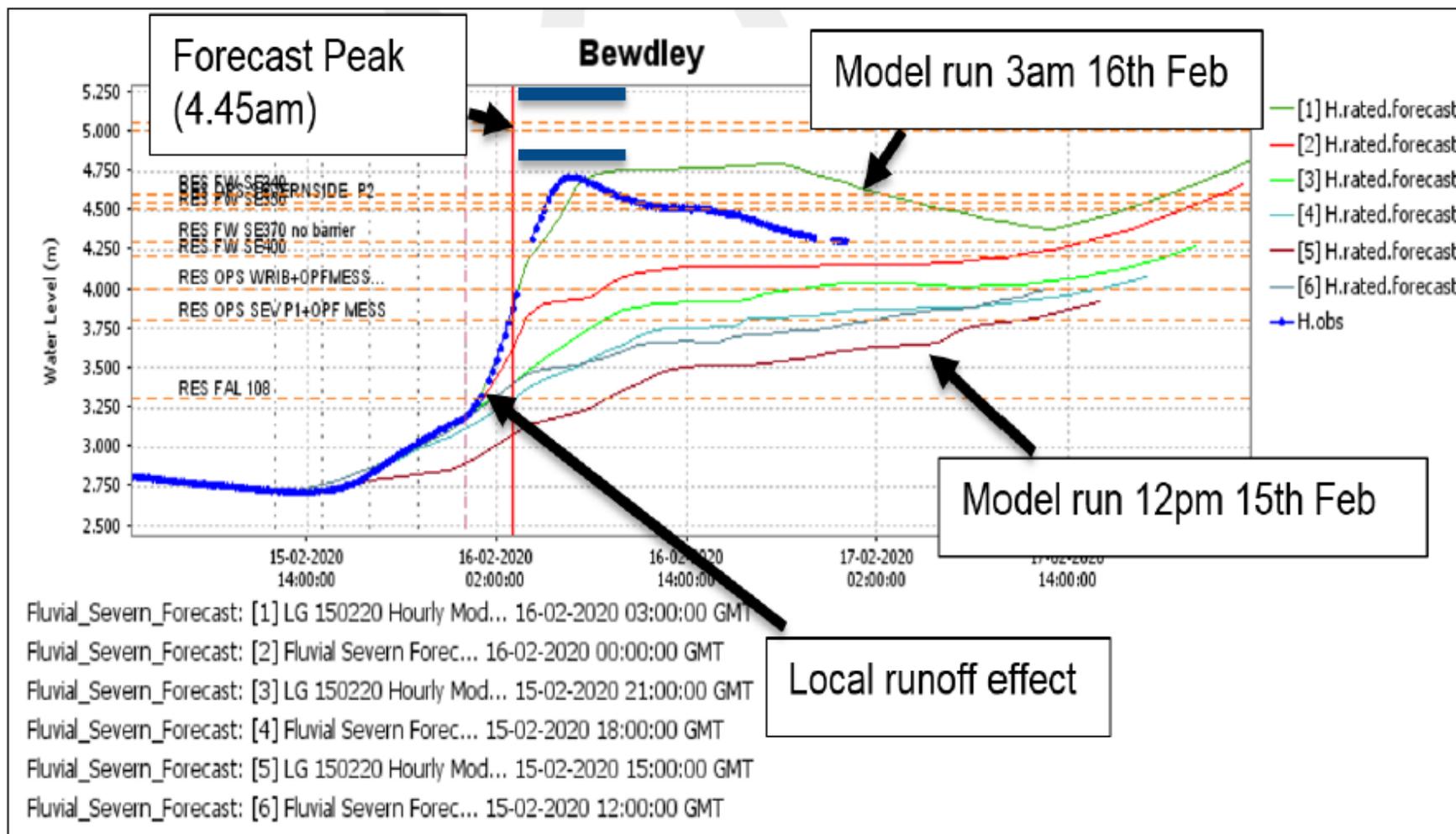
Community engagement: CIOs attended Bewdley during the March events.

Boris Johnson attended Bewdley to meet residents 8 March 2020.

Post flood work: a lessons learnt review has been undertaken, looking at how the barriers are deployed and what can be improved for the future.

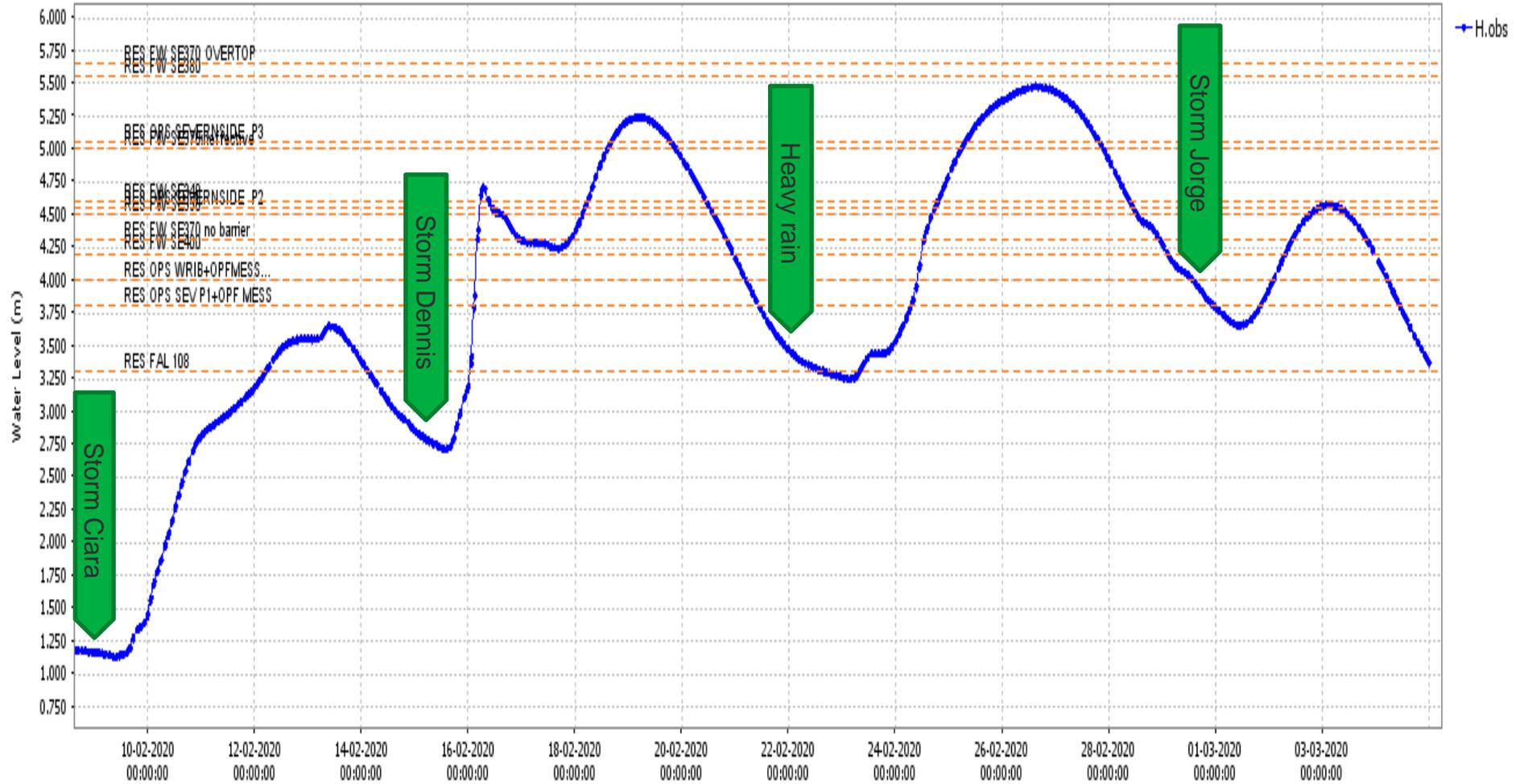
The demountable barriers have been cleaned and serviced following the flooding, stored ready for the next deployment.

