

World Meteorological Organization

Weather • Climate • Water

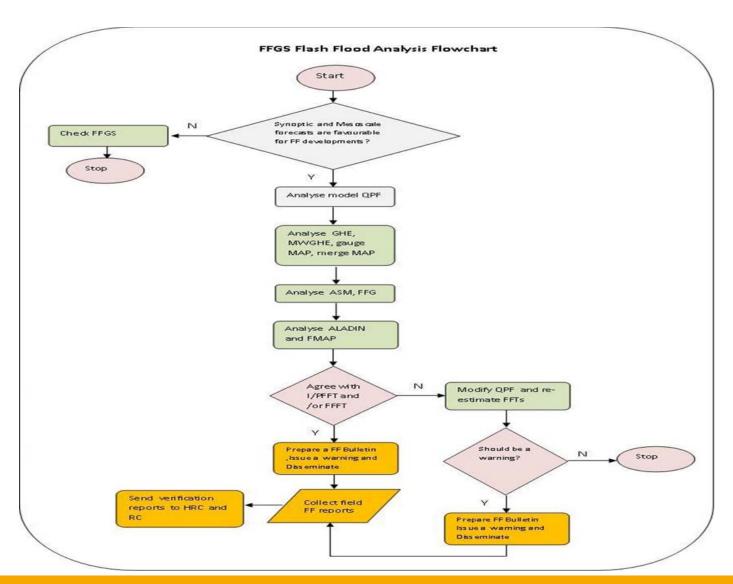
South East Europe Flash Flood Guidance (SEEFFG) System A Case Study: 6-8 March 2016 Flash Flood Events





