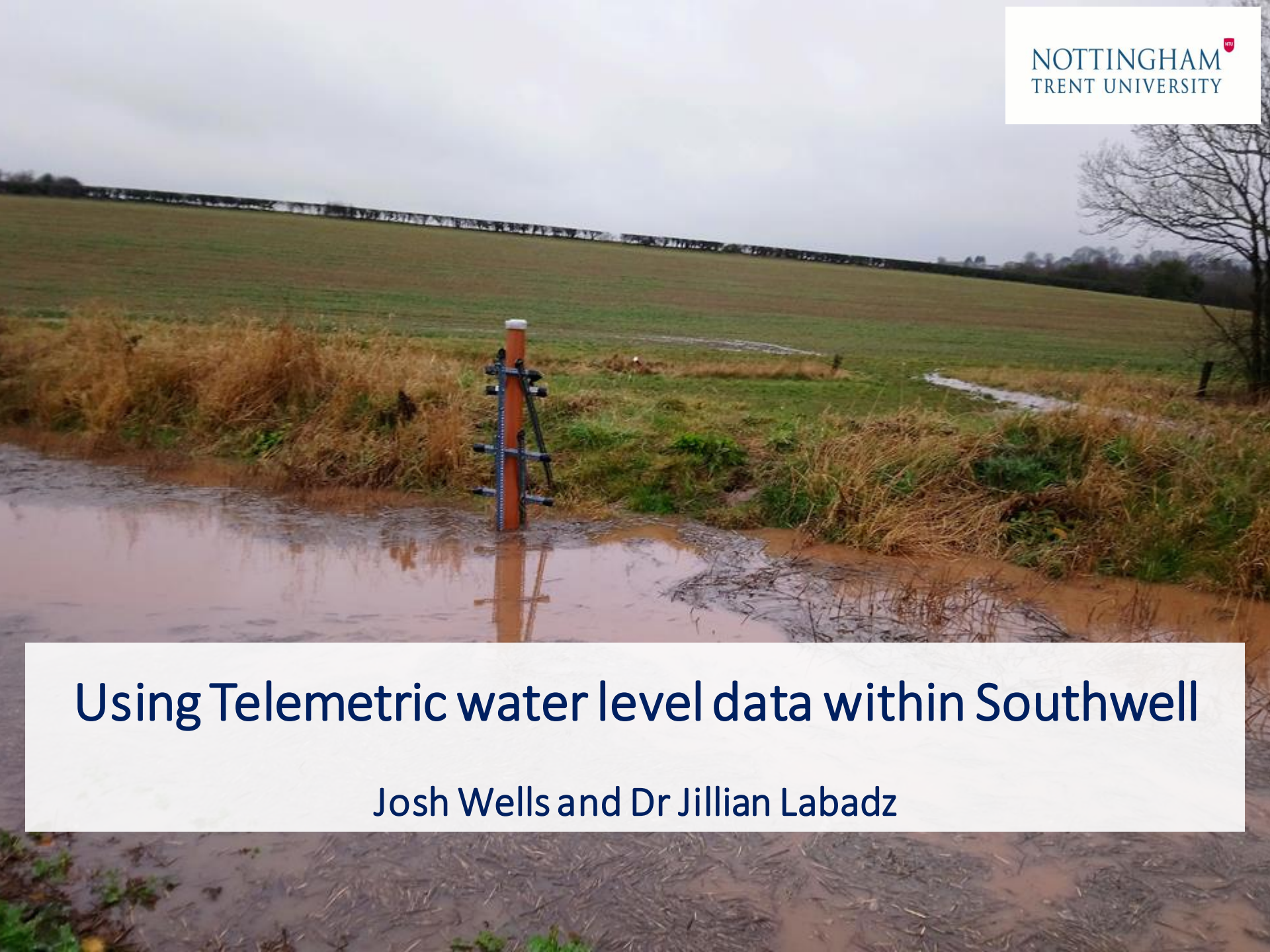


NOTTINGHAM TRENT UNIVERSITY

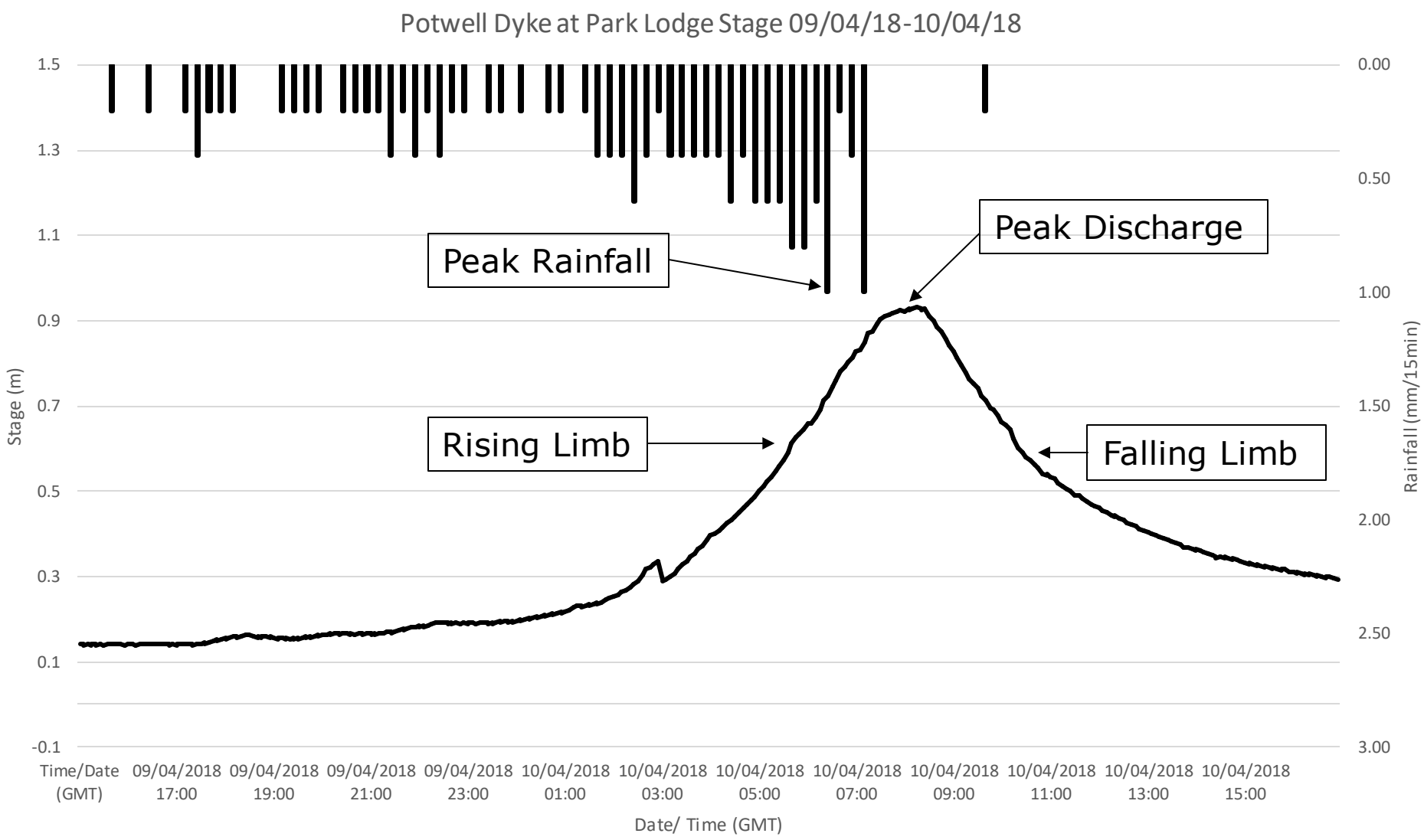
Using Telemetric water level data within Southwell