Following the flooding the flood walls FCRM assets were inspected. Defects were identified which are currently being repaired. Work is scheduled to be complete by September 2020.



Changes in forecast levels over the evening of the 15/16 February 2020

Bewdley



Bewdley gauge levels on the River Severn (m ASD)

Incident response – Worcestershire



Beale's
Corner

Severnside

Bewdley

- Highest level since schemes implemented (2000 and 2006)

Incident response – Worcestershire



Severnside phase 3 deployed

25 February 2020

Community: Beales Corner, Bewdley

Flooding mechanism: prolonged high river levels on the River Severn resulted in flooding of low lying land and properties.

The very high peak levels resulted in the overtopping of the Beales Corner temporary flood barrier.

Numbers impacted: 40 properties were reported to have been impacted by flooding.

Flood warnings issued: Flood Warning issued 16 February for when it was not possible to deploy the Temporary Barrier.

Flood Warning issued 25 February 2020 in advance of the Temporary Barriers being overtopped.

Peak river level: 5.48m ASD on the 26 February 2020. This is the highest level recorded since the Severnside scheme was completed.

The highest recorded level on record is the 1947 level which reached 5.82m ASD. The November 2000 flood levels reached 5.56m ASD.

EA assets: a temporary barrier is deployed by the EA along the river front at Beales Corner. Severn Trent Water deploy mobile pumps to manage the local drainage.

Most properties at Beales Corner have Flood Resilience Measures (PFR) following an EA lead scheme.

EA operation of assets:

It was not possible to fully deploy Beales Corner on the 16 February, however a best endeavours effort was made to deploy a section of the barrier and to sandbag properties.

Beales Corner was fully deployed on the 17 February once levels allowed, ready for the following peak levels.

The temporary barrier provides a level of protection to 5.0m ASD. Work by the teams on the ground managed to increase the level of protection from 5.0m ASD to 5.3m ASD by preventing water from out-flanking the barrier. On the 25 February 2020 levels exceeded this increased level of 5.3m ASD and the barrier was overtopped.

As levels receded the EA used large pumps to pump the area behind the defence dry. The barriers were inspected and minor repairs undertaken where required, ready for Storm Jorge.

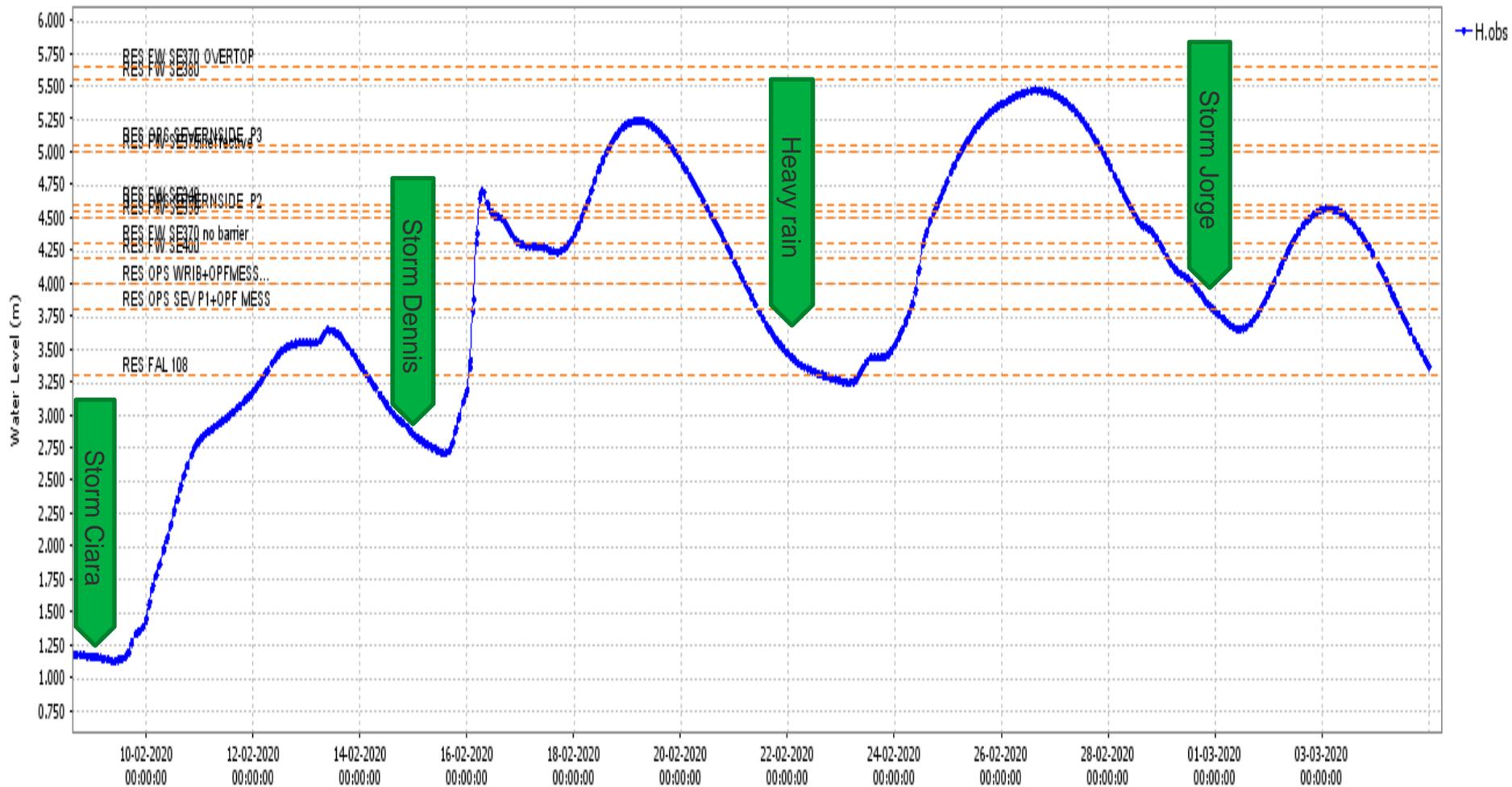
Community engagement: CIOs attended Bewdley most days to talk to residents and to collect data.

