## Dartmouth Flood Observatory Flood Analysis Report 2003-061

Event:	DFO-2003-061, Southwestern Turkey	Previous Events:	DFO-2001-156, 2001-149.
Duration:	February 4 - March 12, 2003, 37 days	News Notes:	No news reports. Possibly seasonal flooding.
Cause		Locations:	From DFO remote sensing: Izmir and Audin Provinces - Buyukmenderes River
Region Affected:	37,810 sq. km	Watershed:	66,370 sq. km; Buyukmenderes River and tributaries.
Severity:	1	GIS vectors:	20030710910swTurk061M2.35 20030620915WTurk060-61M2.24 20030581115WTurk060-61Ma2.27 20030570855SWTurkey061M2.37 20030410855swTurk061M2.32 20030390910swTurk061M2.35 20030351100SWTurk061Ma2.40

Magnitude: 7.0

<u>Causation categories are:</u> 1, thunderstorm; 2, precipitation band; 3, squall line; 4, stationary front; 5, mesoscale convective complex; 6, convective cloud cluster; 7, tropical cyclone; 8, extra-tropical cyclone; 9, stationary synoptic front; 10, ITCZ wave disturbance; 11, snowmelt; 12, rain and snowmelt; 13, ice jam or ice break-up; 14, dam break; 15, avalanche.

Severity classes: 1, large, 20%-5% exceedance probability – and/or significant damage to structures or agriculture; 2, very large, 5%-1%; 3, extreme, <1%. <u>Flood Magnitude:</u> {Natural Log duration (days)} x {severity class} x {sq rt region affected (sq. km)} x .01.

Duration, region affected, and intensity are estimates from news and government reports.

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http://www.dartmouth.edu/~floods/2003061.pdf

Figure 1. Location of contributing watershed (yellow line) and area affected by flooding (red line)



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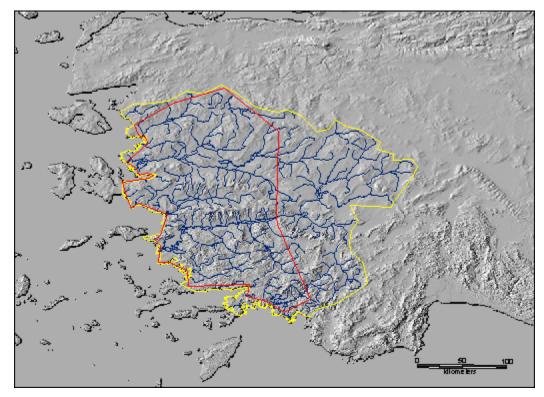


Figure 2. Flood-generating watershed for this flood event.

