

REGIONAL FFG TRAINING WORKSHOP

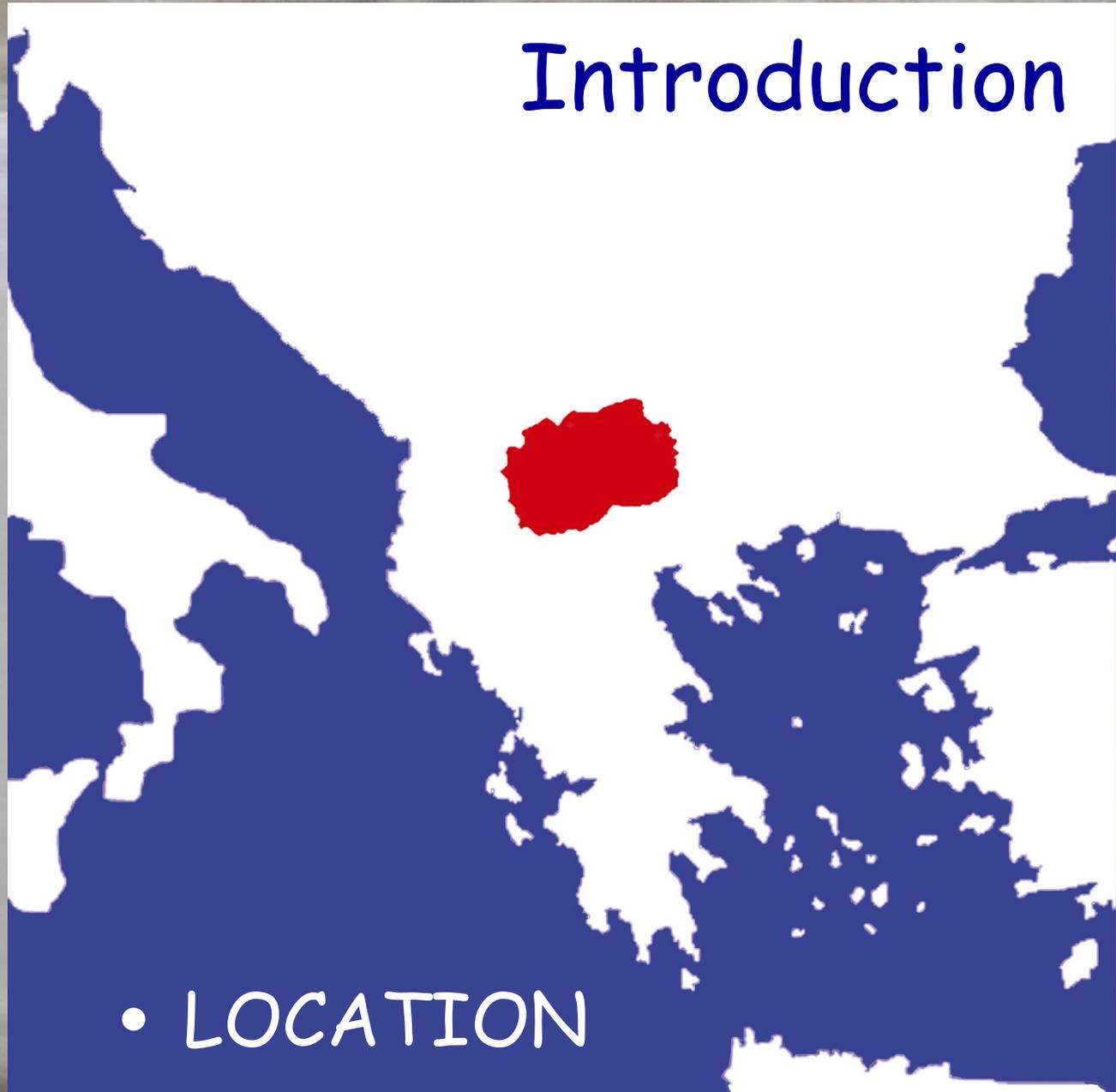
08-13 May 2016, Zagreb, CROATIA

OPERATIONAL FLOOD FORECASTING AND EARLY WARNINGS IN THE REPUBLIC OF MACEDONIA



Vasko STOJOV (vasko@meteo.gov.mk)
HYDROMETEOROLOGICAL SERVICE – MACEDONIA

Introduction

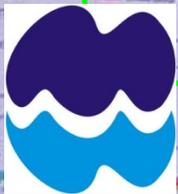


- LOCATION



Situation on the field

- Hydrographical Map
- Most flooded areas map
- Meteorological Stations
- Hydrological Stations

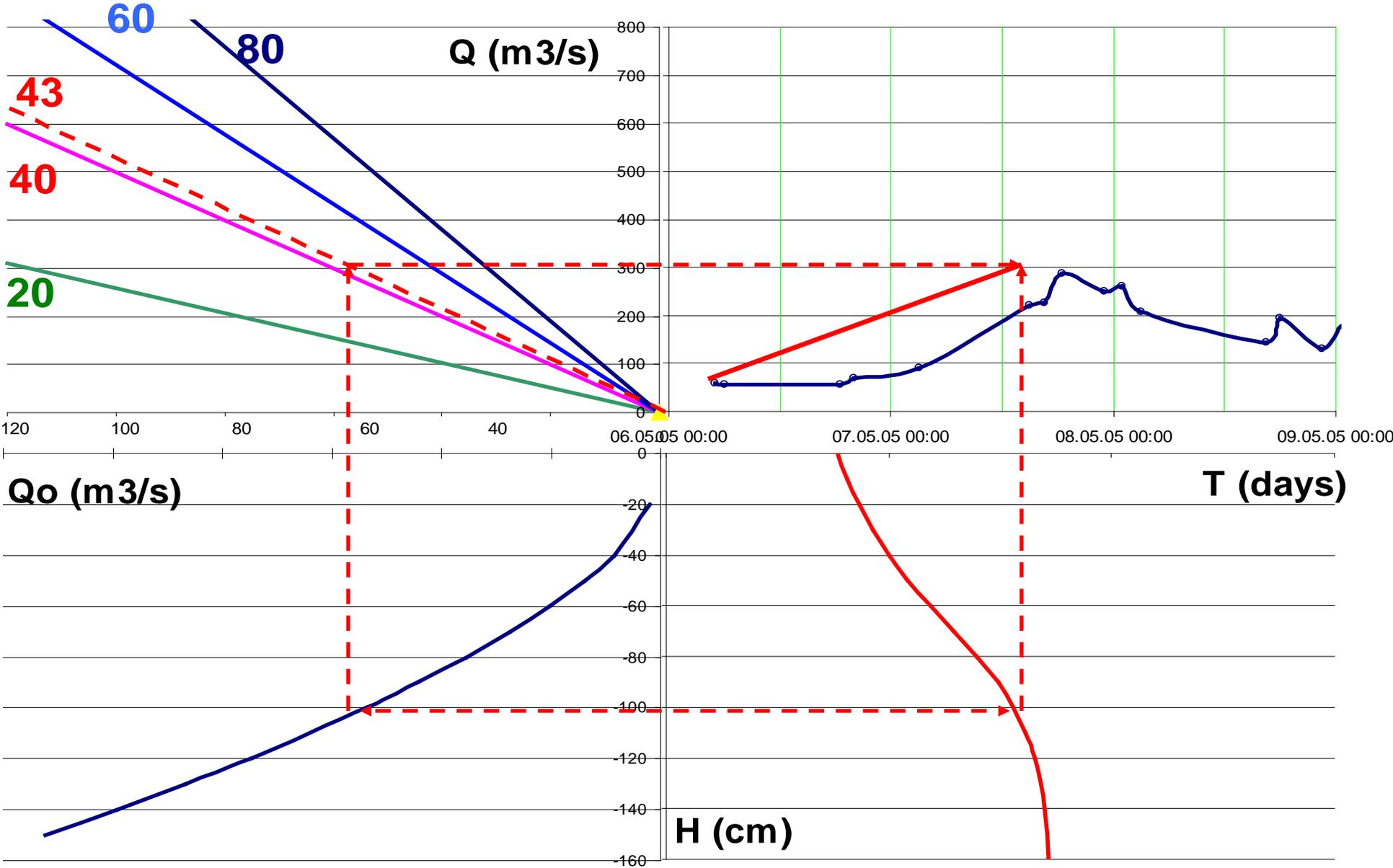


Flood Forecasting & Activities

- Collection and processing of hydromet data:
 - Hydrological and meteorological networks stations.
- Analysing meteorological maps:
 - EUMETSAT, Wetterzentrale, Meteo Blue, HMS NMM.
- Receiving weather forecasts and alarming;
- Analysing hydrological data;
- Water Forecast (Grapho-analitical method);
- FFG SYSTEM



