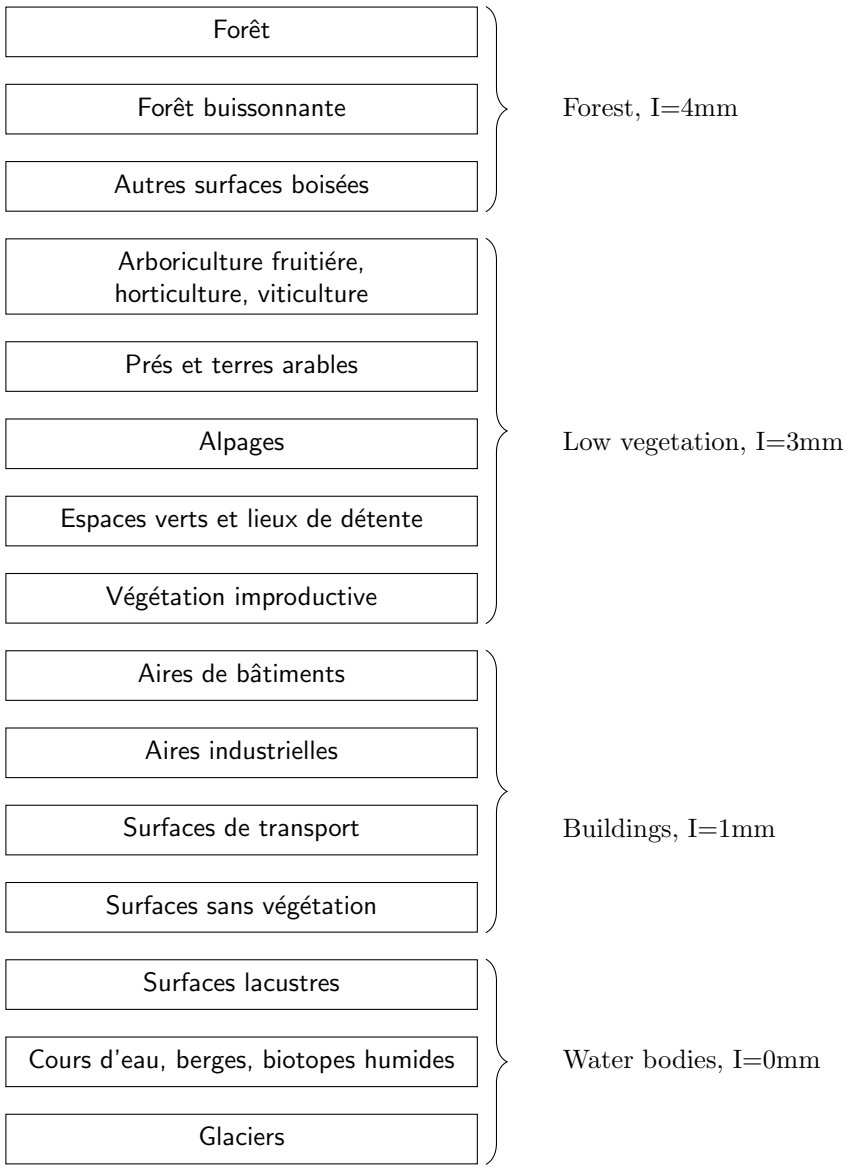


Figure 1: Equivalence between the land use categories proposed by the FOEN and the ones adopted to calculate interception, followed by the value of interception for each category

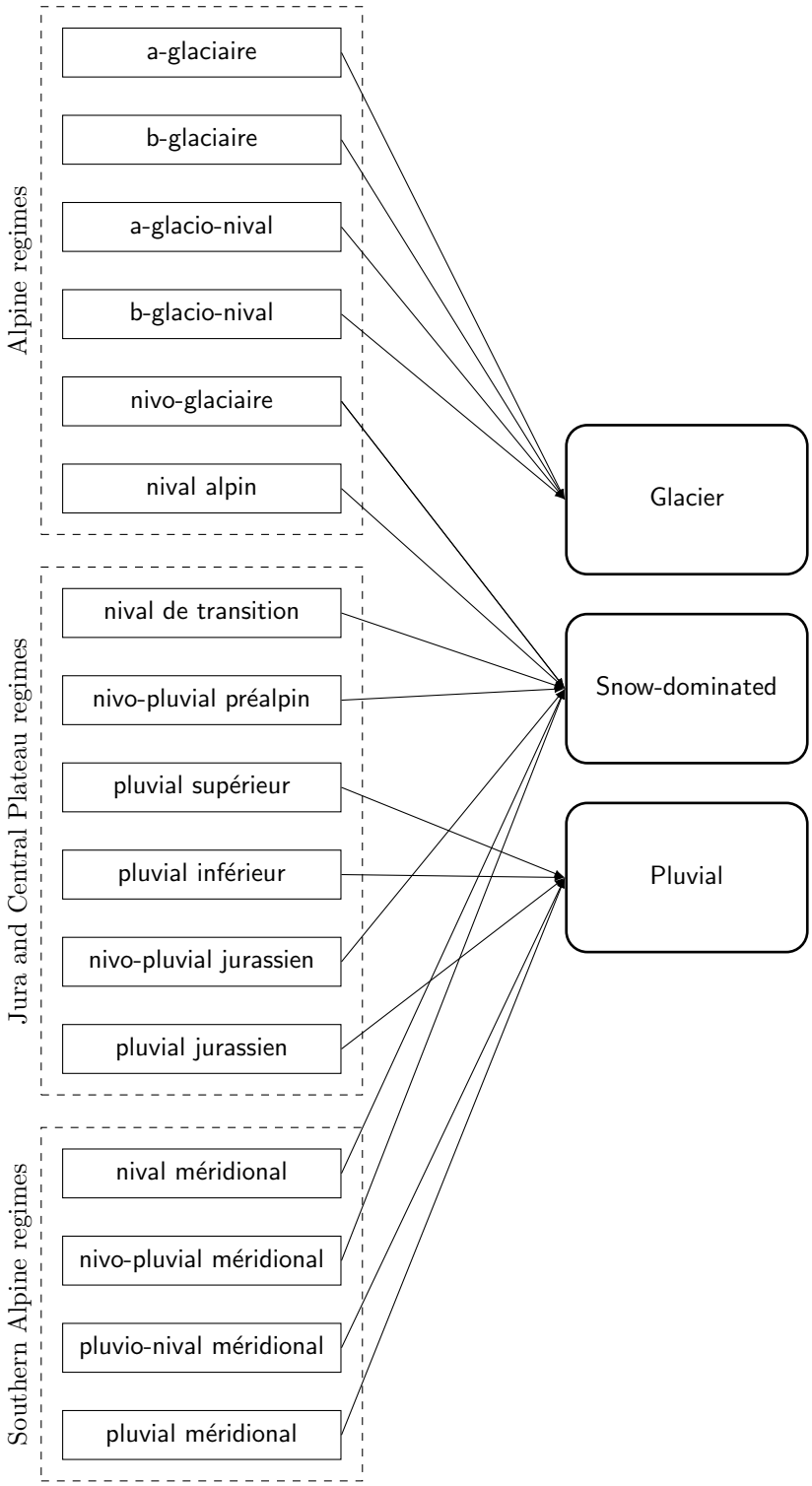
