

# BBY 220: Bilgi Eriřim İlkeleri

Hacettepe Üniversitesi  
Bilgi ve Belge Yönetimi Bölümü

# Coğrafi Bilgi Erişim

Bazı slaytlar: Ray Larson'ın ([www.çischool.berkeley.edu](http://www.çischool.berkeley.edu)) web sayfasından alındı



# Plan

- ➡ Coğrafi Bilgi Eriřim Nedir?
- ➡ Coğrafi ve Mekansal (Uzamsal) Sorgulama ve Gezinme
- ➡ Coğrafi ve Mekansal Dizinleme
- ➡ Coğrafi Bilgi Eriřim Sistemleri Örnekleri ve Coğrafi Olarak Dizinlenmiř Bilgi

# Giriř

## ☞ Coğrafi Bilgi Eriřim Nedir?

- CBE coğrafi referans (enlem-boylam) içeren bilgi kaynaklarına erişim demektir. Tüm geleneksel BE araştırma alanlarını içerir. Ayrıca mekansal ve coğrafi dizinleme ve erişim de ilgi CBE'nin ilgi alanındadır.
- CBE, VTYS, BE ve kullanıcı arayüzü arařtırmalarının bileřkesidir.



# Giriş

- ☞ Coğrafi ve mekansal bilgi erişim ihtiyacı
  - Dijital Kütüphaneler
    - ◆ Sequoia 2000
    - ◆ UC Berkeley NSF/NASA/ARPA Dijital Kütüphane Projesi
    - ◆ UC Santa Barbara Alexandria Projesi
    - ◆ NSDI - National Spatial Data Infrastructure (Amerikan Ulusal Mekansal Veri Alt Yapısı)



# Coğrafi ve Mekansal Sorgulama

- ➔ Belli bir koordinat sisteminde sorgulama yapmak anlamına gelir
- ➔ Mekansal sorgulama daha genel bir terim
- ➔ Geometrik olarak tanımlanan ve uzayda yer alan varlıkların mekansal ilişkileri (arakesit, sınır, yakınlık vs.) hakkındaki sorgulardır



# Coğrafi ve Mekansal Sorgulama

- ➔ Coğrafi koordinatlar **geometrik** ilişkilerdir (mesafe ve yön sürekli bir ölçekle ölçülebilir)
  - Ör. “Ankara’nın 17 km. batısı”

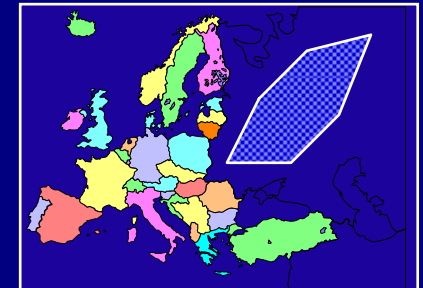
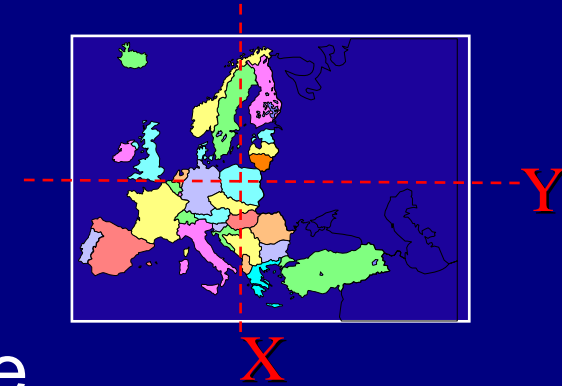
- ➔ Mekansal ilişkiler hem geometrik hem **topolojik** olabilir  
Spatial relations (mekansal ama mesafe ve kesin yön ile ölçülemeyen)
  - E.g.: “şehir sınırları içinde”
  - “Yıldız Amfi’nin sol tarafı”



# Coğrafi ve Mekansal Sorgulama

## ☞ Mekansal sorgu türleri

- Poligonda nokta : “X,Y kesişim noktasında ne var?”
- Bölge sorguları : “Bu bölgede ne var”
  - ◆ Bölgede hangi kodlu malzeme var
  - ◆ Bölgenin sınırları
  - ◆ Bölgede kesişen alanlar







# Coğrafi ve Mekansal Sorgulama

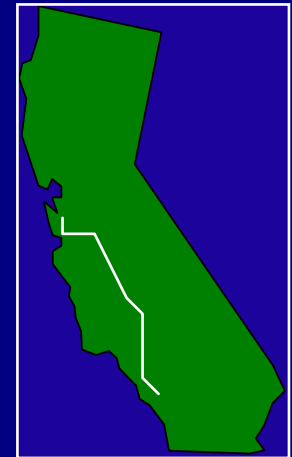
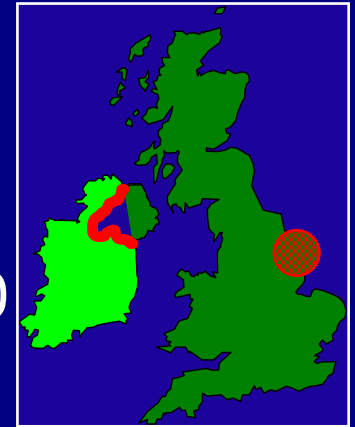
## ☞ Mekansal sorgu türleri (devamla)

### – Mesafe ve Tampon Böge soruları

- ◆ Kuzey ve Güney İrlanda sınırlarınının 40 mil içerisinde hangi şehirler var?
- ◆ Londra'ya 50 mil uzaklıkta hangi bataklıklar var?

