

# ARCGIS 9.3'TE SICAKLIK HARİTALARININ HAZIRLANMASI

Mesut DEMİRCAN  
Jeodezi ve Fotogrametri  
Mühendisi  
Klimatoloji Şube Müdürlüğü  
Araştırma Dairesi Başkanlığı

## ARCGIS 9.3 PROGRAMINDA SICAKLIK HARİTALARI HAZIRLANMASI

- Coğrafi Bilgi Sistemleri (CBS): CBS, üretilen verinin yer coğrafyasına bağlı olarak, diğer bir deyişle yer küreye ait koordinatlarla sunulmasıdır. Bu amaçla CBS programları araç olarak kullanılır. CBS programları genelde gerçek koordinatlar ile çalışır. Bu sunumda CBS programlarından bir tanesi olan ArcGIS ile meteorolojik verilerden sıcaklık haritalarının hazırlanması anlatılacaktır.
- Birincil olarak, haritası hazırlanacak parametreye ait noktasal verilerin koordinatlı veriler dosyası (Access, Excel vb.) olarak hazırlanır.



# T.C. ORMAN VE SU İŞLERİ BAKANLIĞI METEOROLOJİ GENEL MÜDÜRLÜĞÜ



osc.xls [Uyumluluk Modu] - Microsoft Excel

Giriş Ekle Sayfa Düzeni Formüller Veri Gözden Geçir Görünüm Acrobat

Kes Kopyala Yapıştır Biçim Boyacı Pano Yazı Tipi Hizalama Sayı Genel Metin Kaydır Birleştir ve Ortala Hücre Stilleri Koşullu Biçimlendirme Tablo Olarak Biçimlendir Hücre Stilleri Ekle Sil Biçim Hücreler Otomatik Toplam Dolgu Temizle Sırala ve Filtre Uygula Bul ve Seç Düzenleme

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
1	Xboylam	Yenlem	ISTASYON	Yukseklık	OÇK	SBT	MRT	NIS	MAY	HAZ	TEM	AGST	EYL	EKİM	KAS	ARA	YIL	KIS	ILKB	YAZ	SONI	
2	29,35	37,43	ACIPAYAM	941	1,9	3,0	6,2	11,0	15,9	20,6	24,0	23,6	19,4	13,6	7,2	3,4	12,5	2,7	11,1	22,7	13	
3	35,34	37,0	ADANA	25	9,6	10,4															27,3	20
4	38,28	37,76	ADIYAMAN	664	4,3	5,6																18
5	36,91	38,24	AFSIN	1220	-3,7	-1,7																11
6	30,56	38,74	AFYON	1034	0,0	1,4																12
7	43,06	39,73	AGRI	1644	-11,2	-9,9																8
8	42,48	38,75	AHLAT	1694	-2,7	-2,6																10
9	39,56	41,02	AKCAABAT	9	6,5	6,3																15
10	31,17	41,08	AKCAKOCA	10	5,0	5,1																13
11	27,82	38,91	AKHISAR	93	5,9	6,9																16
12	34,00	38,37	AKSARAY	962	0,0	1,6																
13	31,43	38,37	AKSEHIR	1003	0,8	2,2																
14	31,98	36,55	ALANYA	6	11,4	11,5																
15	34,32	36,61	ALATA-ERDEML	9	9,6	10,1																
16	32,39	41,74	AMASRA	73	6,0	5,8																
17	35,83	40,67	AMASYA	401	3,1	5,1																
18	32,86	36,08	ANAMUR	5	11,1	11,2																
19	32,86	39,97	ANKARA	891	-0,1	1,7																
20	36,15	36,21	ANTAKYA	105	8,0	9,6																
21	30,68	36,89	ANTALYA	42	0,5	0,9																
22							12,2	15,8	20,2	25,2												
23																						
24																						
25																						
26																						

min.sic(adana-isparta).txt - Not Defteri

Dosya Düzen Biçim Görünüm Yardım

E

CEVR E ve O T.C. RMAN B AKANL IGI  
DEVL ET MET EOROLO JI IS LERİ  
GENEL MUDURL UGU Tem M udu rlu gu

Tektro nık Bı lgi Is

ISTASYON ADI : GİRES UN  
ISTASYON NO : 17034

AYLIK MINİM UM SIC AKLIK (°C)

