2007–2008 cumulative responses

**Runoff**

- Connectivity of cum. runoff
- 2007–2008 runoff (mm)

**Sediments**

- Connectivity of cum. sediments
- 2007–2008 sediment yield (g m$^{-2}$)

**Connectivity of runoff - CR**

- Connectivity of runoff - CR
- 2007–2008 cumulative responses
- Connectivity of run-off - C$_R$

**Connectivity of sediments - C$_S$**

- Connectivity of sediments - C$_S$
- 2007–2008 cumulative responses
- Connectivity of sediments - C$_S$

**Per-rainfall-event responses**

- Connectivity of runoff - CR
- Connectivity of sediments - C$_S$

**Hillslope runoff coefficient (%)**

- Connectivity of runoff - CR
- Hillslope runoff coefficient (%)

**Hillslope soil erosion (g m$^{-2}$)**

- Connectivity of sediments - C$_S$
- Hillslope soil erosion (g m$^{-2}$)

Mathematical equations and statistical tests:

- $y = 1.6e^{2.9x}$; $R^2 = 0.82$
- $F_{2, 61} = 188.6; p < 0.001$

- $y = 24.4x^2$; $R^2 = 0.78$
- $F_{2, 61} = 126.9; p < 0.001$