Flood forecasting of the upper catchment of the r.Vardar



FFG SYSTEM in MACEDONIA

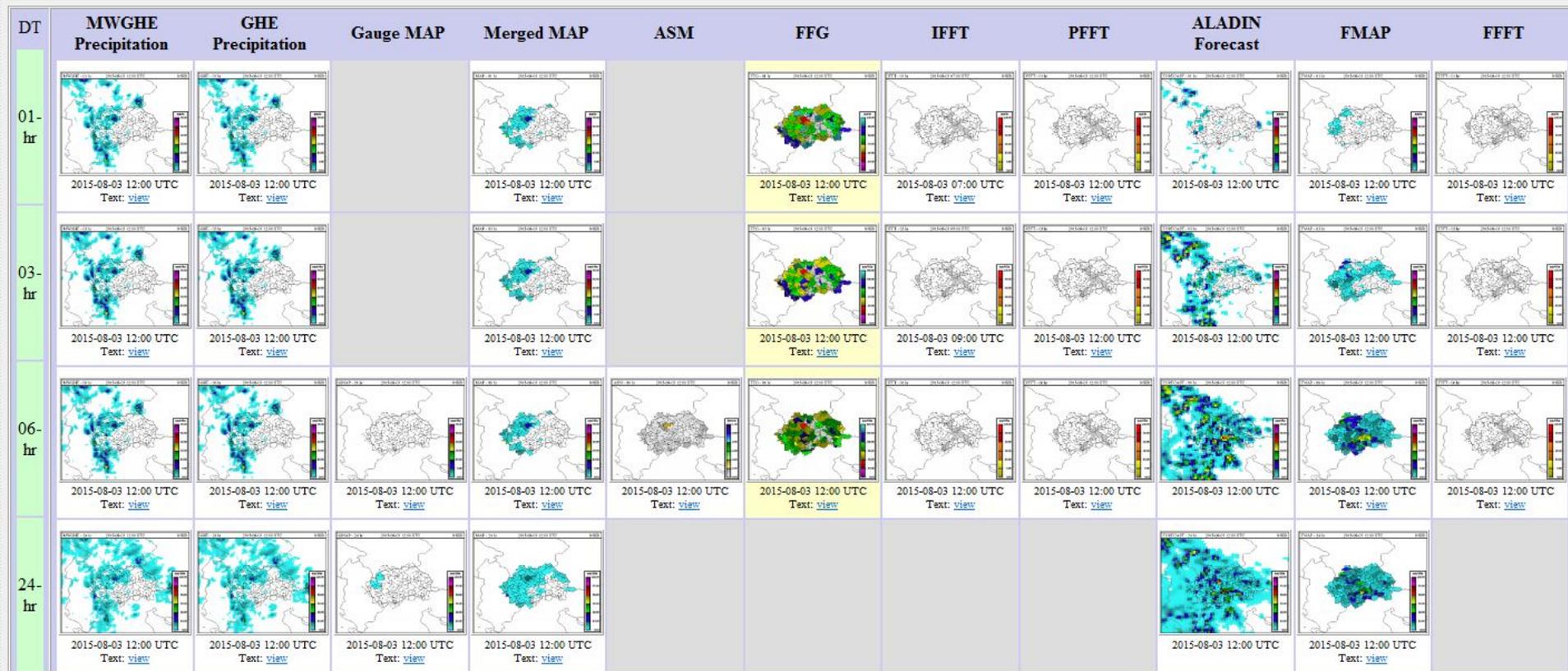
- FFG

SEEFFG - Southeast Europe Flash Flood Guidance System

Current Date: 2015-08-12 12:05 UTC

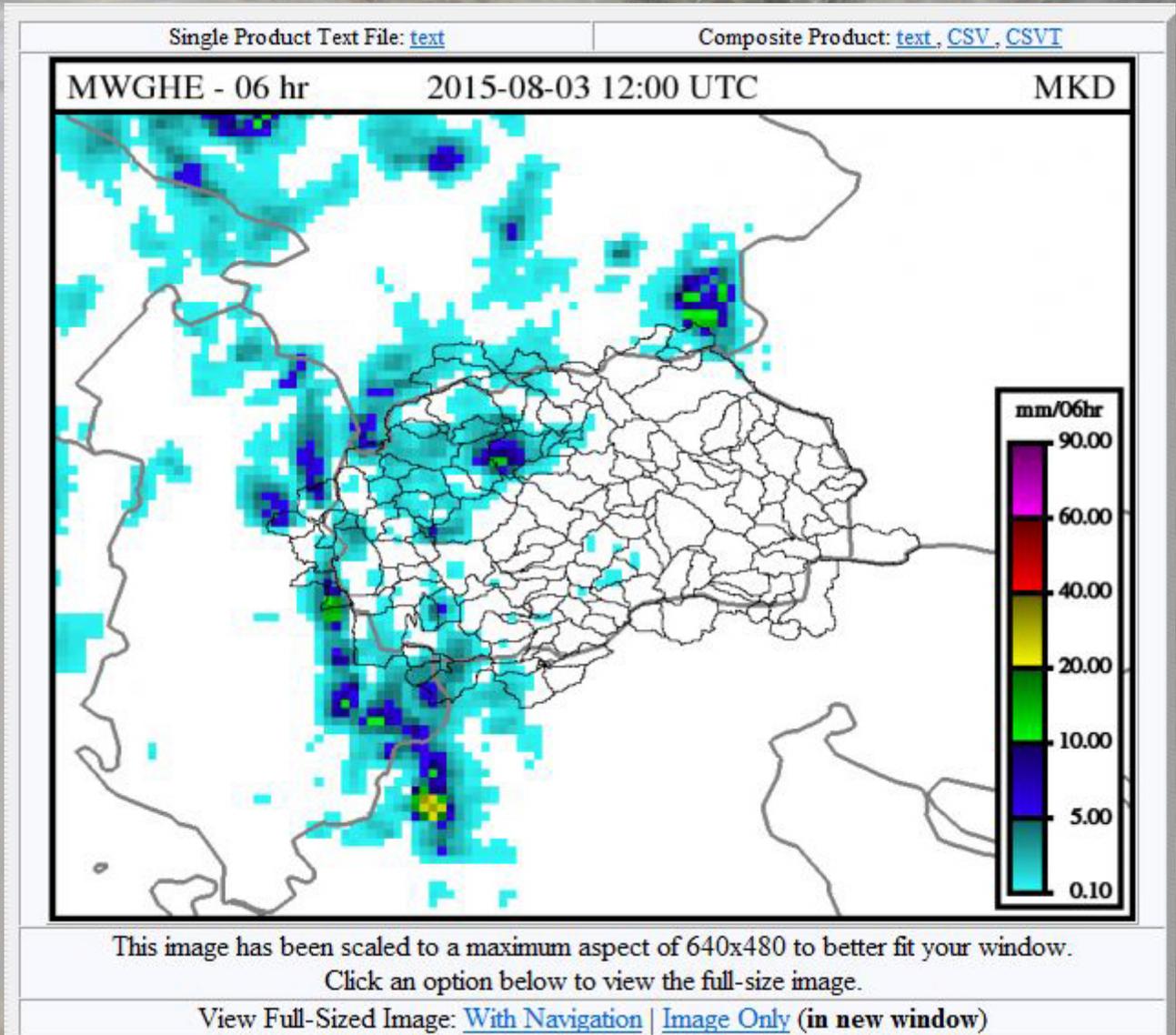
Nav Date: 2015-08-03 12:00 UTC

Year: 2015 Month: 08 Day: 03 Hour: 12 REGION: The former Yugoslav Republic of Macedonia