YIL	OCAK	SUBA	MART	NİSA	MAYI	HAZI	TEMM	AGUS	EYLU	EKİM	KASI	ARAL
1928												
1929	-3,3	-6,6	-5,8	0,3	8,6	12,6	16,6	21,3	9,7	12,2	9,4	1,9
1929	1,2	-3,3	1,7	4,9	9,7	13,1	15,3	15,9	12,9	9,5	5	0,7
1930	-1,4	1,7	-1,1	-0,2								0,8
1931	-1,7	-6,2	-0,3	3,5								
1932	0,2	-0,2	-0,2	3								
1933	0,3	-5	3,4	6								
1934	0,4	0,5	0,1	6,4								
1935												
1938												
1939	4,7	0,8	0,5	2,2								
1940	-2,9	-1,2	-1,8	3,8								
1941	-5,6	-0,1	-0,8	2,1								
1942	-4,2	0,8	-4,8	2,8								
1943	1	-0,2	-2,6	0,6								
1944	-2,5	-1,2	1,8	0,4								
1945	-0,4	-4,6	-0,9	2,8								
1946	-2,6	-2	2,2	1,9								
1947	-1,8	-5,2	1	5,1								
1948	4	0	-0,6	2,2								
1949	-2,6	-4,2	0,1	2,4								
1950	-6,2	-5,8	-0,6	5,1								
1951	-1,9	2,8	2,1	5,4								

aylik\_minimum\_sicakliklarin\_ortalaması\_(T-c).xls [Uyumluluk Modu] - Mic...

Dosya Giriş Ekle Sayfa Düzeni Formüller Veri Gözden Geçir Görünüm Acrobat

Yapıştır Pano Yazı Tipi Hizalama Sayı Genel Stiller Ekle Sil Biçim Hücreler Düzenleme

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	METEOROLOJİ	T.C.											
2	ÇEVRE ve ORMAN BAKANLIĞI												
3	DEVLET METEOROLOJİ İŞLERİ GENEL MÜDÜRLÜĞÜ												
4													
5													
6													
7													
8	Aylık Minimum Sıcaklıkların Ortalaması (°C)												
9													
10	ISTASYON ADI/NO: SAMSUN / 17030												
11	YIL/AY	1	2	3	4	5	6	7	8	9	10	11	12
12	2009	4,9	5,9	4,7	6,0	11,8	17,0	20,2	18,5	16,8	14,6	9,5	8,6
13													
14													
15													
16													
17													
18													
19													

Sayfa1 Sayfa2 Sayfa3

Hazır

39°58'21.70"K

21.70/60 = 0.3617

(58 + 0.3617)/60 = 0.97 => 39,97





# T.C. ORMAN VE SU İŞLERİ BAKANLIĞI METEOROLOJİ GENEL MÜDÜRLÜĞÜ



Turkiye.mxd - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

1:0.346.621

Layer: turh145\_30

Task: Create New Feature

Target:

100%

10

Anal

Add new data to the map's active data frame

**Add Data**

Look in: Atlas

yagis	Ekkord.shp	yagis.xls
Turkiye.mdb	Ekkord_Project.shp	yaslas10
aspect	Extract_OSC_Pro1.shp	yaslas_obs
aspect10km	ort_sic.xls	yaslas_pre
aspect25km	osc.xls	
aspect5km	result_ekkoord.shp	
drop_ext	slope	
EKH.shp	slope 10	
ekkoord.xls	srtm1000.img	

Name: ort\_sic.xls

Show of type: Datasets and Layers (\*.lyr)

**Add Data**

Look in: ort\_sic.xls

Sayfa1\$
Sayfa2\$
Sayfa3\$

Name: Sayfa1\$

Show of type: Datasets and Layers (\*.lyr)

Add Cancel



# T.C. ORMAN VE SU İŞLERİ BAKANLIĞI



Turkiye.mxd - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

1:8,346,621 100%

Geostatistical Analyst Spatial Analyst Layer: turhil45\_30 Editor Task: Create New Feature Target:

**Analiz**

- D:\GIS\Eskiler\Turkiye.mxd
- Turkiye\_Gol
- turdissin\_geo
- cogbolge
- turkiye\_iller\_kbrs
- D:\GIS\Eskiler\
- turhil45\_30
- D:\GIS\Eskiler\Kibris\
- kibris\_hill
- D:\GIS\Atlas\ort\_sic.xls
- Sayfa15

**ArcToolbox**

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- System Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools

Open

Joins and Relates

Remove

Data

Geocode Addresses...