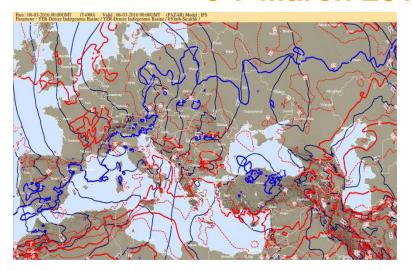


Flash Flood Warning Flow Chart

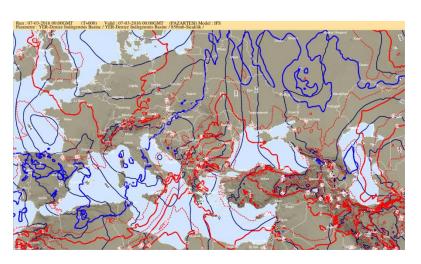


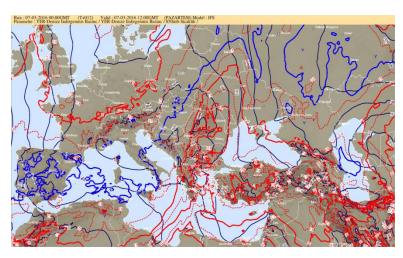


ECMWF Surface Pressure + 850 hPa Temperature 6-7 March 2016 00 and 12 UCT



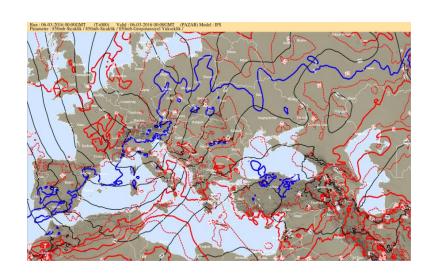




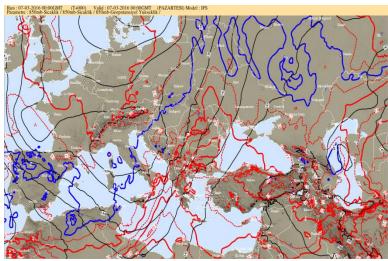


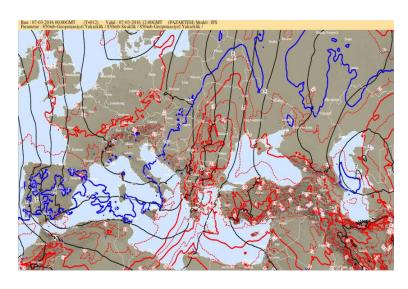


ECMWF 850 hPa Charts 6-7 March 2016 00 and 12 UCT





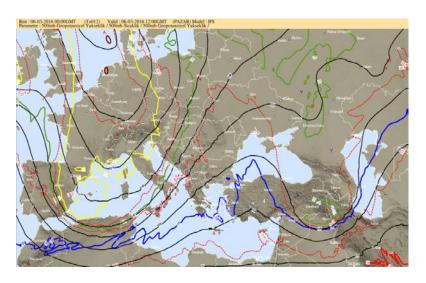


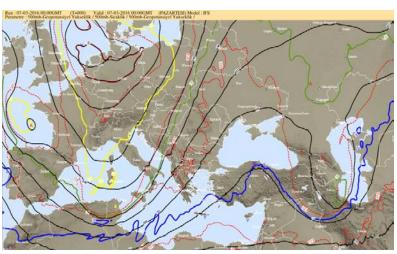


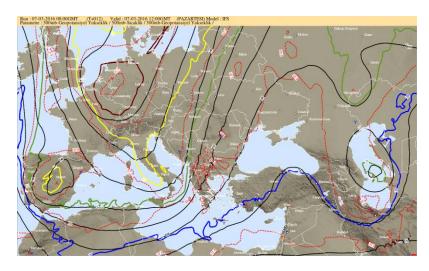


ECMWF 500 hPa Charts 6-7 March 2016 00 and 12 UCT



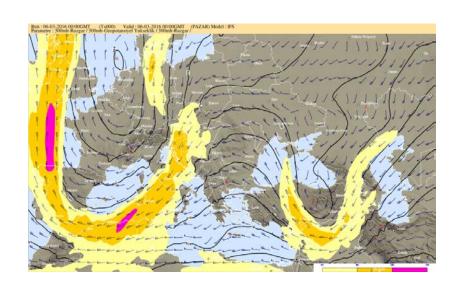


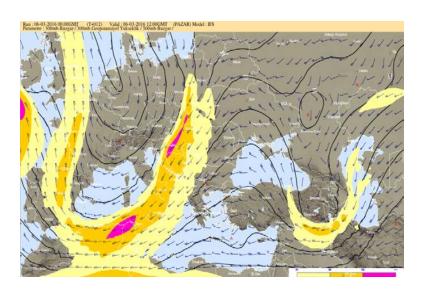


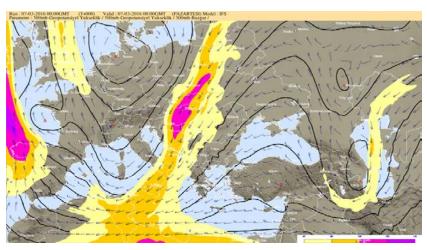


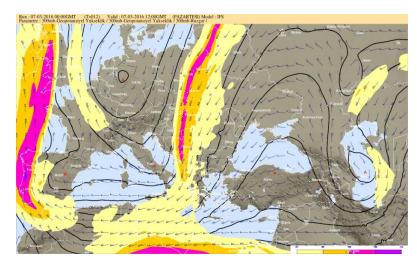


ECMWF Jet 6-7 March 2016 00 and 12 UCT



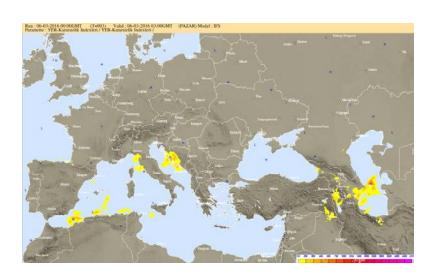




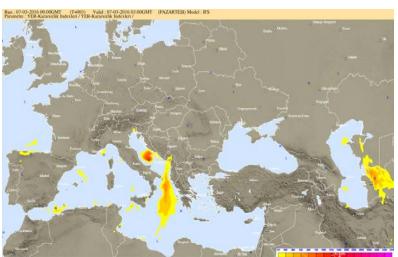


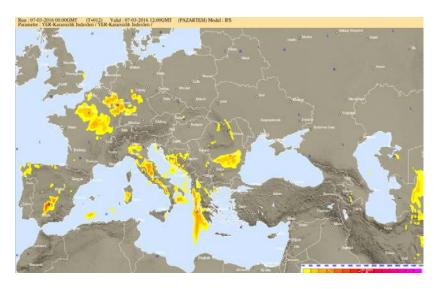


ECMWF Instability 6-7 March 2016 00 and 12 UCT



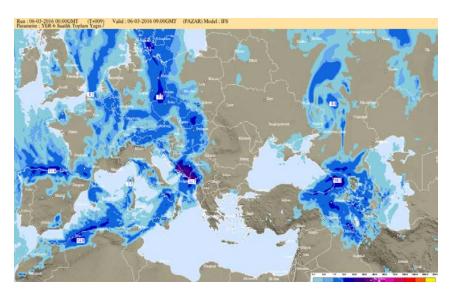


