Appendix

Distribution of the 24-hour and 48-hour accumulated total precipitation fields for 2009070100 (Fig.2 (a,b,c,d,e))
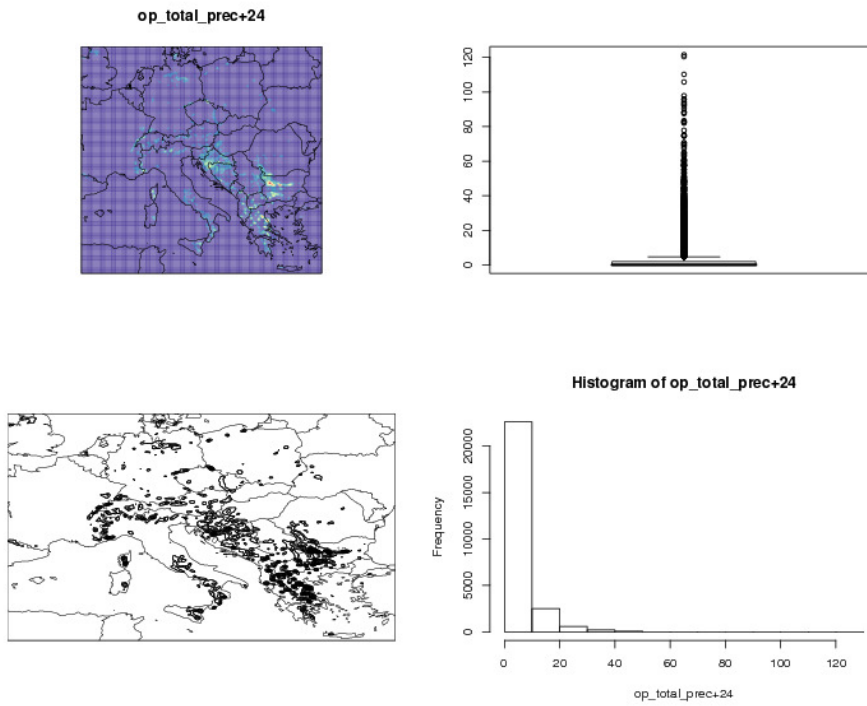

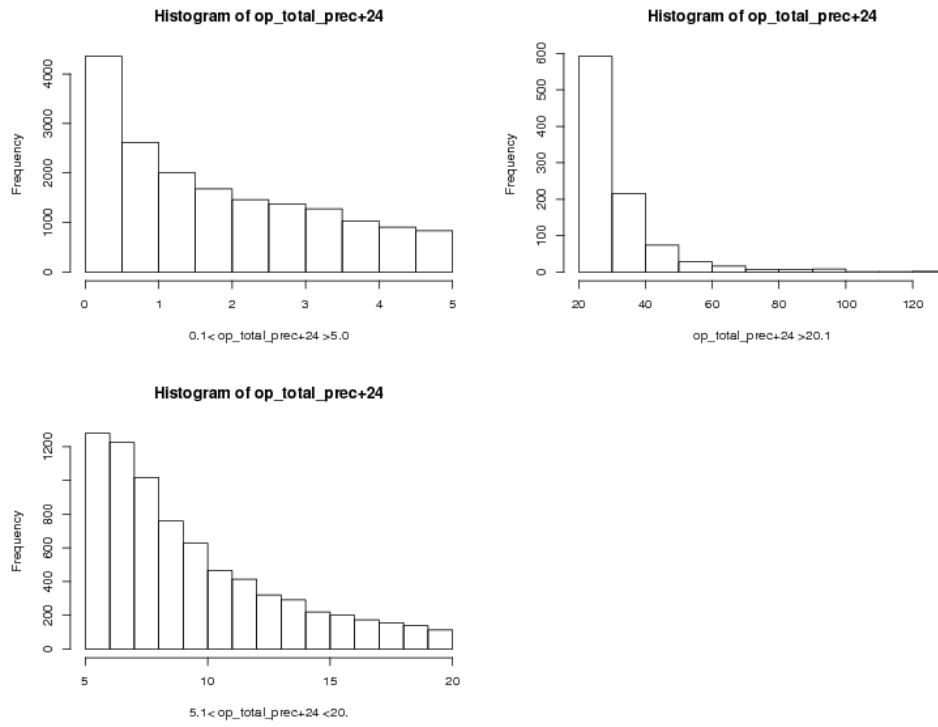Fig.2 (a) . Same as Fig.1 (a) but for 2009070100

Fig.2 (b) . Same as Fig.1 (b) but for 2009070100
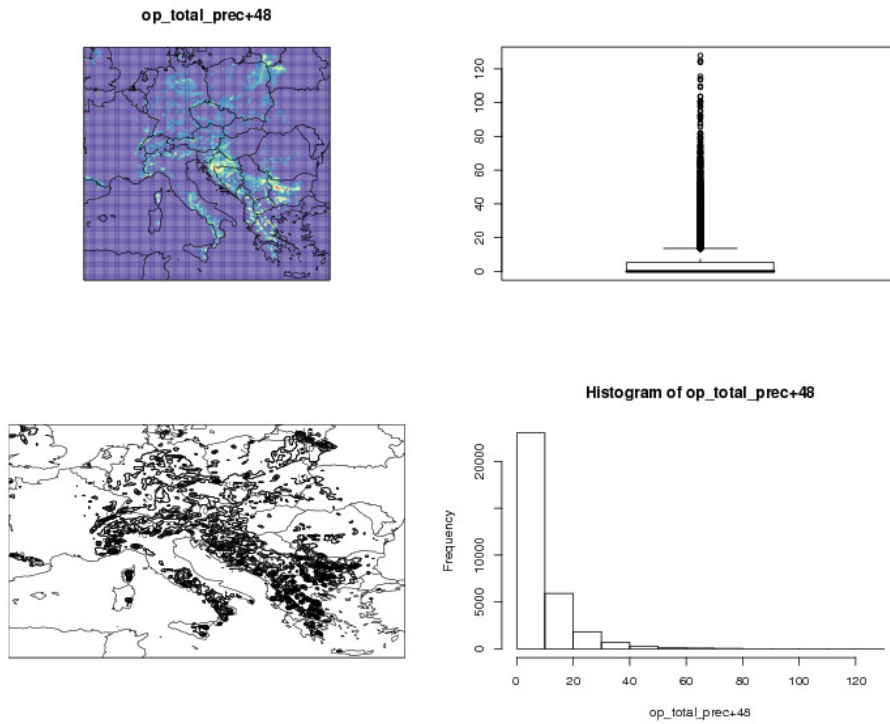

