











BSMEFFGS 2014 Verification

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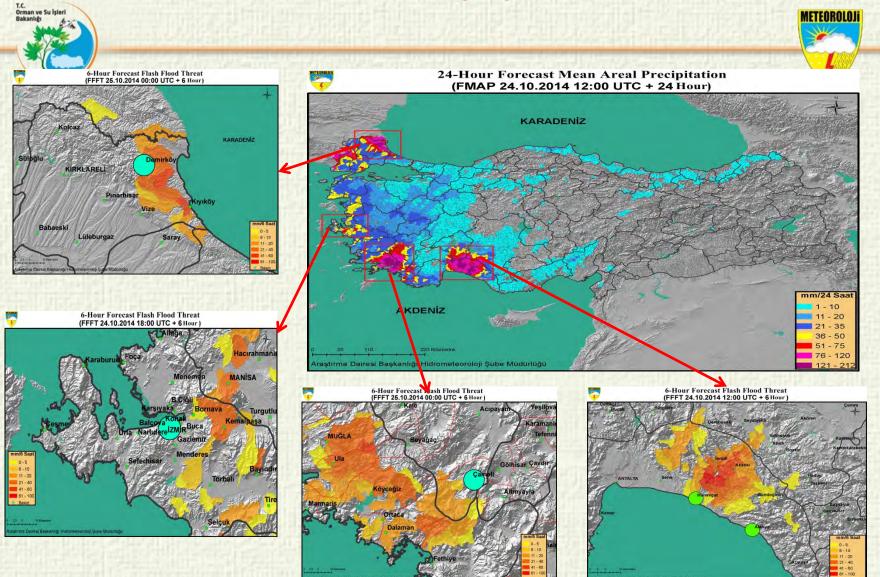
General Definition of Verification



WMO specifies that the main goal of a verification process is to constantly improve the quality of the services (skill and accuracy) including;

- Establishment of a skil and accuracy reference against which subsequent changes in forecast procedures or introduction of new technology can be measured,
- Identification of the specific strengths and weaknesses in a forecaster's skill and the need for forecaster training and similar identification of a model's particular skill and the need for model improvement, and
- Information to the management about a forecast program past and current level of Skill to plan future improvements; information can be used in making decisions concerning the organizational structure, modernization and restructuring the national Hydrometeorological services.

METHODS



TSMS FEVK OBSERVATIONS



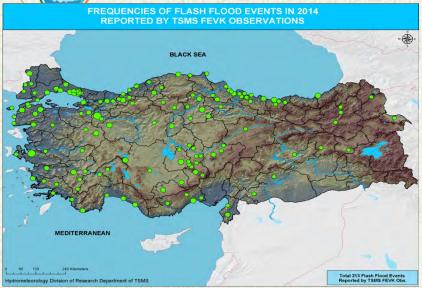


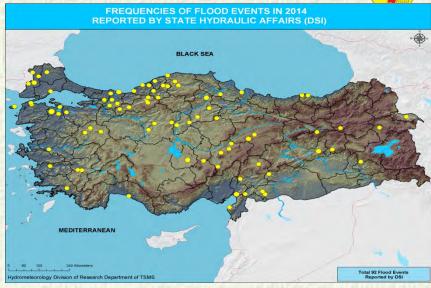
No	Std.No	Lat	Lon	Evet start/finish date/time	Precipt Amoun t (mm)	Domarks	Event Loc. I	Event Loc. II	Event Loc. III	Event IV	Event loc.Lat	Event. Loc. Long	Images	Bulletin
1	17220	38.394 9	27.081 9	28.01.2014 15:13 - 29.01.2014 07:03	45.6	Shower and heavy shower were effective in Izmir city center and Urla, Uzunkuyu, Gümüldür, Aliağa, Kemalpaşa, Menemen, Seferihisar, Çeşme and Dikili towns causing flooding, land slide and property damages.	İzmir				38.3949	27.0819		٧
2	17340	36.780 8	34.603 1	03.03.2014 03:30 - 04.03.2014 09:15	69.8		Mersin				36.7808	34.6031		x
3	17292	37.209 5	28.366 8	03.03.2014 06:05 - 04.03.2014 04:15		zmir had floods but there were no human losses.	Muğla				37.2095	28.3668		٧
4	17265	37.755 3	38.277 5	09.03.2014 20:35 - 10.03.2014 22:05		COLUMN TO BE	Adıyaman				37.7553	38.2775		٧
5	17155	39.417 1	29.989 1	27.04.2014 11:20 - 27.04.2014 11:48	24.6	Heavy shower and hail storm occurred in Kütahya province on 27.04.2014 between 11:20 - 11:48 am. Floods occurred in the following districts Celebi, Cumhuriyet, Bahçelievler ve Ziraat (Karapınar).	Kütahya				39.4171	29.9891	KÜTAHYAM SEL ALTINDA	v