### – Patika soruları

- ◆ San Francisco'dan Los Angeles'a en kısa yol hangisidir?



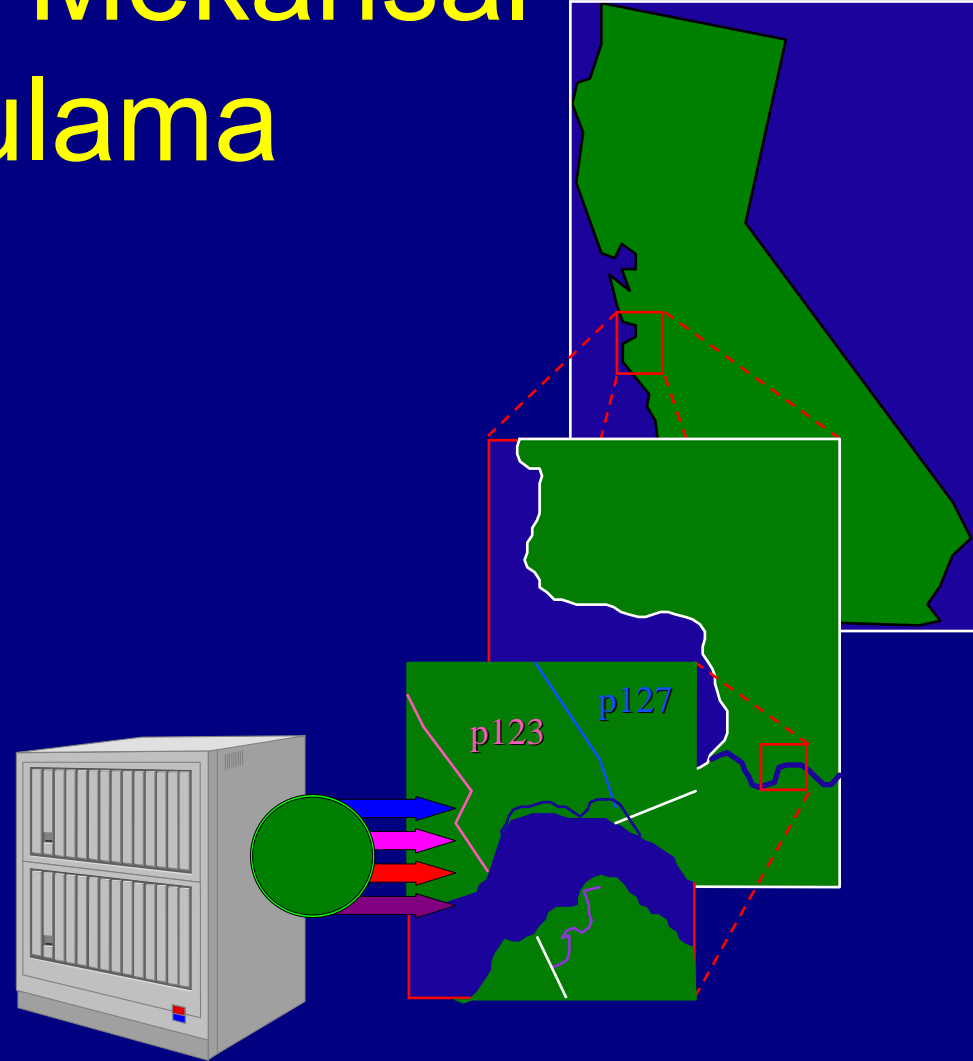


# Coğrafi ve Mekansal Sorgulama

## ➔ Mekansal sorgu türleri (devamla)

– Çoklu ortam sorguları :  
Haritalanmamış yer tanımları ile ilgili sorular

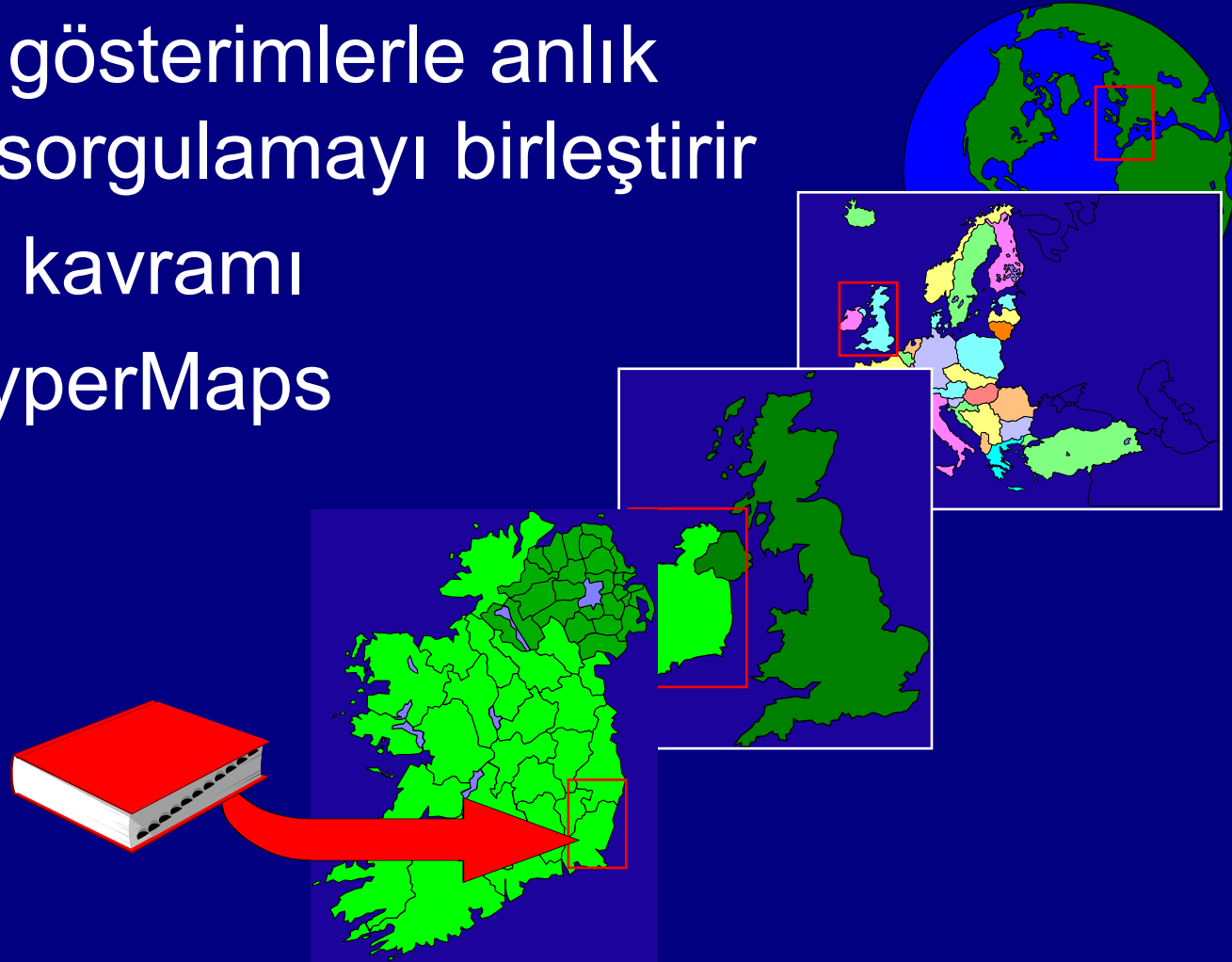
- ◆ Monterey and Santa Cruz illerinde selden etkilenen çiftçilerin adları





# Mekansal Gezinme

- Etkileşimli gösterimlerle anlık mekansal sorgulamayı birleştirir
- HyperMap kavramı
- Yalancı-HyperMaps





# Mekansal Gezinme

## ☞ Avantajları:

- CBS doğruluğu gerekemeyebilir
- Çoğu materyal için kapsamlı arama metaforu

## ☞ Sorunlar:

- Karmaşa ve farklı ölçekler
- İyi (ve tercihan doğru) coğrafi dizinleme gerektirir
- Kullanıcının biraz coğrafya bildiğini varsayar



# Coğrafi ve Mekansal Dizinleme

- ➔ Geleneksel coğrafi dizinleme LCSH’ten yer adları ve yer yetkedizinleri kullanmayı gerektirir. Bu bazı sorunlar yaratır:
  - Adlar tekil değildir
  - Referans verilen yerin büyüklüğü, şekli ve adı zamanla değişebilir
  - Farklı heceleme
  - Bazı yerler geçicidir (çalışma alanları, vs.)



## Dijital Yer Adları Dizinleri (Gazetteers)

- ☞ Coğrafi adlar dijital kütüphanelerdeki mekansal sorgular için giriş sözdağarcığını oluşturur
  - Yer adları dizini bir adın mümkün olan bütün değişik biçimlerini desteklemeli
    - ◆ Belli adlar için zaman sınırları da dahil
  - Sorgulama, yer adları dizinine ve sistemde bulunan ya da ağ aracılığıyla erişilen diğer coğrafi ve zamansal bilgiye dayalı mekansal muhakemeyi desteklemelidir.