Josh Wells and Dr Jillian Labadz

Outline

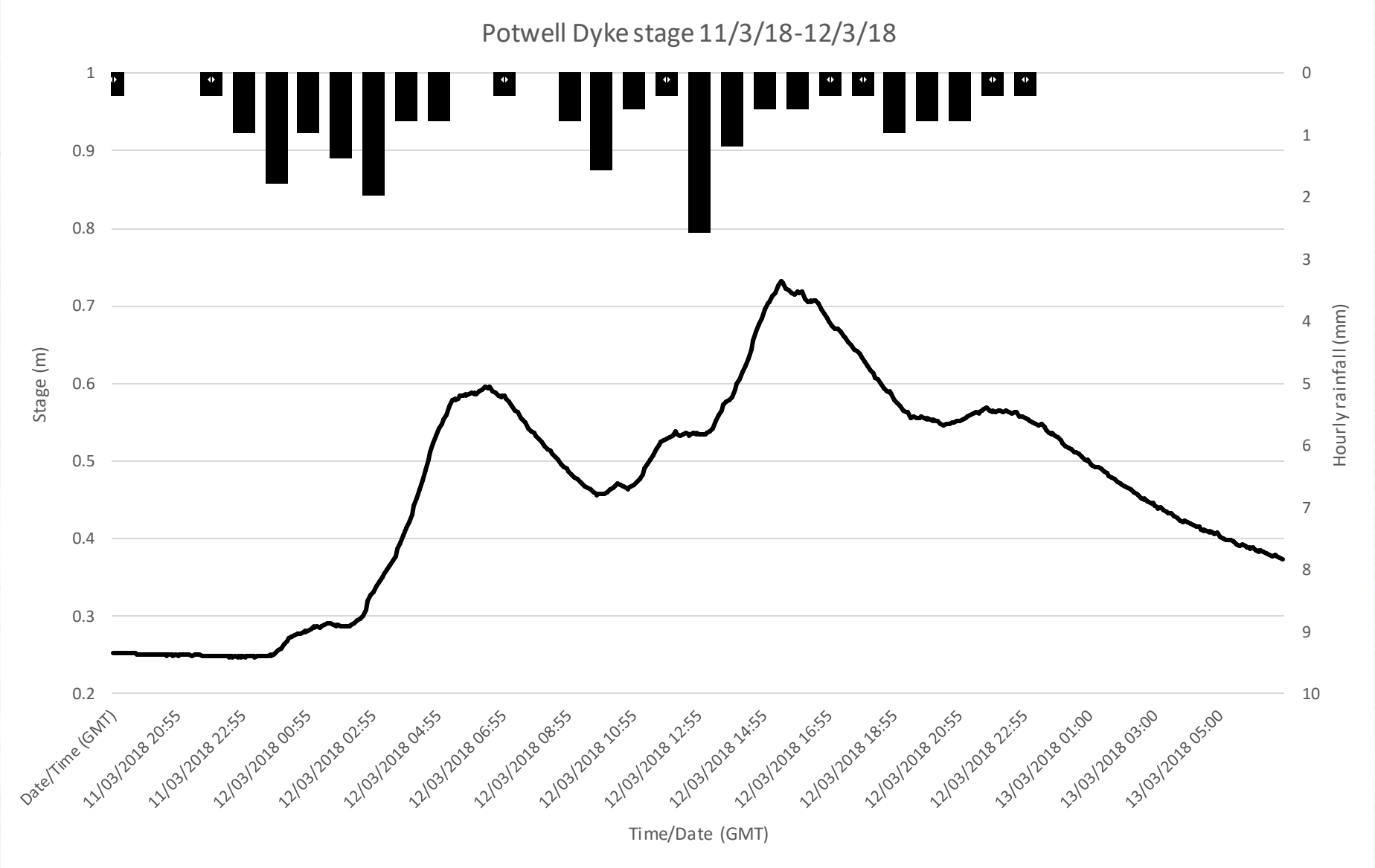
- Introduction to a hydrograph
- Logon credentials for Timeview 2
- Viewing data
- Thresholds and alarms
- Important considerations