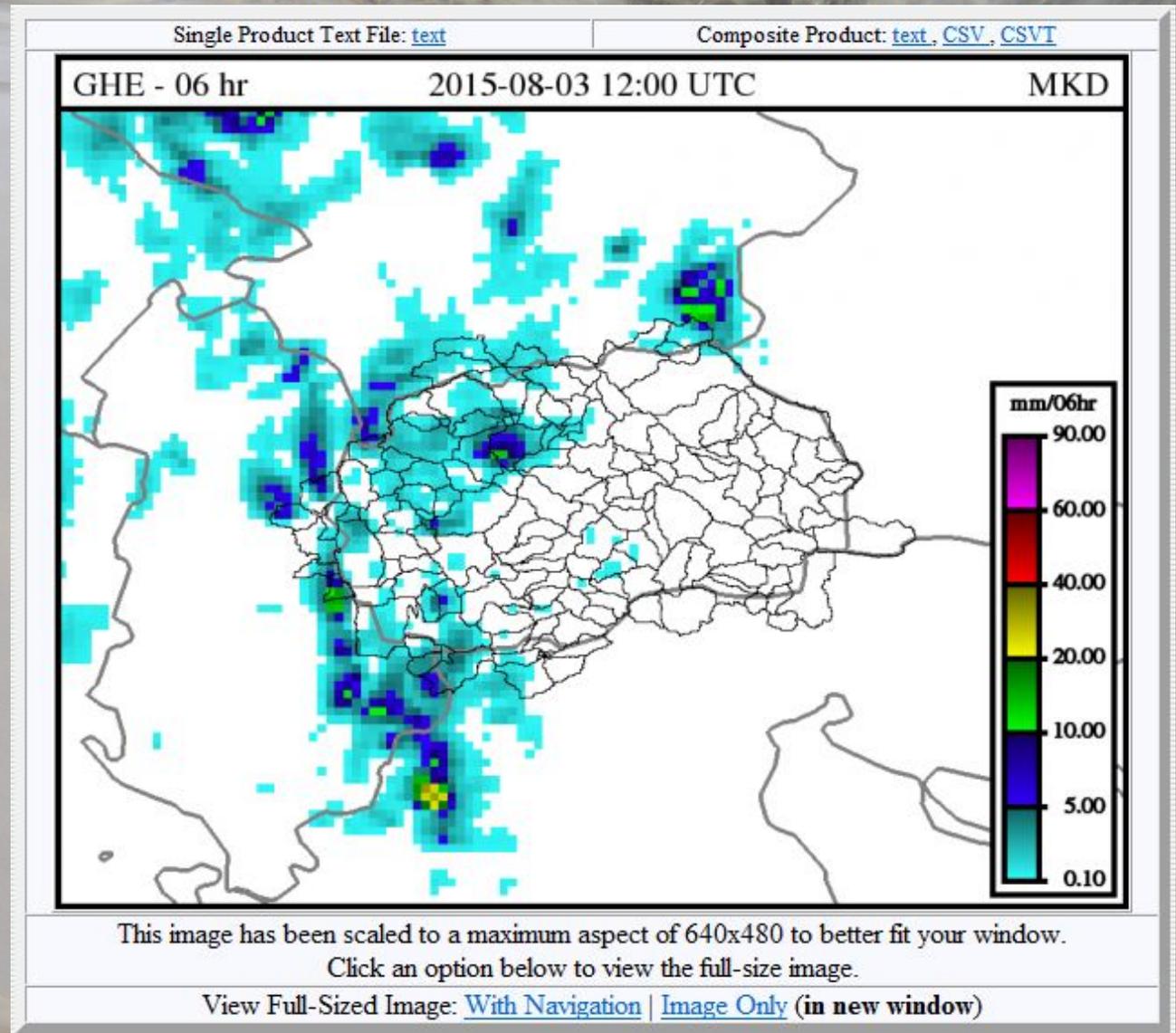
FFG SYSTEM in MACEDONIA

- FFG



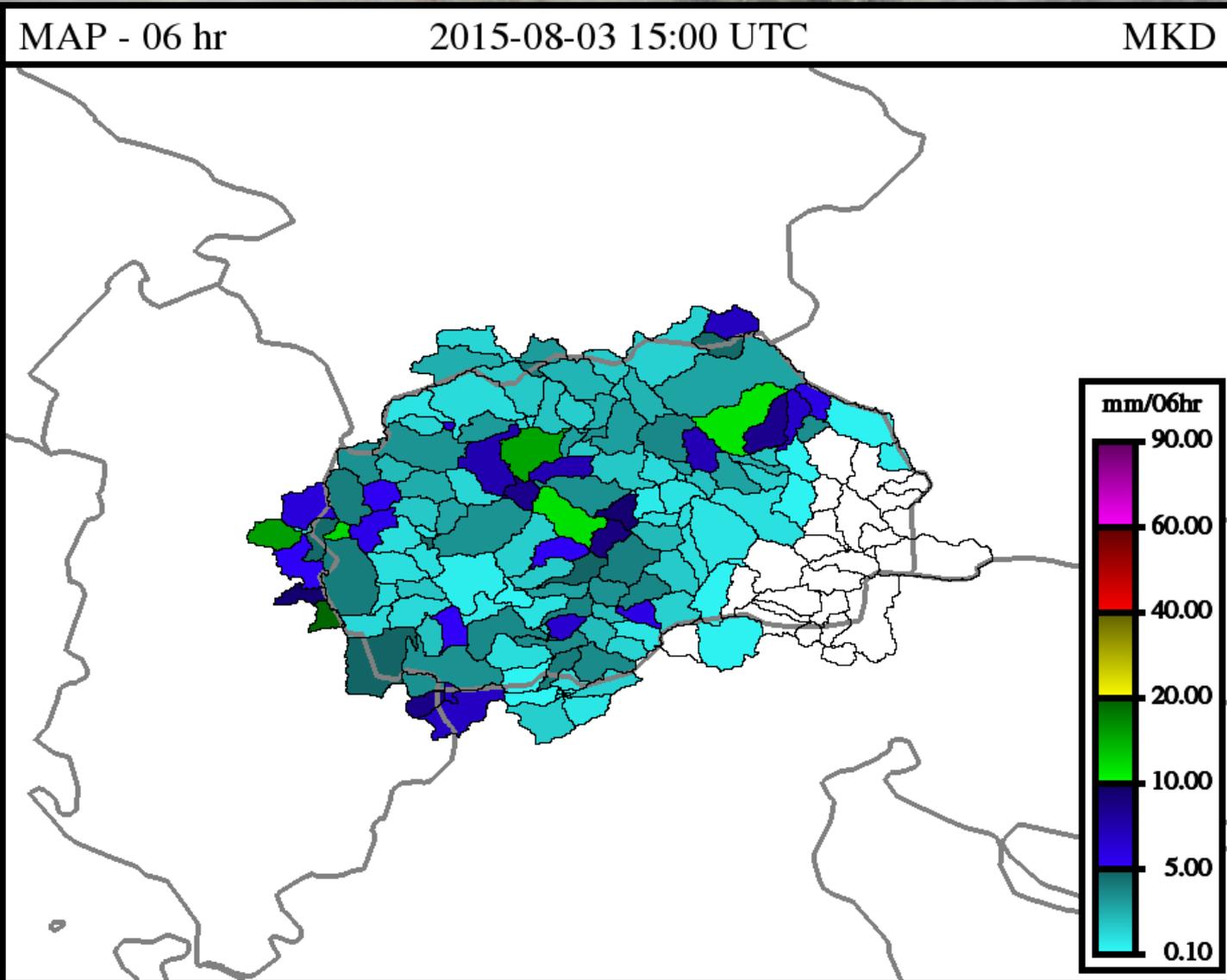
FFG SYSTEM in MACEDONIA

- FFG



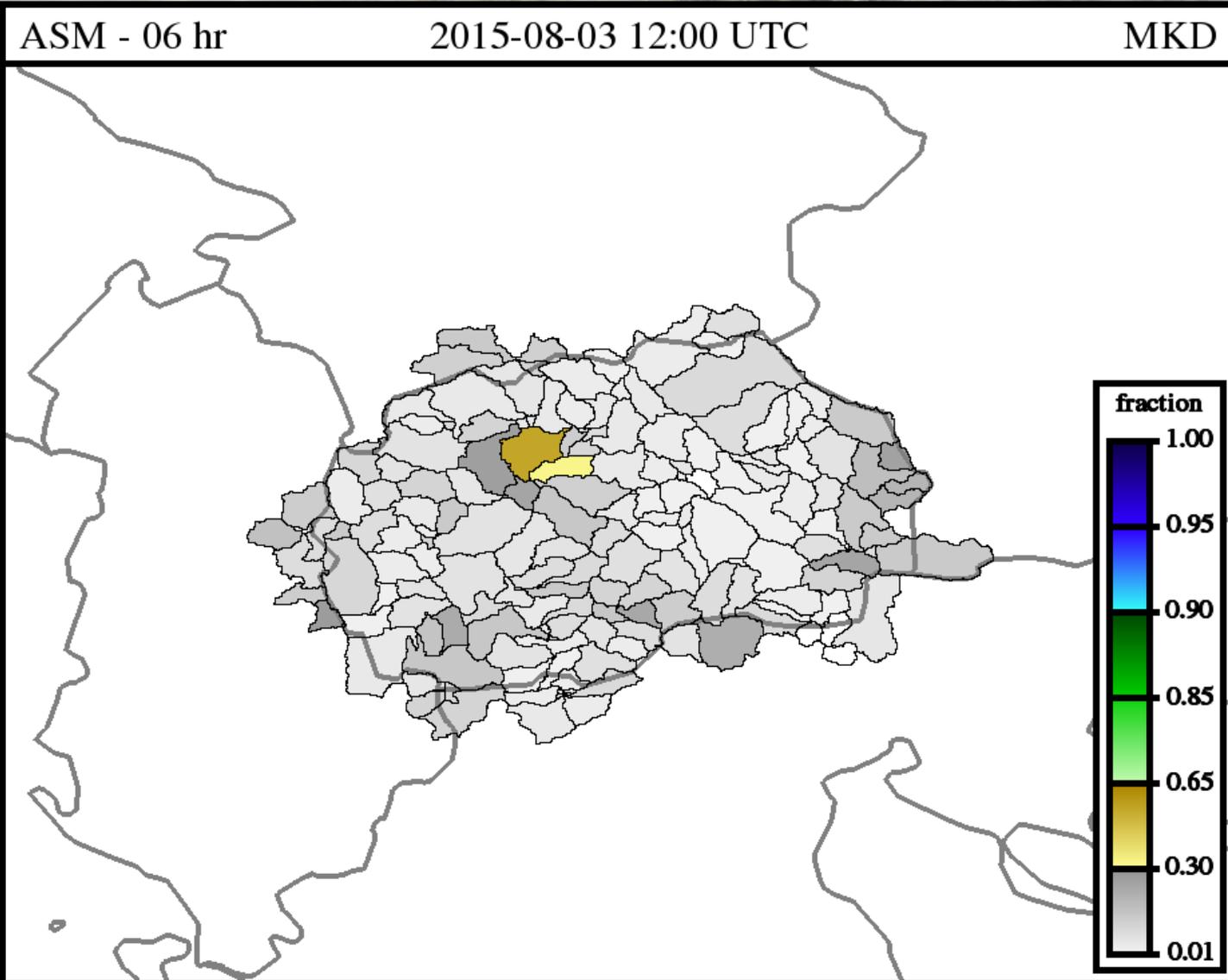
FFG SYSTEM in MACEDONIA

- Merged MAP 06hr 15:00