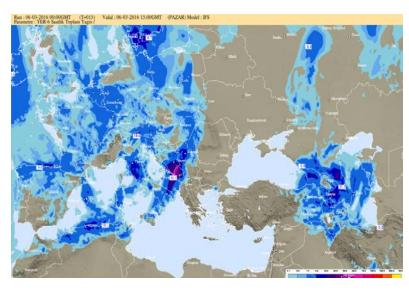


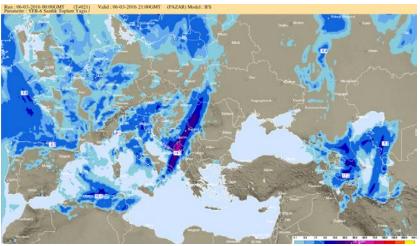


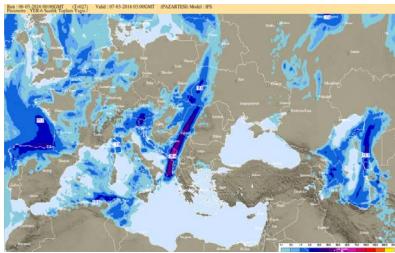


ECMWF 00+6-hr Precipitation 6 March 2016



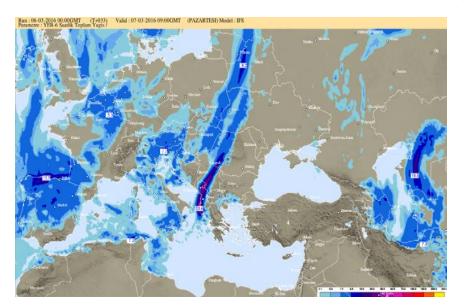


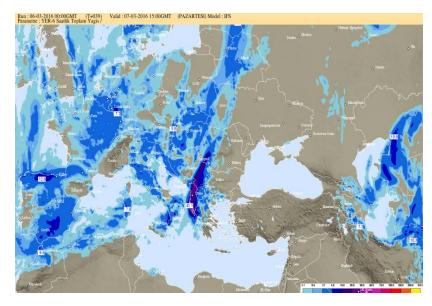


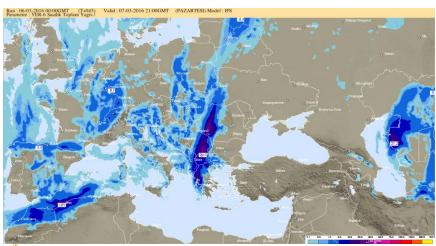


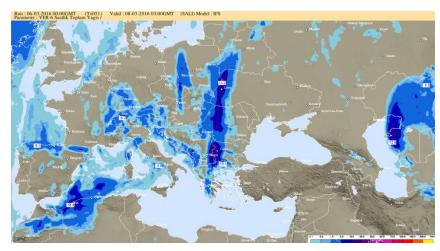


ECMWF 00+6-hr Precipitation 6 March 2016





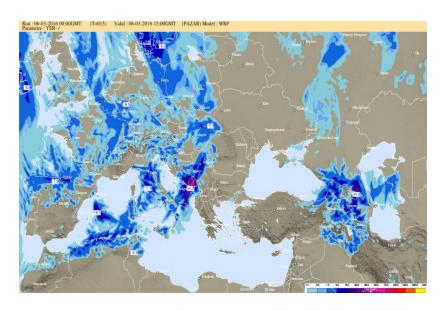


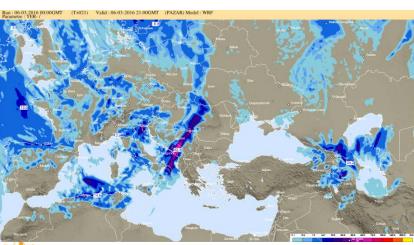




WRF 00+6-hr Precipitation 6 March 2016

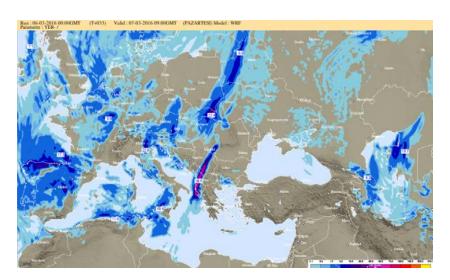


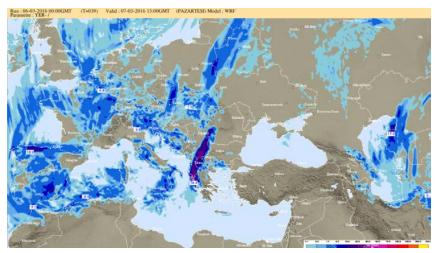


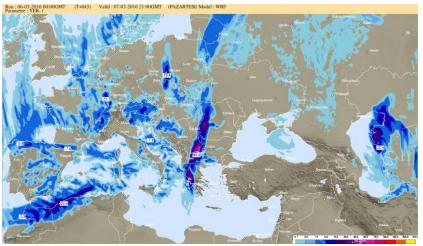


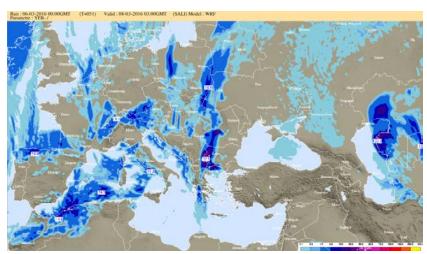


WRF 00+6-hr Precipitation 6 March 2016









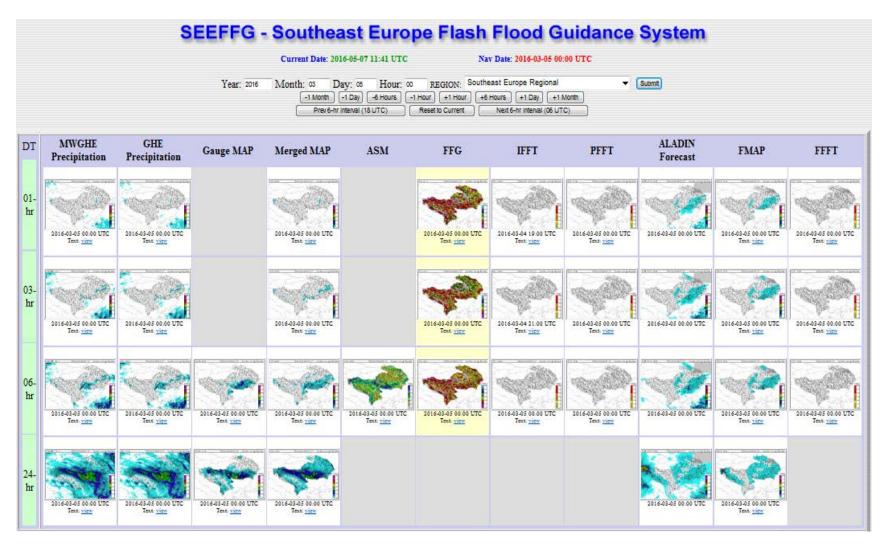


Comparison of ECMWF and WRF Precipitation Forecasts

Date & Time 06032016 00 +6 hr interval	ECMWF Precipitation Forecast (mm)	WRF Precipitation Forecast (mm)
00 UCC	32.7	36.9
06UTC	46.4	68.3
12 UTC	44.1	92.3
18 UTC	39.9	90.6
00 UTC	53.4	54.4
06 UTC	41.1	34.4
12 UTC	29.8	49.4
18 UTC	16.1	33.1