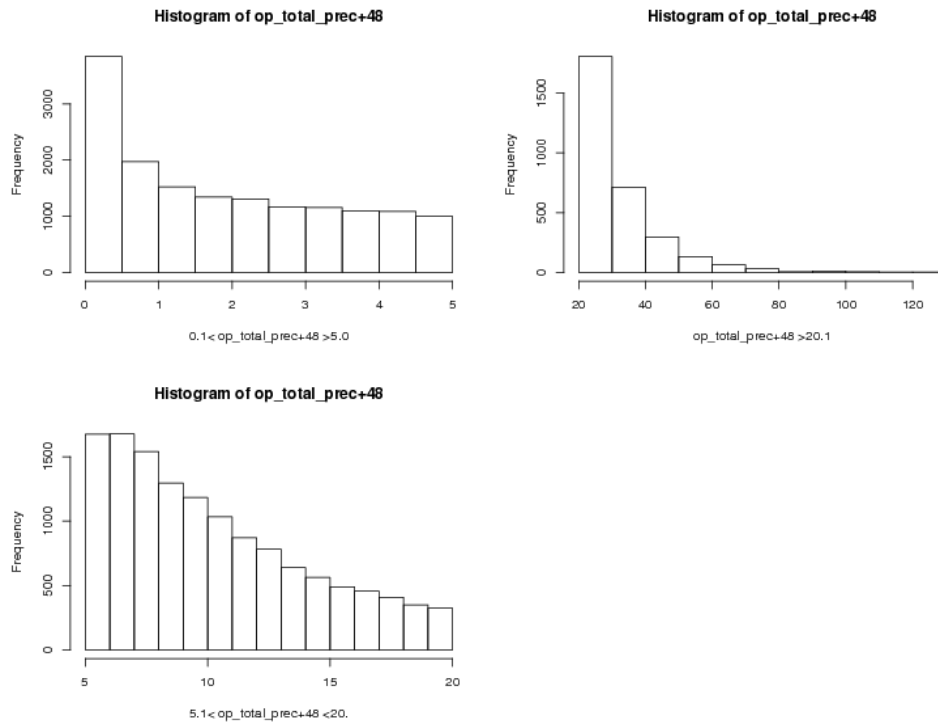Fig.2 (c) as Fig.1 (c) but for 2009070100

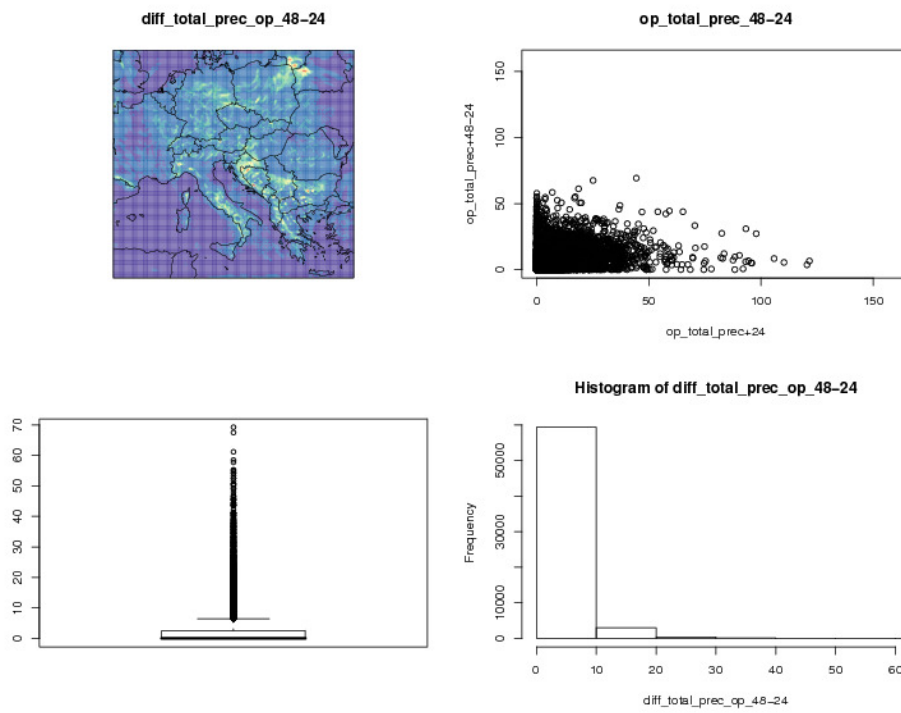Fig.2 (d) . Same as Fig.1 (d) but for 2009070100

Fig.2 (e) . Same as Fig.1 (e) but for 2009070100

Distribution of the 3-hour and 6-hour accumulated total precipitation fields for 2009070100 (Fig.5 (a,b,c,d,e))
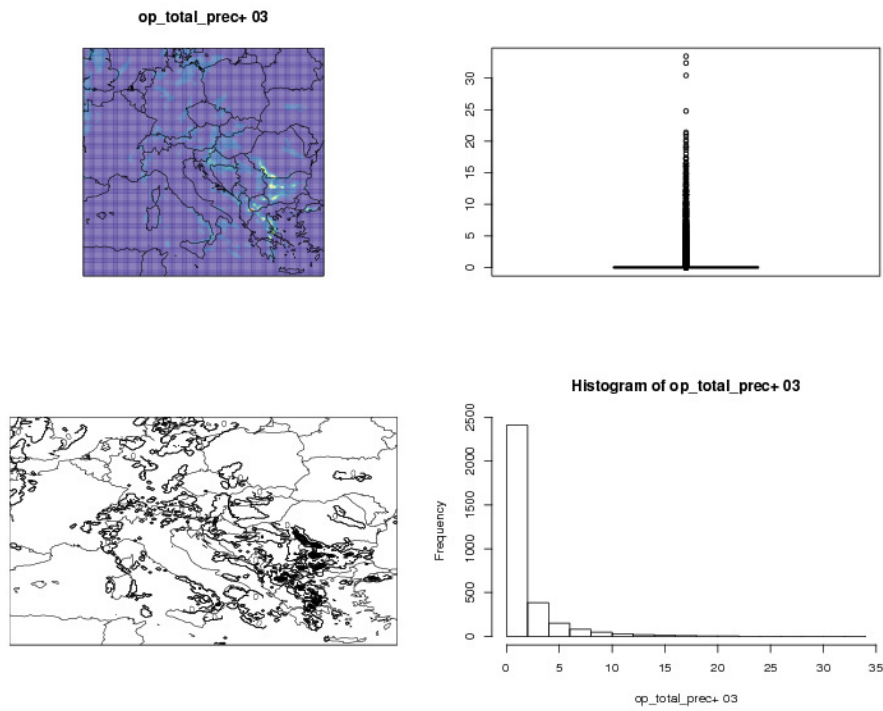