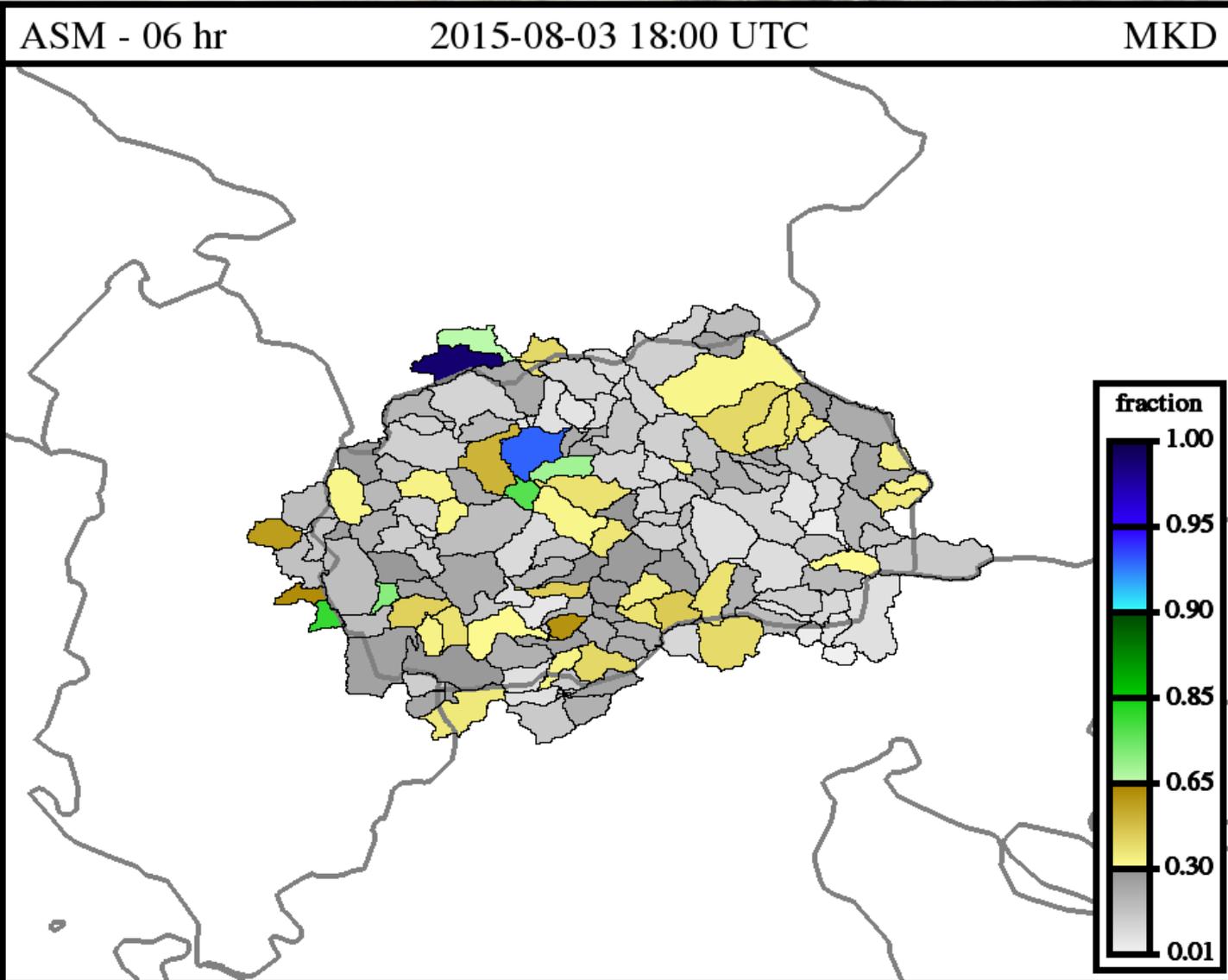
FFG SYSTEM in MACEDONIA

- ASM 06hr 12:00



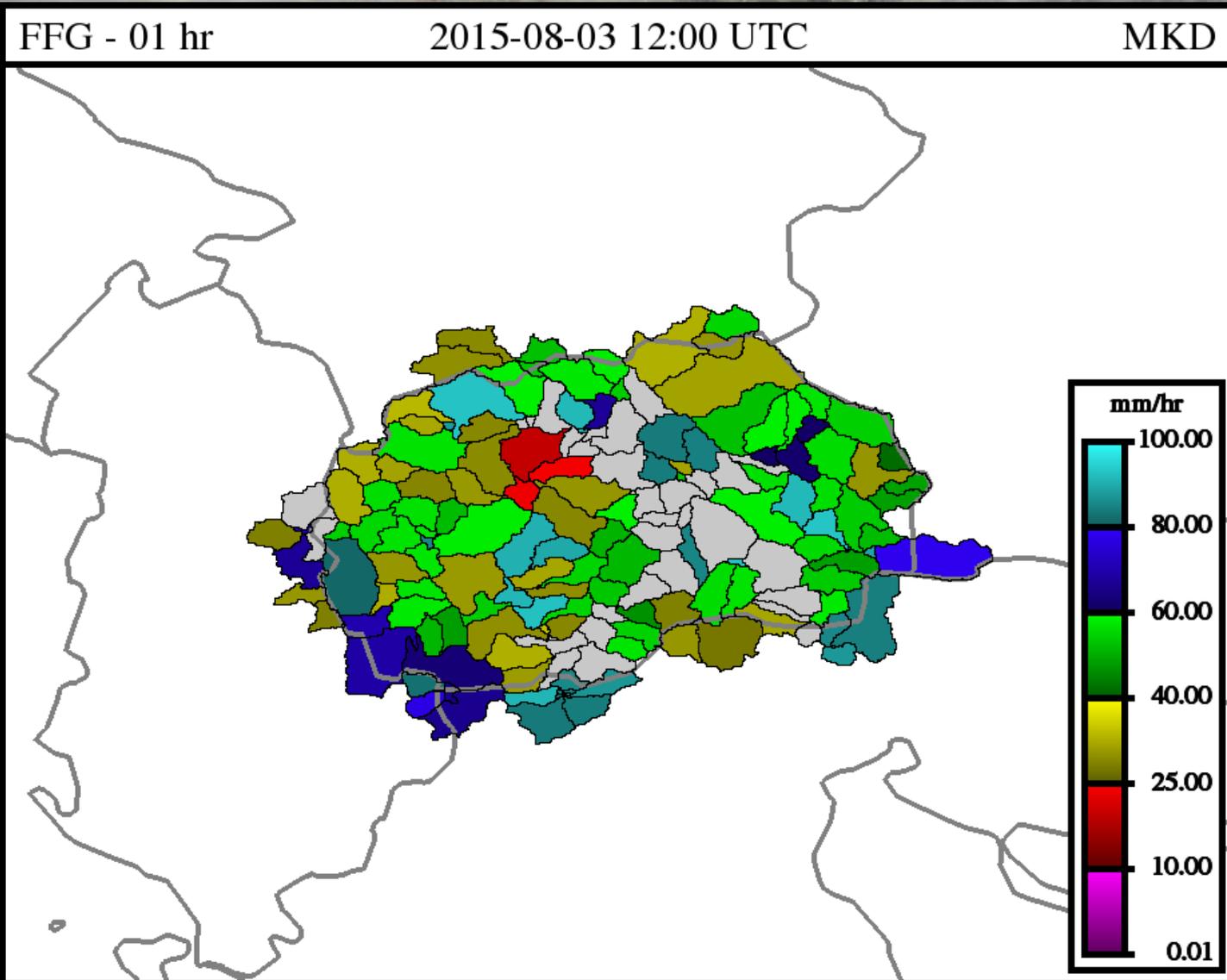
FFG SYSTEM in MACEDONIA

- ASM 06hr 18:00



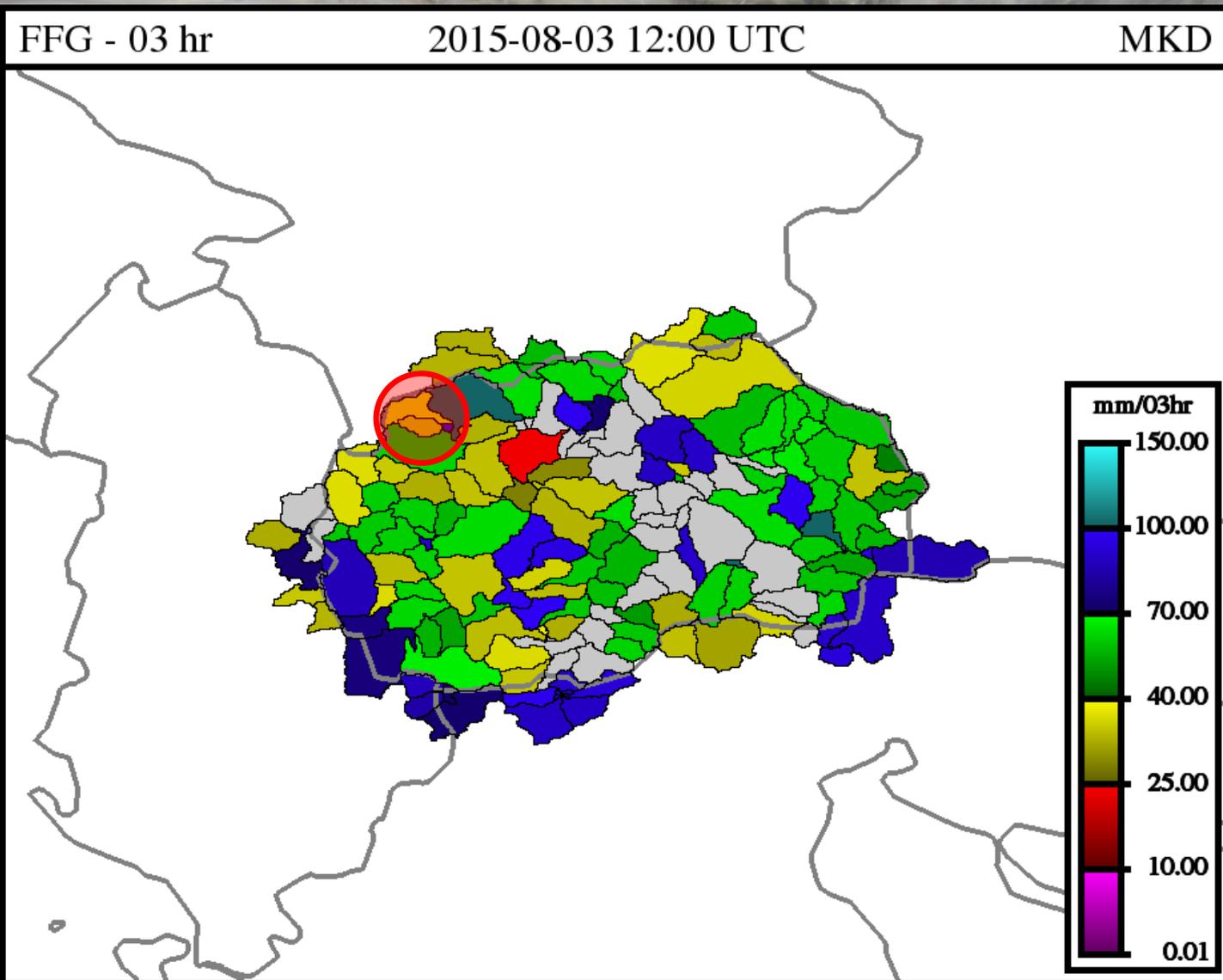
FFG SYSTEM in MACEDONIA

- FFG 01hr 12:00



FFG SYSTEM in MACEDONIA