Display Route Events...

Display XY Data ...

Properties...



Display Source Selection Favorites Index Search Results

Drawing 10 B I U A

Adds a new map layer based on XY events from a table

25°48'33,87"E 38°49'31,47"N



# T.C. ORMAN VE SU İŞLERİ BAKANLIĞI METEOROLOJİ GENEL MÜDÜRLÜĞÜ



Turkiye.mxd - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

1:8.346.621

Gegstatistical Analyst Spatial Analyst Layer: turhil45\_30 Editor Task: Create New Feature Target:

Analiz

- D:\GIS\Eskiler\TU
- Turkiye\_Gol
- turdissin\_gec
- cogbolge
- turkiye\_iller
- D:\GIS\Eskiler\
- turhil45\_30
- D:\GIS\Eskiler\K
- kibris\_hill
- D:\GIS\Atlas\ort
- Sayfa1\$

### Display XY Data

A table containing X and Y coordinate data can be added to the map as a layer

Choose a table from the map or browse for another table:

Sayfa1\$

Specify the fields for the X and Y coordinates:

X Field: Xboylam

Y Field: Yenlem

Coordinate System of Input Coordinates

Description:

Unknown Coordinate System

Show Details

Warn me if the resulting layer will have restricted functionality

OK Cancel

### Spatial Reference Properties

XY Coordinate System

Name: Unknown

Details:

Select... Select a predefined coordinate system.

Import... Import a coordinate system and X/Y, Z and M domains from an existing geodataset (e.g., feature dataset, feature class, raster).

New Create a new coordinate system.

Modify... Edit the properties of the currently selected coordinate system.

Clear Sets the coordinate system to Unknown.

Save As... Save the coordinate system to a file.

Tamam İptal Uygula

### Browse for Coordinate System

Look in: Europe

Estonia 1992.prj	fk89.prj	Kartastoko
Estonia 1997.prj	GGRS 1987.prj	Lisbon.prj
ETRF 1989.prj	Greek.prj	Lisbon (List
ETRS 1989.prj	Greek (Athens).prj	Lisbon 189
EUREF FIN.prj	Hermannskogel.prj	Lisbon 189
European 1979.prj	Hjorsey 1955.prj	LKS 1992.p
European Datum 1950.prj	Hungarian Datum 1972.prj	LKS 1994.p
European Datum 1987.prj	IRENET95.prj	Luxembour
FD 1954.prj	ISN 1993.prj	Madrid 187

Name: European Datum 1950.prj

Show of type: Coordinate Systems

Add Cancel

Display Source Selection

Favorites Index Search Results

Drawing 10 B I U A

25°48'33,87"E 38°49'31,47"N

### Spatial Reference Properties

#### XY Coordinate System

Name: GCS\_European\_1950

#### Details:

Angular Unit: Degree (0,017453292519943299)  
Prime Meridian: Greenwich (0,00000000000000000000)  
Datum: D\_European\_1950  
Spheroid: International\_1924  
Semimajor Axis: 6378388,00000000000000000000  
Semiminor Axis: 6356911,94612794650000000000  
Inverse Flattening: 297,00000000000000000000

- Select... Select a predefined coordinate system.
- Import... Import a coordinate system and X/Y, Z and M domains from an existing geodataset (e.g., feature dataset, feature class, raster).
- New Create a new coordinate system.
- Modify... Edit the properties of the currently selected coordinate system.
- Clear Sets the coordinate system to Unknown.
- Save As... Save the coordinate system to a file.