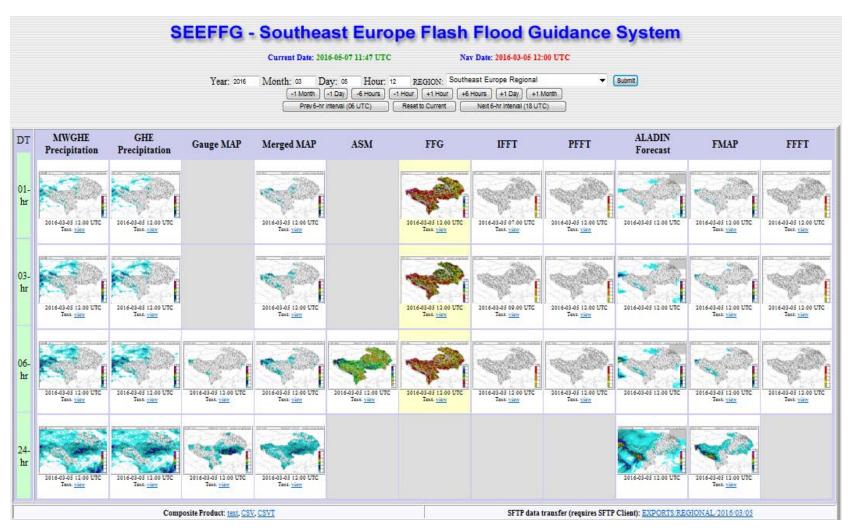


SEEFFG Products:05032016 00UTC



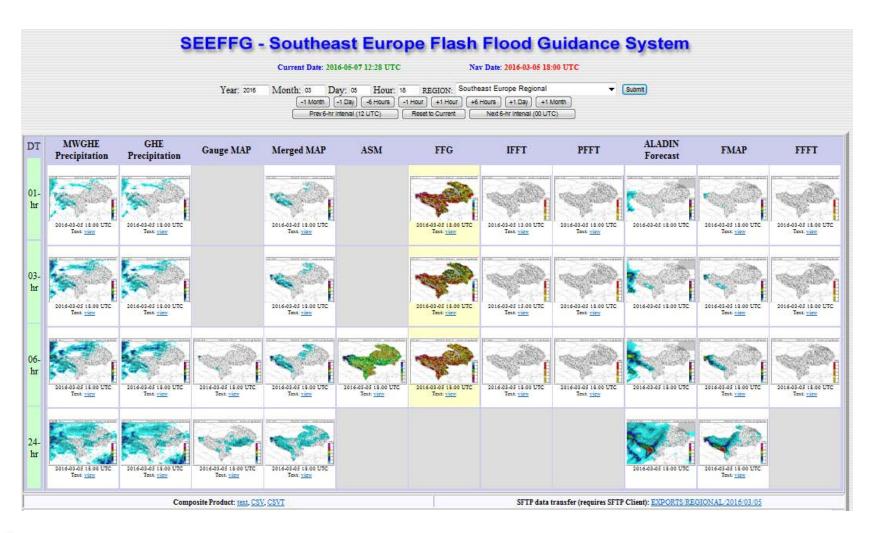


SEEFFG Products:05032016 12UTC



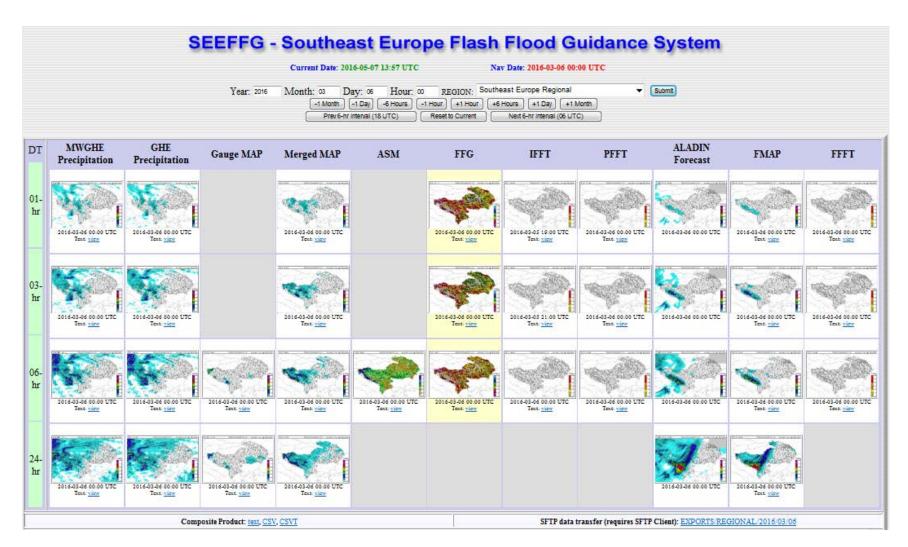


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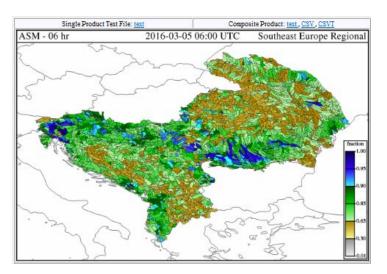


