

CFAG

- **Formed in Response to the Floods of 2023**
 - Followed advice of the National Flood Forum
- **S19**
 - Spent the first year Supporting SCC (LLFA) with information gathering and data analysis
 - Monitoring the S19 Recommendations
 - Liaised with EA and SCC regarding lack of tangible progress
- **Channel Clearance and Highways Drains**
 - Lobbied with the help of PC funded AMAZI
- **Post S19 – Making a difference**
 - Early Warning and Flood Prediction
 - Community Action
 - Natural Flood Management (NFM)



EVENT PREDICTIONS & EARLY WARNINGS

Steve Moor





BABET - NO LOCAL WARNINGS

- Exceptional and very localized heavy rainfall - 108mm in 96 hours
- S19 report *"little, if any, forewarning"* for residents in Charsfield despite the wider-area alert.
- For Potsford B' there is no EA Gauge = No Flood Warning & no prospect of change
- Met Office rain gauge in Charsfield – not 'online' so of no real time
- EA Revised Hydrology Model puts the flood risk prediction as very high (2%)

CFAG APPROACH - GAUGE

- Approaches to EA for gauge fruitless
 - EA recommend upstream gauge but no support in any way
- Local Development
 - Remote location upstream demanding
 - – low power, 4G Connection
 - Suspended above water using RADAR
 - Logging to Dashboard & Alerts rising water level
 - Limited private funding but a solution is feasible
 - Ultimately the most affordable
 - App and Cloud Development will be required.
- Professional Solution Identified (Radio Data Networks)
 - Logs to EA approved dashboard (Several already installed in Norfolk)
 - £5k each plus (NFM Grant?)
 - Annual Dashboard Rental Costs may be prohibitive



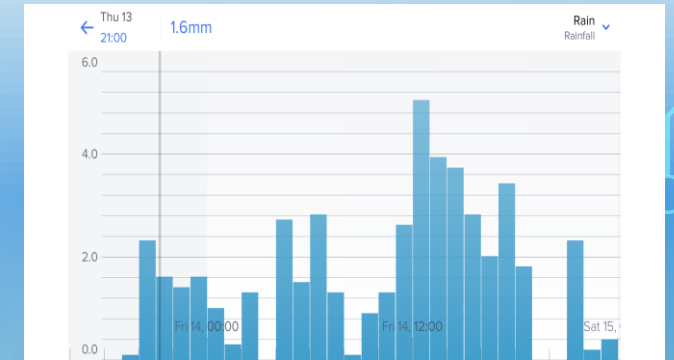
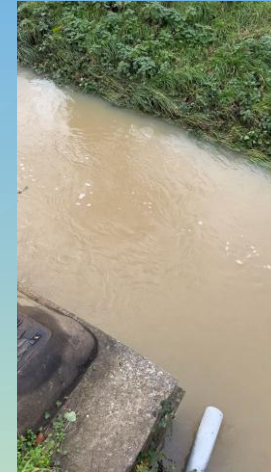
CFAG APPROACH - CAMERAS

- Camera(s) and time lapse photography streaming to Flood Dashboard
 - ✓ Quick solution – already in use at Church Rd.
 - ✓ Low cost (~£100)
 - ✓ Useful for historic analysis
 - ✓ Streaming possible
- But
 - Manual monitoring only quite labour intensive
 - Difficult to install in remote location



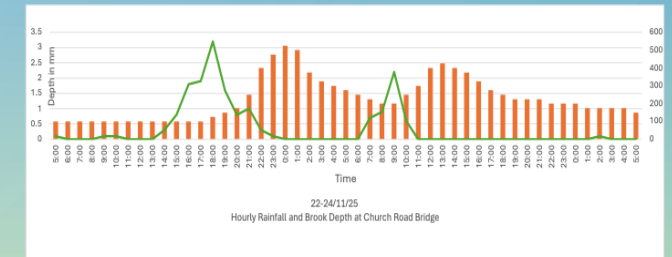
CFAG APPROACH - FORECASTING

- **Private (self Funded), (Netatmo) Rain gauge**
 - Accessible from Web site
 - Records instantaneous Intensity and records hourly
- **Water Level Monitoring at Bridge**
 - Timelapse manually translated to level graph
 - Estimation of water volumes flowing under the Bridge
 - Correlation of rainfall with water level
 - Simple rules for serious incident prediction
- **Historic Rainfall Patterns**
 - Charsfield Met Office data obtained since 1960
 - Comparison of 2023 with other years
 - Significance of seasonal rainfall
 - Prediction of repeat of Babet



Potsford Brook and Church Road Bridge 22—24/11/25

Total rainfall 18.5 mm



Initial peak to peak = 6 hours

2nd peak to peak 4 hours i.e. the buffering effect of the upper catchment reduced by earlier rainfall.



TECHNICAL TEAM

- Acknowledgements

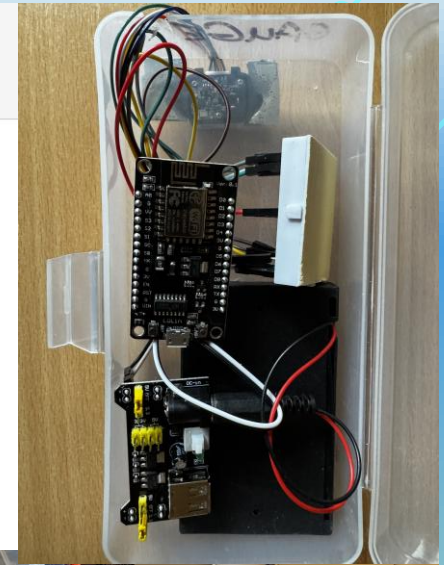
- Jeremy Gugenheim – Software
- Tim Fosdick – Cameras and Clouds
- Steve Moor - Hardware and Comms
- Garry Stratton – IT/Web site

- Issues

- We need a statistician
- Better understand the Brook flow Volumes
- All Costs, time and equipment have been donated or loaned
- Modest Funding required to increase activity and obtain more consultancy

Live Dweets from: JSG_WATER_DEPTH_005

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CFAG APPROACH – COMMUNITY SUPPORT

- **Achievements**

- Organization of 'Buddy Groups' and Self Help
- WhatsApp Group
- Announcements
- Warnings and Predictions based on observations and Weather Forecasts
- Coordination and Communication

- **Challenges**

- leadership and Coordinator
- Increase participation
- Link to Village Emergency Plan
- 'Flying Squad'?



CAN YOU HELP OR BENEFIT?

- Join the CFAG WhatsApp
 - Get Announcements
 - Join Discussions
 - Form a Buddy Group
 - Lend a hand – take a lead
- Send me an email Stevermoor@outlook.com