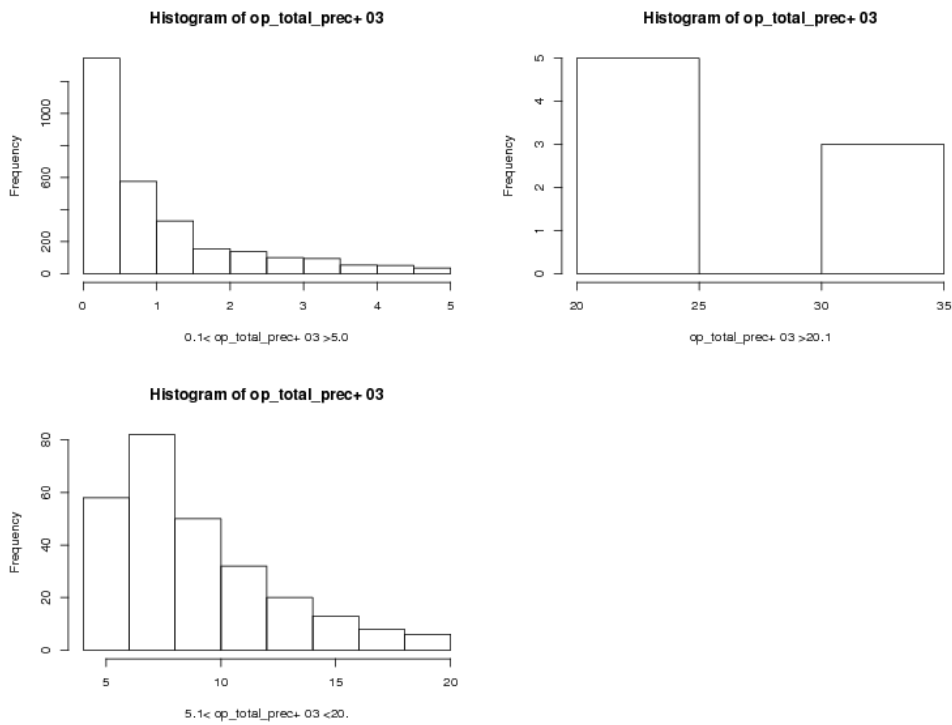Fig. 5 (a) Same as Fig.4 (a) but for 2009070100
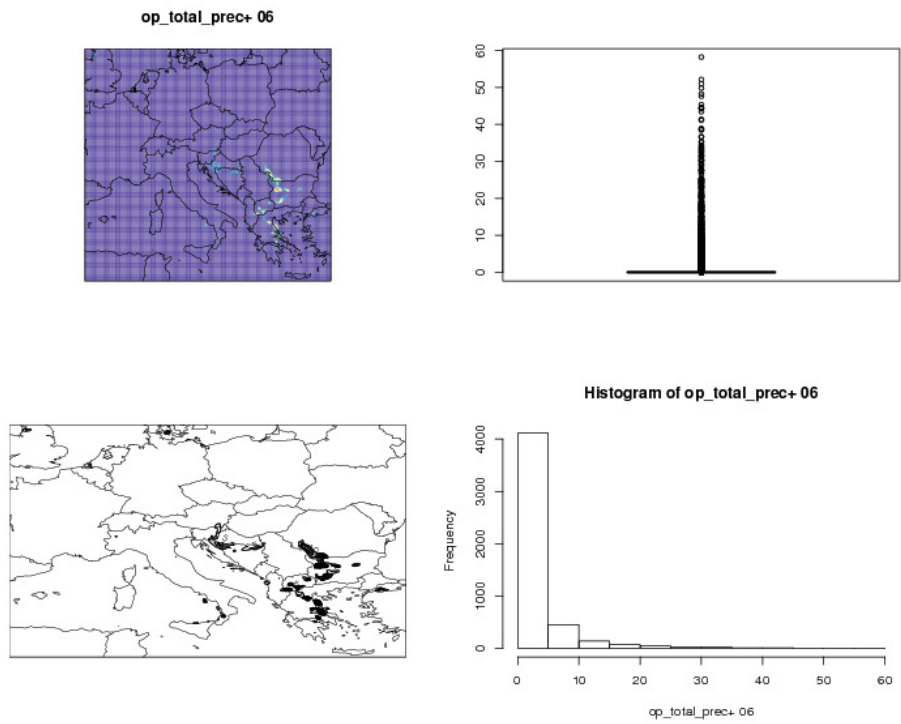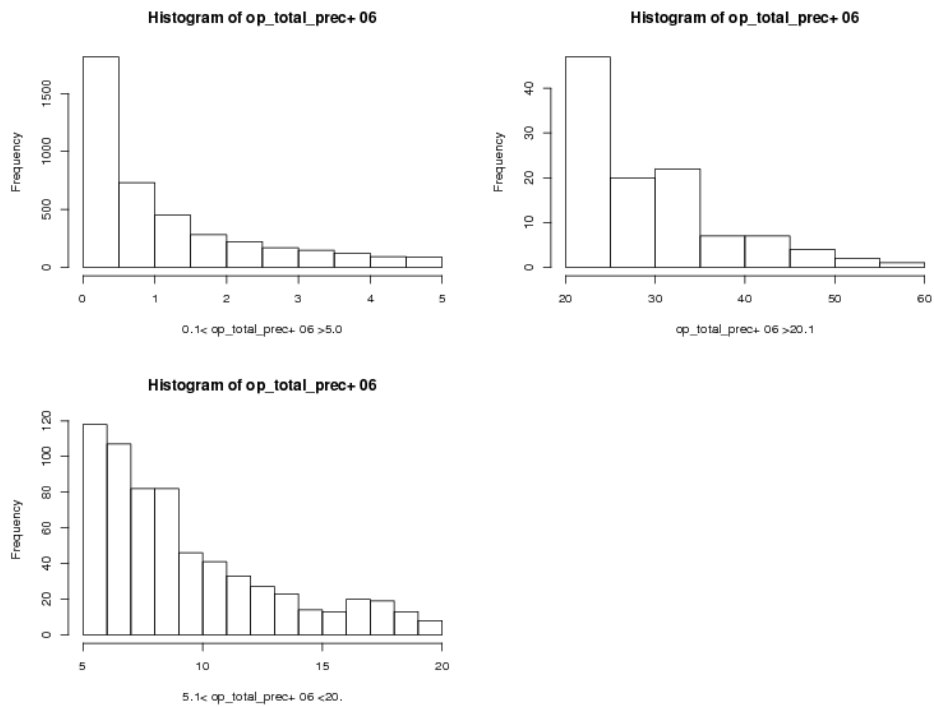