Elements of a hydrograph

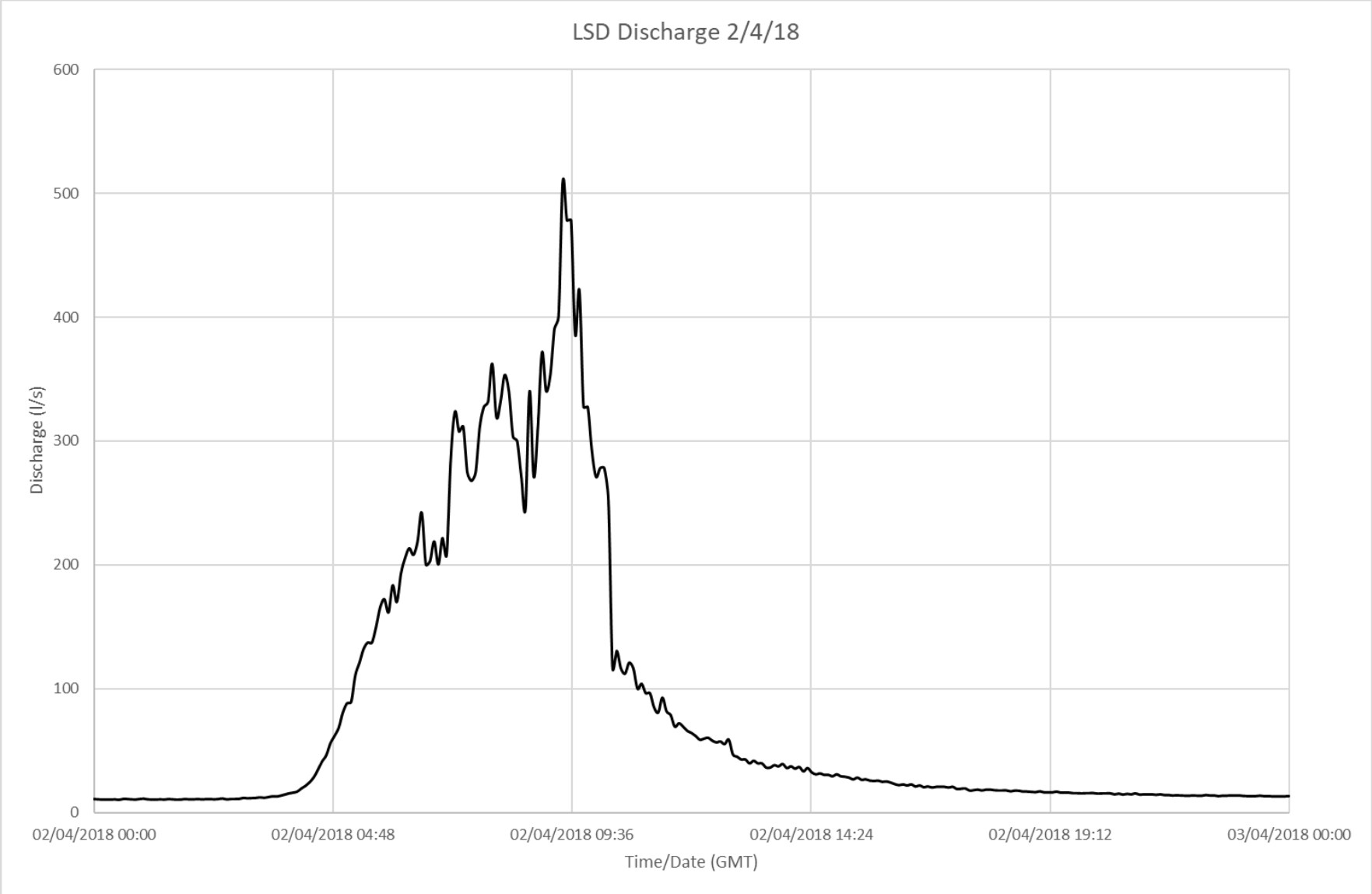


Lag time is the difference in time between peak rainfall and peak stage (water level)