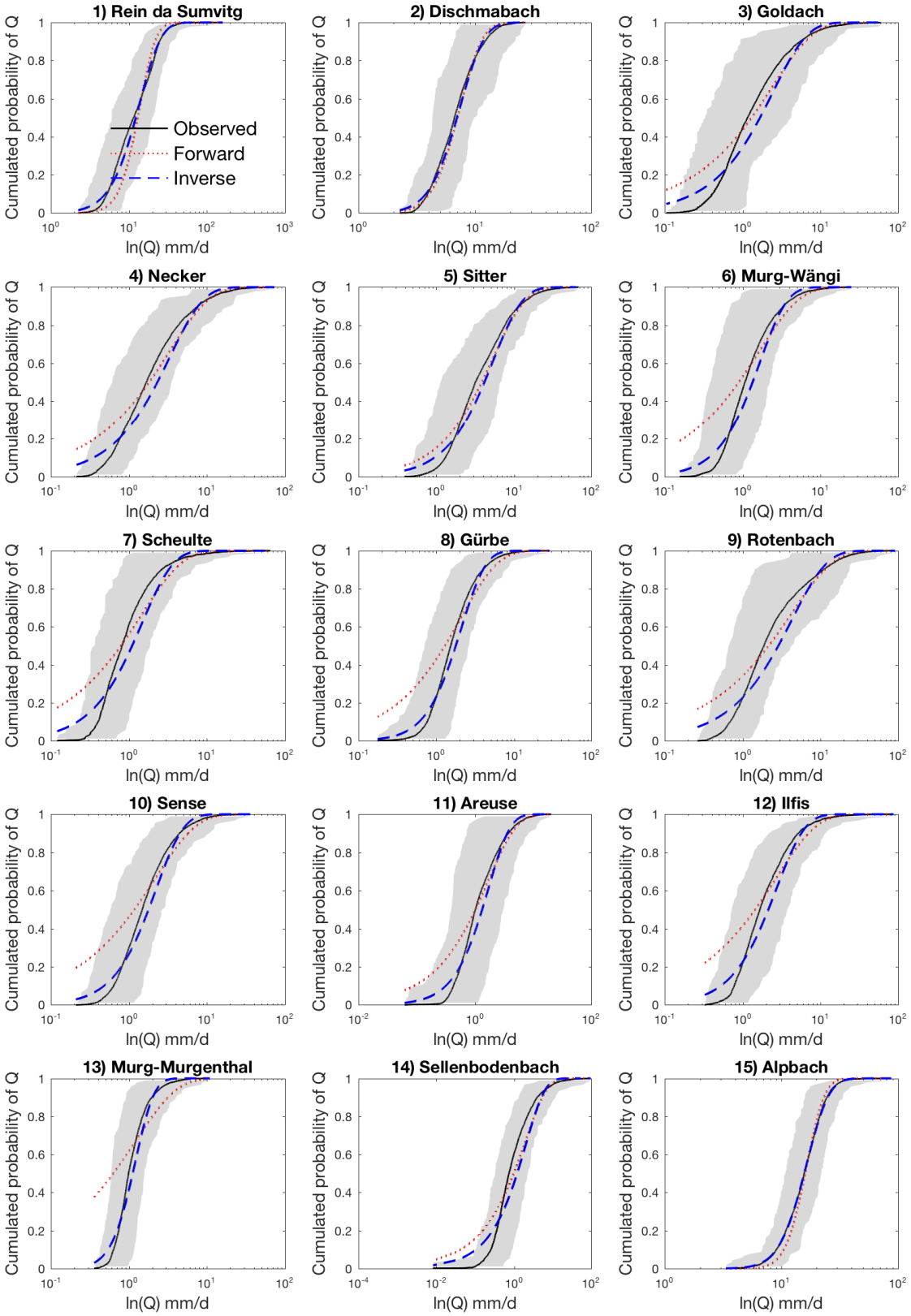
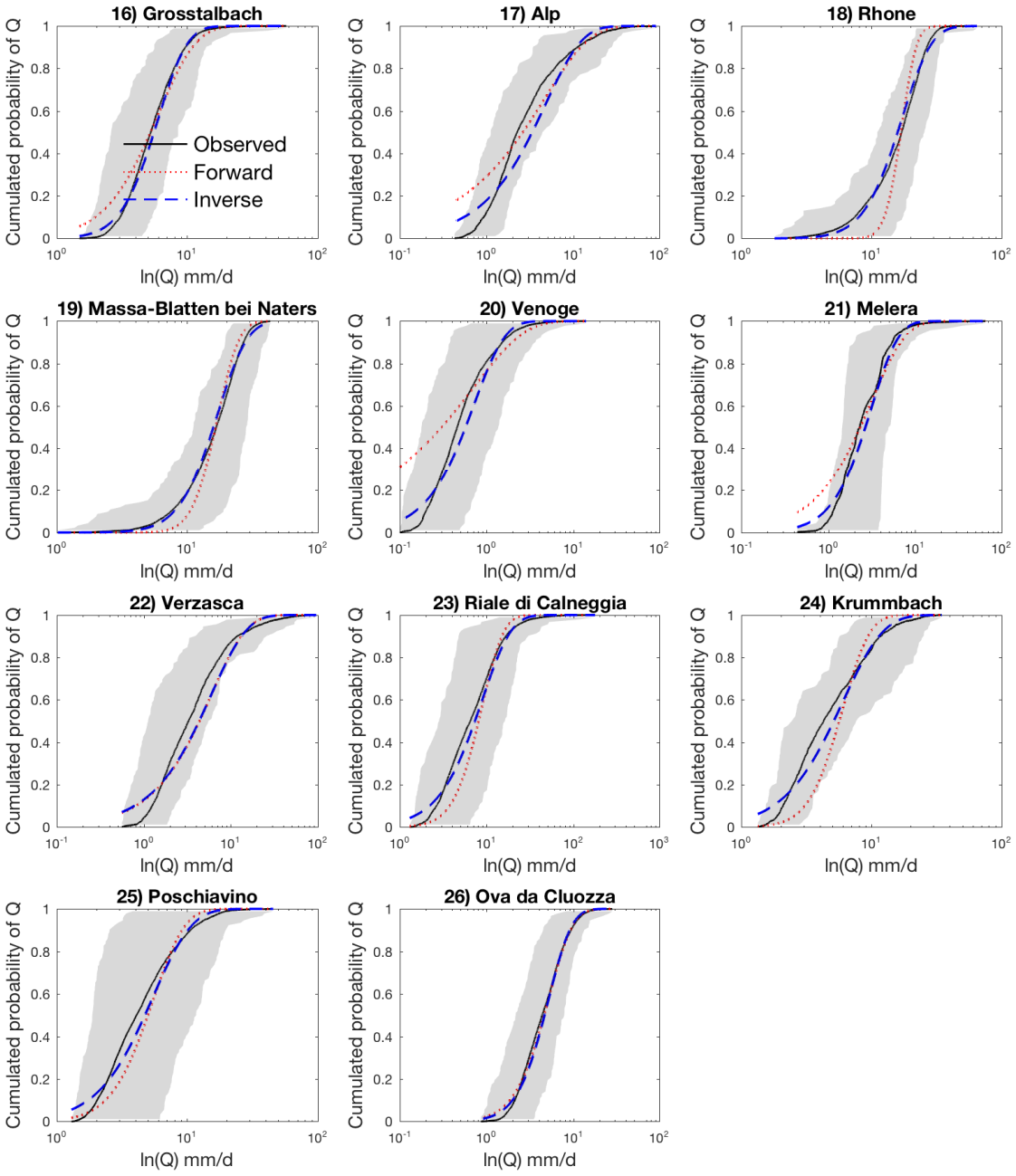


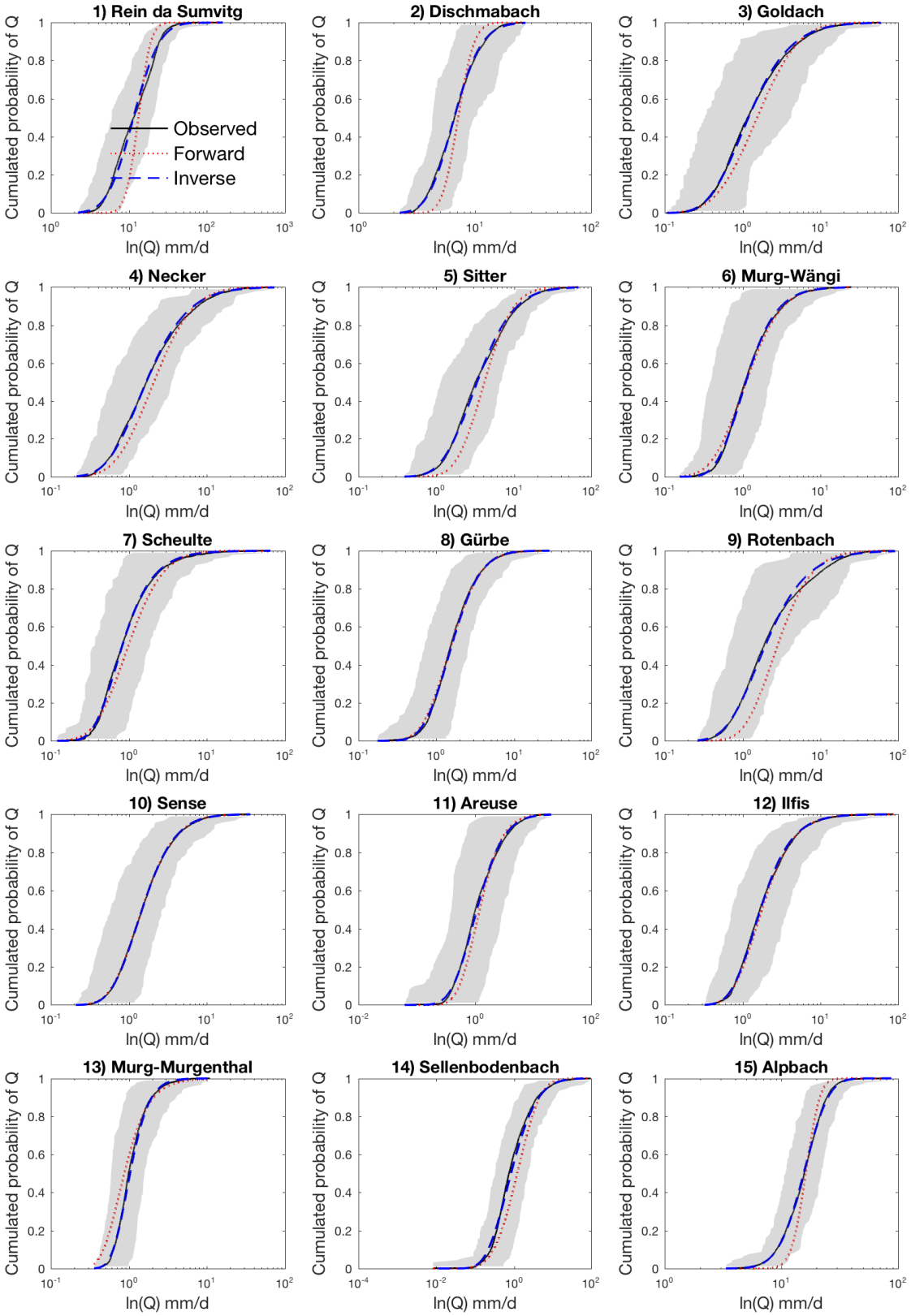
Figure 2: Equivalence between the 16 discharge regimes from the Hydrological Atlas of Switzerland and the simplified classification in 3 types of regimes adopted in this work

