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FCF Phase C (mobile, straight)

This volume contains data on experiments in which the main channel had a mobile bed and the floodplains were either smooth or rough. The experiments were conducted by PhD student **Brown (/research/activity/civil-engineering/short-term/floods/flowdata/background/phd-theses/brown.aspx)** , whose details may be found on the **PhD data list (/research/activity/civil-engineering/short-term/floods/flowdata/phd-data.aspx)** .

Data include both 'smooth floodplain' and 'rough floodplain'.

Further details on the notation and programme are shown in **Notes on FCF data (/research/activity/civil-engineering/short-term/floods/flowdata/fcf-data/notes-on-fcf.aspx)** .

Open all sections

Experimental series (1995-1996)

Test Date	Target Q (m^3/s)	Actual Q (m^3/s)	Qmc (m^3/s)	Test layout	Slope (x1000)	Depth,H (m)	Data (Series)
01/04/95	0.050	0.04894	0.04894	inbank	1.76974	0.07076	
03/04/96	0.075	0.07454	0.07454	inbank	1.66779	0.09666	
03/07/95	0.125	0.12460	0.12460	inbank	1.59132	0.15517	
25/03/96	0.175	0.17565	0.17565	bankfull	1.60752	0.19878	
20/11/95	0.250	0.24989	0.24989	inbank	1.71015	0.25257	
26/03/96	0.300	0.29996	0.29996	inbank	1.63337	0.27859	
14/03/96	0.350	0.35028	0.35028	inbank	1.75473	0.30952	
20//03/96	0.450	0.44894	0.44894	inbank	1.90536	0.35809	
16/07/95	0.250	0.24762	0.2016	rough	1.80007	0.22731	FCF250R
24/07/95	0.350	0.34978	0.2367	rough	1.76931	0.25811	FCF350R
31/07/95	0.450	0.44953	0.2932	rough	1.84666	0.28144	FCF450R
08/08/95	0.600	0.59887	0.3514	rough	1.84332	0.32018	FCF600R
14/04/96	0.250	0.25004	0.1968	smooth	1.48742	0.22493	FCF250S
08/04/96	0.350	0.34754	0.2145	smooth	1.88995	0.23902	FCF350S
15/04/96	0.450	0.44825	0.2303	smooth	1.77866	0.25690	FCF450S
21/08/95	0.600	0.59840	0.2594	smooth	1.84946	0.27835	FCF600S
17/04/96	0.750	0.74800	0.2814	smooth	1.92817	0.29347	FCF750S

Images

Click on the filenames below (the text displayed beneath each thumbnail) to display the revelant image.

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Experimental data files

Details on the notation and programme are given in **Notes on FCF data (/research/activity/civil-engineering/short-term/floods/flowdata/fcf-data/notes-on-fcf.aspx)** . Data files are in Microsoft Excel format, which are regrouped and listed in the following manner. All files need to be unzipped using WINZIP and then opened with MS Excel.

General data

- **FCF files 1 (http://www.eee.bham.ac.uk/flowdata/FCFC/allsum01.zip)** (summary data, inbank, overbank with smooth and rough floodplain)
- **FCF files 2 (http://www.eee.bham.ac.uk/flowdata/FCFC/allsum02.zip)** (summary data from both Ulster University and Newcastle University)

Overbank (smooth floodplain)

- series FCF250S

- **flow data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s250flow.zip), bed profiles (not measured), **sediment transport rates** (http://www.eee.bham.ac.uk/flowdata/FCFC/s250sand.zip)
- shear stress (not measured), ultrasonic data (not measured), **velocity data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s250velocity.zip)

- series FCF350S
  - **flow data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s350flow.zip), **bed profiles** (http://www.eee.bham.ac.uk/flowdata/FCFC/s350bed.zip), **sediment transport rates** (http://www.eee.bham.ac.uk/flowdata/FCFC/s350sand.zip)
  - **shear stress** (http://www.eee.bham.ac.uk/flowdata/FCFC/s350shear.zip), **ultrasonic data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s450sonic.zip), **velocity data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s450velocity.zip)
- series FCF450S
  - **flow data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s450flow.zip), **bed profiles** (http://www.eee.bham.ac.uk/flowdata/FCFC/s450bed.zip), **sediment transport rates** (http://www.eee.bham.ac.uk/flowdata/FCFC/s450sand.zip)
  - **shear stress** (http://www.eee.bham.ac.uk/flowdata/FCFC/s450shear.zip), **ultrasonic data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s450sonic.zip), **velocity data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s450velocity.zip)
- series FCF600S
  - **flow data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s600flow.zip), **bed profiles** (http://www.eee.bham.ac.uk/flowdata/FCFC/s600bed.zip), **sediment transport rates** (http://www.eee.bham.ac.uk/flowdata/FCFC/s600sand.zip)
  - **shear stress** (http://www.eee.bham.ac.uk/flowdata/FCFC/s600shear.zip), **ultrasonic data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s600sonic.zip), **velocity data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s600velocity.zip)
- series FCF750S
  - **flow data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s750flow.zip), bed profiles, **sediment transport rates** (http://www.eee.bham.ac.uk/flowdata/FCFC/s750sand.zip)
  - shear stress, ultrasonic data, **velocity data** (http://www.eee.bham.ac.uk/flowdata/FCFC/s750velocity.zip)

Overbank (rough floodplain)

- series FCF250S
  - **flow data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r250flow.zip), **bed profiles** (http://www.eee.bham.ac.uk/flowdata/FCFC/r250bed.zip), **sediment transport rates** (http://www.eee.bham.ac.uk/flowdata/FCFC/r250sand.zip)
  - **shear stress** (http://www.eee.bham.ac.uk/flowdata/FCFC/r250shear.zip), **ultrasonic data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r250sonic.zip), **velocity data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r250velocity.zip)
- series FCF350S
  - **flow data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r350flow.zip), **bed profiles** (http://www.eee.bham.ac.uk/flowdata/FCFC/r350bed.zip), **sediment transport rates** (http://www.eee.bham.ac.uk/flowdata/FCFC/r350sand.zip)
  - **shear stress** (http://www.eee.bham.ac.uk/flowdata/FCFC/r350shear.zip), **ultrasonic data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r350sonic.zip), **velocity data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r350velocity.zip)
- series FCF450S
  - **flow data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r450flow.zip), **bed profiles** (http://www.eee.bham.ac.uk/flowdata/FCFC/r450bed.zip), **sediment transport rates** (http://www.eee.bham.ac.uk/flowdata/FCFC/r450sand.zip)
  - **shear stress** (http://www.eee.bham.ac.uk/flowdata/FCFC/r450shear.zip), **ultrasonic data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r450sonic.zip), **velocity data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r450velocity.zip)
- series FCF600S
  - **flow data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r600flow.zip), **bed profiles** (http://www.eee.bham.ac.uk/flowdata/FCFC/r600bed.zip), **sediment transport rates** (http://www.eee.bham.ac.uk/flowdata/FCFC/r600sand.zip)
  - **shear stress** (http://www.eee.bham.ac.uk/flowdata/FCFC/r600shear.zip), **ultrasonic data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r600sonic.zip), **velocity data** (http://www.eee.bham.ac.uk/flowdata/FCFC/r600velocity.zip)

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