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Neal, C., B. Reynolds, P. Rowland, D. Norris, J.W. Kirchner, M. Neal, D. Sleep, A. Lawlor, C. Woods, S. Thacker, H. Guyatt, C. Vincent, K. Hockenhull, H. Wickham, S. Harman, and L. Armstrong, High-frequency water quality time series in precipitation and streamflow: from fragmentary signals to scientific challenge, *Science of the Total Environment*, doi:10.1016/j.scitotenv.2011.10.072, 2012.

and

Neal, C., B. Reynolds, J.W. Kirchner, P. Rowland, D. Norris, D. Sleep, A. Lawlor, C. Woods, S. Thacker, H. Guyatt, C. Vincent, K. Lehto, S. Grant, J. Williams, M. Neal, H. Wickham, S. Harman, and L. Armstrong, High-frequency precipitation and stream water quality time series from Plynlimon, Wales: an openly accessible data resource spanning the periodic table, *Hydrological Processes*, 2013 (in press; updated information will be added when available).

They should also cite other papers by the above authors, as appropriate depending on the specific topics of the study.

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Important information:

The Raw Data Archive (denoted by "RDA" at the end of each variable name) is an archive of the raw measurements as reported by the analytical laboratories. These data have not been altered in any way, except to correct glitches that can be traced back to the original laboratory files and analytical sheets and corrected on that basis. We are providing this raw data archive for completeness of documentation, and also in the interests of full transparency concerning data editing that has been subsequently applied. The raw data archive also provides the opportunity to go back to the original data in case new information emerges suggesting that interesting realworld phenomena may have been inadvertently edited out. However, **we do not recommend that the raw data archive be used for routine analyses**, because the raw data contain some values that are believed to be substantially in error. Instead, **we recommend that routine analyses use the edited version of the data**, where to the greatest extent possible, problematic data values have been corrected or excluded.

The differences between the edited data and the raw data archive are explained in detail in the accompanying file, "Plynlimon 7hour data editing documentation.pdf"