Boris Johnson attended Bewdley to meet residents 8 March 2020, visiting both Severnside and Beales Corner.

Post flood work: a project is underway looking at what can be done to reduce flood risk for Beales Corner. The Strategic Business Case is being produced for review and approval September 2020.

Work is underway with residents to review the performance of the PFR measures.

Bewdley



Bewdley gauge levels on the River Severn (m ASD)

Incident response – Worcestershire



Beale's Corner, Bewdley

25 February 2020, 14:15



25 February 2020, 17:15

Incident response – Worcestershire



Beale's Corner, Bewdley

Overtopping 25 February 2020

Community: Blakedown Pool

A member of public reported the risk of a potential breach at the Blakedown Pool. The Blakedown Pool is a non statutory reservoir.

The EA managed the response with the same approach as for a higher risk reservoir. A Panel Engineer attended site and advised on the mitigation measures.

The EA worked with their contractor, Jackson Civil Engineering, to reduce the height of the retaining structure and thereby reduce the risk of flooding to the nearby community.

Incident response – Worcestershire



Blakedown Pool

Private reservoir on Blakedown Brook near Bromsgrove

Incident response – Worcestershire

Blakedown
Pool

- Report of historic sluice structure in poor condition after Storm Dennis
- More rain forecast

Incident response – Worcestershire

- EA worked with supplier Jackson Civil Engineering
- We pumped the reservoir down to a safe level
- We modified the sluice to reduce risk



“On behalf of the reservoir safety team in national FCRM, I would like to commend the professional, rapid and appropriate response of your staff to this incident... We appreciate how busy you must be with Storm Dennis. Thank you for prioritising this response.”

– Roger Lewis, Reservoir Safety



Before

After

Community: Hylton Road, Worcester

Flooding mechanism: high levels on the River Severn resulted in the flooding of low lying land and the A44.

The River Severn road bridge was closed to all traffic at the peak of the event.

Numbers impacted: 0 properties were reported to have been impacted by flooding.

(11 properties have been reported as flooded on the east bank near the race course)

Flood warnings issued: No Flood Warnings issued for Hylton Road.

Peak river level: Worcester gauge: 5.79m ASD on the 27 February 2020.

This is the highest recorded level since the gauge was installed in 2005. This gauge reached 5.63m ASD in July 2007 and 5.74m ASD February 2014.

EA assets: a combination of flood banks and flood walls along the river bank combined with a length of demountable flood barrier across the A44 prevents 20 properties from flooding.

EA operation of assets: the EA demountable barrier across Hylton Road was deployed twice during February 2020. Firstly on the 16 February and again on the 25 February 2020.

Severn Trent Water deployed pumps to over pump surface water and sewage collecting behind the defence during February 2020. Large volumes of surface water is frequently a challenge to manage. The EA supported by providing additional pumps to help pump surface water at peak flows.

Community engagement: EA staff attended site to both inspect the EA assets and to talk to local residents.

Post flood work: work has been undertaken to check the assets for any damage and to undertake repairs where required – a repair to a section of erosion caused by the over pumping and minor superficial wall repairs.

The demountable barriers have since been cleaned and serviced, and are now stored ready for the next deployment.

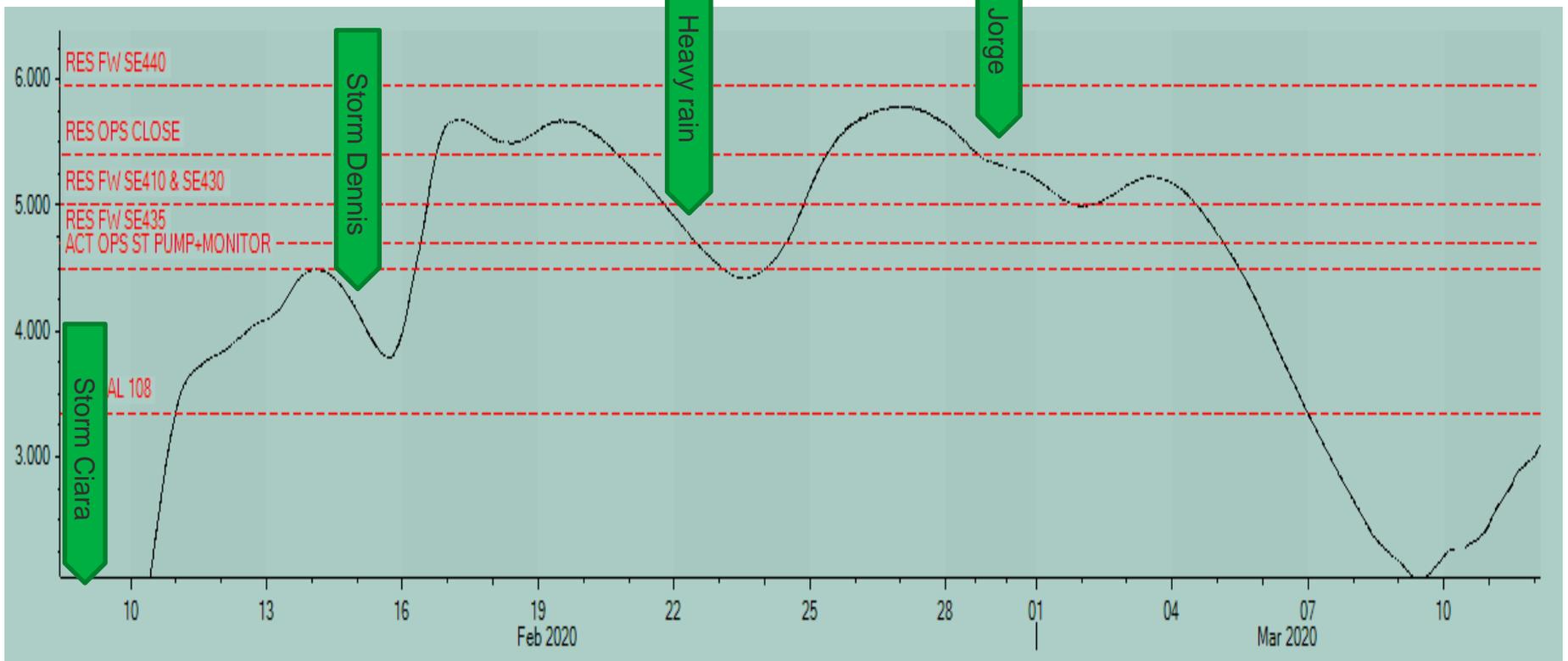
Severn Trent Water are investigating long term options to manage surface water at Hylton Road.