**Geographic Feature ID:** 1200

**ADL Gazetter Content Standard**

**Geographic Name:** Barbuda

**Name Authority:** U.S. Board on Geographic Names (BGN)

**Variant Name:** Barbuda Island

### **Type of Geographic Feature**

**Scheme:** ADL Feature Type Thesaurus

**Type:** islands

**Scheme:** NIMA Feature Designation

**Type:** ISL (island)

### **Geographic Feature Code**

**Scheme:** NIMA

**Code:** AC01

### **Related Feature**

**Relationship type:** isPartof

**Name:** Antigua and Barbuda; Leeward Islands, West Indies

### **Spatial Location**

**Longitude:-** 61.8

**Latitude:** 17.6



# Coğrafi ve Mekansal Dizinleme

- ☞ Coğrafi koordinatların yer adlarına göre bazı avantajları var:
  - Adı ya da sınırları değişse de koordinatlar değişmez
  - Mekansal gezinme arayüzlerine ve CBS verilerine kolayca bağlanabilir
  - CBE erişim ve mekansal sorgular için tutarlı bir çerçeve sağlar
- ☞ Ama zamanla coğrafi sınırlar ve varlıkların sınırları da değişiyor
  - Tarihçilerin temel ilgi alanı





# Coğrafi ve Mekansal Dizinleme

- ☞ GIPSY: Metinlerin otomatik yer referans bilgisi (Coğrafi Bilgi İşleme Sistemi)
  - Allison Woodruff ve Christian Plaunt – Daha sonra Jolly Chen’in VTYS’ye dayalı sürümü
  - Belgelerin tam metinleri üzerinde işleyecek şekilde tasarlandı
  - Çeşitli kanıtlar kullanarak metinde geçen coğrafi terimleri çıkarıyor ve koordinatlarını saptamaya çalışıyor