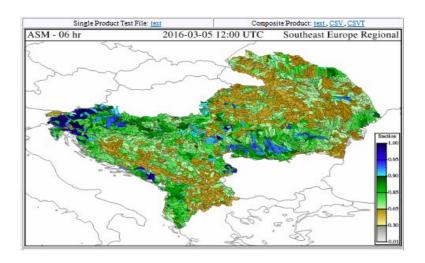
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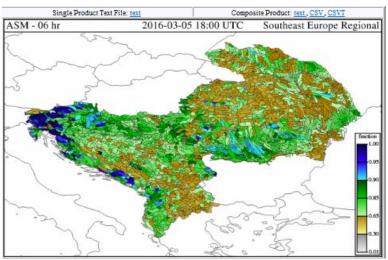


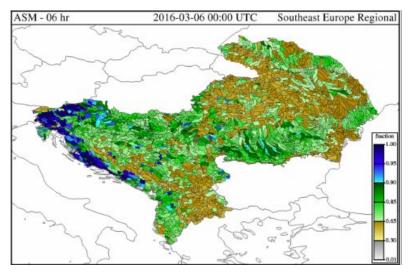


SEEFFG Products: ASM 6-hr 05-06032016



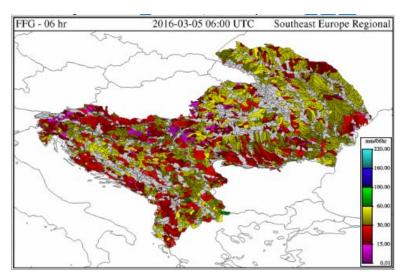


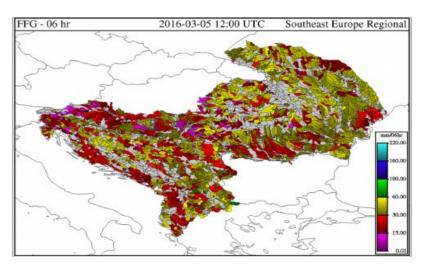


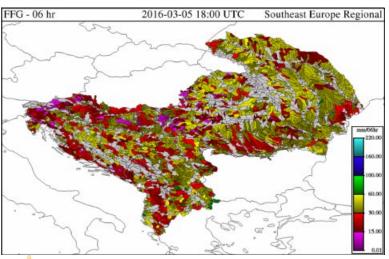


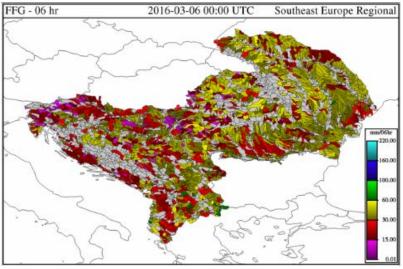


SEEFFG Products: FFG 6-hr 05-06032016



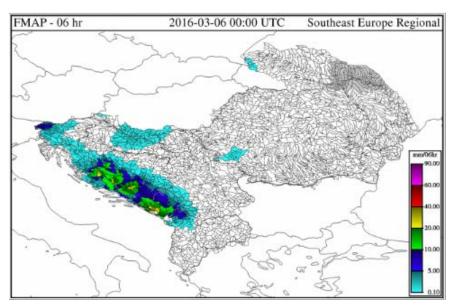


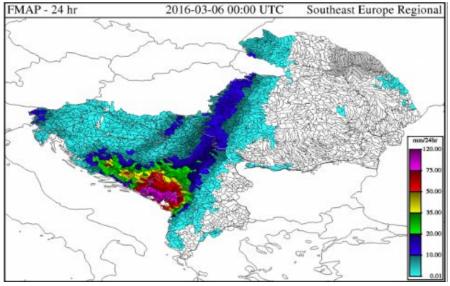






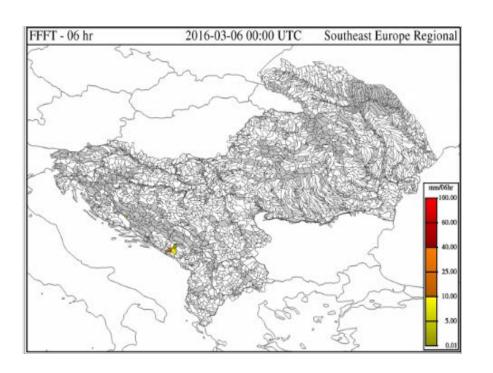
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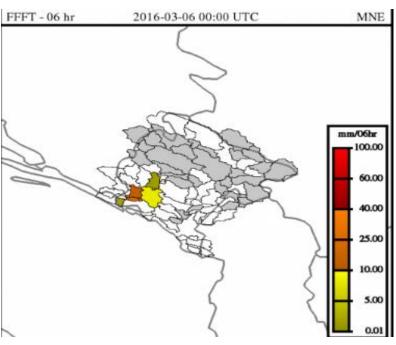






