

Figure 1: Root mean square error as described in equation (9) of the accumulated total diabatic tendencies of temperature (*top*), specific humidity (*center*) and cloud water content (*bottom*).

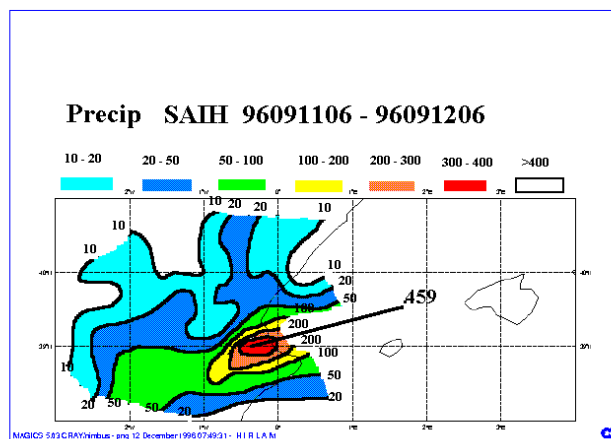
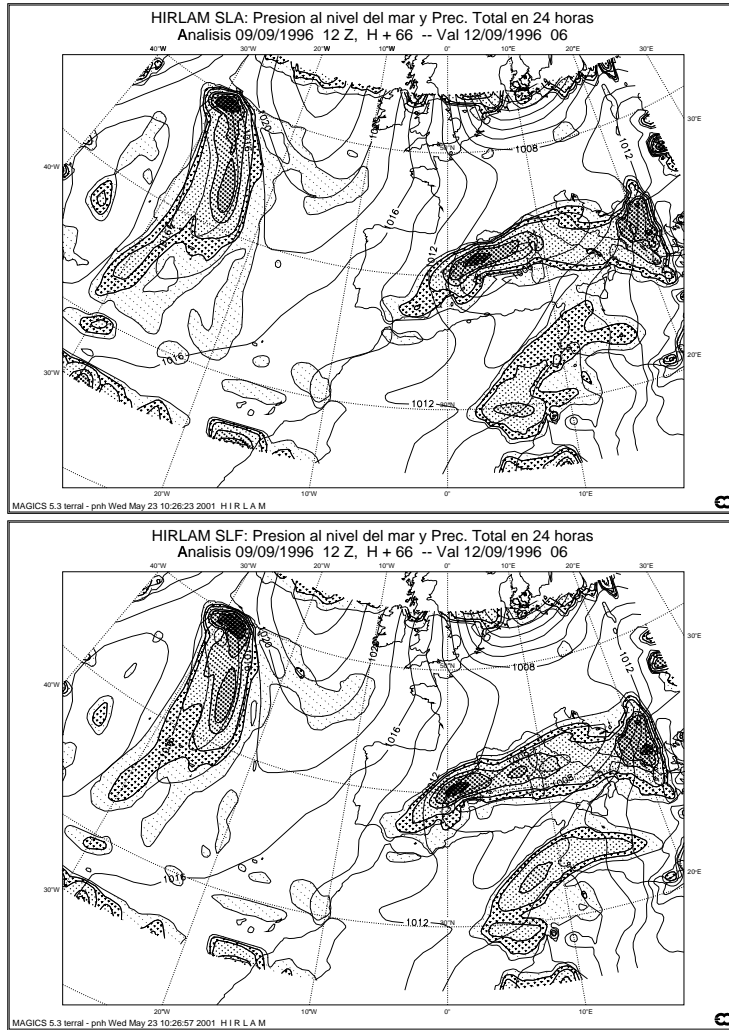


Figure 2: Mean sea level pressure and 24-hour precipitation at 66-h forecast corresponding to experiments SLA (top) and SLF (center) and subjective precipitation analysis with data from automatic station network (bottom).