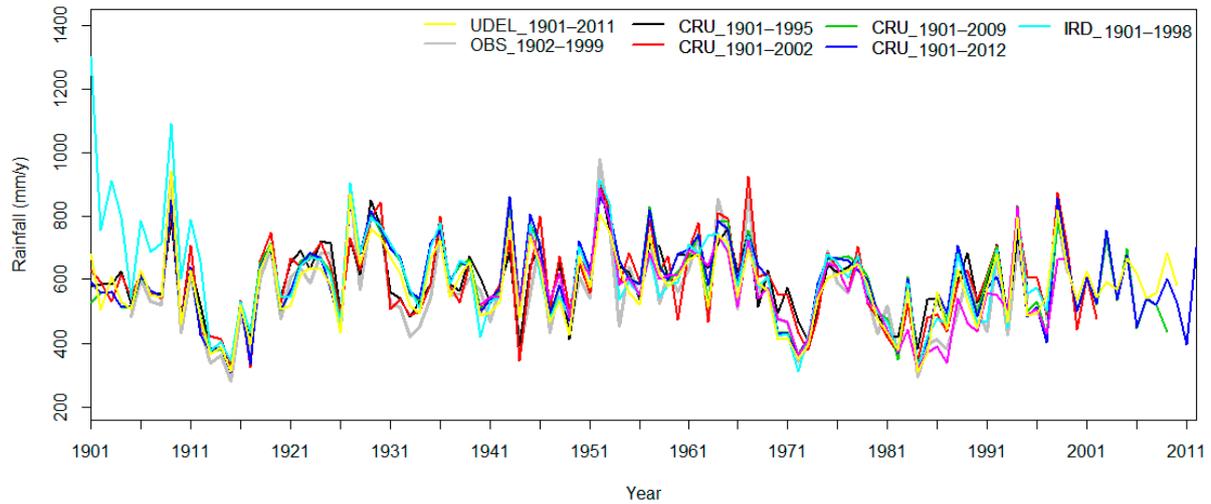
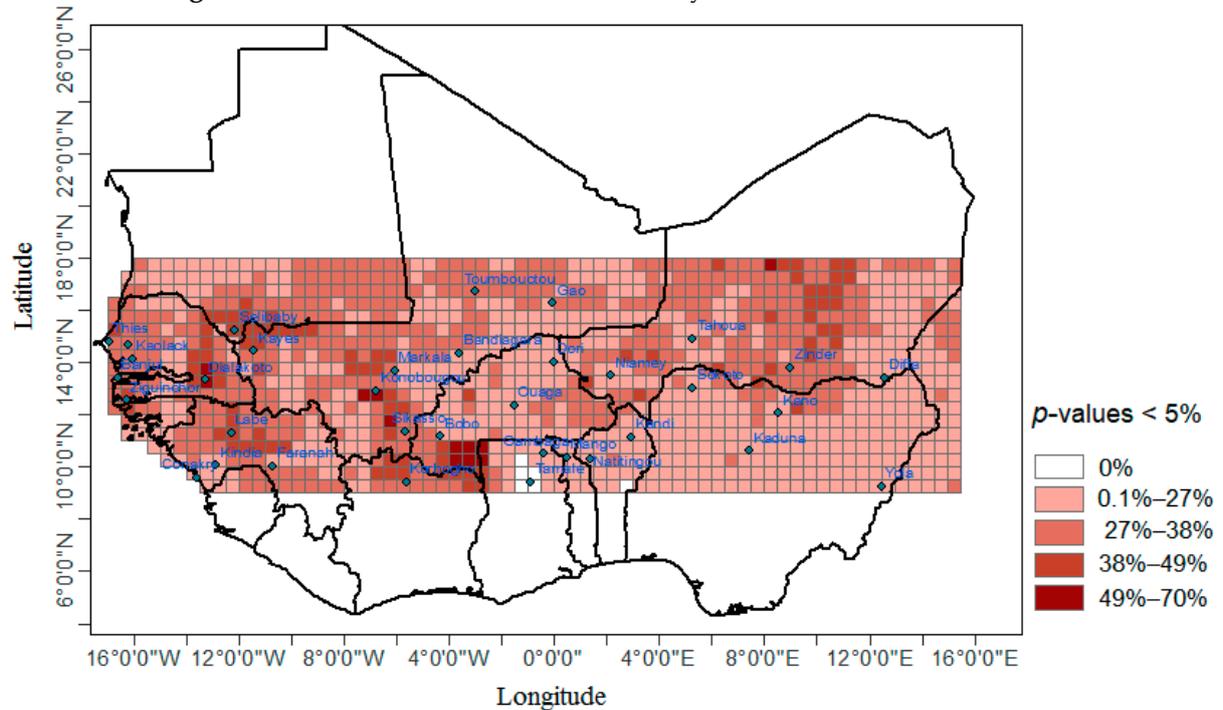


## Supplementary Figures

This file contains the figures that have not been shown in the main text.