Incident response – Worcestershire

Worcester

- Highest recorded level (50cm from top of barriers)
- EA deployed demountable barriers, gates and pumps on Hylton Rd
- Severn Trent water pumps deployed
- 20 properties benefitting from defences





Worcester gauge levels on the River Severn, February 2020 (m ASD)

Community: Diglis Parade, Worcester

Flooding mechanism: high river levels on the River Severn caused property flooding in the Diglis area of Worcester.

Numbers impacted: 30 properties were reported to have been impacted by flooding.

Flood warnings issued: Flood Warning issued for South Worcester on the 16 February 2020.

Peak river level: Worcester gauge: 5.79m ASD on the 27 February 2020. This is the highest recorded level since the gauge was installed in 2005. This gauge reached 5.63m ASD in July 2007 and 5.74m ASD February 2014.

Diglis gauge: 5.28m ASD on the 17 February 2020, and again reached 5.1m ASD on the 26 February 2020.

The highest recorded level at the Diglis gauge is 5.58m ASD in 1947. Levels reached 5.3m ASD during July 2007.

Reference 1998 XXXXXXXXXXXXXXXX

EA assets: the EA has no built assets on the River Severn other than at Hylton Road.

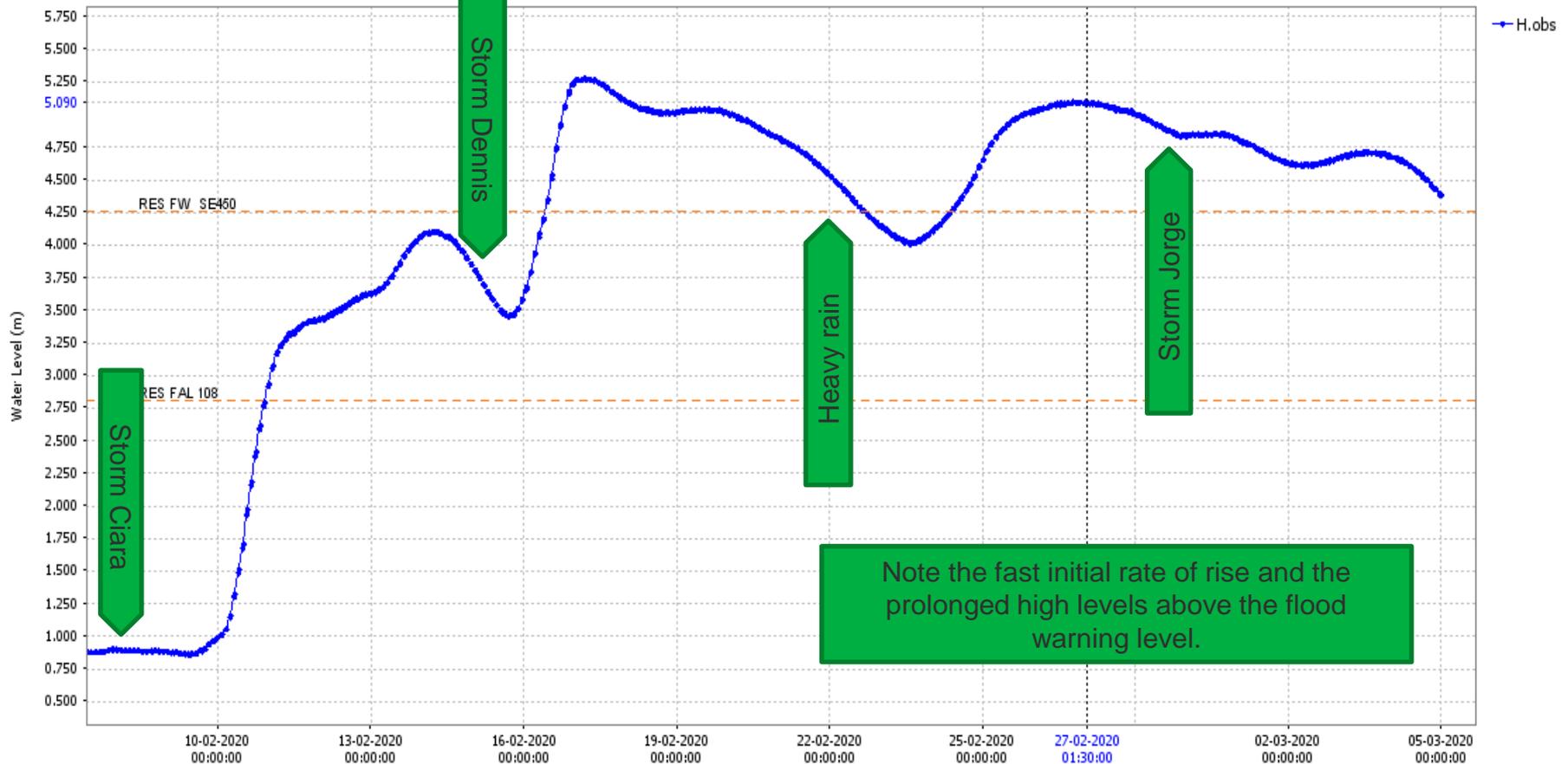
Note: properties at Diglis Parade previously had a project to raise floor levels to reduce flood risk. This was undertaken during the 1990's.

EA operation of assets: N/A

Community engagement: following the flooding there has been engagement between the residents and the EA looking at longer term options.

Post flood work: further community engagement is being planned for when Covid-19 restrictions allow. Property Level Resilience is being considered for the properties but may not be suitable for all properties in the area. A permanent scheme is unlikely for the area.

Diglis (DODO and ISIS) - Use In-bank Hydrodynamic {4.0m} Hydrodynamic



River Severn levels at the Diglis gauge, Worcester, February 2020 (m ASD)

Community: Powick

Flooding mechanism: Peak of Storm Ciara on the Severn met with the peak of Storm Dennis on Teme at Powick.

The scheme was overtopped as the River Teme peak arrived on the 16 February 2020. Approximately 20 properties were flooded.

At this peak the A449 flooded, closing the main road between Worcester and Malvern.

Numbers impacted: 20 properties were reported to have been impacted by flooding.

Flood warnings issued: Flood Warning issued on the 16 February 2020.

Peak river level: Bransford Bridge gauge: 5.9m ASD on the 16 February 2020.

This is below the July 2007 peak level of 6.08m ASD.

EA assets: following the July 2007 floods the EA delivered a raised earth flood bank to reduce flood risk from the River Severn and the River Teme.

EA operation of assets: the scheme built following the July 2007 floods was overtopped as the River Teme exceeded the defence level at 5.7m ASD on the 16 February 2020. Approximately 20 properties were flooded.