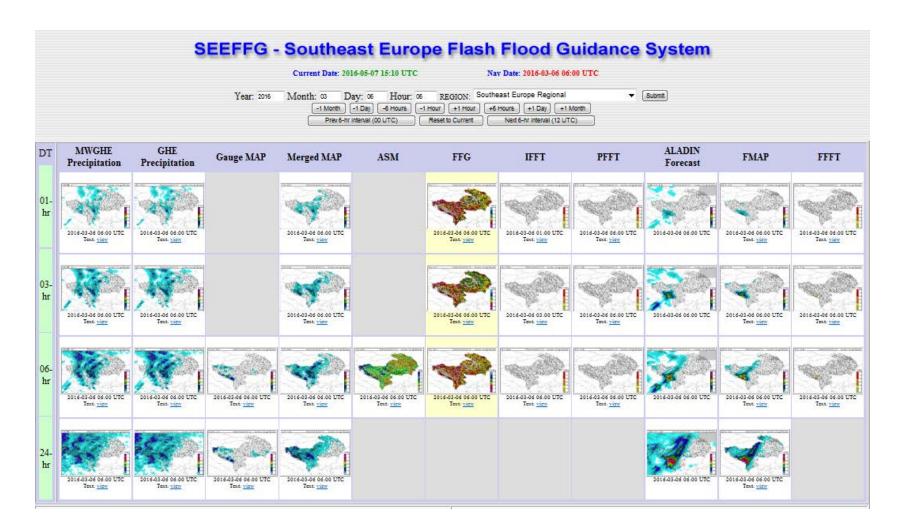
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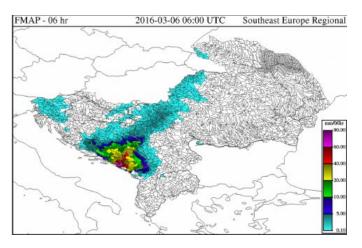


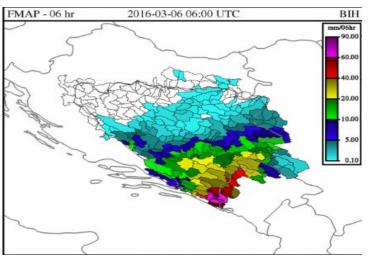
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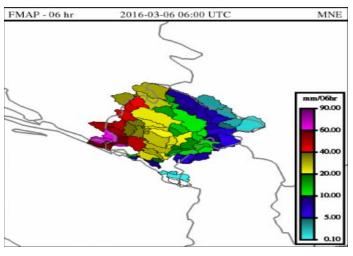




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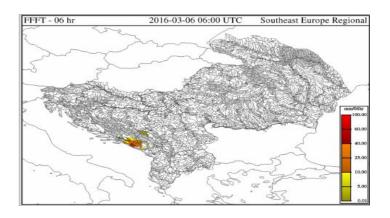


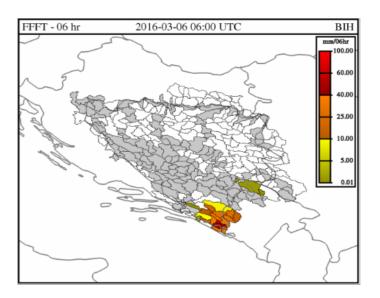


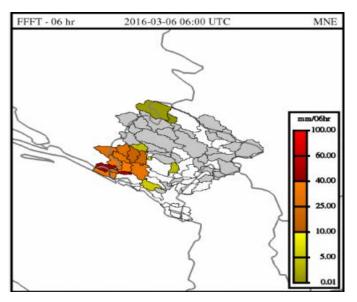




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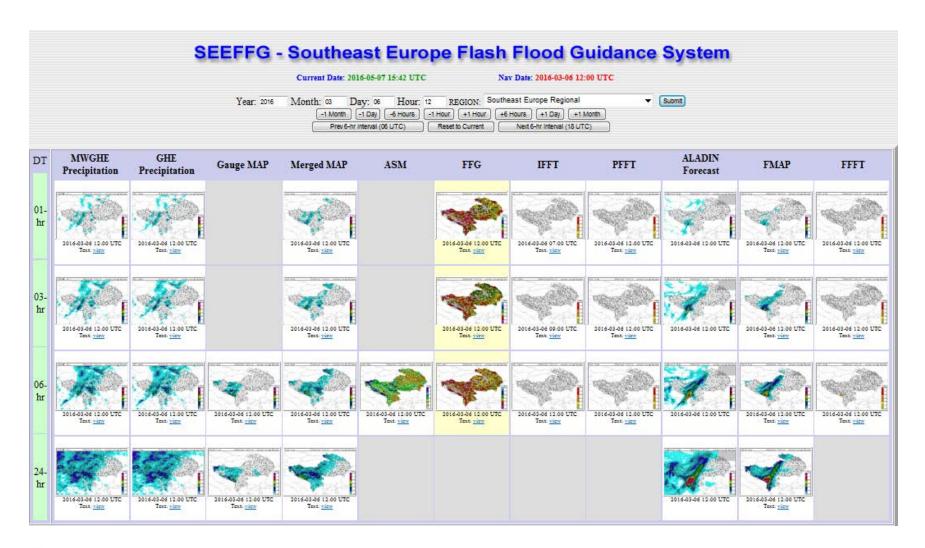






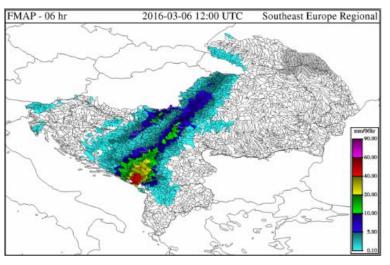


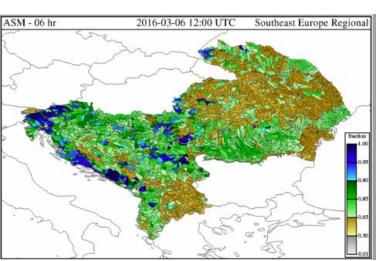
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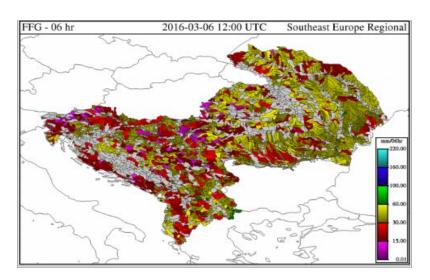


