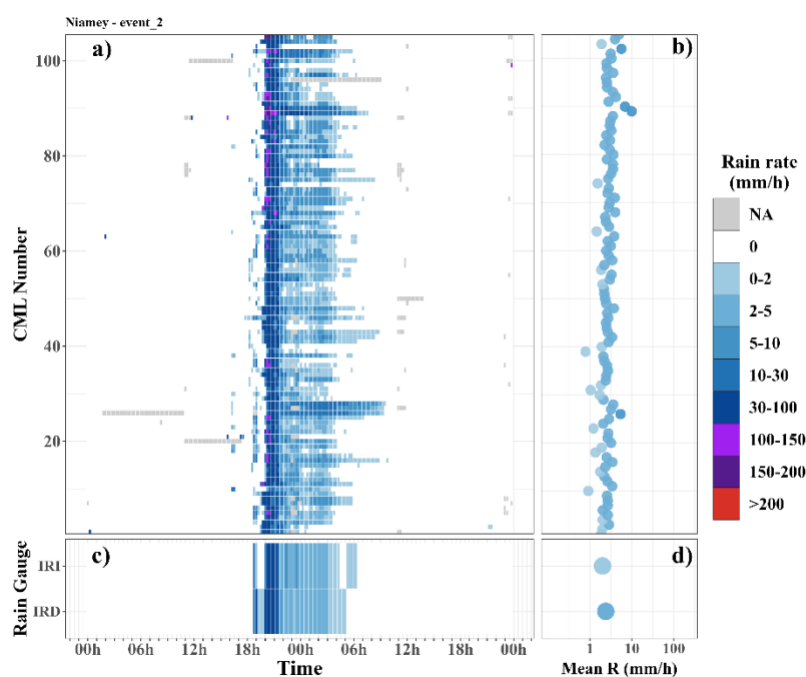
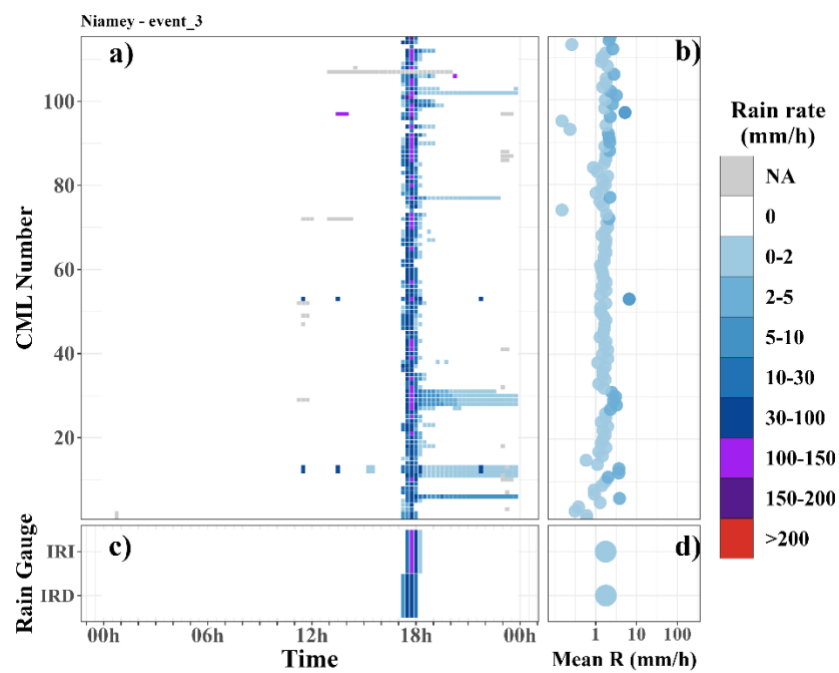


Figures S1 to S9 below– As in Figure 8, illustration of the time evolution of the rain rates over the network of links and gauges, after filtering of the outliers and application of the WAA correction, for events 2 (S1) to 10 (S9) as indicated. The event number refers to Table 1.