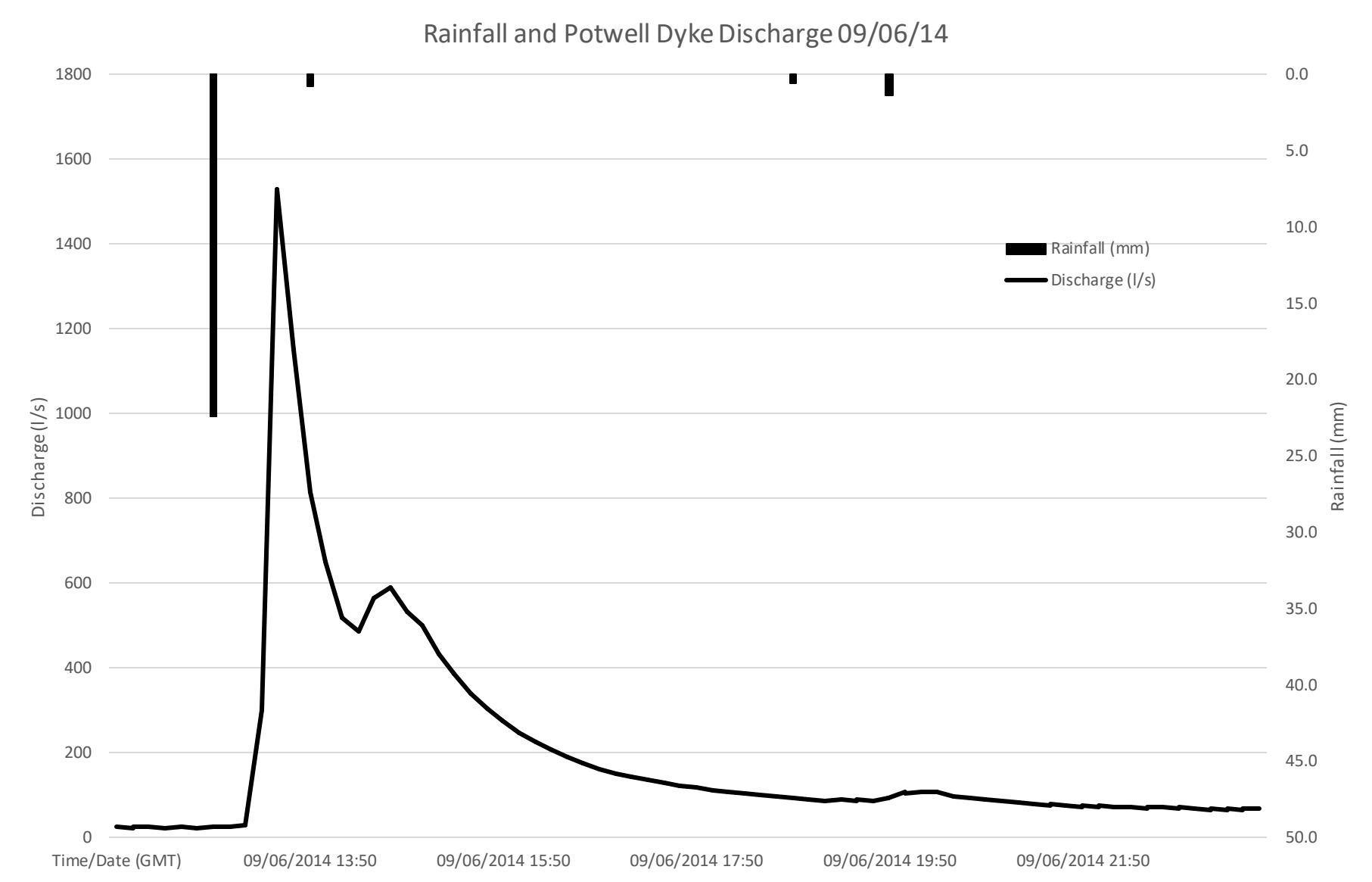
Double peaks: two rainfall peaks



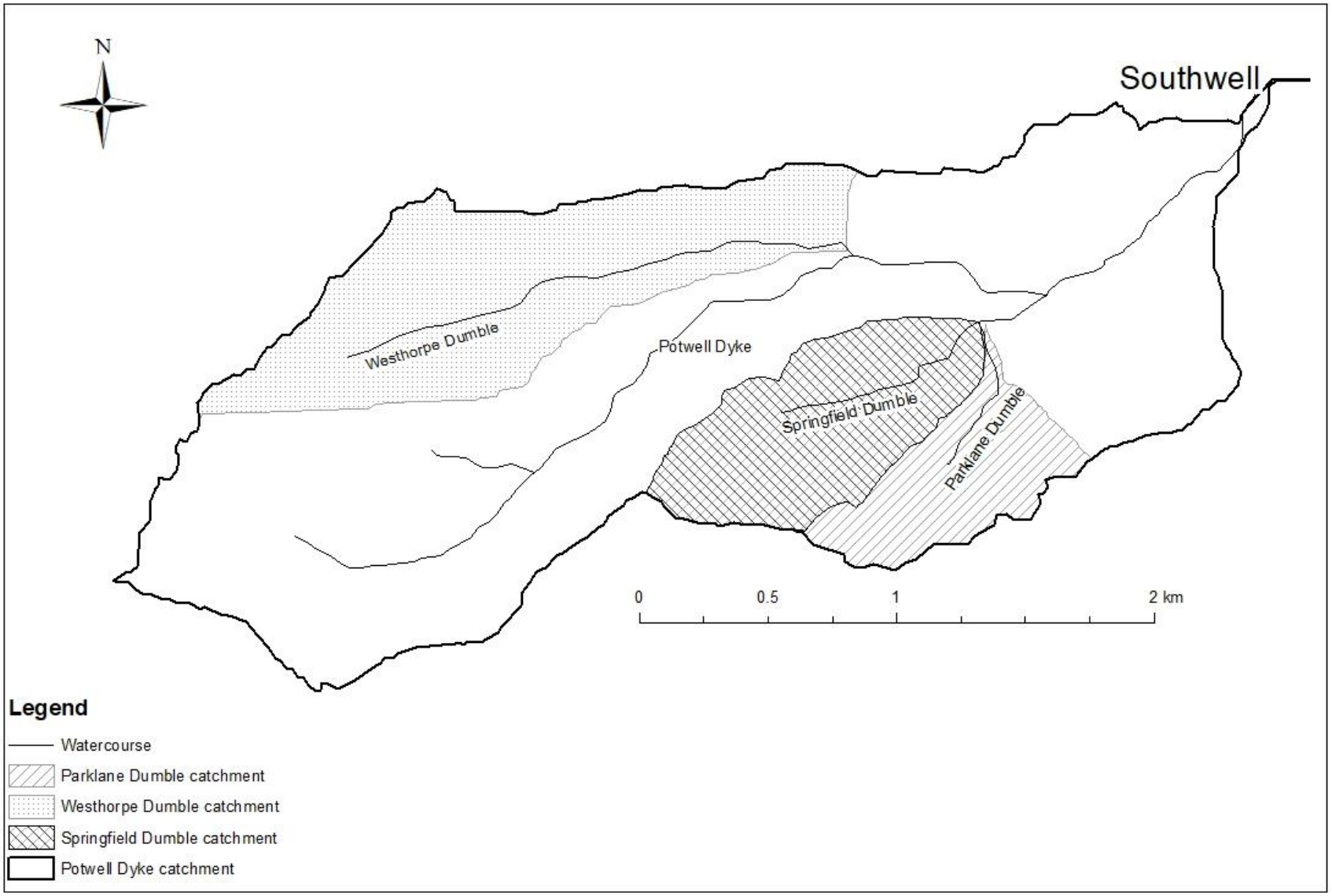