# Coğrafi ve Mekansal Dizinleme

## ☞ GIPSY (devamla)

- Adları adı geçen yerlerin ve coğrafi özelliklerin koordinatlarıyla birleştirmek için USGS Geographic Names Information System (GNIS) ve Geographic Information Retrieval and Analysis System (GIRAS) sistemlerini kullanıyor



# Coğrafi ve Mekansal Dizinleme

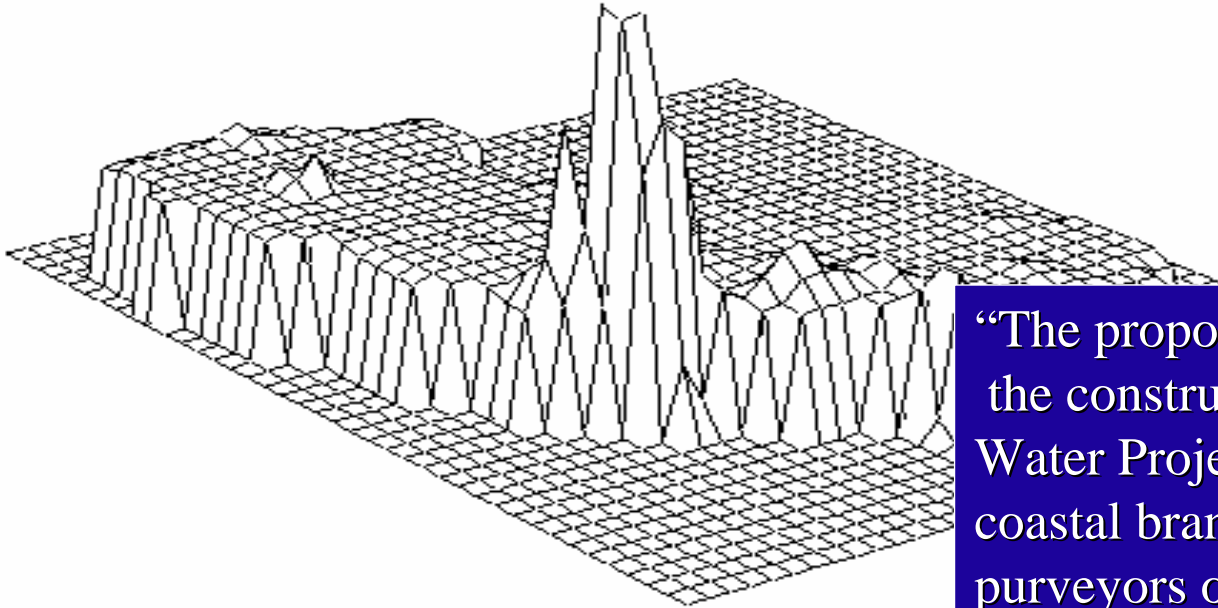
## ☞ GIPSY (devamla)

- Saptanan yerler “rakım” olarak ekleniyor, her yer metinde geçiş sıklığına ve veri tabanı özelliklerine dayalı bir ağırlık ekliyor
- Ortaya çıkan harita muhtemel yerleri ve bu yerlerin koordinatlarını saptamak için analiz ediliyor



# Coğrafi ve Mekansal Dizinleme

## ☞ GIPSY Map Overlay



“The proposed project is the construction of a new State Water Project facility, the coastal branch... by water purveyors of northern Santa Barbara County... delivering water to San Luis Obispo ...”



# Coğrafi ve Mekansal Dizinleme

- ➔ GIPSY yer adları dizininin dijital kütüphanelerde toplanan kültürel ve insani malzeme için yararlı olması için
  - Farklı zaman sınırlarını, yer ve sınır değişikliklerini desteklemeli
  - Aynı varlık için farklı yerlerdeki aş anlamlı ve değişik isimleri desteklemeli
  - Adları birçok dil, alfabe ve kullanım için desteklemeli



# ECAI

- ➔ Electronic Cultural Atlas Initiative BT ve insan bilimcilerinin ortak alıřması
- ➔ ECAI merkezi metadata katalogu ve CBS görüntüleyicisiyle birlikte kültürel ve tarihi kaynakların küresel dağıtık mekansal-zamansal bir kütüphanesini geliştiriyor
- ➔ ECAI konsorsiyumu birom proje içeriyor



## ECAI

- ➔ Projeler kişisel küçük çalışmalardan ulusal ve uluslararası destekli olanlara kadar değişik bir yelpazede. Ör.
  - Greco-Roman kültürünün coğrafyası (Perseus project)
  - Budist sanat ve mimarisiyle ilgili 300.000 görüntü yer isimleri
  - Sasani İmparatorluğunun mühürleri
  - Avrasya'daki tarihi ticaret yolları
  - Hideyoshi'nin Kore işgalinin haritası
  - Çin, Birleşik Krallık, ABD, Karadeniz ve Tibet tarihi CBS projeleri