Tamam İptal Uygula

### Display XY Data

A table containing X and Y coordinate data can be added to the map as a layer

Choose a table from the map or browse for another table:

Sayfa1\$

Specify the fields for the X and Y coordinates:

X Field: Xboylam  
Y Field: Yenlem

#### Coordinate System of Input Coordinates

#### Description:

Geographic Coordinate System:  
Name: GCS\_European\_1950

- Show Details
- Warn me if the resulting layer will have restricted functionality

OK Cancel





# T.C. ORMAN VE SU İŞLERİ BAKANLIĞI METEOROLOJİ GENEL MÜDÜRLÜĞÜ



Turkiye.mxd - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

1:8.346.621

Geostatistical Analyst Spatial Analyst Layer: turhil45\_30 Editor Task: Create New Feature Target:

**Analiz**

- Türkiye
- Türkiye\_Gol
- turdissin\_geo
- cogbolge
- turkiye\_iller\_kbrs
- turhil45\_30
- 1:8.346.621

**ArcToolbox**

- 3D Analyst Tools
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- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools

## Table Does Not Have Object-ID Field

The table you specified does not have an Object-ID field so you will not be able to select, query, or edit the features in the resulting layer, or define relates for them.

After you create this layer, you can export it to a shapefile or feature class if you need these functions. To export a layer, right-click it in the Table Of Contents and choose Data>Export Data. Add the exported data to the map as a new layer.

Tamam

İptal

Display Source Selection

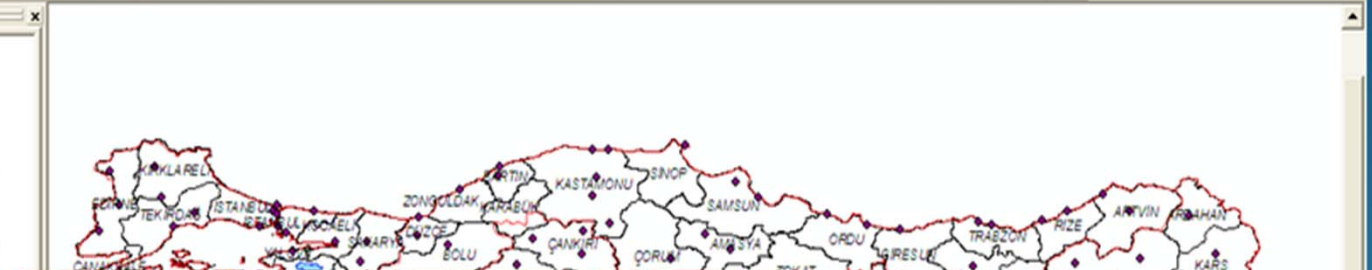
Favorites Index Search Results

Drawing Anal 10 **B I U**

25°43'47,88"E 36°14'36,78"N



- Distance
- Density...
- Interpolate to Raster
- Surface Analysis
- Cell Statistics...
- Neighborhood Statistics...
- Zonal Statistics...
- Zonal Histogram...
- Reclassify...
- Raster Calculator...
- Convert
- Options...



### Options

General | Extent | Cell Size

Working directory: mircan\Local Settings\Temp\

Analysis mask: turdissin\_geo

Analysis Coordinate System: turdissin\_geo

Analysis output will be saved in the same coordinate system as the active data frame.

Display warning message if raster inputs have to be projected during analysis operation.

Tamam iptal

- Analiz
- D:\GIS\Atlas\or
- Sayfa 1\$ Ev
- Sayfa 1\$
- D:\GIS\Eskiler\T
- Turkiye\_Gol
- turdissin\_ge
- cogbolge
- turkiye\_iler
- D:\GIS\Eskiler\
- turhi45\_30
- D:\GIS\Eskiler\K
- kbris\_hill

- Distance
- Density...
- Interpolate to Raster
- Surface Analysis
- Cell Statistics...
- Neighborhood Statistics...
- Zonal Statistics...
- Zonal Histogram ...
- Reclassify...
- Raster Calculator...
- Convert
- Options...