Multiple peaks…



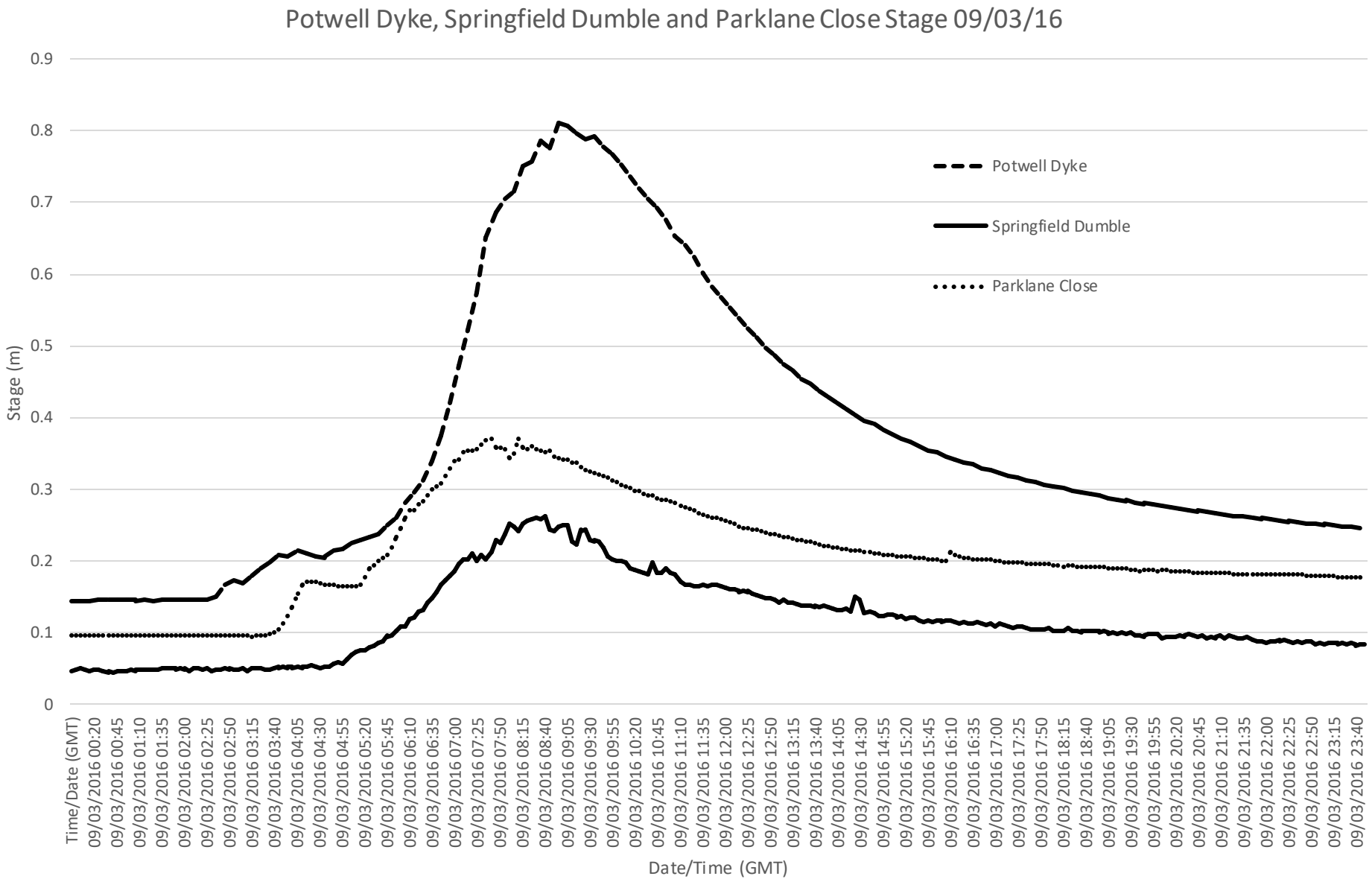
Double peaks: Rapid runoff followed by throughflow