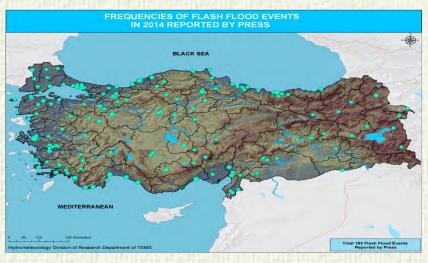
FLASH FLOOD REPORTS









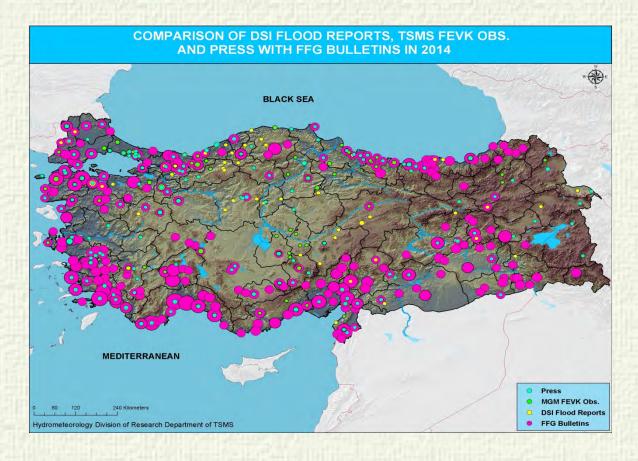


Total 213 flood events were reported by TSMS FEVK obs. While 89 and 193 events were reported by DSI and Press respectively.



SPATIAL DISTRIBUTION OF FLASH FLOODS AND FF BULLETINS IN 2014





CONTINGENCY TABLE





	Observations (TSMS, DSi, Press)							
		YES	NO	Σ				
Bulletins 2014	YES	58(a)	10 (b)	68				
Bulli 20	NO	48 (c) (DSİ+MGM+Basın)	249 (d)	297				
	Σ	106	259	365				
Hit Rate (POD): (a/(a+c))							
False Alarm Rate	(FAR): (b/(a+b))		0.15					
False Alarm Rate	(POFD): b/(b+d)		0.04					
Threat Score: (a/(a+b+c))	图 发出	0.5					

T.C. Orman ve Su İşleri Bakanlığı

CONTINGENCY TABLE



	Observations (TSMS, DSi, Press)							
13)		YES	NO	Σ				
Bulletins (21 May 2012-17 June 2013)	YES	YES 43 (a)		68				
Bulletins May 2012-17 Jur	NO	18 (c)	306 (d)	324				
(21	Σ	61	331	392				
Hit Rate (POD): (a	n/(a+c))		0.70					
False Alarm Rate ((FAR): (b/(a+b))		0.36					
False Alarm Rate ((POFD): b/(b+d)		0.07					
Threat Score: (a/(a	ı+b+c))		0.5					





Thanks for your kind attention...