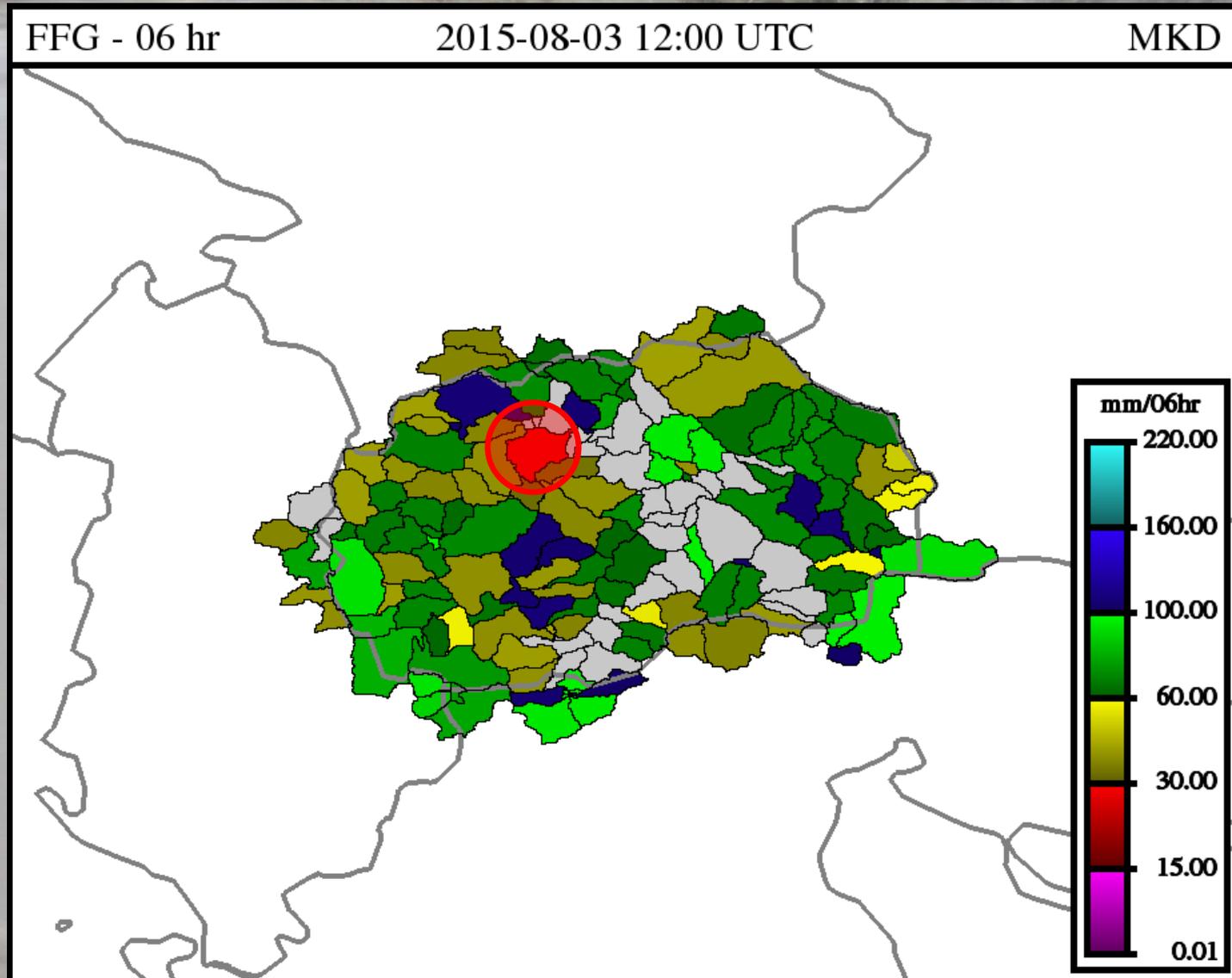
- FFG 03hr 12:00



ПП-поројна поплава

FFG SYSTEM in MACEDONIA

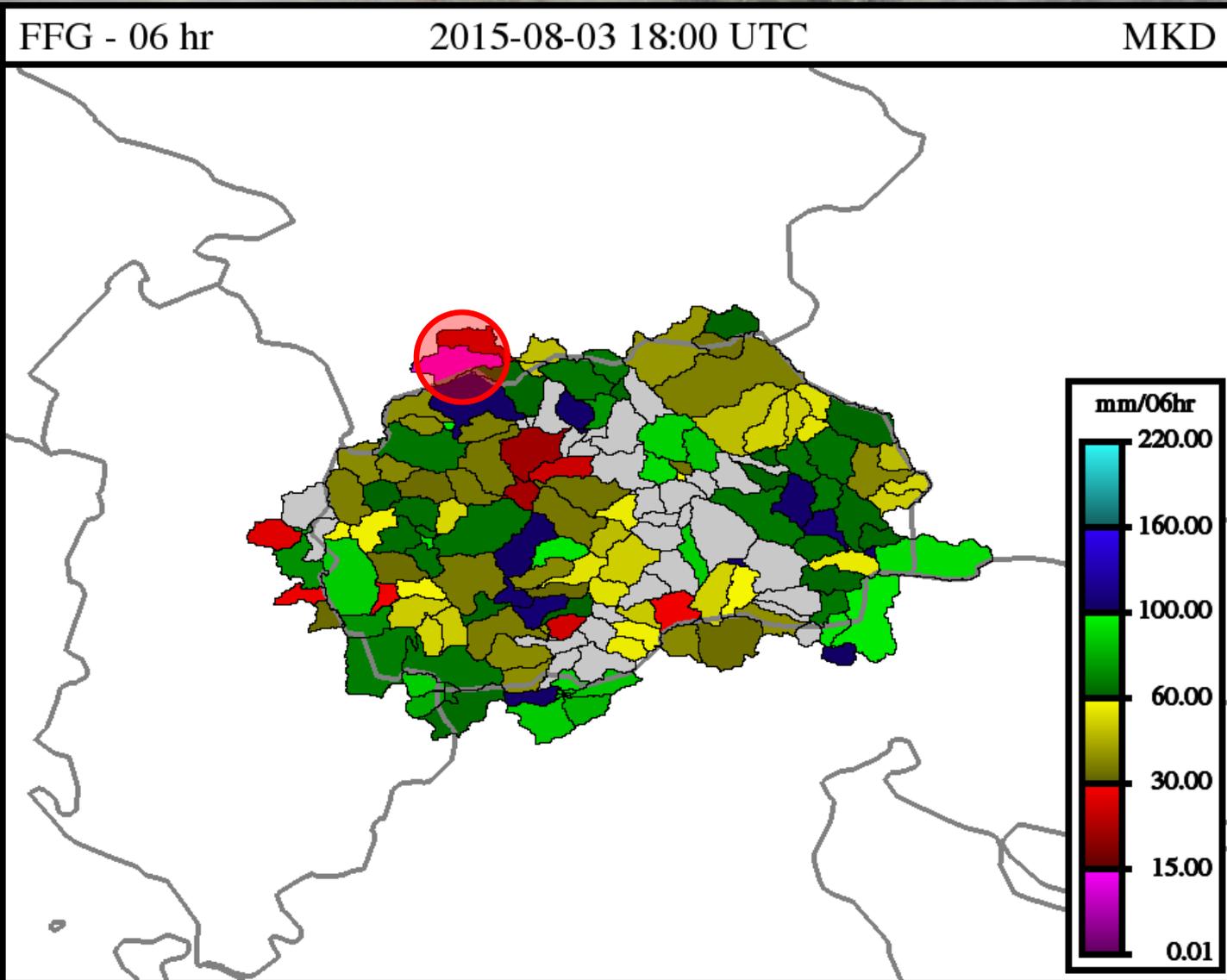
- FFG 06hr 12:00



НП-поројна поплава

FFG SYSTEM in MACEDONIA

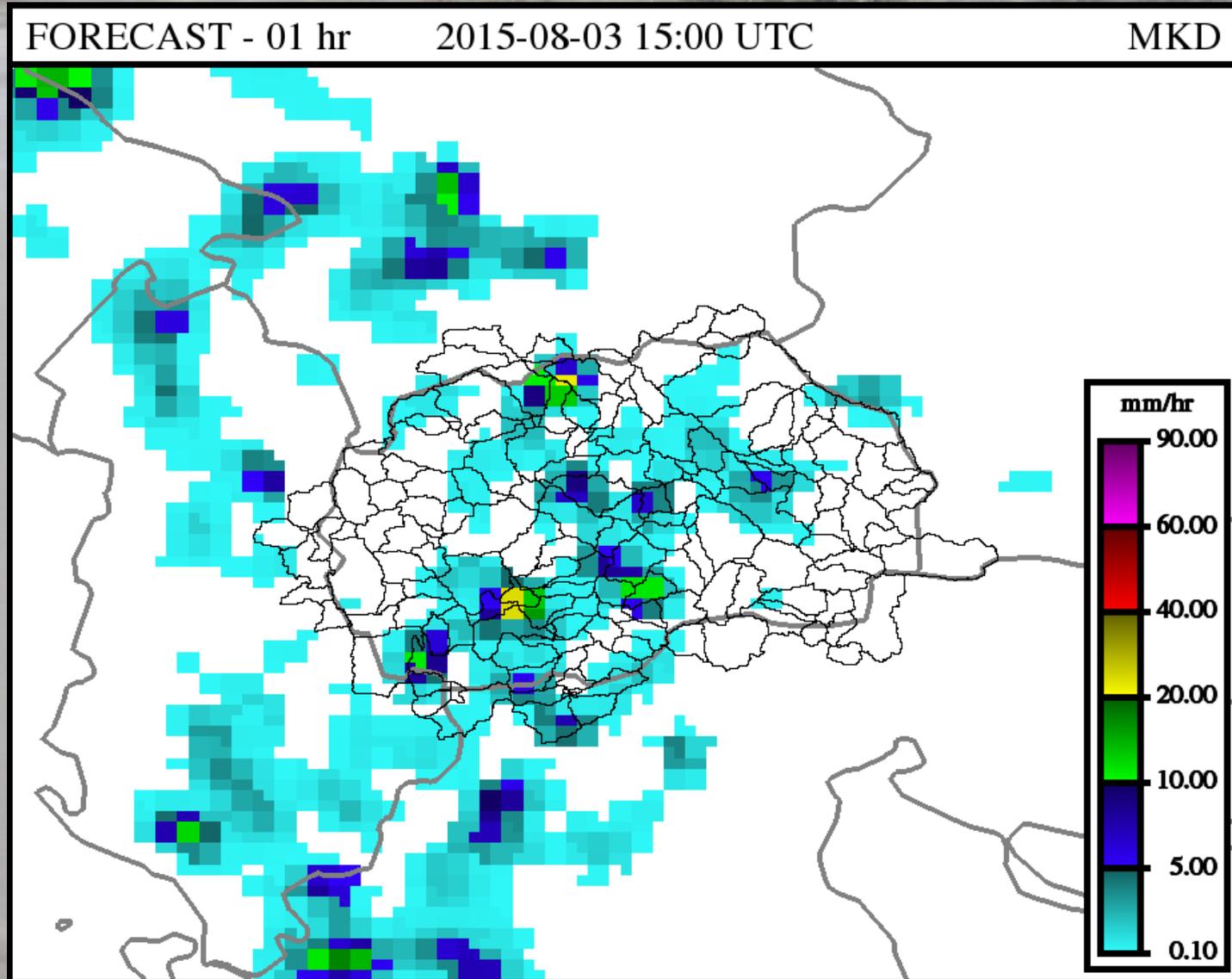