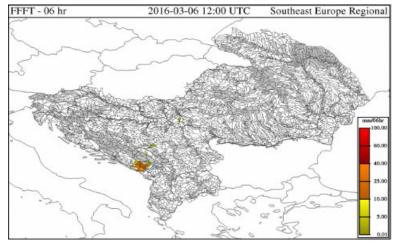


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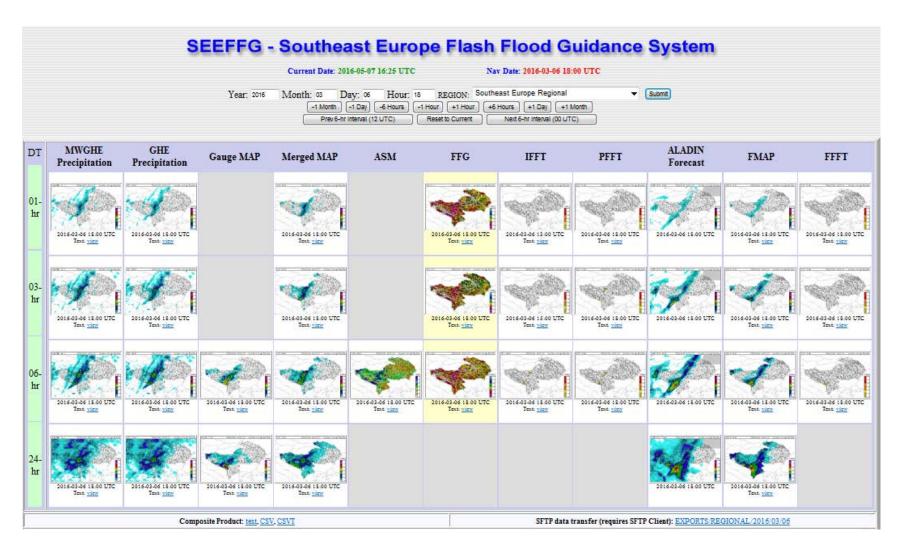






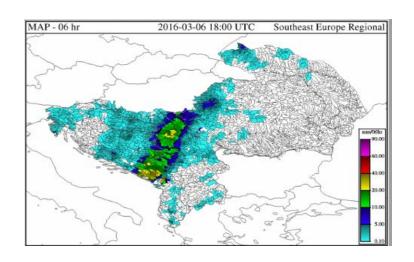


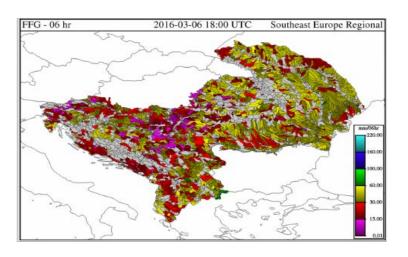
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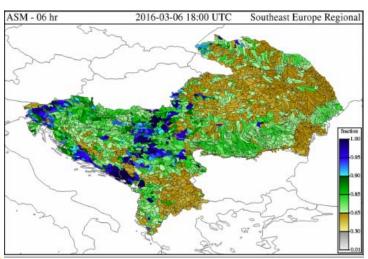


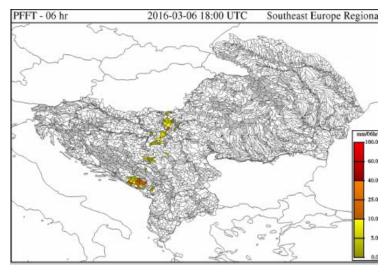


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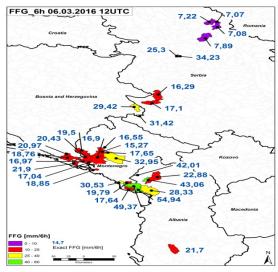


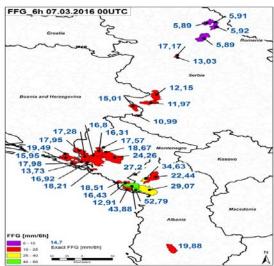


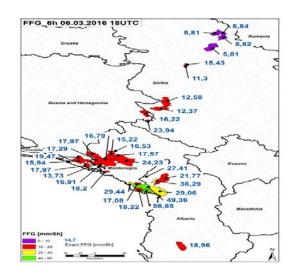


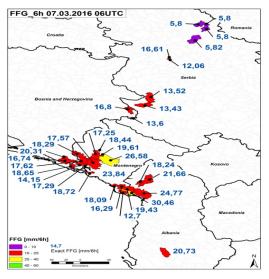


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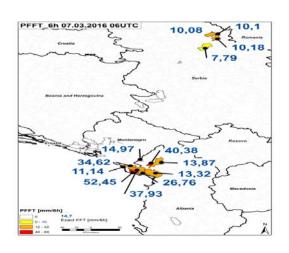