**Figure S1:** Annual rainfall amount at Niamey station with the different data



**Figure S2.** Proportion of  $p$ -values lower than 5% with CRU\_2012 grid for segments of 10 years length.

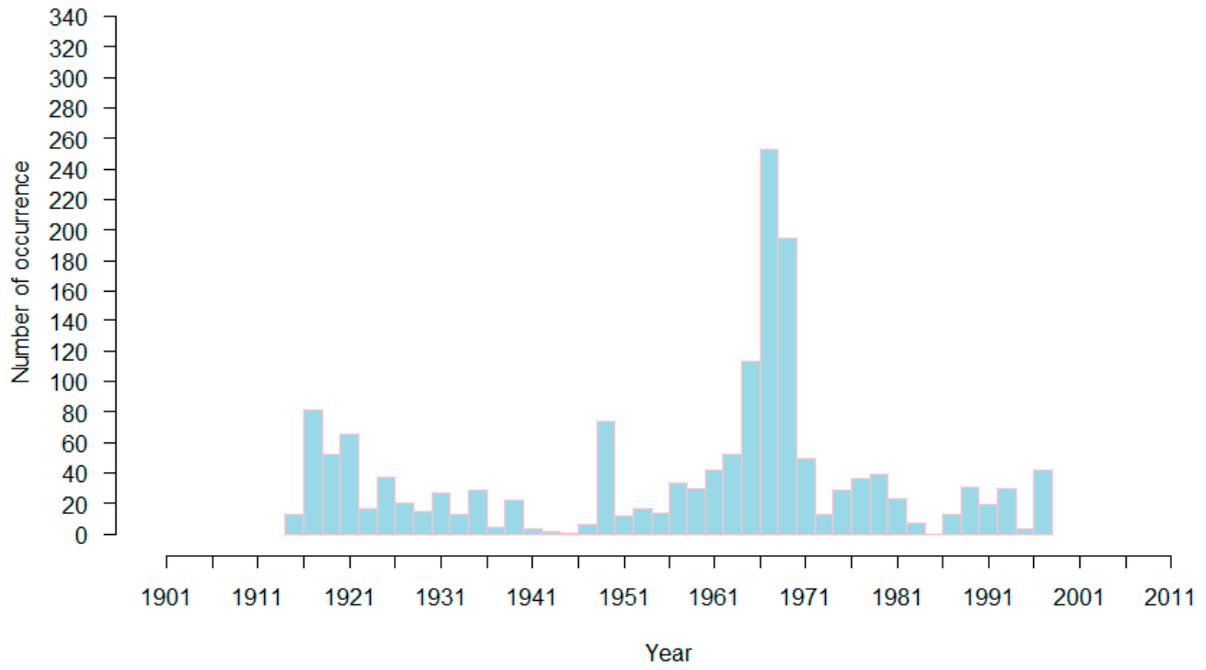


Figure S3. Histogram of breaks with IRD\_1998 data.