Fig.5 (b) Same as Fig.4 (b) but for 2009070100

op_total_prec+ 06

Histogram of op_total_prec+ 06

Fig. 5 (c) Same as Fig.4 (c) but for 2009070100

Histogram of op_total_prec+ 06

Histogram of op_total_prec+ 06

Histogram of op_total_prec+ 06

Fig. 5 (d) Same as Fig.4 (d) but for 2009070100

diff_total_prec_op _ 06 − 03
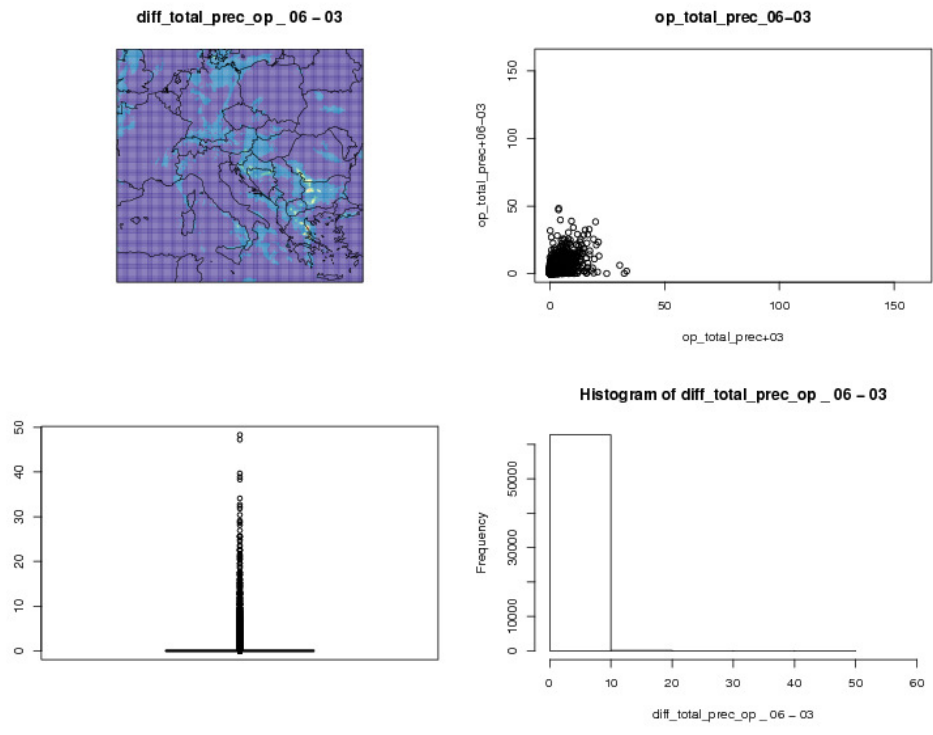
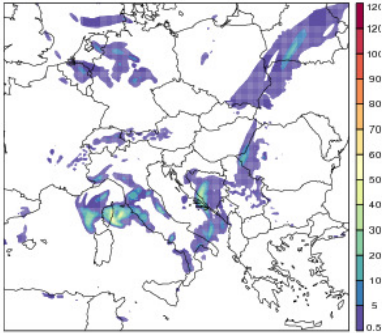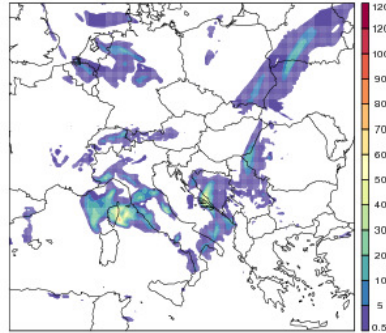op_total_prec_06−03

Histogram of diff_total_prec_op _ 06 − 03

Fig. 5 (e) Same as Fig.4 (e) but for 2009070100

Distribution of every 3-hour accumulated total precipitation fields for 2009062100 (Fig.7)
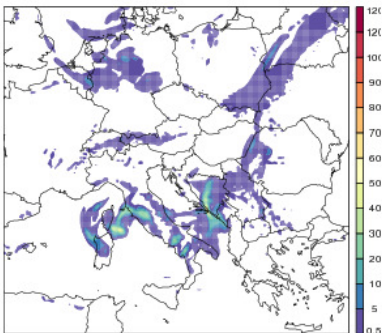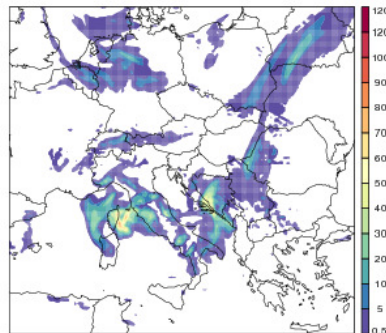
total precip 3h 2009/6/21 z0:0 +6h
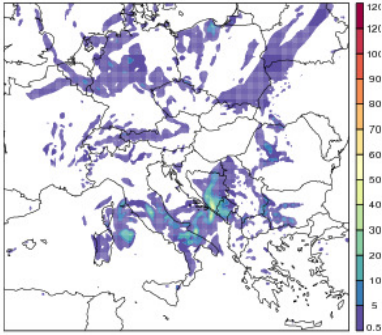
total precip
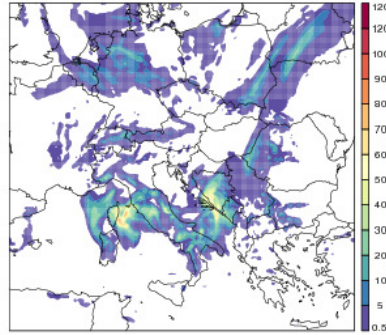2009/6/21 z0:0 +6h

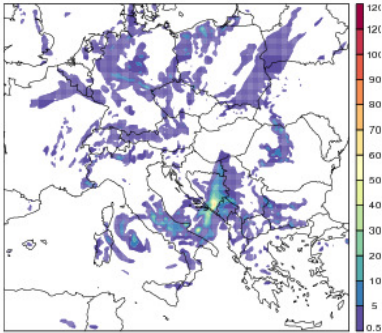total precip 3h 2009/6/21 z0:0 +9h

total precip
2009/6/21 z0:0 +9h
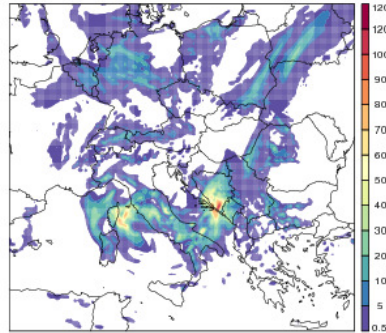
total precip 3h 2009/6/21 z0:0 +12h