ECAI - Electronic Cultural Atlas Initiative - Windows Internet Explorer

http://www.ecai.org/

File Edit View Favorites Tools Help

ECAI - Electronic Cultural... x iGoogle



## Electronic Cultural Atlas Initiative

About ECAI Activities Community Atlases Research Technology Participating

**ECAI uses time and space to enhance understanding and preservation of human culture.**

**Highlights**

**Congress of Cultural Atlases IV**  
**April 21-25, 2008**  
**Perth, Australia**  
**Updated Program**

**United Nations Vesak Day Celebration**  
**May 13- 17, 2008**  
**Hanoi, Vietnam**

**Cultural Atlas Portal**



Link to example projects or browse cultural atlases in Google Earth

**Dynamic Map Catalog** Search the ECAI

Done Internet | Protected Mode: On 100%

Start b... 10 W... 4 2 b... F... G... 2 TR 01:23



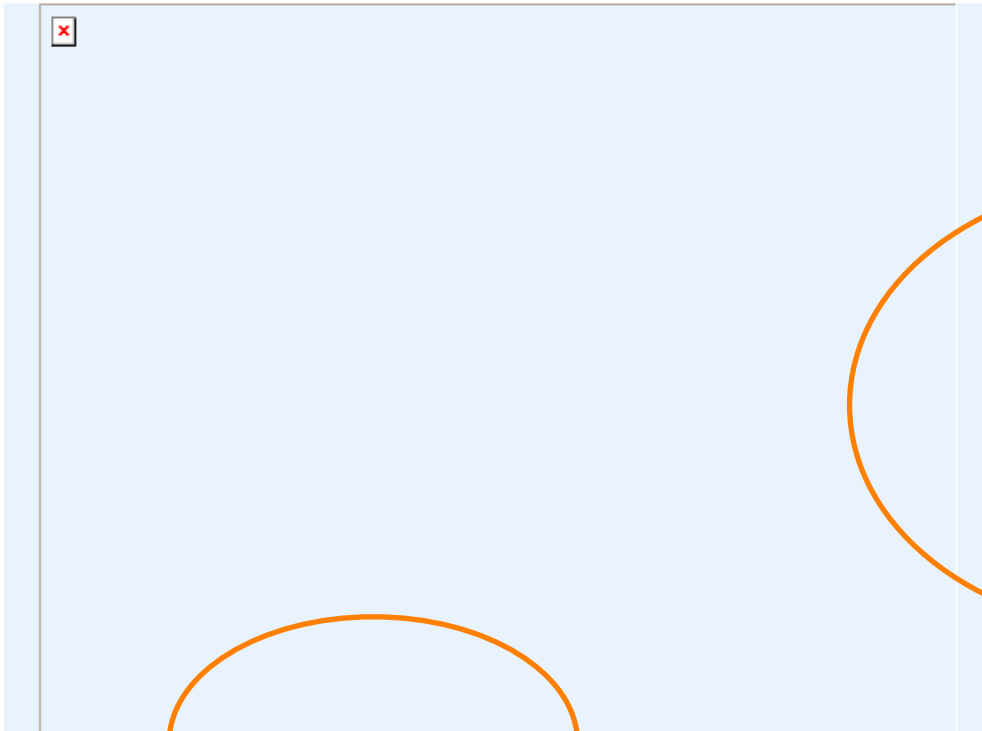


### Electronic Cultural Atlas Initiative

Developed by University of Sydney  
**TimeMap™ Project**



### Clearinghouse Search



Find area of interest with zoom and drag tools



Click MapSpace bounding boxes for interactive map

#### Search Extent

Longitude  to   
Latitude  to   
Time  to

#### Search Settings

Search collections:  
 ECAI clearinghouse  
 David Rumsey map collection

Sort by:

3. Text search  Blank = broadest search



Developed by University of Sydney  
**TimeMap™ Project**



## Electronic Cultural Atlas Initiative

### ECAI Clearinghouse Search Results

**Refine search**

Longitude  to  Latitude  to  Time  to

Find    Search within results

Results 1 to 2 shown (2 results in total)

- = MapSpace | = password required | = time-enabled | = link-enabled | = ECAI publication
- = Framework - global | = Framework - regional | = Framework - local
- = Key cultural dataset | = ECAI rated dataset | = Non-geographic dataset | = WorkInProgress

[tms] = Show MapSpace file | [wms] = View with Web Map Service | [specs] = View WMS capabilities | [swf] = View as Macromedia Flash file

- [www](#) 162: **A Retrospective Look at Earthquakes in the İzmit Gulf Area** (-1440 CE)  
Contributors: Department of Geography, Fatih University  
Responsibility: Novakowski, Nicholas <nicknova2000@hotmail.com>  
Created by Novakowski, Nicholas  
Turkey, İzmit, Not yet rated
- 1511: **Rivers - Iraq Region** (2003 CE)  
Contributors: ECAI  
Responsibility: Jeanette Zerneck <jz@uclink4.berkeley.edu>

Results 1 to 2 shown (2 results in total)



Map this dataset

### Connection information

**Dataset title** A Retrospective Look at Earthquakes in the İzmit Gulf Area  
**Dataset type** Website  
**Server type** WWW web page/site (not accessible as dataset)  
**Creation date** 2000-11-16 23:08:29  
**Last updated** 2002-02-03 13:14:15

### Descriptive metadata

<b>dc.title</b>	<b>A Retrospective Look at Earthquakes in the İzmit Gulf Area</b>
dc.subject.specific	earthquakes
dc.subject.specific	land use
dc.subject.specific	Izmit
dc.subject.specific	August 17, 1999
dc.subject.specific	Turkey
dc.description	A retrospective look at seismic activity in the İzmit Gulf area, including a focus on the catastrophic August 17, 1999 earthquake. In particular, normative land use strategies for ameliorating the impacts of seismic events are explored.
dc.publisher	Department of Geography, Fatih University
dc.publisher.address	Karaagac Yolu, Buyukcekmece-Istanbul, Turkey, 34900
dc.publisher.address	<a href="http://www.geography.fatih.edu.tr">http://www.geography.fatih.edu.tr</a>
dc.creator.Person.Name	Novakowski, Nicholas
dc.creator.Person.Affiliation	nicknova@fatih.edu.tr
dc.creator.Person.Affiliation	Department of Geograpy, Fatih University, Buyukcekmece-Istanbul, Turkey, 34900