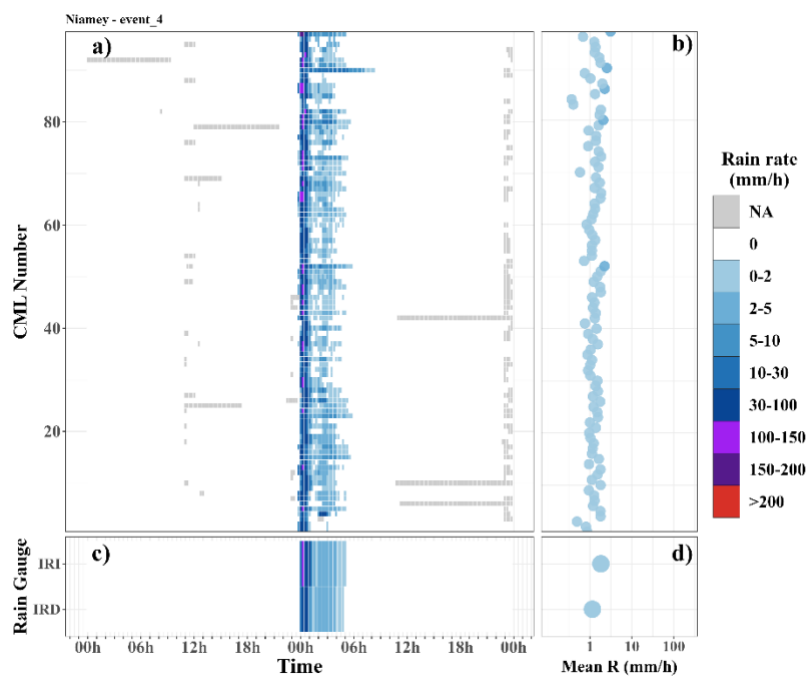
For each figure, the pixel colour indicates the rain rate recorded by the 144 CMLs (*a*) or the 2 gauges (*b*). The links are sorted by decreasing length along the Y axis – with the longest link at the bottom. The right plots show the mean rain rate recorded for the event by each link (*b*) and gauge (*d*).