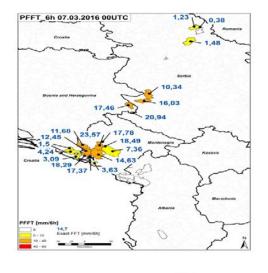


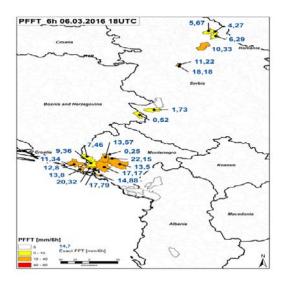


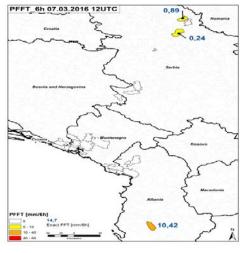


PFFT 6-hr 06032016 18UTC (top left) 07032016 00UTC, 06UTC, 12UTC



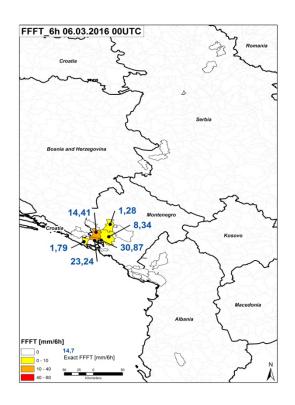


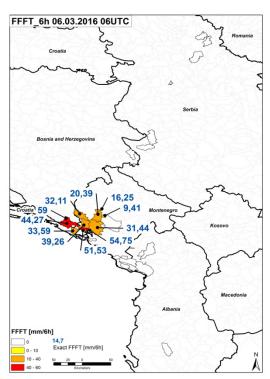


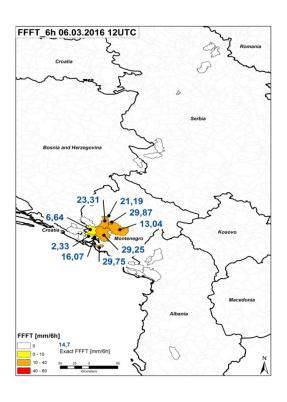




FFFT 6-hr 06032016 00UTC +6-hr

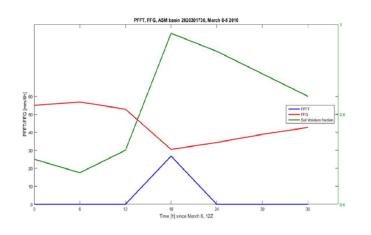


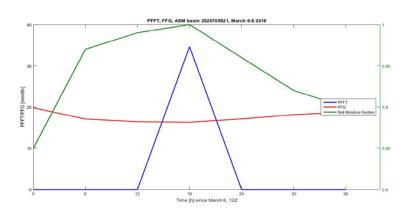


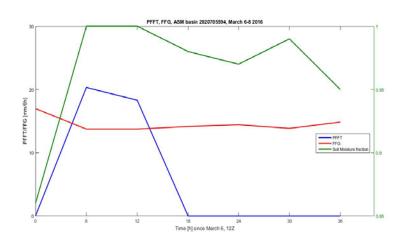


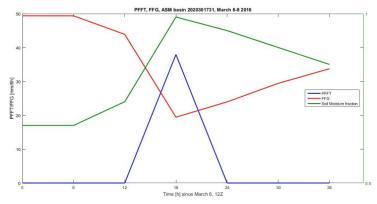


Comparison of FFG&PFFT and ASM For Selected Catchments











Flash Flood Warning

Flash Flood Warnings	
Issued:	6 March 2016 at 00 UTC
Valid	06 UTC
Warning	Flash floods are expected for regions and towns and villages due to heavy rainfall associated with north Pacific depression.



Verification

Serbia – Emergency Declared after Floods Force Hundreds to Evacuate

7 MARCH, 2016 BY RICHARD DAVIES IN EUROPE, NEWS



The Serbian Interior Ministry declared an emergency situation on Monday 7 March 2016, after floods hit the municipalities of Čačak, Lucani and Arilje in central and eastern Serbia.

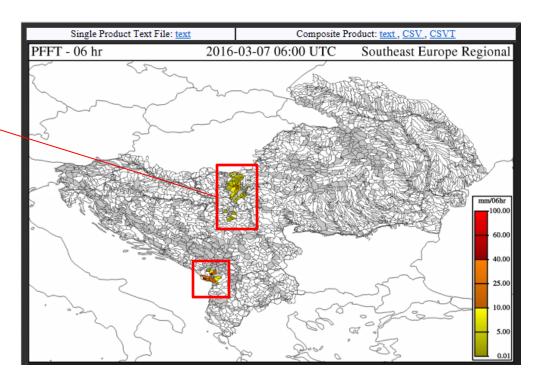
Areas of the country recorded heavy rainfall that began late on Sunday. The Cememica river broke its bank, early on 07 March and flooded around 500 houses in the villages of Konjevici and Preljina. The Serbian government said that 420 people were evacuated.

Serbian Prime Minister Aleksandar Vucic visited Preljina in Čačak, one of the worst hit areas, earlier today.

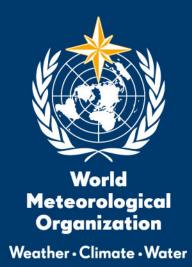
The heavy rain also caused a landslide in the Bajina Basta municipality, damaging homes and roads in the a

Local and national government authorities will start making assessments of the damage and sending aid tomorrow.









Thank you for your attention

Ayhan Sayin asayin@wmo.int