[Clearinghouse](#)  
[Directory](#)  
[Members Area](#)  
[Search](#) | [Home](#)

## Electronic Cultural Atlas Initiative

[Activities](#) [Community](#) [Projects](#) [Technology](#) [Participating](#)

# ECAI Technology

## IT Infrastructure Components

- [The ECAI Metadata Clearinghouse](#)
- [TimeMap™ Software](#)
- [ECAI Servers](#)
- [ECAI User Support System](#) and [Knowledgebase](#)

## IT Architecture Goals

- Use distributed institutional resources
- Follow best practices for distributed internet computing
- Encourage interoperability
- Create custom solutions to link and enhance technologies when needed
- Create services and tools to support users
- Use a team structure to organize contributions of ECAI affiliates

## Technical Methodology

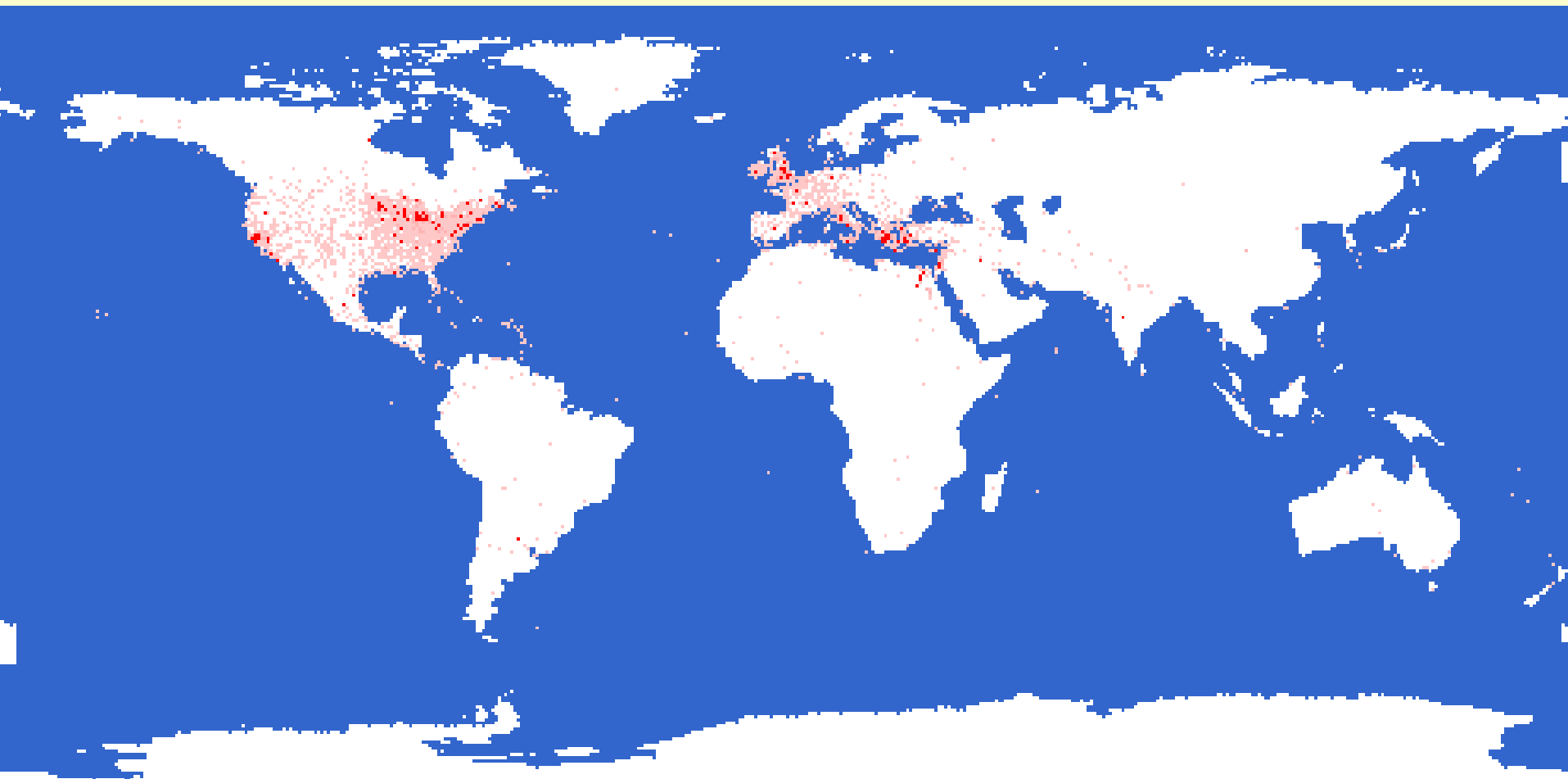
- The technical architecture and technology design is developed collaboratively by participants



=

# Perseus

Perseus Digital Library





# Sasani İmparatorluğu

eri”