Results for all catchments for the linear model




16) Grosstalbach
17) Alp
18) Rhone
19) Massa-Blatten bei Naters
20) Venoge
21) Melera
22) Verzasca
23) Riale di Calneggia
24) Krummbach
25) Poschiavino
26) Ova da Cluozza
Observed
Forward
Inverse
Cumulated probability of Q
ln(Q) mm/d

Results for all catchments for the nonlinear model



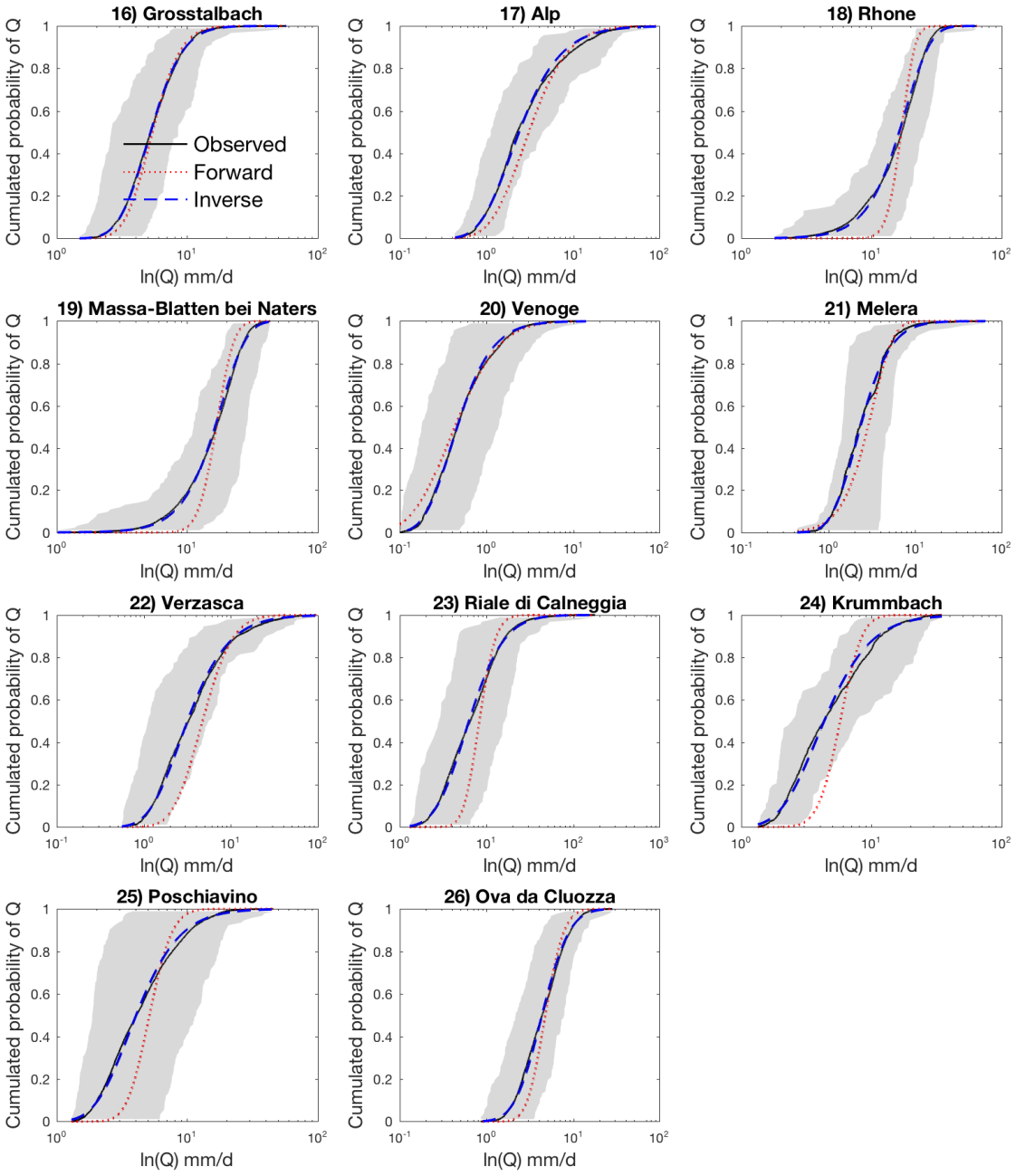

16) Grosstalbach
17) Alp
18) Rhone
19) Massa-Blatten bei Naters
20) Venoge
21) Melera
22) Verzasca
23) Riale di Calneggia
24) Krummbach
25) Poschiavino
26) Ova da Cluozza
Cumulated probability of Q
ln(Q) mm/d
Observed
Forward
Inverse

Table 1: Sources of the data used in this work

Type of data	All catchments	Source
Daily discharge	All catchments	FOEN (on demand)
Daily precipitation	All catchments	MeteoSwiss (Rhires D)
Daily temperature	All catchments	MeteoSwiss (Tabs D)
Elevations of catchments	All catchments	FOEN (www.hydrodaten.admin.ch)
Land use	Study areas	Aschwanden, 1996
	Other catchments	FSO, 2015
Regimes	Study areas	Aschwanden, 1996
	Other catchments	FOEN (map.geo.admin.ch)