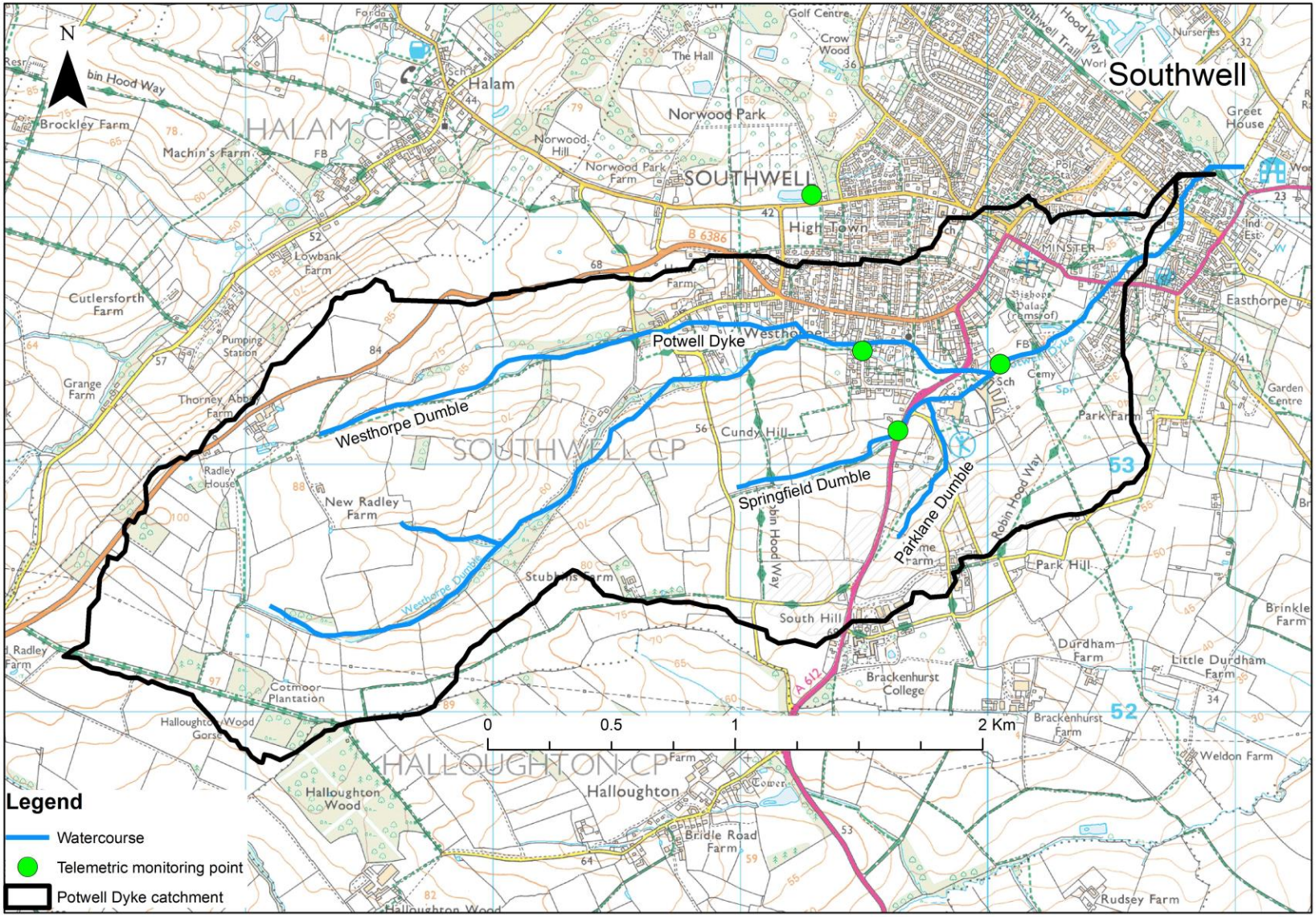
Consideration of tributaries



Consideration of tributaries



Map of monitoring



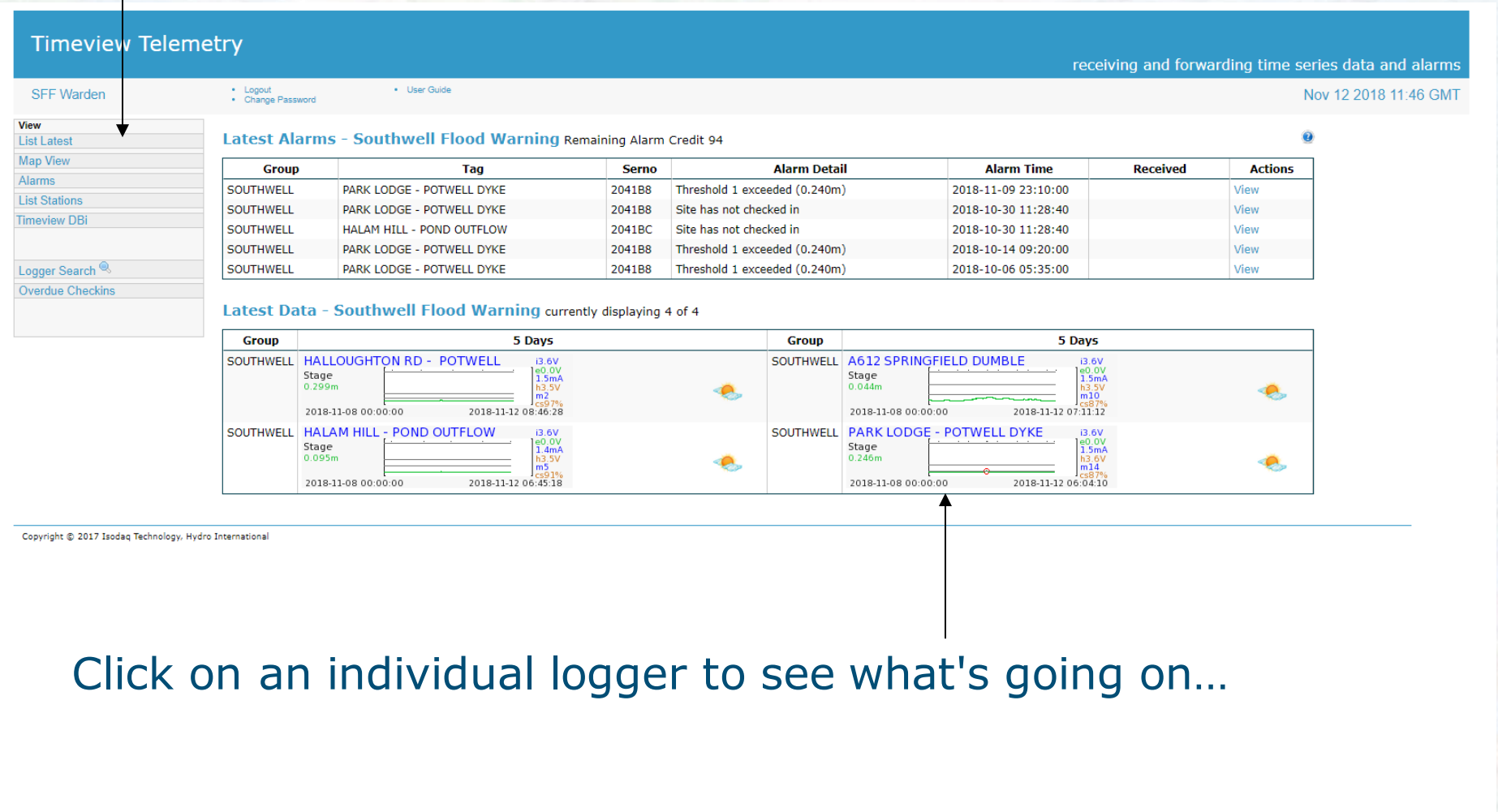
1:25 000 Scale Colour Raster [TIFF geospatial data], Scale 1:25000, Tiles: sk65,sk75, Updated: 14 August 2015, Ordnance Survey (GB), Using: EDINA Digimap Ordnance Survey Service, <http://digimap.edina.ac.uk>, Downloaded: 2015-10-08 11:41:13.097