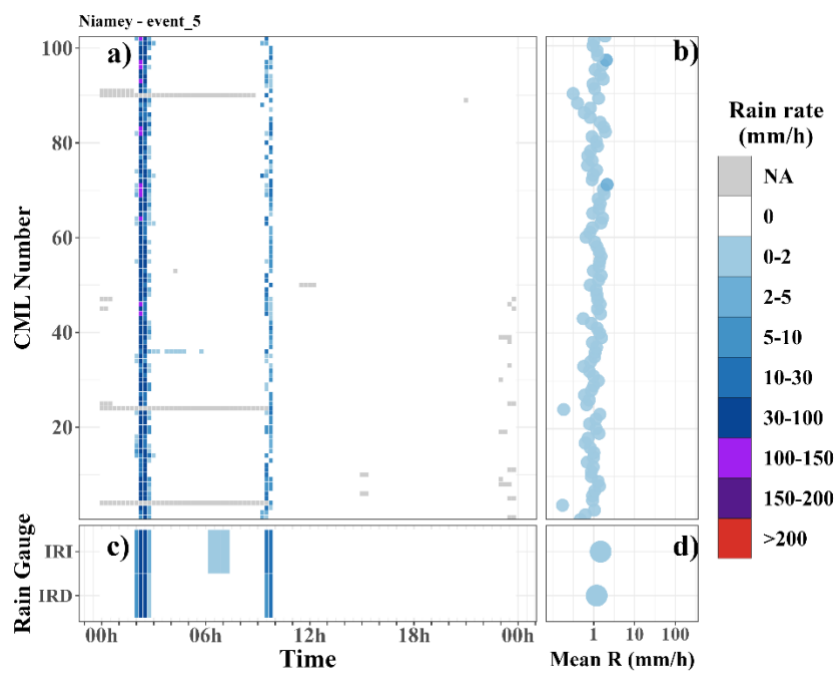
Figures S1



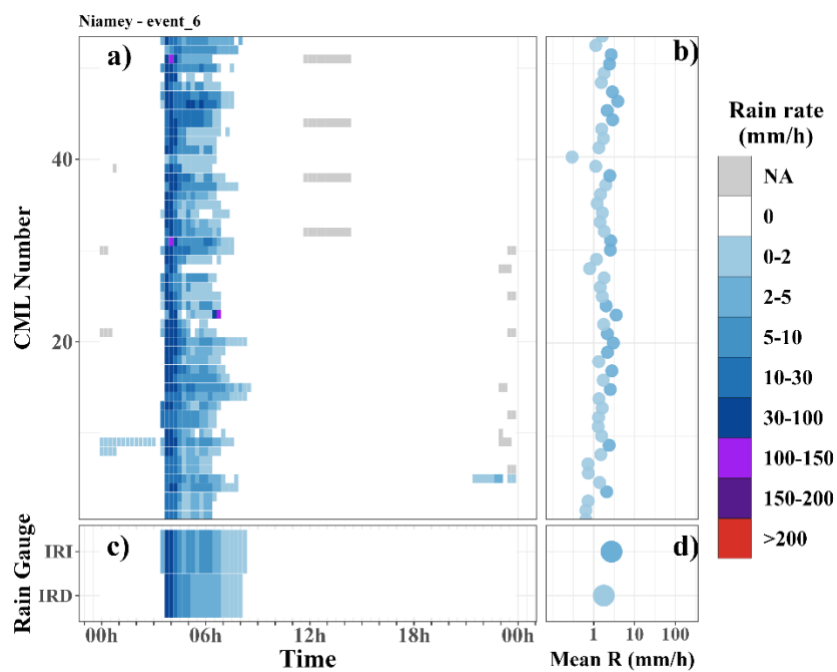
Figures S2



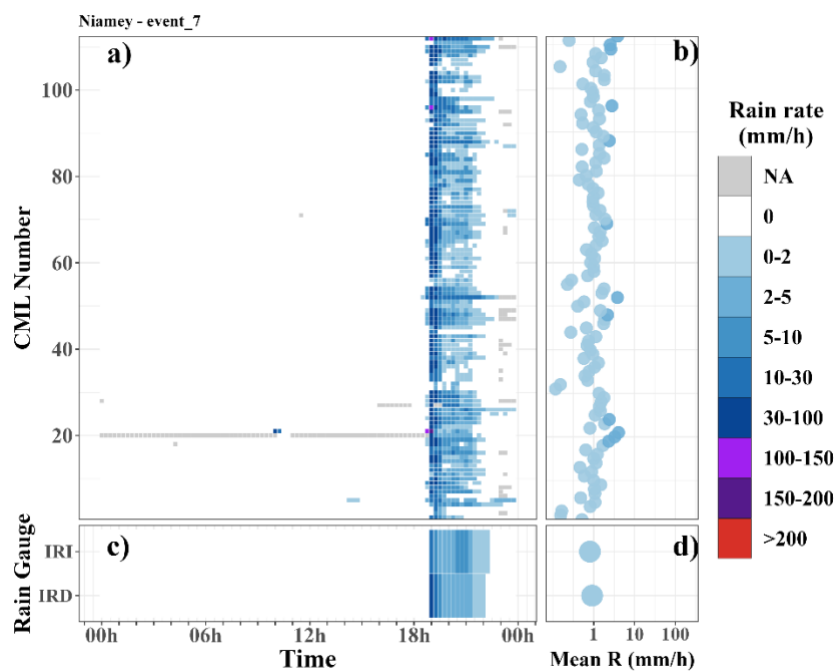
Figures S3



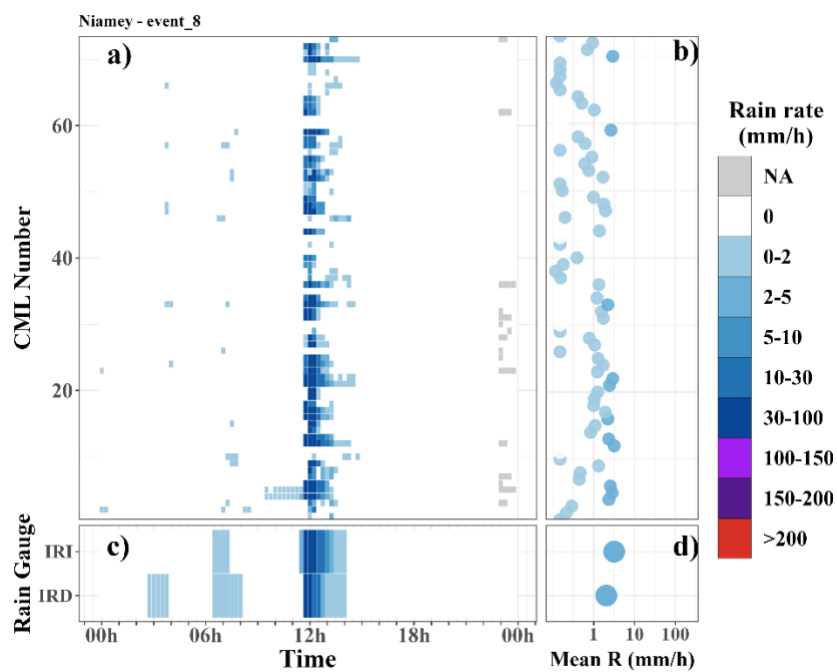
Figures S4



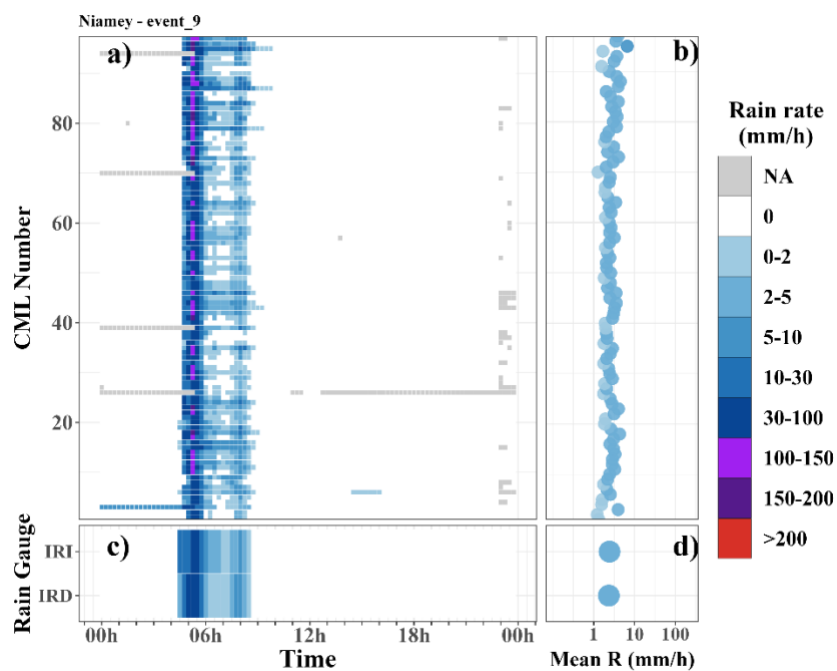
Figures S5



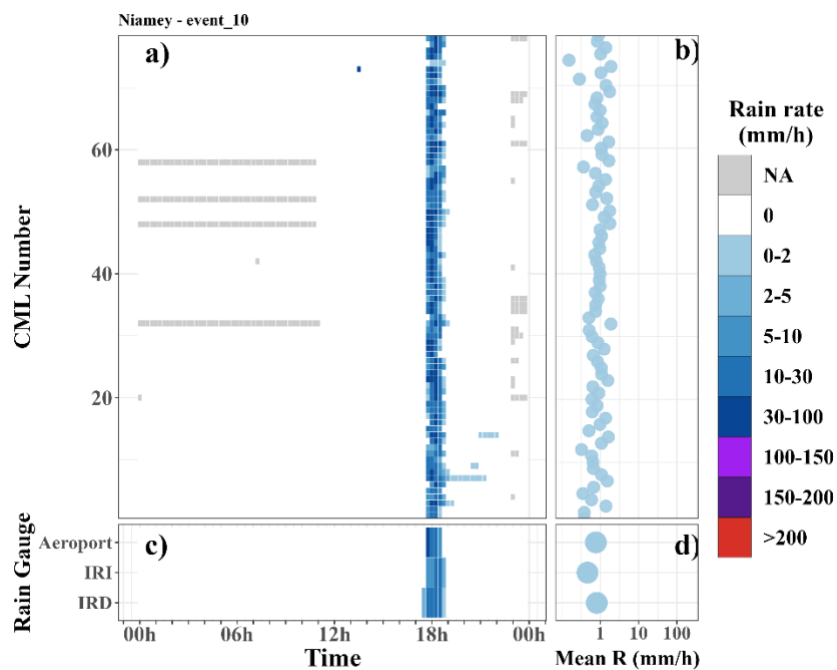
Figures S6