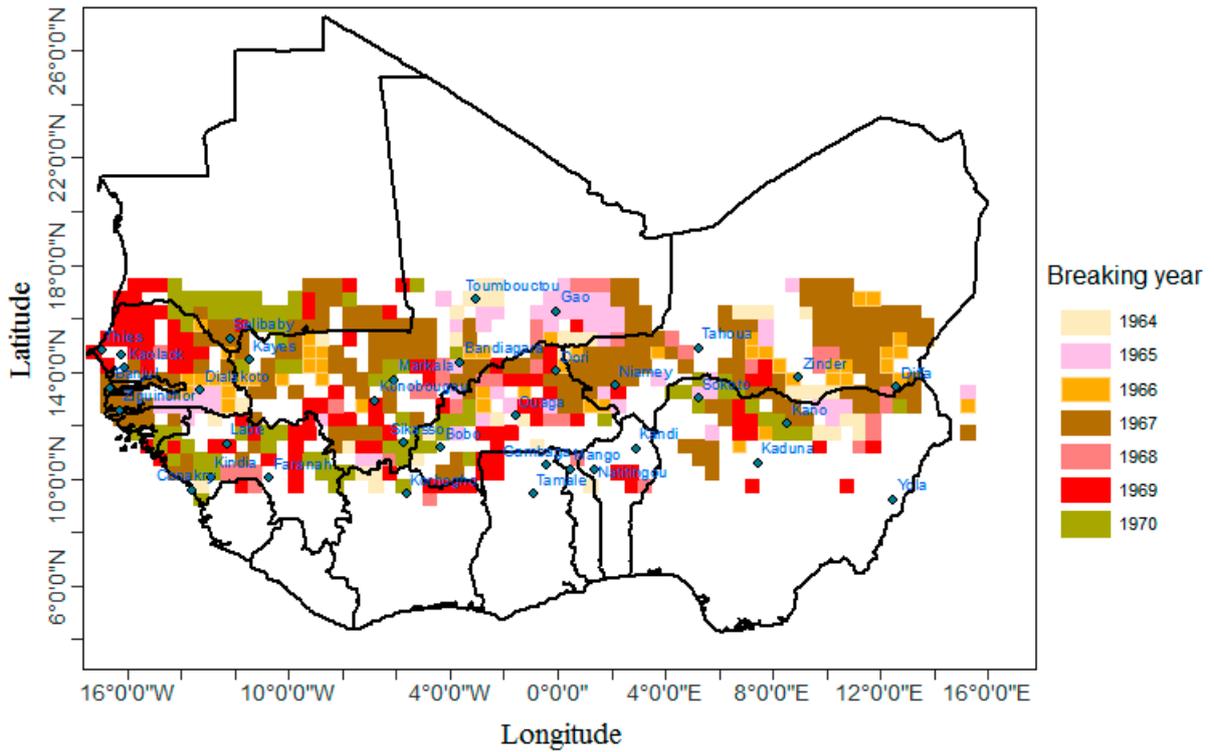


Figure S4. Geographical distribution of breaks during the 1966-1970 period from the IRD\_1998 data

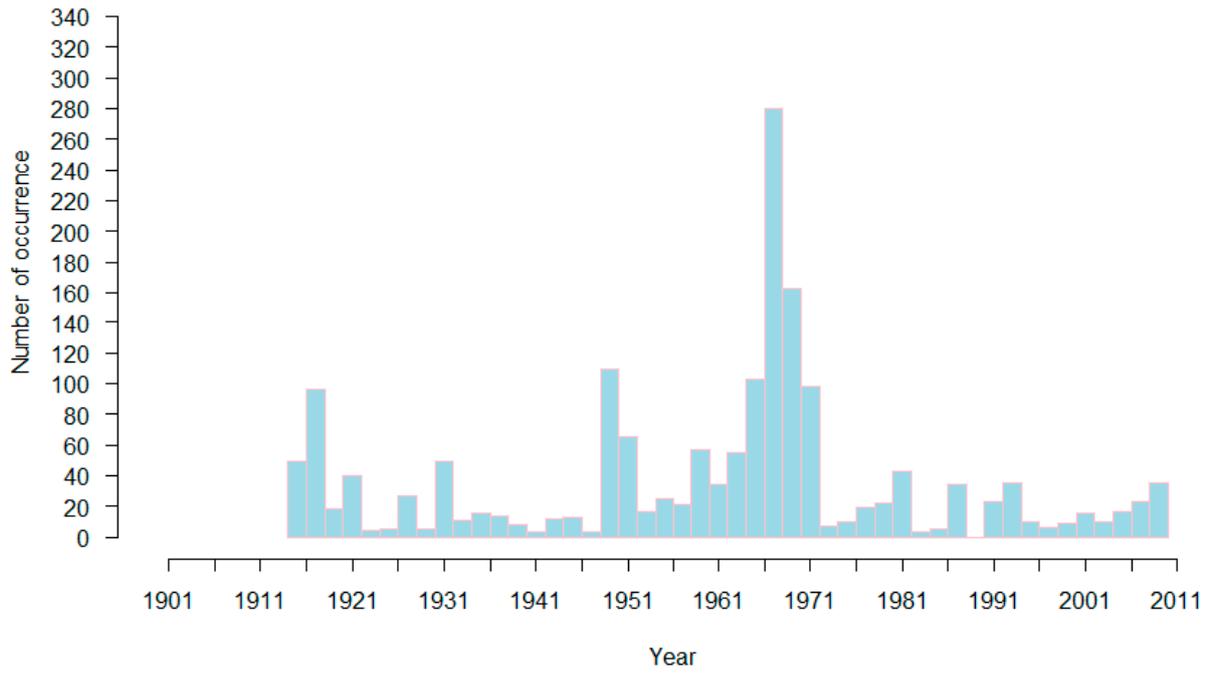


Figure S5. Histogram of breaks with UDEL\_2017 data.