- Inverse Distance
- Spline...
- Kriging...
- Management Tools
- g Tools
- ical Analyst Tools
- ferencing Tools
- nsion Tools
- analyst Tools
- ols
- alyst Tools
- atistics Tools
- analyst Tools

### Inverse Distance Weighted

Input points: Sayfa 1\$ Events

Z value field: Xboylam

Power: KAS, ARA, **YIL**, KIS

Search radius type:

Search Radius Settings

Number of points: 12

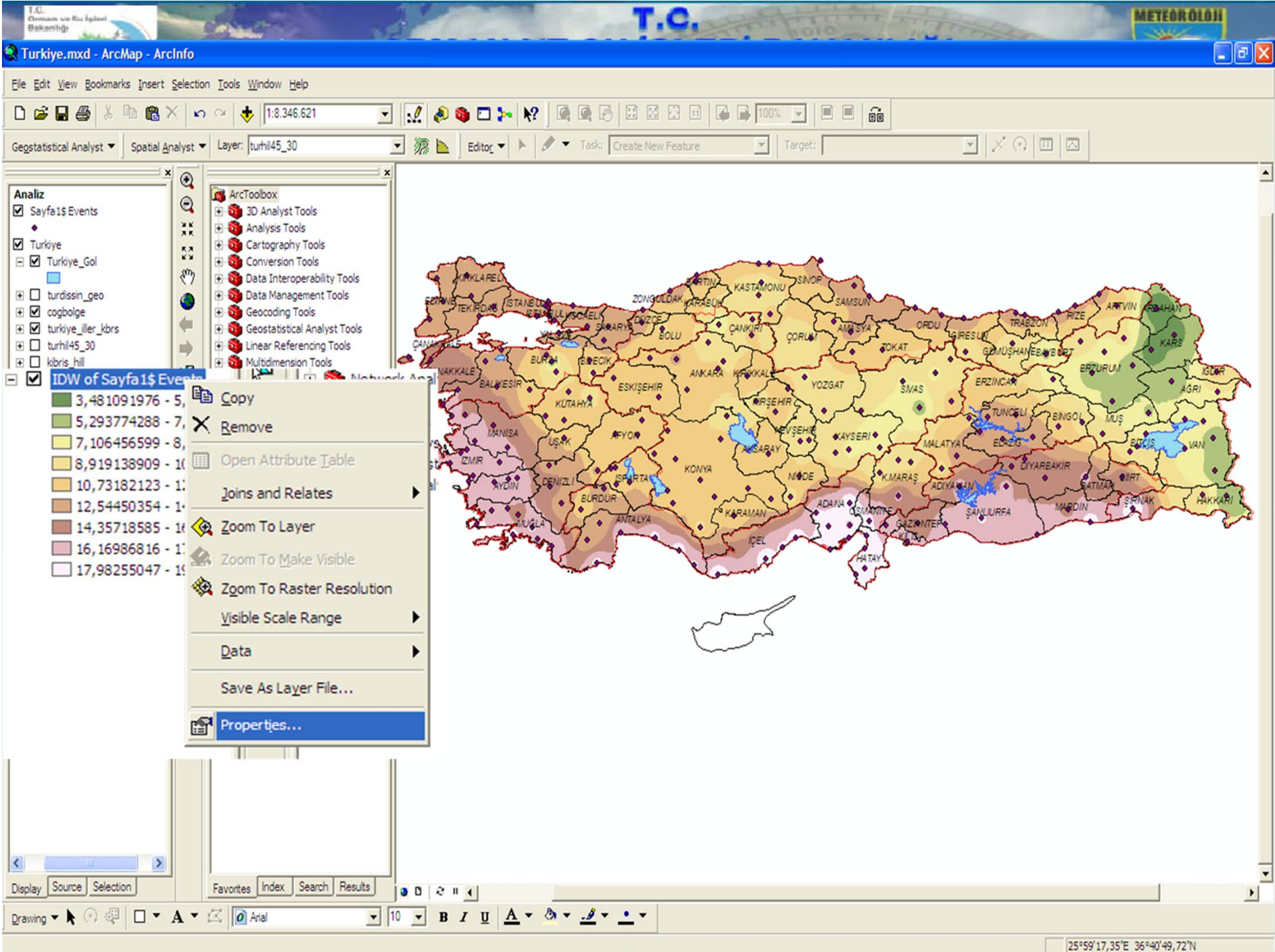
Maximum distance:

Use barrier polylines:

Output cell size: 0,0367248

Output raster: <Temporary>

OK Cancel





# T.C. ORMAN VE SU İŞLERİ BAKANLIĞI METEOROLOJİ GENEL MÜDÜRLÜĞÜ



Türkiye.mxd - ArcMap - ArcInfo

File Edit View

Gegstatistical Anal

Analiz

Sayfa 1\$ Event

Türkiye

Türkiye\_Ge

turdissin\_Ge

cogbolge

turkiye\_ille

turhil45\_3e

kibris\_hill

IDW of Sa

3,4810

5,2937

7,1064

8,9191

10,731

12,544

14,357

16,169

17,982

## Layer Properties

General Source Extent Display Symbology Fields Joins & Relates

Show:

Unique Values

Classified

Stretched

Draw raster grouping values into classes

Import...