As levels on the River Teme receded, additional EA mobile pumps and the existing pumps were used to evacuate water from behind defence over 4 days.

The scheme prevented further property flooding during the following storms.

The EA deployed pumps to manage surface water behind the defence. These pumps are monitored by EA officers.

Community engagement: EA officers attended Powick to talk to resident and to record data.

Post flood work: an initial assessment is underway looking at what can be done to reduce flood risk for the area. This IA is expected in the autumn.

The IA will also undertake a high level review of the highway flood risk. It is likely that any scheme improvement would only be possible as part of a collaborative project with Worcestershire County Council to also raise the road.

Incident response – Worcestershire



Powick

- Separate peaks on Teme (Dennis) and Severn (Ciara) met at Powick
- Levels not as high as in 2007

Incident response – Worcestershire

Powick

- Scheme overtopped for first time, but worked as expected
- 20 properties flooded

Photo: @SevernRivers

Incident response – Worcestershire



Peak level
behind defence

Powick

- EA pumps drew down levels behind defences over 4 days

Community: Kempsey

Flooding mechanism: high river levels on the River Severn flooded low lying land and properties outside the defended area.

Numbers impacted: 3 properties were reported to have been impacted by flooding – these properties are located outside of the defended area.

Flood warnings issued: Flood Warning issued for the 17 properties outside the defended area on the 12 February 2020.

Peak river level: Kempsey Yacht Club gauge: 7.47m ASD on the 17 February 2020.

This equalled the July 2007 peak level of 7.46m ASD.

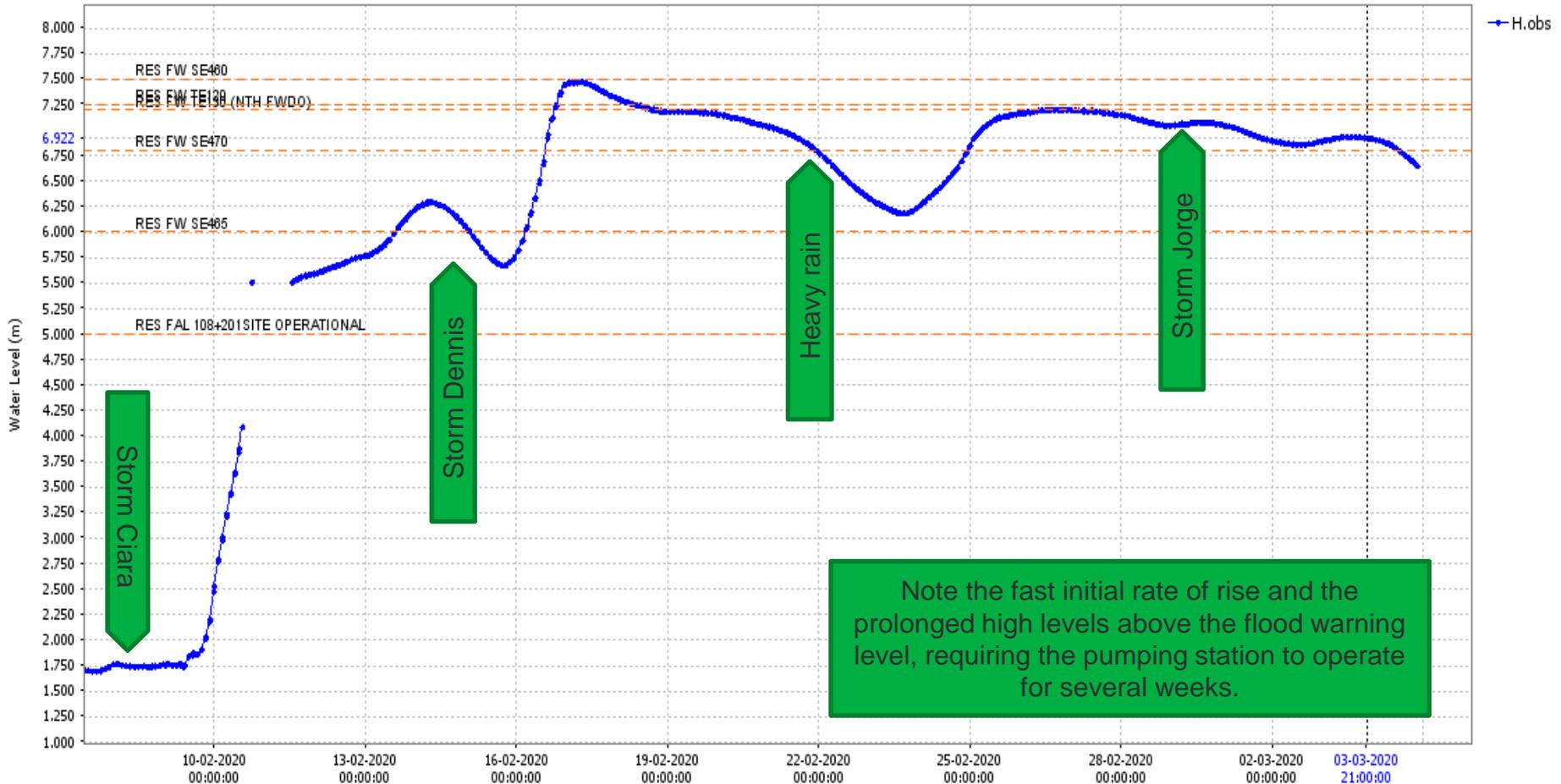
EA assets: following the July 2007 floods the EA delivered a raised earth flood bank and pumping station to reduce flood risk from the River Severn and the Hatfield Brook for 45 properties.

EA operation of assets: the scheme operated as designed with no issues. The scheme was constantly monitored remotely using the site telemetry.

Community engagement: engineers attended the site to check the operation of the assets and spoke to residents while also collecting flood data.

Post flood work: following the flooding, the assets have been inspected and minor repairs undertaken as required.

Kempsey Yacht Club (ISIS) - Use In-bank Hydrodynamic {6.0m} Hydrodynamic



River Severn levels at the Kempsey Yacht Club gauge, February 2020 (m ASD)

Community: Severn Stoke

Flooding mechanism: high river levels on the River Severn flooded low lying land and properties.

When the flood bank directly adjacent to the river overtopped the land behind took several days to fill with river water before property flooding finally occurred.

Numbers impacted: ~10 properties were reported to have been impacted by flooding.

Flood warnings issued: Flood Warning issued for the 22 properties at Severn Stoke on the 16 February 2020.

Peak river level: Kempsey Yacht Club gauge: 7.47m ASD on the 17 February 2020.

This equalled the July 2007 peak level of 7.46m ASD.

It is worth noting that Severn Stoke is located approximately half way between the Kempsey Yacht Club gauge and the Saxon's Lode gauge. Residents have reported that levels within the village were approximately 300mm lower than 2007. This aligns with the Saxons Lode gauge which was approximately 500mm lower than the 2007 levels.