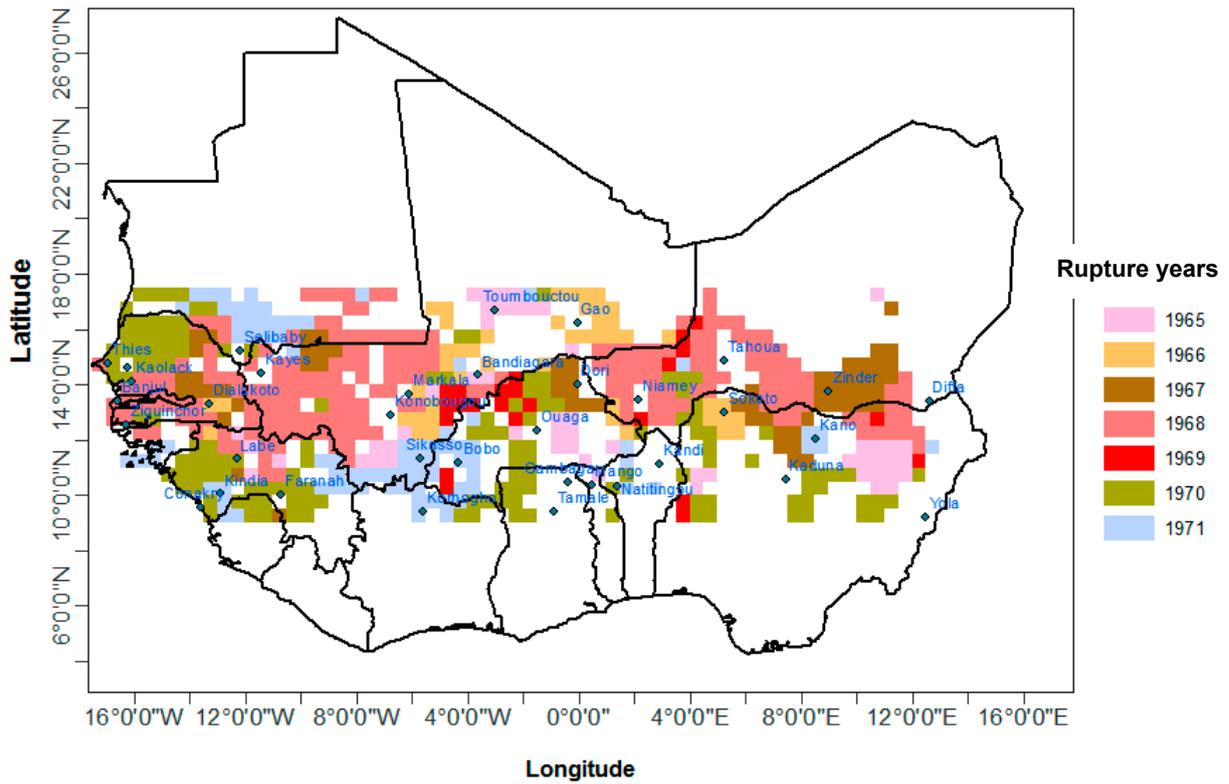


Figure S6. Geographical distribution of breaks during the 1964-1970 period from the UDEL\_2017 data.