Fields

Value:

<VALUE>

Classification

Equal Interval

Normalization:

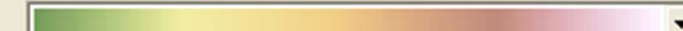
<None>

Classes:

9

Classify...

Color Ramp:



Symbol	Range	Label
	3,48 1091976 - 5,293774287	3,5 - 5,3
	5,293774287 - 7,106456598	5,4 - 7,1
	7,106456598 - 8,919138908	7,2 - 8,9
	8,919138908 - 10,73182122	9,0 - 10,7
	10,73182122 - 12,54450353	10,8 - 12,5
	12,54450353 - 14,35718584	12,6 - 14,4
	14,35718584 - 16,16986815	14,5 - 16,2

Show class breaks using cell values

Display NoData as

Use hillshade effect

Z: 1

Tamam

## Number Format

Category:

None

Currency

Numeric

Direction

Percentage

Custom

Rate

Fraction

Scientific

Angle

Rounding

Number of decimal places

Number of significant digits

1

Alignment

Left

Right

12 characters

Show thousands separators

Pad with zeros

Show plus sign

General options for the display of numbers

OK

Cancel

Display Source Selection

Favorites Index Search Results

Layer Properties

General Source Extent Display Symbology Fields Joins & Relates

Show:  
Unique Values  
Classified  
Stretched

Draw raster grouping values into classes Import...

Fields  
Value: <VALUE>  
Normalization: <None>

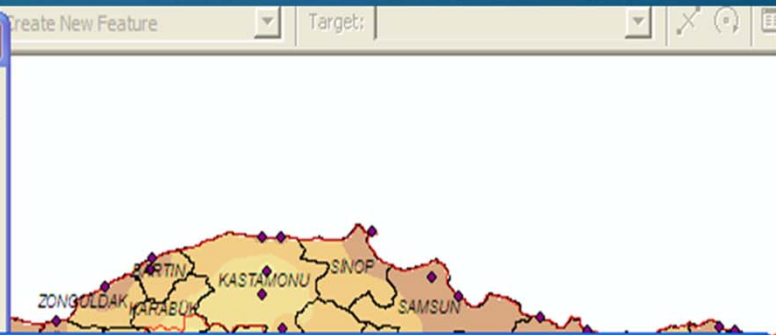
Classification  
Equal Interval  
Classes: 9 Classify...

Color Ramp:

Symbol	Range	Label
	3,481091976 - 5,293774287	3,5 - 5,3
	5,293774287 - 7,106456598	5,4 - 7,1
	7,106456598 - 8,919138908	7,2 - 8,9
	8,919138908 - 10,73182122	9,0 - 10,7
	10,73182122 - 12,54450353	10,8 - 12,5
	12,54450353 - 14,35718584	12,6 - 14,4
	14,35718584 - 16,16986815	14,5 - 16,2

Show class breaks using cell values Display NoData as  
 Use hillshade effect Z: 1

Tamam



Classification

Classification  
Method: Defined Interval  
Classes: 5 Interval Size: 1

Data Exclusion  
Exclusion ... Sampling ...

Columns: 100  Show Std. Dev.  Show Mean

Classification Statistics

Count:	60475
Minimum:	3,5
Maximum:	19,8
Sum:	732.174,1
Mean:	12,1
Standard Deviation:	3,0

Break Values %

4,0	%
7,9	
11,9	
15,8	
19,8	

Snap breaks to data values

OK Cancel



# T.C. ORMAN VE SU İŞLERİ BAKANLIĞI METEOROLOJİ GENEL MÜDÜRLÜĞÜ



Türkiye.mxd - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

1:8,235,330 74%

Gegstatistical Analyst Spatial Analyst Layer: turhil45\_30 Editor Task: Create New Feature Target:

**Analiz**

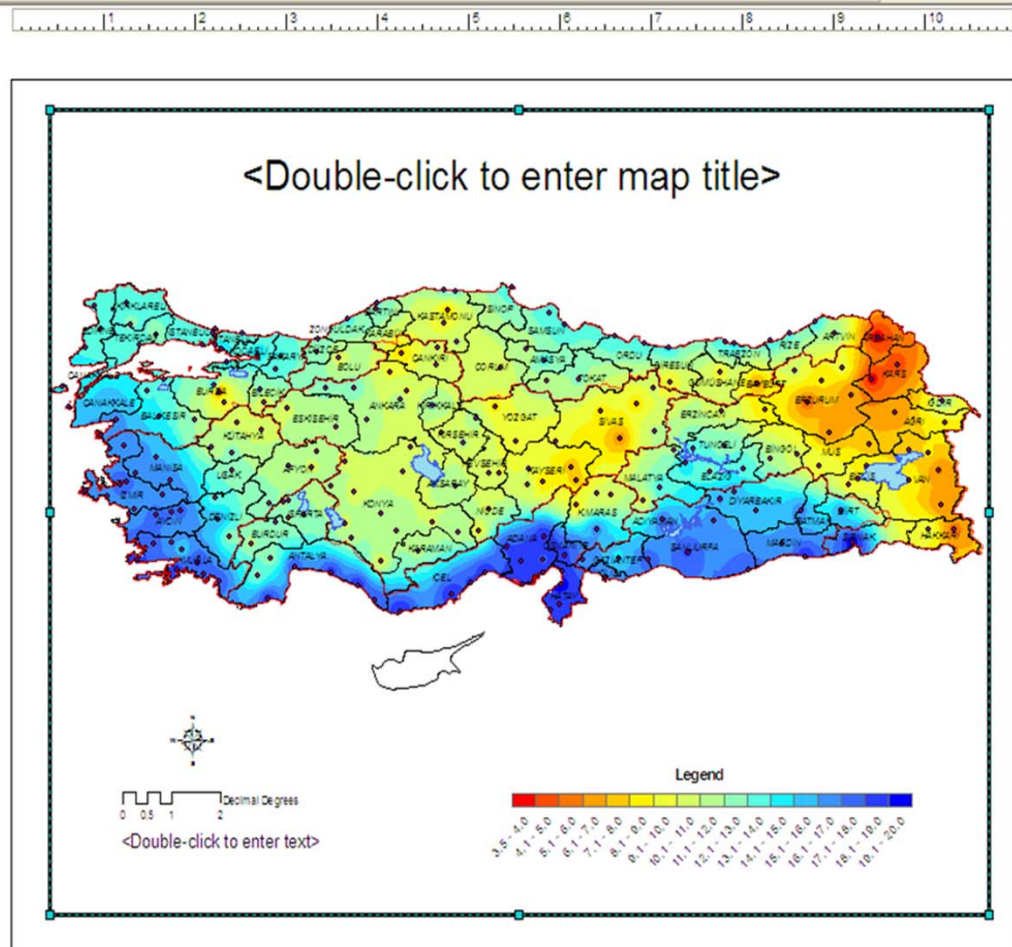
- Sayfa15\$ Events
- Türkiye
  - Türkiye\_Gol
  - turdissin\_geo
  - cogbolge
  - turkiye\_iller\_kbrs
  - turhil45\_30
  - kibris\_hill
  - IDW of Sayfa15\$ Events

Legend for IDW of Sayfa15\$ Events:

- 3,5 - 4,0
- 4,1 - 5,0
- 5,1 - 6,0
- 6,1 - 7,0
- 7,1 - 8,0
- 8,1 - 9,0
- 9,1 - 10,0
- 10,1 - 11,0
- 11,1 - 12,0
- 12,1 - 13,0
- 13,1 - 14,0
- 14,1 - 15,0
- 15,1 - 16,0
- 16,1 - 17,0
- 17,1 - 18,0
- 18,1 - 19,0
- 19,1 - 20,0

**ArcToolbox**

- 3D Analyst Tools
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- Geostatistical Analyst Tools
- Linear Referencing Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools



Display Source Selection Favorites Index Search Results Drawing [Tools] Anal 10 B I U [Layers] [Scale] [Status]