EA assets: adjacent to the river there are flood banks that run between Worcester and Tewkesbury to reduce flood risk. These flood banks have a relatively low level and are primarily to reduce flood risk to agricultural land.

EA operation of assets: the EA provided sandbags for the community to help allow residents to prepare their properties for flooding.

Community engagement: CIOs attended site during the event.

Post flood work: a community scheme is currently being progressed with the planning application submitted spring 2020.

Following the flooding, the riverside flood banks were inspected for damage. Several small areas are to have minor damage repaired summer 2020 to reinstate the flood bank level.

Community: Upton upon Severn

Flooding mechanism: very high river levels were experienced at Upton upon Severn for a duration of four weeks.

Levels experienced were the highest recorded since the current scheme along the waterfront and at New Street was built in 2012.

Peak levels forecast in response to Storm Dennis suggested that the New Street and Waterfront defences could be overtopped, however levels did not overtop the defences.

The high river levels resulted in the East Waterside scheme being overtopped and approximately 6 properties flooding.

Numbers impacted: 6 properties were reported to have been impacted by flooding at East Waterside.

No properties were reported to have flooded in the main town.

A further 6 properties have been reported as flooded in the local area.

Flood warnings issued: Severe Flood Warning issued 17 February 2020 due to forecast levels suggesting that the scheme could be exceeded. Fortunately levels did not reach the maximum forecast level and the scheme was not overtopped.

Peak river level: Saxons Lode gauge: 5.49m ASD on the 17 February 2020. This is the largest flood event since the

scheme was completed in 2012.

Levels reached 5.92m AOD in 2007 and 6.06m ASD in 1947.

EA assets: at East Waterside there is a flood bank that reduces flood risk to approximately 6 properties on the left bank. Most properties also have private PFR measures.

Within the main town there is a flood wall with flood gates along the riverside, reducing flood risk to ~40 properties.

There is a further flood bank to the west of the village, with a large highway flood gate at New Street, reducing flood risk to a further ~40 properties.

EA operation of assets: the EA managed the flood gates at waterfront and New Street, with all needing to be closed.

The EA managed surface water using mobile pumps.

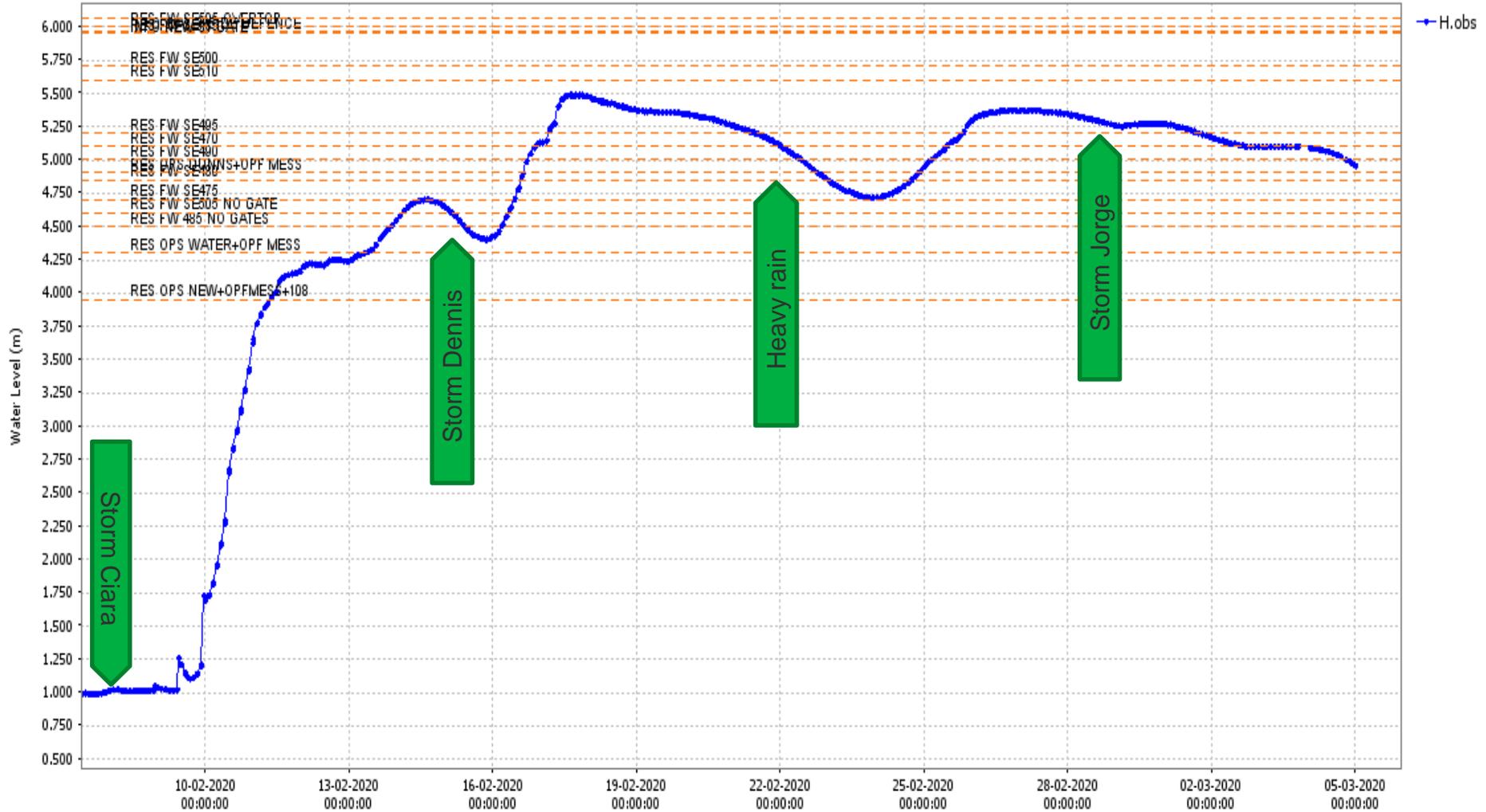
Severn Trent Water managed sewage and surface water using mobile pumps setup adjacent to The Swan public house.

The EA enacted a contingency plan at New Street flood gate when there was risk of the levels overtopping the flood gate.

Community engagement: the EA had officers at the Bronze Cell set-up in Upton upon Severn to help manage the potential evacuation of properties.