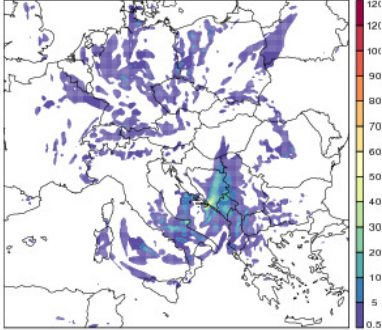total precip
2009/6/21 z0:0 +12h

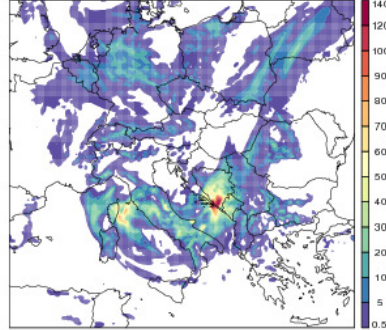total precip 3h 2009/6/21 z0:0 +15h
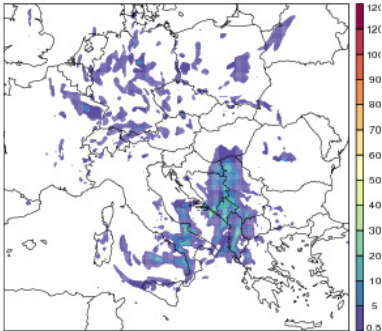
total precip
2009/6/21 z0:0 +15h
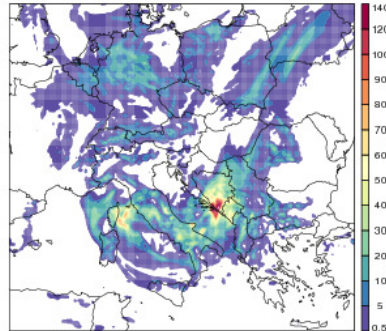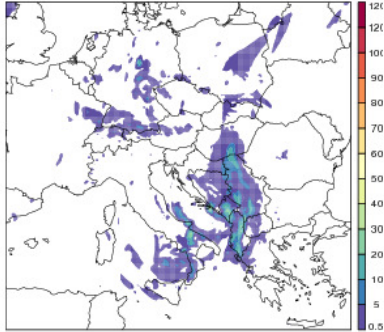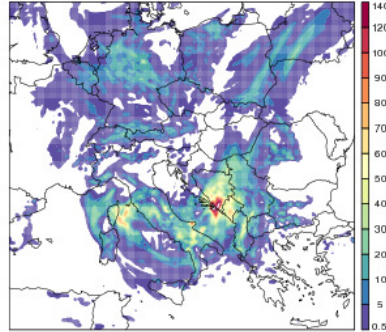
total precip 3h 2009/6/21 z0:0 +18h

total precip
2009/6/21 z0:0 +18h

total precip 3h 2009/6/21 z0:0 +21h

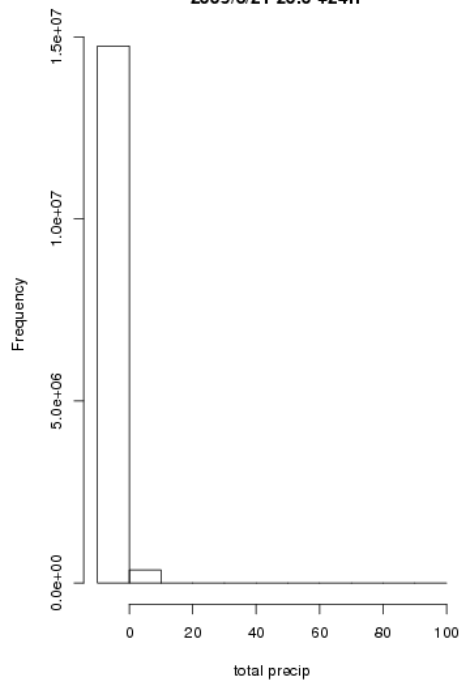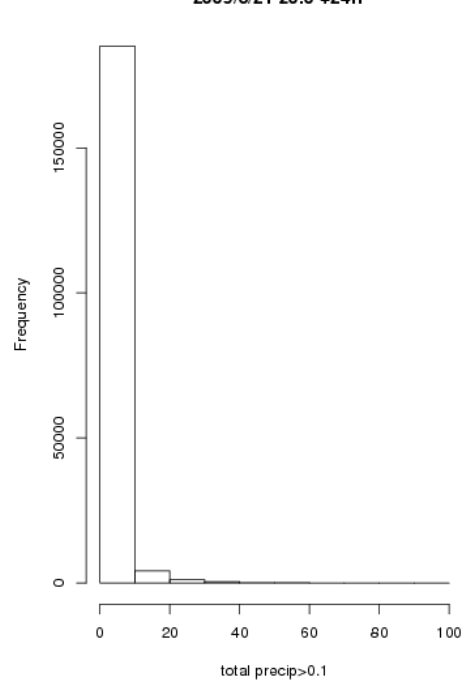total precip
2009/6/21 z0:0 +21h