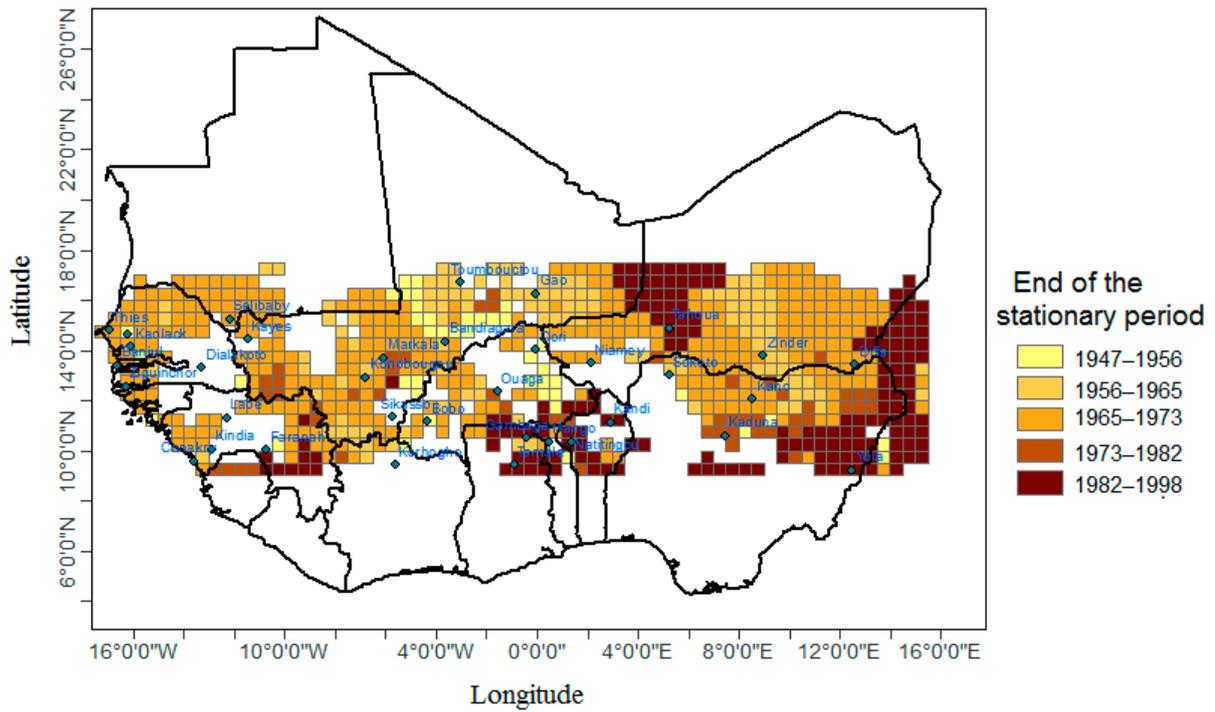


Figure S7. End of the stationary segments (beginning in 1901) with IRD\_1998.

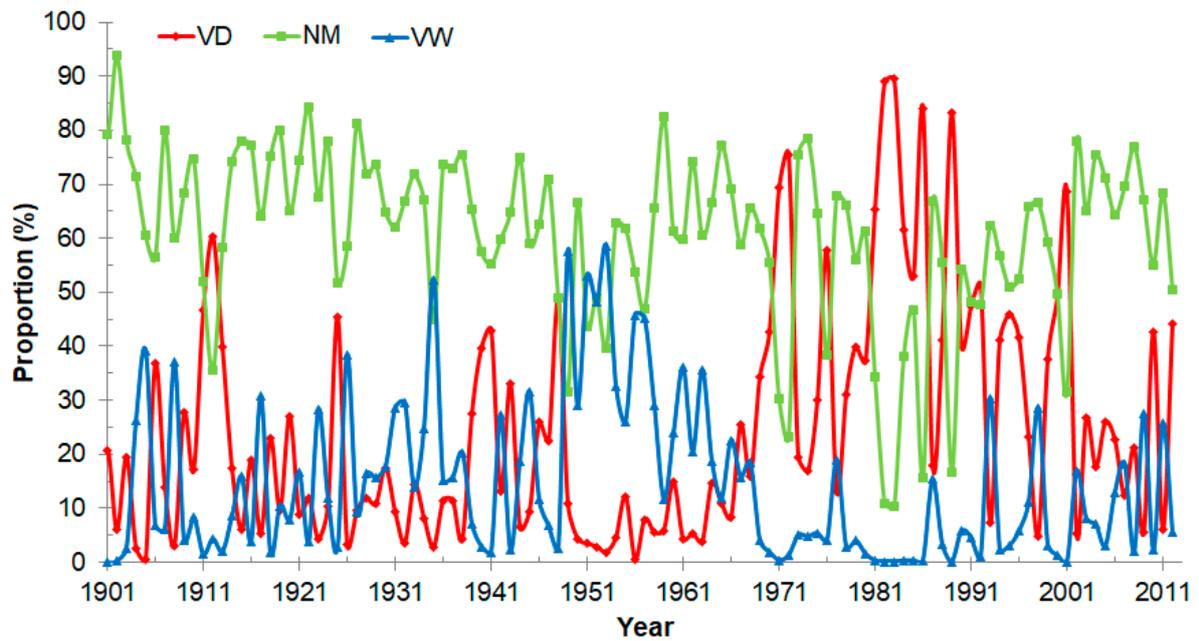


Figure S8. Proportion of meshes for the different type of year with CRU\_2012 data.