- FFG 06hr 18:00



НП-поројна поплава

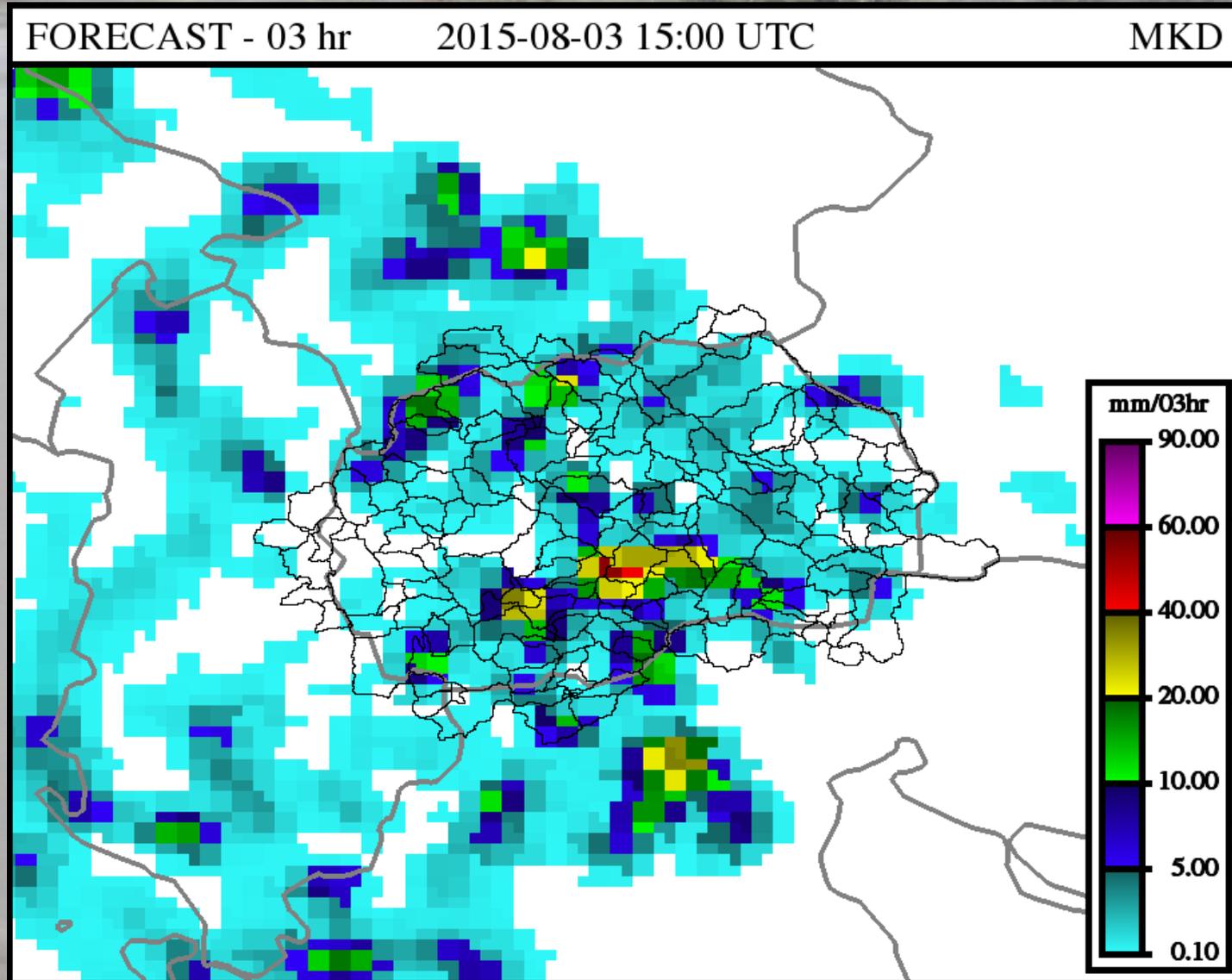
FFG SYSTEM in MACEDONIA

- ALADIN FORECAST 01hr 15:00UTC



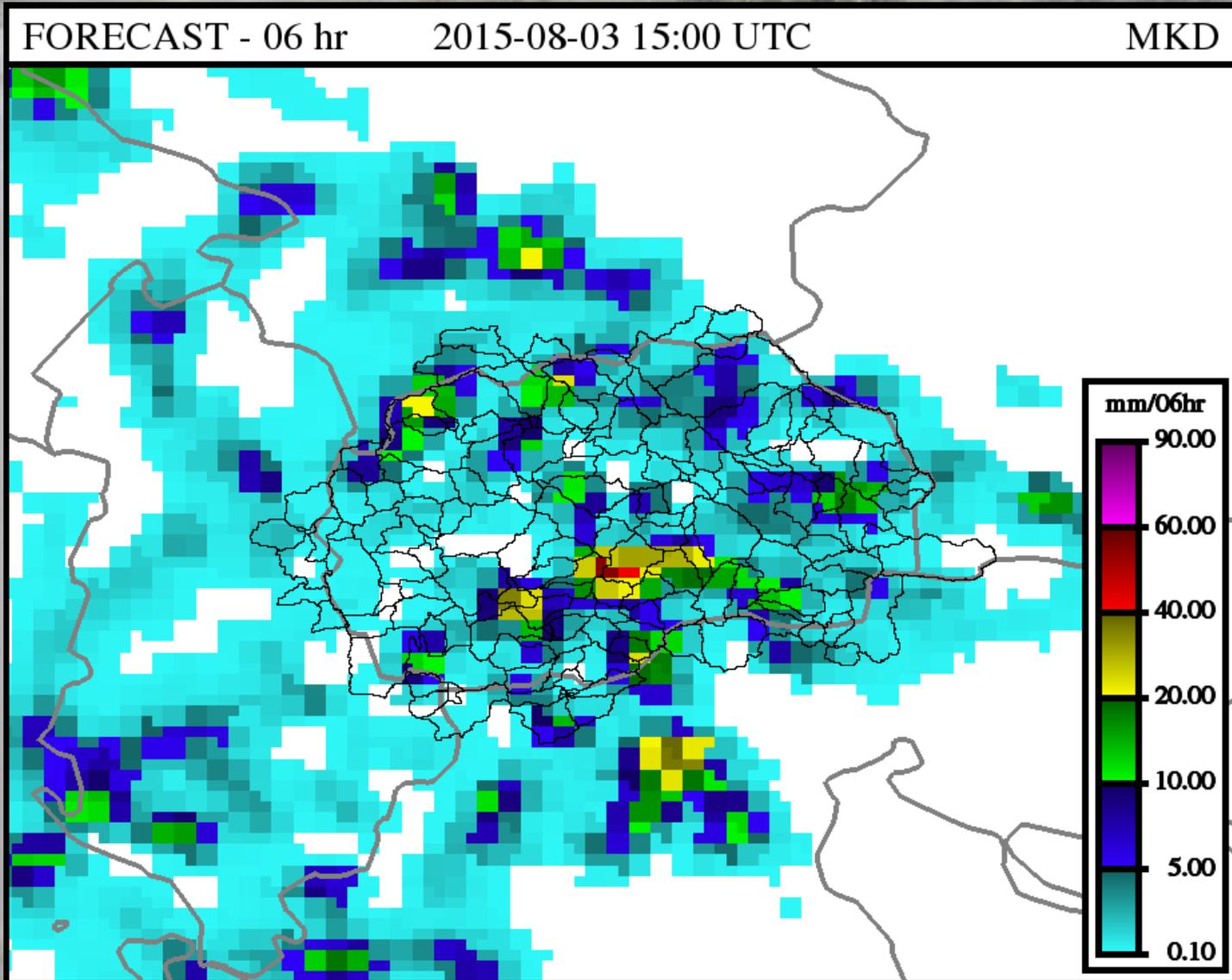
FFG SYSTEM in MACEDONIA

- ALADIN FORECAST 03hr 15:00UTC