total precip 3h 2009/6/21 z0:0 +24h

total precip
2009/6/21 z0:0 +24h

Histogram of total precip
2009/6/21 z0:0 +24h

total precip

Histogram of total precip
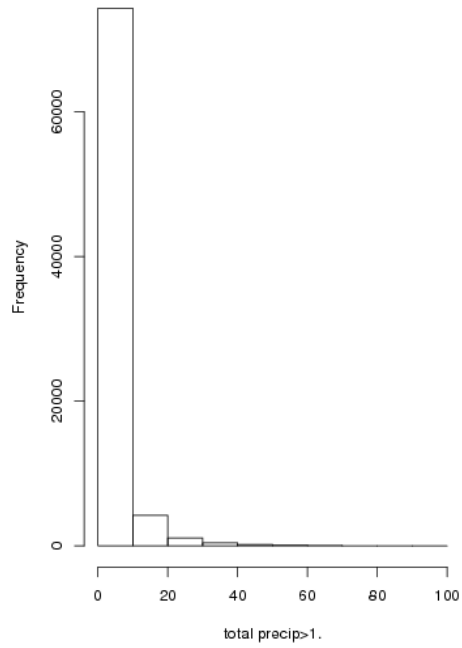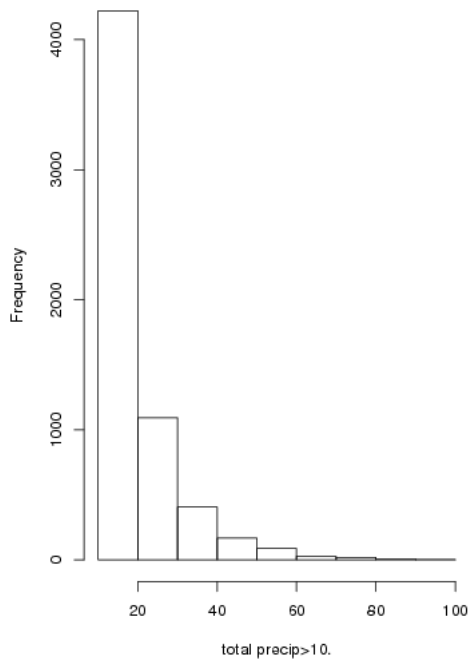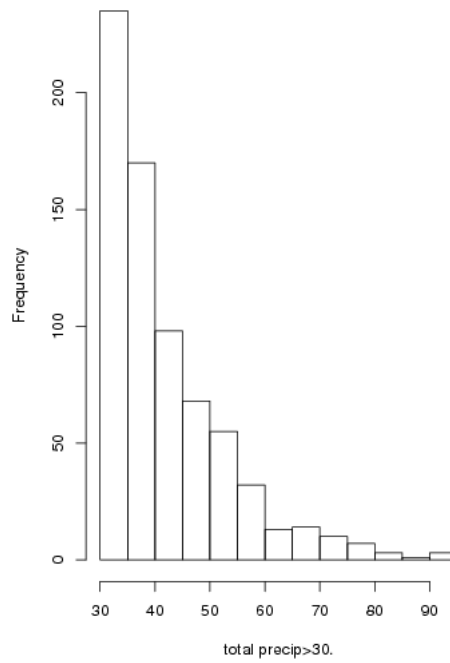## 2009/6/21 z0:0 +24h

total precip>0.1

Histogram of total precip
2009/6/21 z0:0 +24h

Histogram of total precip
2009/6/21 z0:0 +24h
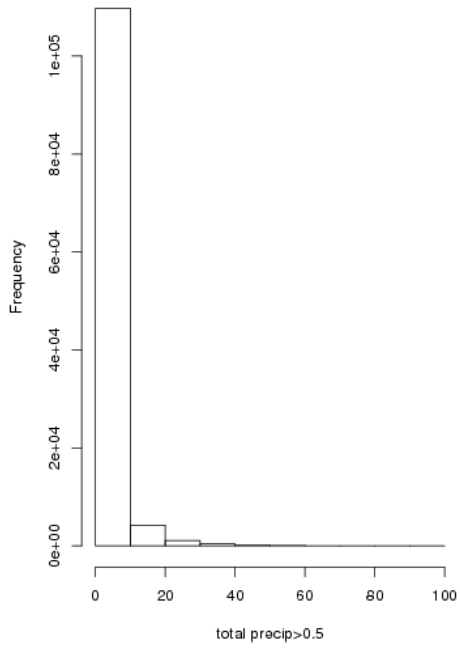
**Histogram of total precip**
2009/6/21 z0:0 +24h

Histogram of total precip
2009/6/21 z0:0 +24h

total precip>0.5

total precip>1.

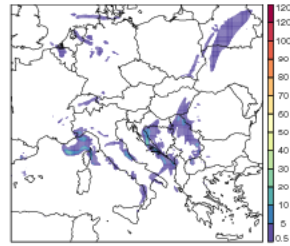total precip>10.

total precip>30.

Differences between the 1hour accumulated total precipitations for the first 6 hour forecasts obtained from the operational and cycling model runs for 2009062100 (Fig.10a)
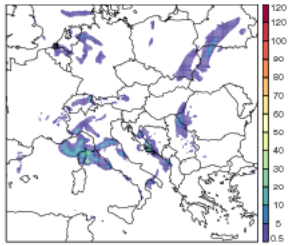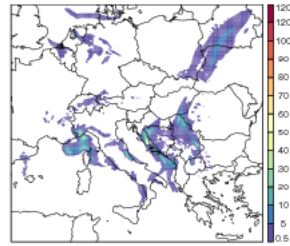

total precip op 1h
2009/6/21 z0:0 +2h

total precip cy 1h
2009/6/21 z0:0 +2h

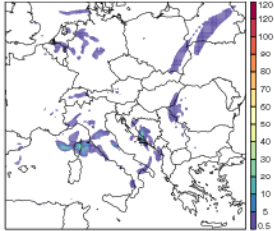total precip op
2009/6/21 z0:0 +2h

total precip cy
2009/6/21 z0:0 +2h
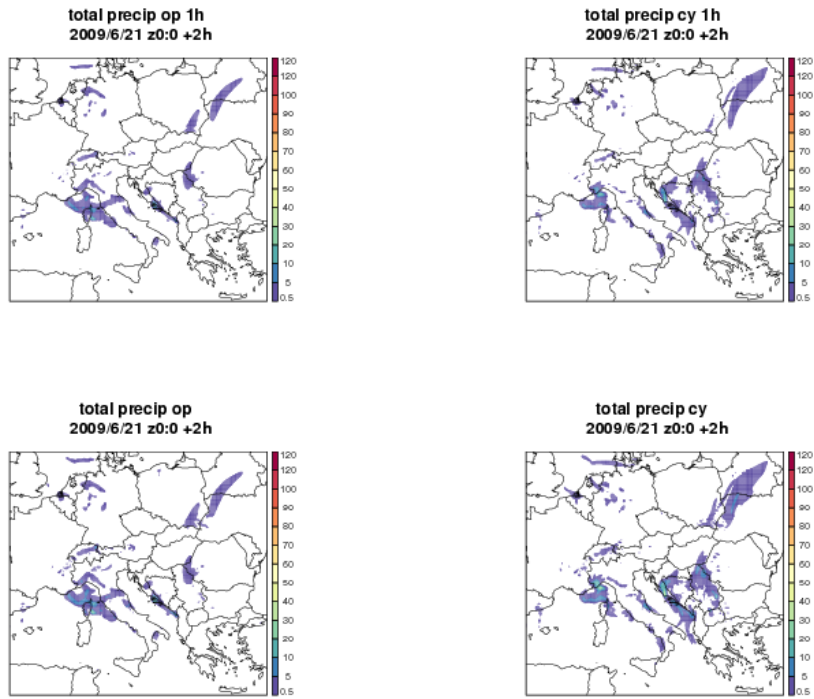
total precip op 1h
2009/6/21 z0:0 +3h
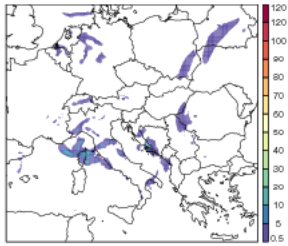
total precip cy 1h
2009/6/21 z0:0 +3h