Figures S7



Figures S8



Figures S9

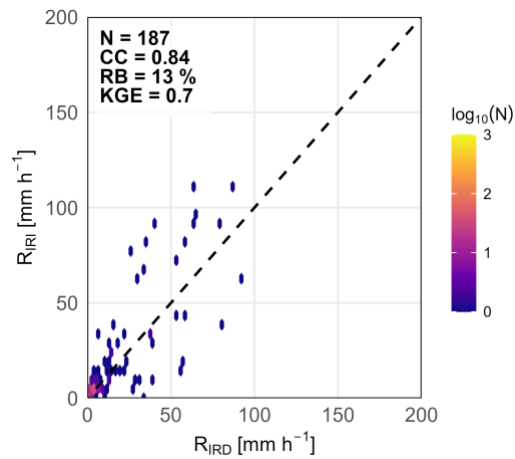


Figure S10 : scatter plot between the rain intensities estimated by the 2 rain gauges IRI and IRD distant less than 3 km apart (see Fig. 1).

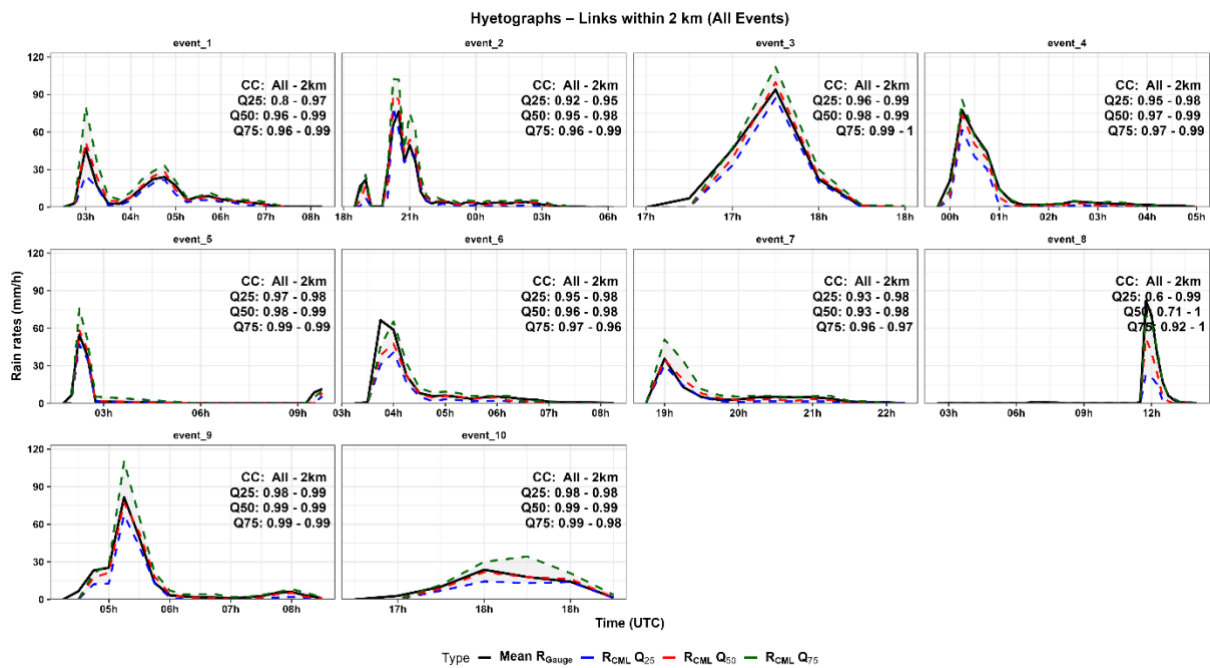


Figure S11 (as Figure 13, for all events): event hyetograph based on the quartile (median=red; 25th=blue; 75th=green) of link estimates, for links situated with 2 km of the gauges and gauge mean (black).

The correlation coefficient between the links quartiles and the gauge mean series are also indicated on each plot, considering all the links or only the links within 2 km.