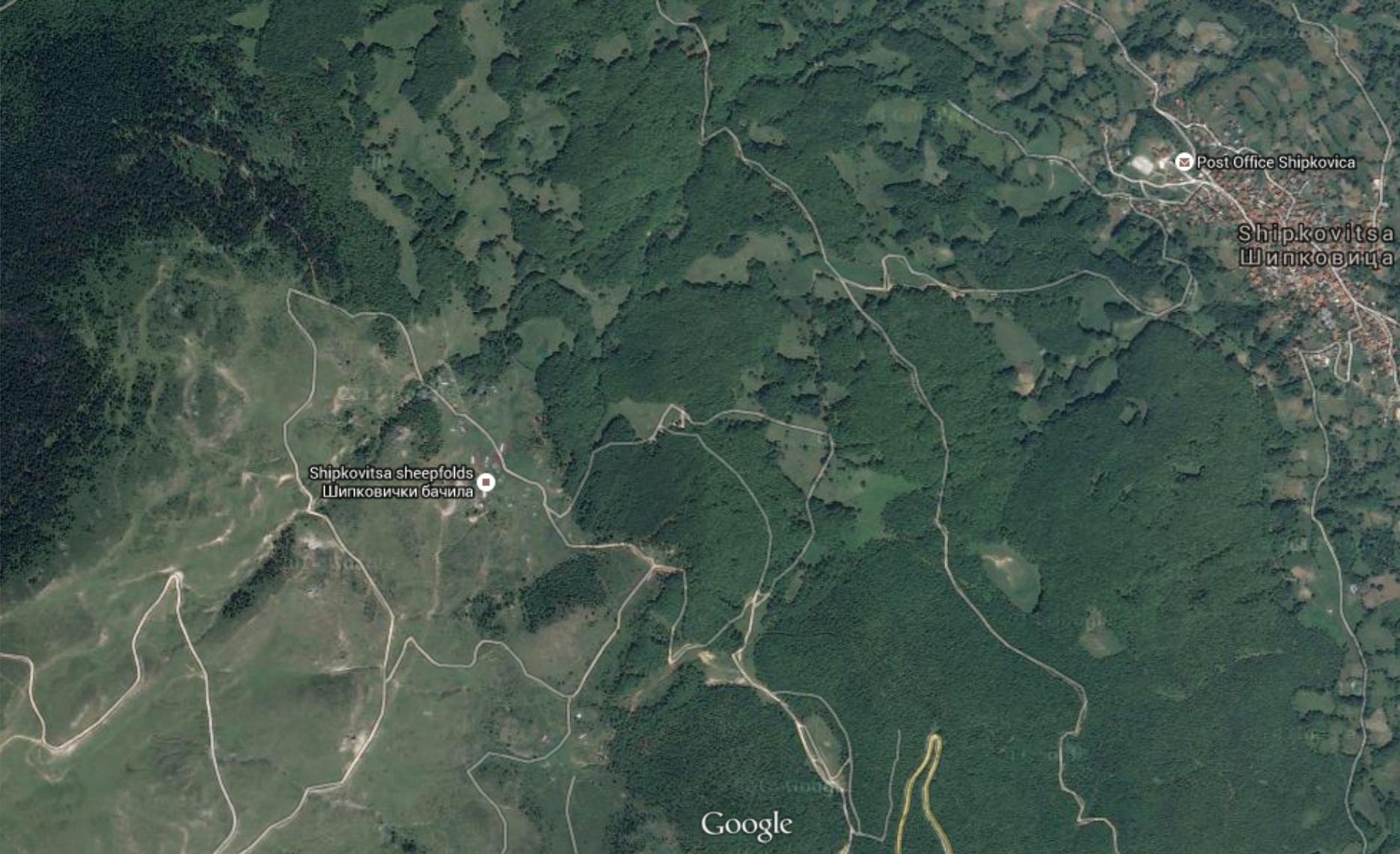


FFG SYSTEM in MACEDONIA

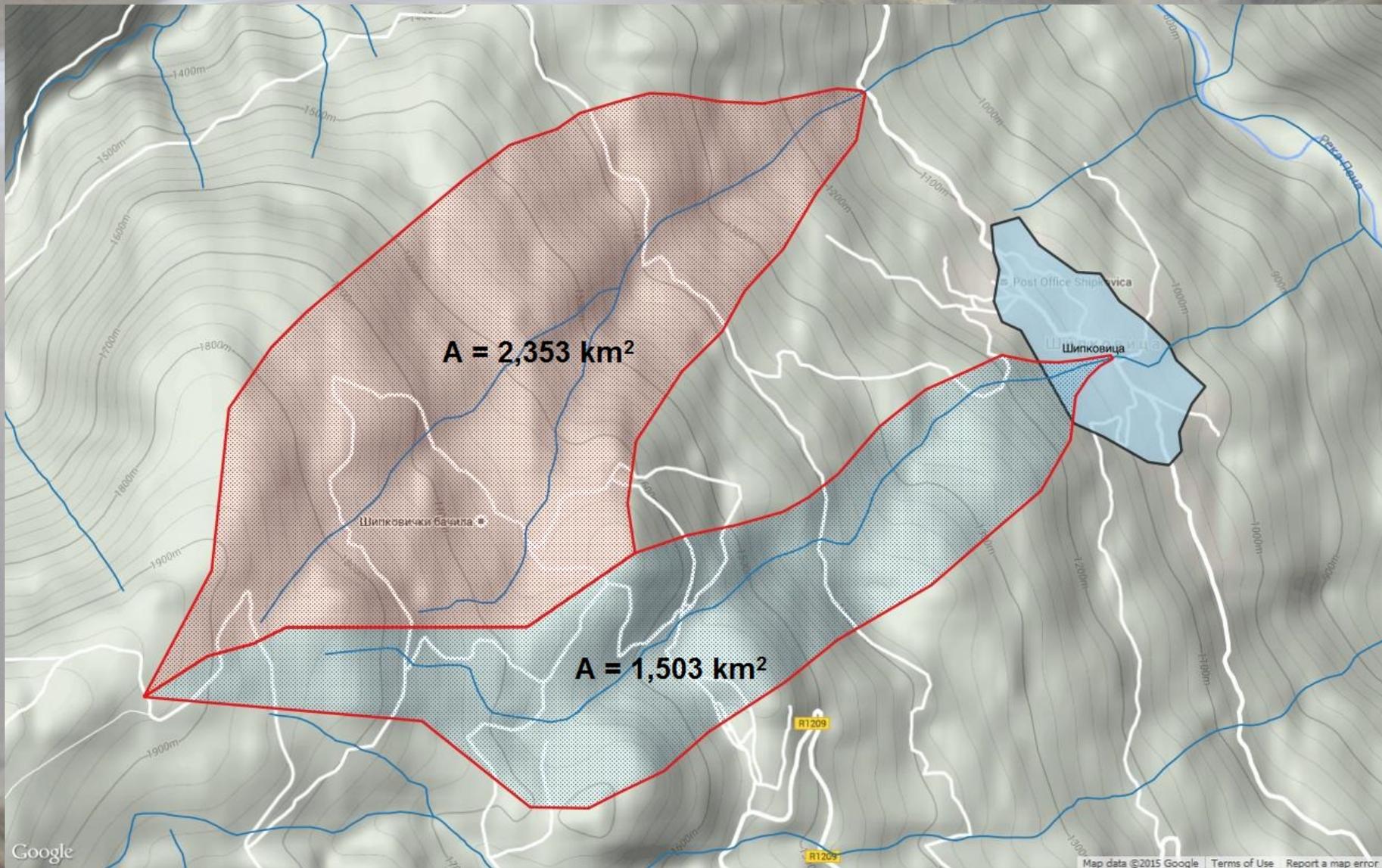
- ALADIN FORECAST 06hr 15:00UTC



Google maps



Maps



Early Warning

- Hydrological Information and Alarming
 - Crisis Management Centre;
 - Relevant Ministries, and
 - Public and Media.



Early Warning Crisis Management Centre



• Shipkovica (6.08.2015)

Reality



• Shipkovica (6.08.2015)

Reality



- Shipkovic (6.08.2015)



Reality

Thank you
for your attention!



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