total precip op
2009/6/21 z0:0 +3h
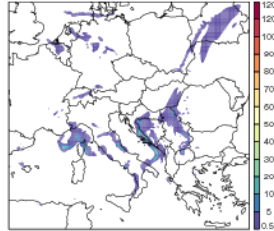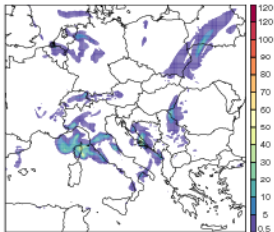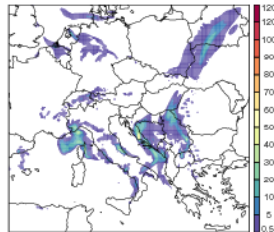
total precip cy
2009/6/21 z0:0 +3h

total precip op 1h
2009/6/21 z0:0 +4h

total precip cy 1h
2009/6/21 z0:0 +4h
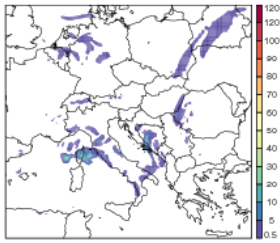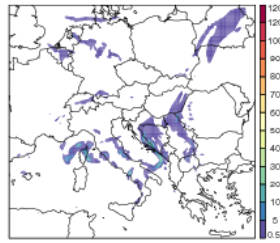
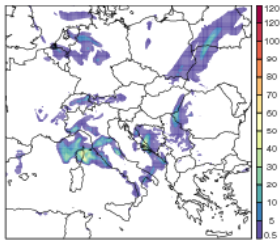total precip op
2009/6/21 z0:0 +4h

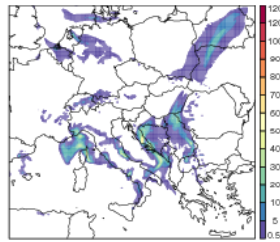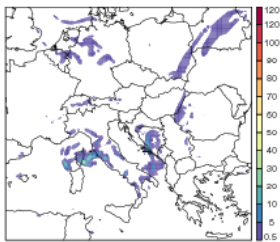total precip cy
2009/6/21 z0:0 +4h

total precip op 1h
2009/6/21 z0:0 +5h

total precip cy 1h
2009/6/21 z0:0 +5h

total precip op
2009/6/21 z0:0 +5h
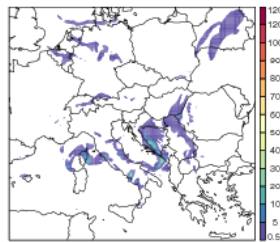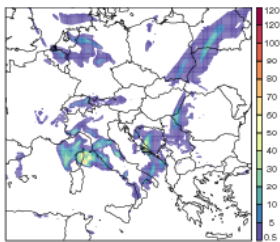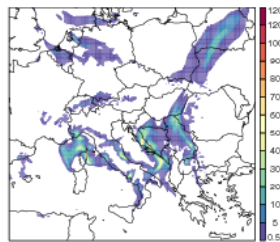
total precip cy
2009/6/21 z0:0 +5h

total precip op 1h
2009/6/21 z0:0 +6h

total precip cy 1h
2009/6/21 z0:0 +6h

total precip op
2009/6/21 z0:0 +6h

total precip cy
2009/6/21 z0:0 +6h

total precip op
2009/6/21 z0:0 +6h

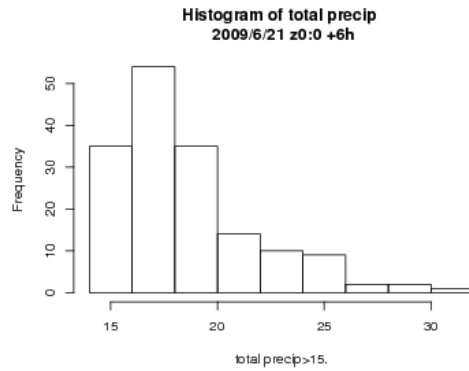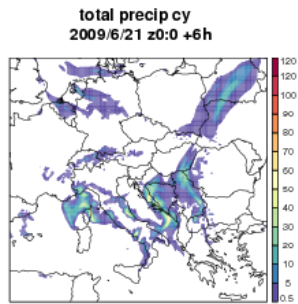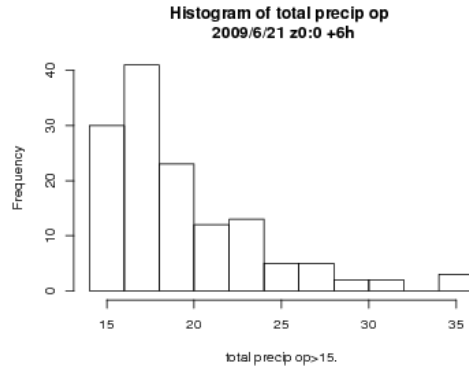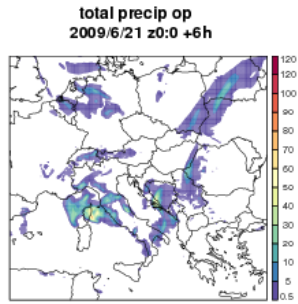Histogram of total precip op
2009/6/21 z0:0 +6h

total precip cy
2009/6/21 z0:0 +6h

Histogram of total precip
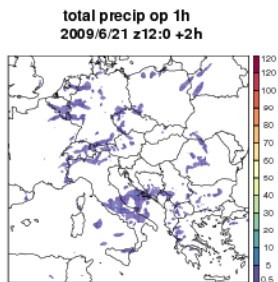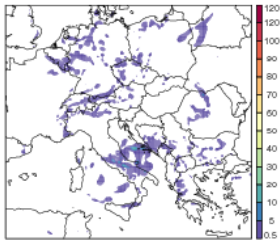2009/6/21 z0:0 +6h