TimeMap Viewer (TMV) 3.0.1.32 TimeMap Project, University of Sydney

## The Sasanian Empire ECAI Publication

Project Manager



Sasanian Sites



Gans Seal Collection



State Mints

State Offices

State Temples

Gazetteer

World Sites



World Rivers



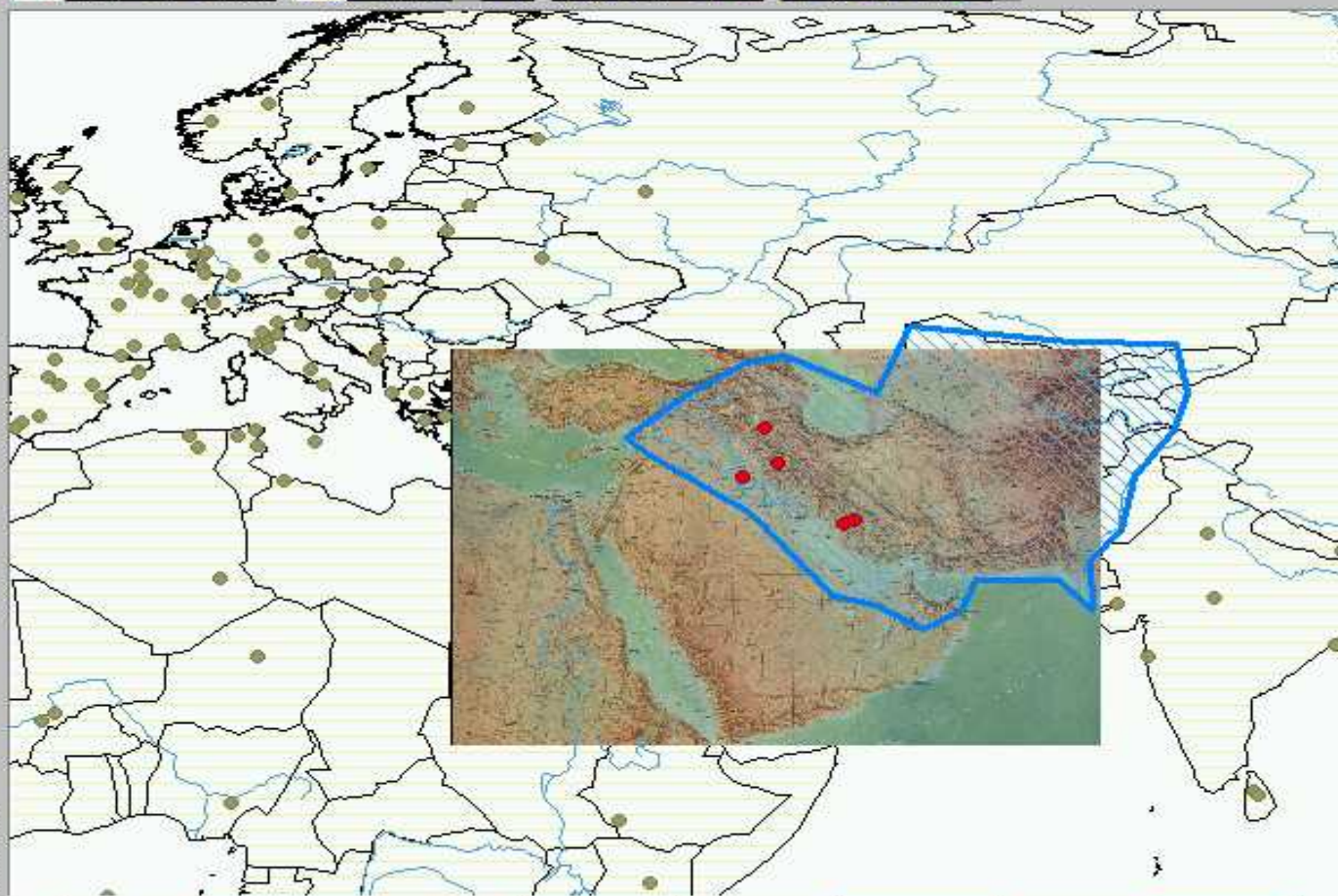
Sasanian Empire ca. 570c



Sasanian Empire ca. 270c



Background Map



0 X=33.20088 Y=35.23179 8000 km

220 250 300 350 400 450 500 550 600 650  
220 650



# “BBY 220 Bilgi Erişim İlkeleri”

Opening shot of the Sasanian Empire ECAI project, showing a map with diverse resources, a timeline, and a menu of available map layers.

The screenshot displays the TimeMap Viewer (TMV) 3.0.1.32 interface for the Sasanian Empire ECAI Publication. The main map shows the Sasanian Empire territory outlined in blue, with several red dots indicating specific sites. The interface includes a toolbar with various navigation and tool icons, a Project Manager window, and a legend on the left side. The legend lists several layers, including Sasanian Sites, Gans Seal Collection, State Mints, State Offices, State Temples, Gazetteer, World Sites, World Rivers, Sasanian Empire ca. 570, Sasanian Empire ca. 270, and Background Map. The timeline at the bottom shows the years 220, 250, 300, 350, 400, 450, 500, 550, 600, and 650. The map also features a scale bar and coordinates (X=33,20088 Y=35,23179) and a distance of 8000 km.

**TimeMap Viewer (TMV) 3.0.1.32 TimeMap Project, University of Sydney**

**The Sasanian Empire ECAI Publication**

**Project Manager**

Sasanian Sites

Gans Seal Collection

State Mints

State Offices

State Temples

Gazetteer

World Sites

World Rivers

Sasanian Empire ca. 570

Sasanian Empire ca. 270

Background Map

0 X=33,20088 Y=35,23179 8000 km

220 250 300 350 400 450 500 550 600 650

220 650



Users may zoom in to see resources that are only visible at a higher level of detail.