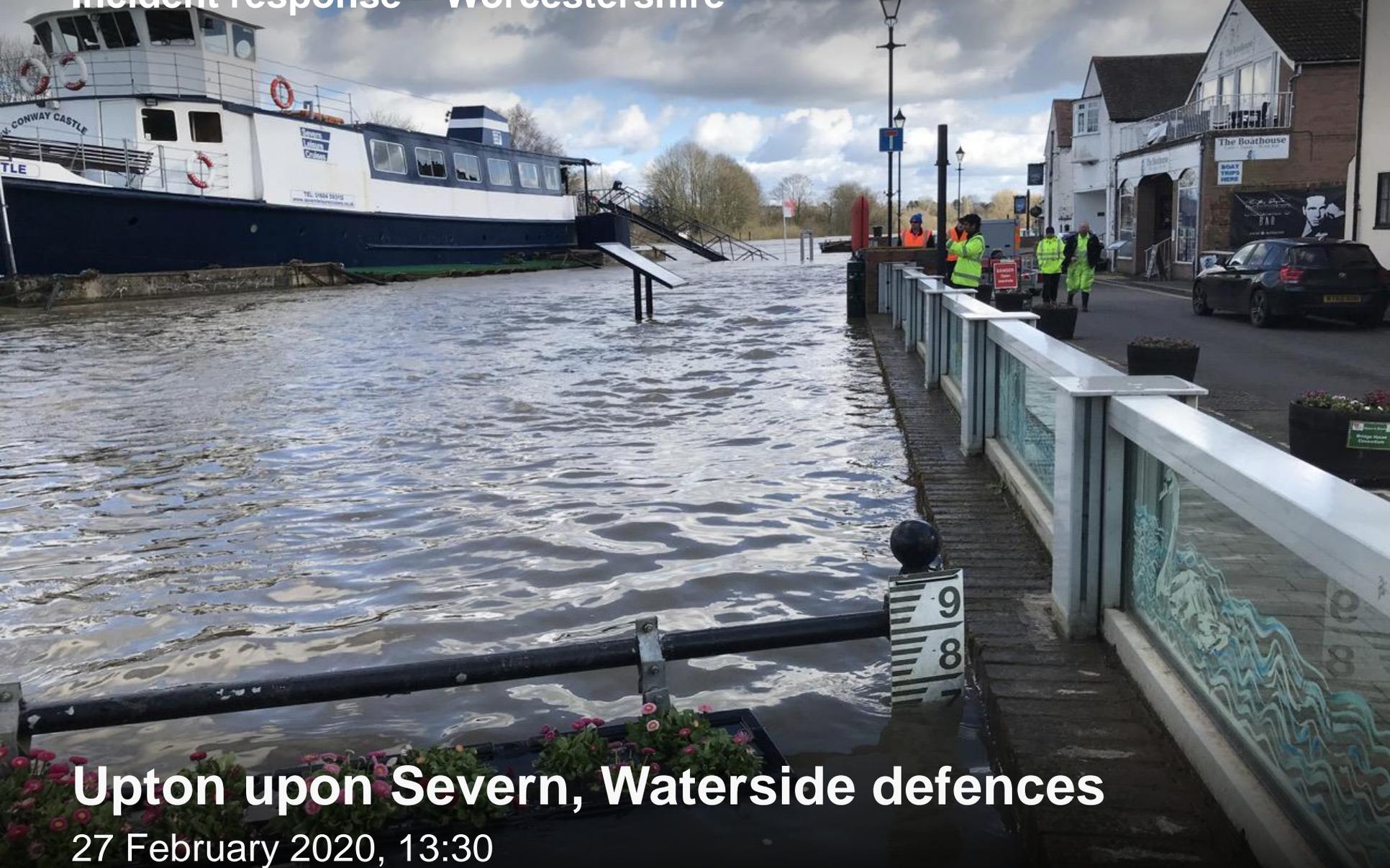
Post flood work: following the flooding, all assets have been inspected and minor repair work undertaken. As part of this work the flood gate seals are being replaced summer 2020.

Saxons Lode (DODO and ISIS) - Use In-bank Hydrodynamic {4.6m} Hydrodynamic



River Severn levels at the Saxons Lode gauge, February 2020 (m ASD)