Differences between the 1hour accumulated total precipitations for the first 6 hour forecasts obtained from the operational and cycling model runs for 2009062112 (Fig.11a)
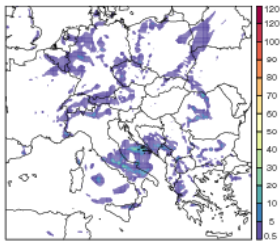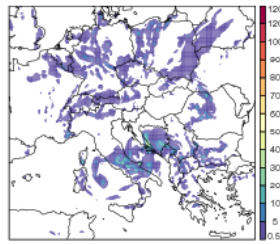
total precip op 1h
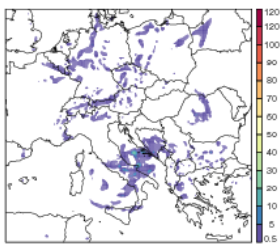2009/6/21 z12:0 +2h

total precip cy 1h
2009/6/21 z12:0 +2h

total precip op
2009/6/21 z12:0 +2h

total precip cy
2009/6/21 z12:0 +2h
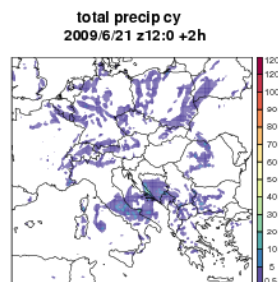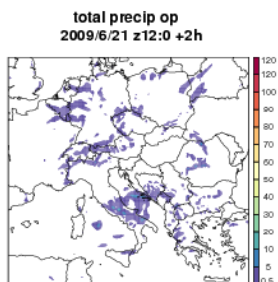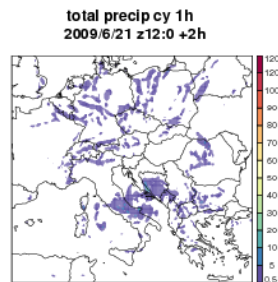
total precip op 1h
2009/6/21 z12:0 +3h

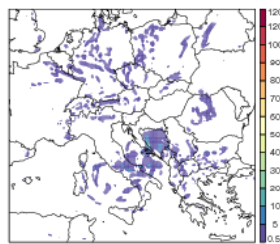total precip cy 1h
2009/6/21 z12:0 +3h
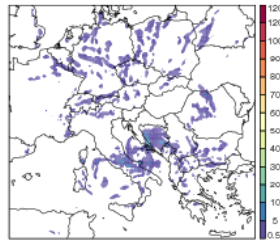
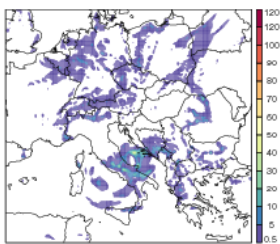total precip op
2009/6/21 z12:0 +3h

total precip cy
2009/6/21 z12:0 +3h

total precip op 1h
2009/6/21 z12:0 +4h
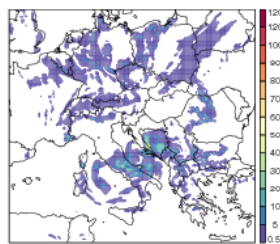
total precip cy 1h
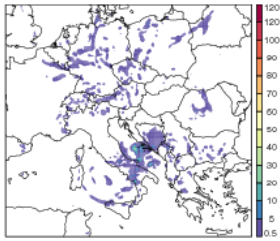2009/6/21 z12:0 +4h

total precip op
2009/6/21 z12:0 +4h

total precip cy
2009/6/21 z12:0 +4h

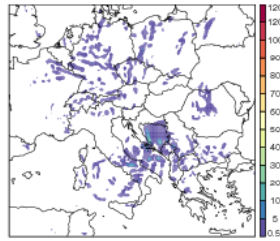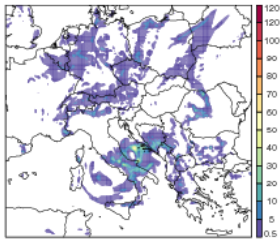total precip op 1h
2009/6/21 z12:0 +5h
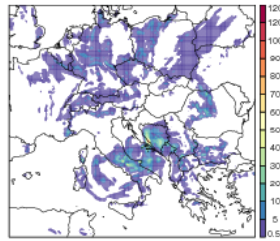
total precip cy 1h
2009/6/21 z12:0 +5h

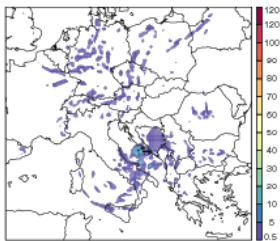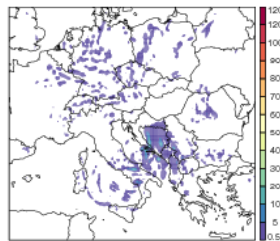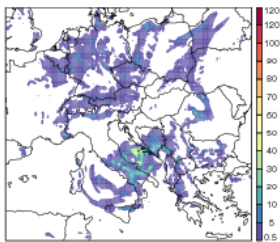total precip op
2009/6/21 z12:0 +5h

total precip cy
2009/6/21 z12:0 +5h

total precip op 1h
2009/6/21 z12:0 +6h
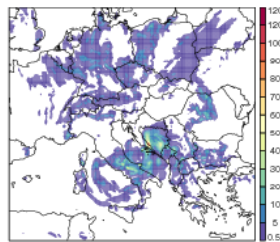
total precip cy 1h
2009/6/21 z12:0 +6h
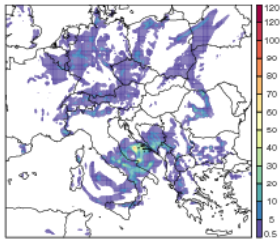
total precip op
2009/6/21 z12:0 +6h
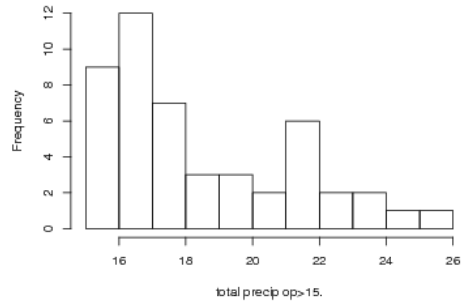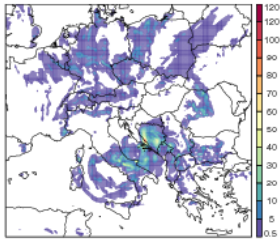
total precip cy
2009/6/21 z12:0 +6h

total precip op
2009/6/21 z12:0 +6h

Histogram of total precip op
2009/6/21 z12:0 +6h

total precip cy
2009/6/21 z12:0 +6h

Histogram of total precip
2009/6/21 z12:0 +6h