# T.C. ORMAN VE SU İŞLERİ BAKANLIĞI METEOROLOJİ GENEL MÜDÜRLÜĞÜ



Türkiye.mxd - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

1:8.235.330

Layer: turh145\_30

Task: Create New Feature

Target:

74%

1 2 3 4 5 6 7 8 9 10

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

<Double-click to enter map title>

Legend

3,6 - 4,0
4,1 - 5,0
5,1 - 6,0
6,1 - 7,0
7,1 - 8,0
8,1 - 9,0
9,1 - 10,0
10,1 - 11,0
11,1 - 12,0
12,1 - 13,0
13,1 - 14,0
14,1 - 15,0
15,1 - 16,0
16,1 - 17,0
17,1 - 18,0
18,1 - 19,0
19,1 - 20,0

0 0,5 1 2 Decimal Degree

<Double-click to enter text>

Display Source Selection Favorites Index Search Results

Drawing

10

Export map to graphics file

-1,13 5,39 Inches



# T.C. ORMAN VE SU İŞLERİ BAKANLIĞI METEOROLOJİ GENEL MÜDÜRLÜĞÜ



Türkiye.mxd - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

New... Ctrl+N  
Open... Ctrl+O  
Save Ctrl+S  
Save As...  
Save A Copy...  
Add Data...  
Add Data From Resource Center...  
Page and Print Setup...  
Print Preview...  
Print...  
Document Properties...  
Import from ArcView project...  
Export Map...  
1 D:\GIS\Türkiye.mxd  
2 D:\GIS\Zirai\Zirai\_sicaklik.mxd  
3 D:\GIS\1971-2...7100\_sicaklik.mxd  
4 D:\GIS\Paper\paper.mxd  
5 D:\WorldDATA\prep.mxd  
6 D:\GIS\Atlas\New Fo... \Tr\_den.mxd

Exit Alt+F4

1:8.235.330  
layer: turhi45\_30

ArcToolbox  
3D Analyst Tools  
Analysis Tools  
Cartography Tools  
Conversion Tools  
Data Interoperability  
Data Management  
Geocoding Tools  
Geostatistical Analysis  
Linear Referencing  
Multidimension Tools  
Network Analyst Tools  
Samples  
Server Tools  
Spatial Analyst Tools  
Spatial Statistics Tools  
Tracking Analyst Tools

En Son Kullandıklarım  
Masaüstü  
Belgelerim  
Bilgisayarım  
Ağ Bağlantıları

Konum: Zirai\_tahmin

AKD_OSC_7100.png	mar_OSC_7100.png	t_prjmn_MM.png
Ankara_SICAKLIK.png	SONB.png	t_prjmx.png
DA_OSC_7100.png	SONB_FRK.png	YAZ.png
EGE_OSC_7100.png	SONB_PRJ.png	YAZ_FRK.png
GA_OSC_7100.png	t_dsmn_25C.png	YAZ_PRJ.png
ICAND_OSC_7100.png	t_dsmx_25C.png	
ILKB.png	t_mn_1C.png	
ILKB_FRK.png	t_mn_25C.png	
ILKB_PRJ.png	t_mx_25C.png	
Isparta_sicaklik.png	t_prjmn.png	
Isparta_yagis.png	t_prjmn_DA1.png	
KD_OSC_7100.png	t_prjmn_DA.png	
KIS.png	t_prjmn_EG05.png	
KIS_FRK.png	t_prjmn_EG.png	
KIS_PRJ.png	t_prjmn_MM1.png	

Dosya adı: Türkiye.png  
Kayt türü: PNG (\*.png)

Kaydet  
İptal

Options  
General | Format  
Resolution: 300 dpi  
Width: 3088 pixels  
Height: 2357 pixels  
 Write World File  
 Clip Output to Graphics Extent

Display Source Selection  
Favorites Index Search

Drawing

Export map to graphics file

-1,13 5,39 Inches



# ARCGIS 9.3'TE SICAKLIK HARİTALARININ HAZIRLANMASI

# TEŞEKKÜRLER...

Mesut DEMİRCAN  
Jeodezi ve Fotogrametri Mühendisi  
Klimatoloji Şube Müdürlüğü  
Araştırma Dairesi Başkanlığı

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