Logon to Timeview 2

http://www.timeview2.net/

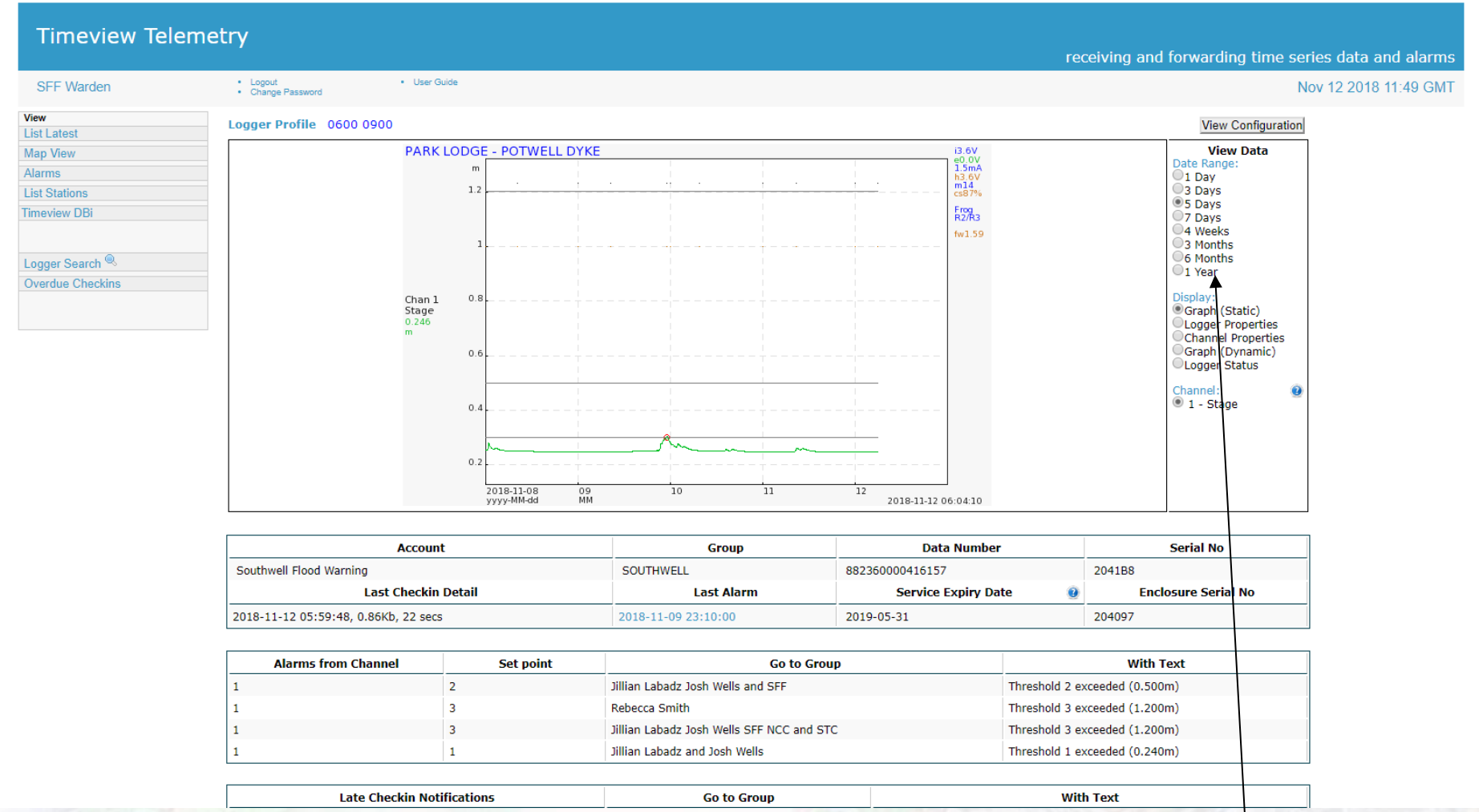
- Username: SFF Warden
- Password: floodwarden

Map view allows users to view the location of loggers. List stations lists the loggers as shown below.



Click on an individual logger to see what's going on…

Not much…in the last 5 days anyway



Using the date range option allows you to see a longer record

Timeview Telemetry

receiving and forwarding time series data and alarms

SFF Warden

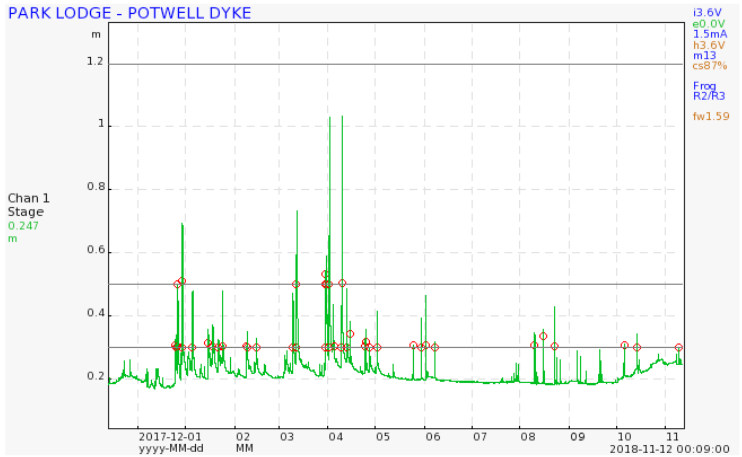
- Logout
- Change Password
- User Guide

Nov 12 2018 11:51 GMT

View
- List Latest
- Map View
- Alarms
- List Stations
- Timeview DBi
- Logger Search
- Overdue Checkins

Logger Profile 0600 0900

View Configuration



View Data

Date Range:
- 1 Day
- 3 Days
- 5 Days
- 7 Days
- 4 Weeks
- 3 Months
- 6 Months
- 1 Year

Display:
- Graph (Static)
- Logger Properties
- Channel Properties
- Graph (Dynamic)
- Logger Status