Incident response – Worcestershire



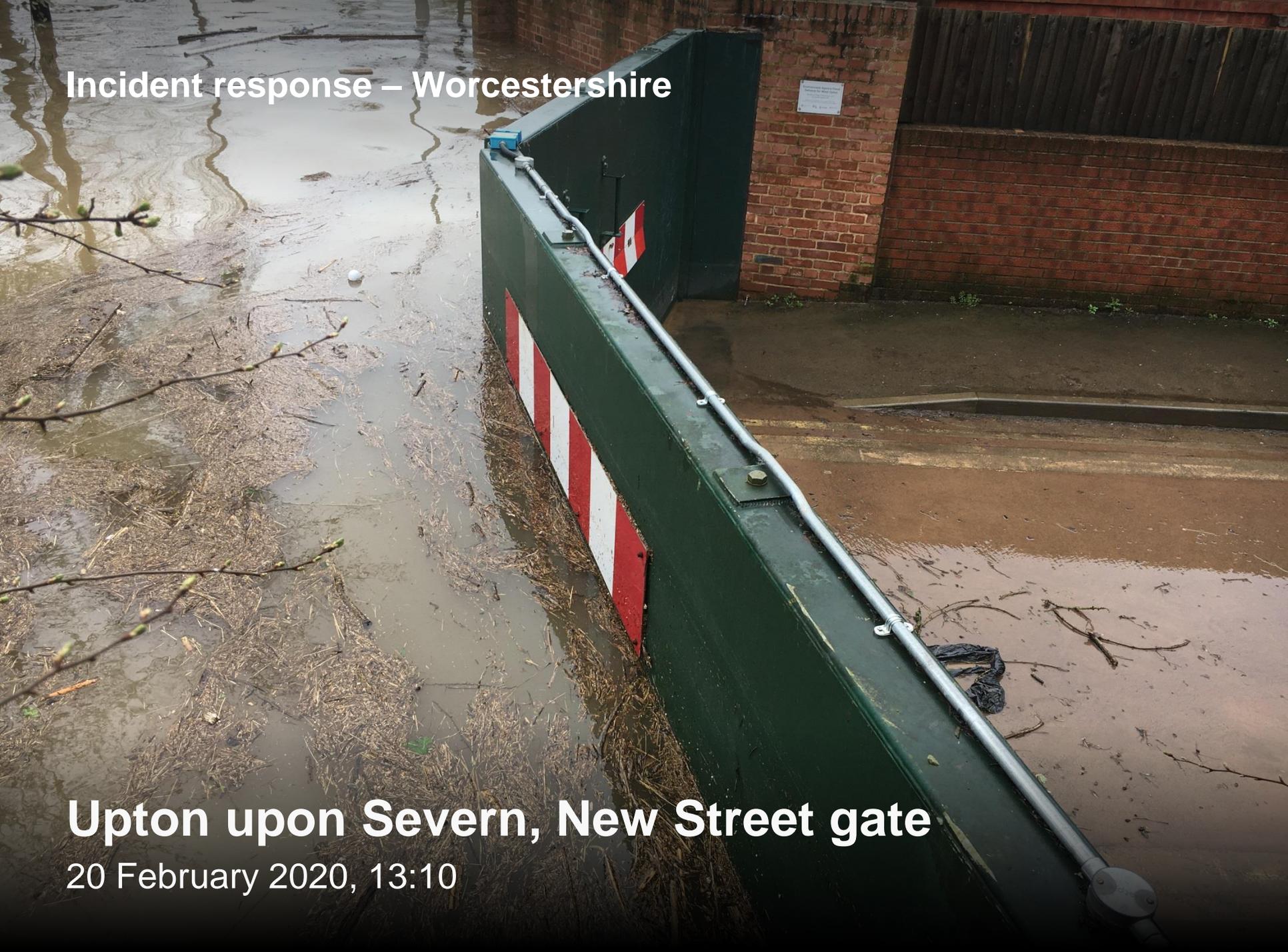
Upton upon Severn, Waterside defences

27 February 2020, 13:30

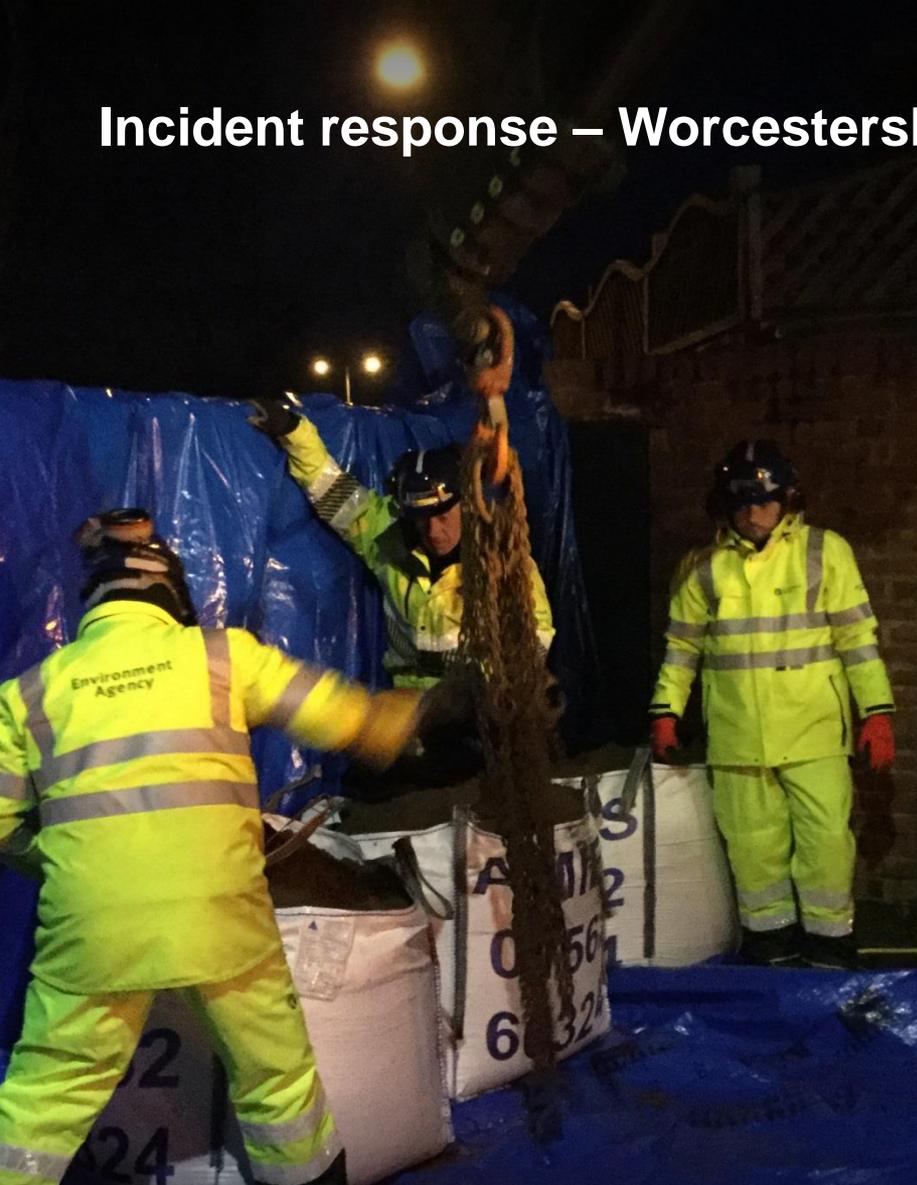
Incident response – Worcestershire

Upton upon Severn, New Street gate

20 February 2020, 13:10



Incident response – Worcestershire



New Street gate contingency work

26 February 2020

Community: Uckinghall

Flooding mechanism: high levels on the River Severn resulted in the flood bank directly adjacent to the river to be overtopped.

The farm land behind this defence filled, resulting in water against the community defence at the Uckinghall village.

Numbers impacted: 1 properties were reported to have been impacted by flooding that is situated adjacent to the river by the fishing pond.

Flood warnings issued: Severe Flood Warning issued on the 17 February 2020.

Peak river level: Saxons Lode gauge: 5.49m ASD on the 17 February 2020. This is the largest flood event since the scheme was completed in 2011.

Levels reached 5.92m ASD in 2007 and 6.06m ASD in 1947.

EA assets: a flood bank, flood gate and pumping station to manage surface water reduce flood risk to 35 properties within the village. This scheme was built following the July 2007 floods.

EA operation of assets: the flood gate was closed by the Uckinghall Flood Action Group (UFAG).

Mobile pumps operated by the EA adjacent to the flood gate managed surface water behind the defence.

Community engagement: CIOs and engineers attended the site during the event to talk to residents and to inspect the assets.

Post flood work: following the flooding, all assets have been inspected and minor repair work undertaken.

Incident response – Worcestershire



Uckinghall

27 February 2020, 15:30

Community: Kidderminster & Stourport

Flooding mechanism: high levels on the River Stour caused flooding to low lying land and properties.

Property flooding was experienced at Wolverley from a tributary of the River Stour.

Numbers impacted: 11 properties were reported to have been impacted by flooding at Wolverley.

Flood warnings issued: Flood Warning issued 16 February 2020.

Peak river level: Puxton gauge (within the storage area): 4.29m ASD on the 17 February 2020.

July 2007 levels reached 4.43m ASD within the flood storage reservoir.

EA assets: the Kidderminster flood risk management scheme consists of an engineered channel through the town and a flood storage area. This scheme reduces flood risk to over 500 properties

In addition, some properties have private PFR measures.

EA operation of assets: EA Deputy Catchment Engineer inspected the reservoir along with the reservoirs Panel Engineer.

Community engagement: EA staff attended these locations to collect data and to talk to local residents.

Post flood work: a Natural Flood Management scheme is planned for the Wolverley catchment.

Following the flooding, all assets were inspected and minor repairs undertaken to ensure the scheme is ready for the next flood event.



Kidderminster flood storage area controlling flood water and reducing flood risk

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