

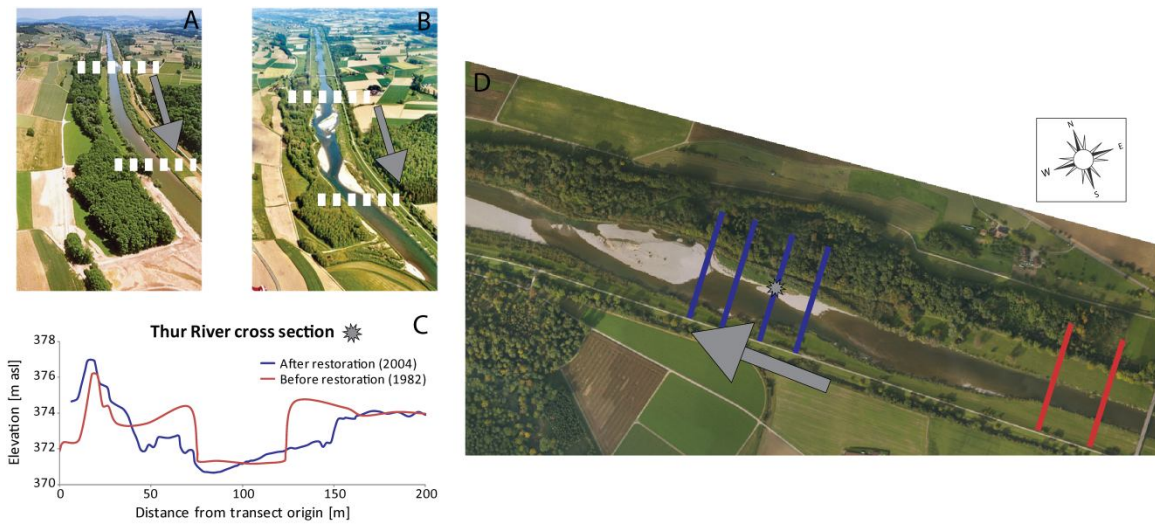
1 **SUPPLEMENTARY MATERIAL**

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3 **Table S1.** Occurrences of floods with a frequency equal or superior to two years (\geq
 4 HQ2) between 1994 and 2007. The dashed line separates the flood events that occurred before the
 5 restoration from those that occurred after. Forest sites are inundated when river discharge is
 6 superior or equal to $630 \text{ m}^3\text{s}^{-1}$ and control pasture sites when superior or equal to $415 \text{ m}^3\text{s}^{-1}$
 7 (Samaritani et al. 2011).

| Year | Month | Day | River discharge [m^3s^{-1}] | HQ |
|------|-------|-----|-----------------------------------------------|-----|
| 1994 | 5 | 25 | 690 | 2 |
| 1994 | 7 | 7 | 680 | 2 |
| 1995 | 1 | 26 | 660 | 2 |
| 1995 | 6 | 1 | 730 | 5 |
| 1995 | 8 | 9 | 570 | 2 |
| 1995 | 12 | 25 | 630 | 2 |
| 1996 | 7 | 9 | 610 | 2 |
| 1999 | 5 | 13 | 1130 | 100 |
| 2000 | 8 | 6 | 650 | 2 |
| 2000 | 9 | 21 | 710 | 2 |
| 2002 | 8 | 12 | 880 | 10 |
| 2002 | 9 | 24 | 780 | 5 |
| 2004 | 1 | 14 | 768 | 5 |
| 2005 | 8 | 23 | 720 | 5 |
| 2006 | 3 | 9 | 560 | 2 |
| 2006 | 9 | 17 | 717 | 5 |
| 2007 | 8 | 9 | 791 | 5 |

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10 **Fig. S1.** Illustrations of the restoration of the study site. Panels A and B show the state
 11 of the site before (June 2001) and after (May 2004) restoration. Panel C provides an example cross
 12 section of the study site before and after restoration. Panel D shows an aerial view that locates the
 13 different transects surveyed. The gray arrows indicate river flow direction; and the gray star shows
 14 the location of the example transect of panel C.

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