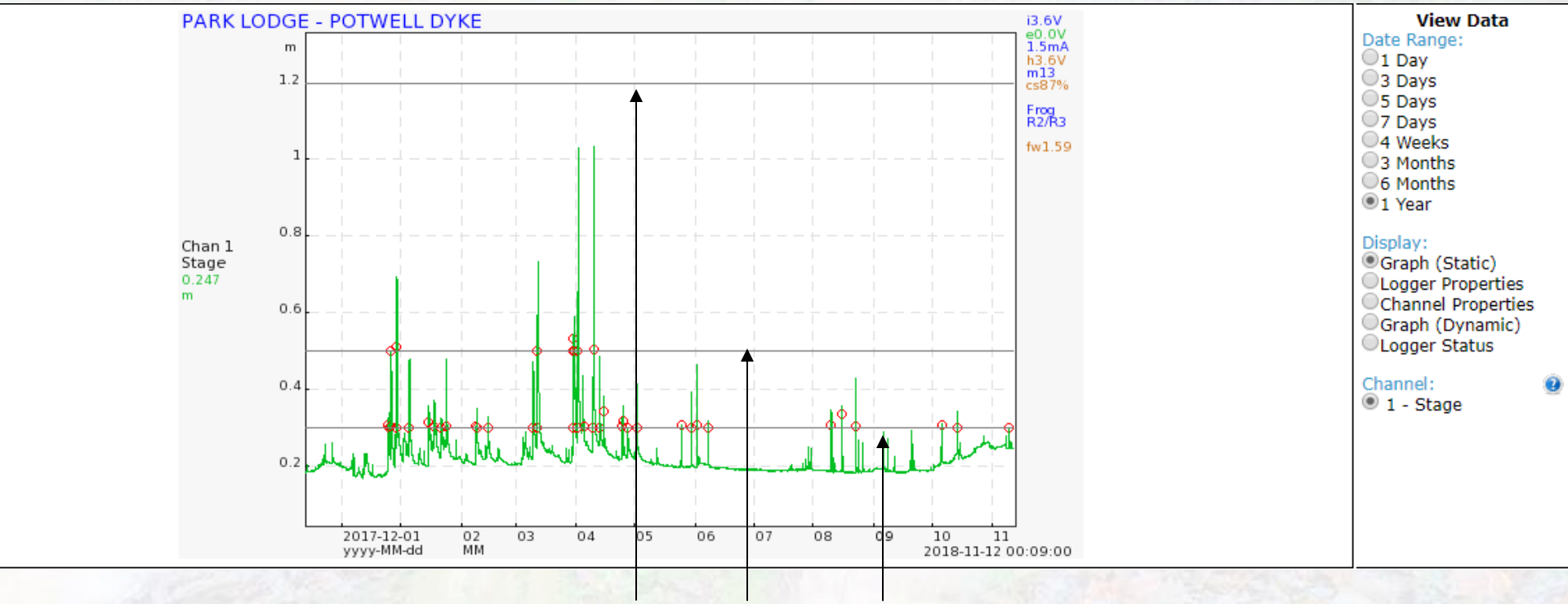
Channel:
- 1 - Stage

Account	Group	Data Number	Serial No
Southwell Flood Warning	SOUTHWELL	882360000416157	2041B8
Last Checkin Detail	**Last Alarm**	**Service Expiry Date**	**Enclosure Serial No**
2018-11-12 05:59:48, 0.86Kb, 22 secs	2018-11-09 23:10:00	2019-05-31	204097

Alarms from Channel	Set point	Go to Group	With Text
1	2	Jillian Labadz Josh Wells and SFF	Threshold 2 exceeded (0.500m)
1	3	Rebecca Smith	Threshold 3 exceeded (1.200m)
1	3	Jillian Labadz Josh Wells SFF NCC and STC	Threshold 3 exceeded (1.200m)
1	1	Jillian Labadz and Josh Wells	Threshold 1 exceeded (0.240m)

Late Checkin Notifications	Go to Group	With Text

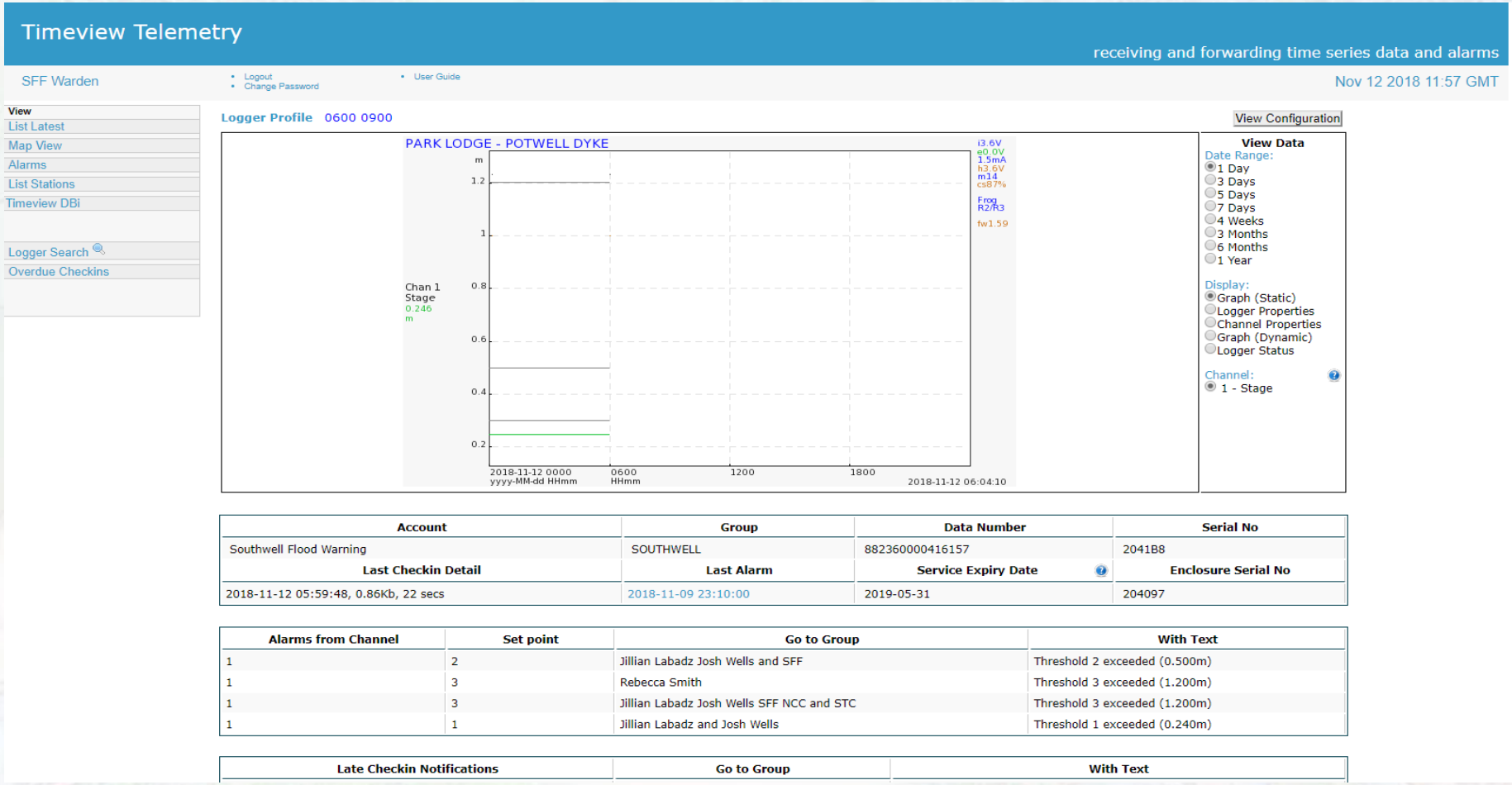
Thresholds and alarms



Three thresholds have been set for each logger. The thresholds create an alert which notifies myself of changes in water level.

The thresholds DO NOT necessarily indicate flooding and have been set to inform the NTU research…it means when I get a text I need to go out and get wet!

Logger check in



Each logger checks in once a day (usually in the morning). Once threshold 1 is reached, loggers will check in every 15 mins but this is dependant on phone signal.

Important considerations

- Thresholds do not indicate a risk of flooding. This must be done by the individual warden.
- Data may take a while to come through if the phone signal is weak.
- If water level is beginning to fall, it does not mean that the event is necessarily over. There may be a double peak. This is common for the Potwell Dyke.
- Please do not change the password or share this account logon details beyond the flood wardens.