The screenshot displays the TimeMap Viewer (TMV) 3.0.1.32 interface, titled "The Sasanian Empire ECAI Publication". The main map shows a geographical area with a blue boundary and various colored markers (red, blue, green, yellow, orange) representing different site types. A legend on the left lists the following categories:

- Sasanian Sites (red dot)
- Gans Seal Collection (blue square)
- State Mints (green circle)
- State Offices (blue circle)
- State Temples (orange triangle)
- Gazetteer (yellow circle)
- World Sites (grey circle)
- World Rivers (blue line)
- Sasanian Empire ca. 570 (purple square)

The interface includes a toolbar with navigation and search tools, a "Project Manager" button, and a scale bar at the bottom indicating 3000 km. The current coordinates are X=52.27737 and Y=33.74513. The map shows a detailed view of the Sasanian Empire region, with a blue boundary outlining the empire's extent. The legend is on the left, and the main map area is on the right. The toolbar is at the top, and the scale bar is at the bottom.





## “BBY 220 Bilgi Erişim İlkeleri”

Spatial objects on the map are linked to a table of attributes, which may include any information about the objects. Note that this is a scholarly tool. By creating a “name quality” field, the author has noted that there is disagreement about the locations and names of places in the Sasanian Empire.

The screenshot shows the TimeMap Viewer (TMV) 3.0.1.32 interface. The main window displays a map titled "The Sasanian Empire ECAI Publication" with a blue boundary and various colored markers. A "Data" window is open, showing a table of attributes for Sasanian Sites. The table has columns for ID, LATITUDE, LONGITUDE, PLACEEXIS, PLACELOC, NAMEQUAL, and SASANIANNA. The data rows are as follows:

ID	LATITUDE	LONGITUDE	PLACEEXIS	PLACELOC	NAMEQUAL	SASANIANNA
1	28.2	53.8	Certain	Supposed	Certain	Kariyan
1	28.2	53.8	Certain	Supposed	Certain	Adur Farnbag
3	28.7	54.4	Certain	Certain	Supposed	Daravkirt
3	28.7	54.4	Certain	Certain	Supposed	Nev-Darap
5	28.5	53.1	Certain	Certain	Supposed	Kavat-Hvarrah
6	28.9	51.8	Certain	Certain	Supposed	Buht-Ardasir
8	29.5	51.2	Certain	Certain	Certain	Ram Ardasir
8	29.5	51.2	Certain	Certain	Certain	Tavvak
9	30.1	51.4	Certain	Certain	Supposed	Nubandagan
10	29.5	51.7	Certain	Certain	Supposed	Veh-Sahpuhr
13	28.9	53.6	Certain	Certain	Supposed	Ram Vistaspan

The interface also includes a left sidebar with a legend for Sasanian Sites, Gans Seal Collection, State Mints, State Offices, State Temples, Gazetteer, World Sites, World Rivers, and Sasanian Empire ca. 570. A "Project Manager" button is visible in the top right corner.



Sites on the map may be linked to resources elsewhere on the internet. In this case, important archaeological sites on the map are linked to web-based tours.

The screenshot displays a web browser window with the following elements:

- TimeMap Viewer (TMV) 3.0.1\_32 TimeMap Project, University of Sydney**: The main application window title.
- The Sasanian Empire ECAI Publication**: The main page title.
- Map Interface**: A central map showing a geographical area with a blue polygonal boundary and several red dots representing sites. A smaller inset map in the top-left corner shows the location within a larger regional context.
- Left Panel**: A list of site categories with checkboxes and corresponding icons:
  - Sasanian Sites (red dot icon)
  - Gans Seal Collection (blue square icon)
  - State Mints (magnifying glass icon)
  - State Offices (magnifying glass icon)
  - State Temples (magnifying glass icon)
  - Gazetteer (magnifying glass icon)
  - World Sites (green dot icon)
  - World Rivers (blue line icon)
  - Sasanian Empire ca. 570c (purple square icon)
  - Sasanian Empire ca. 270c (pink square icon)
- Project Manager**: A button in the top-right corner.
- Browser Window**: A Netscape browser window titled "Sasanian Archaeological Sites - Taq-i Bustan - Netscape". The address bar shows the URL: <http://ecai.org/sasanianweb/sites/Taq-i-Bustan.html>.
- Page Content**:
  - Taq-i Bustan**
  - Royal Symbolism in an Earthly Paradise**
  - The great rock-cut arch of Taq-I Bustan, near Kermanshah, is best known for the rock-cut monumental sculptures of Khusro II ( AD 590-628). Khusro's arch resembled the Sasanian palace, here set beside a mountain spring in a hunting park, the Iranian "paradise."
  - Image Gallery**: Four small thumbnail images showing different views of the site, including the rock-cut arch and surrounding landscape.
- Taskbar**: The Windows taskbar at the bottom shows the Start button and several open applications: Explorer, Eu..., Ex..., P:\..., S..., Wi..., EC..., Ti..., Mi..., Mi..., Wi... The system tray on the right shows the time as 9:14 PM.



## “BBY 220 Bilgi Erişim İlkeleri”

The map interface may be used to show change over time. The “Sasanian Empire ca. 270s” resource is highlighted, and the “Sasanian Empire ca. 570s” is greyed out. If a user slides the timeline bar, the new boundary of the empire will appear.

The screenshot shows the TimeMap Viewer (TMV) 3.0.1.32 interface. The main window title is "The Sasanian Empire ECAI Publication". The interface includes a toolbar with various navigation and tool icons, a "Project Manager" button, and a legend on the left side. The legend lists several layers, including "Gans Seal Collection", "State Mints", "State Offices", "State Temples", "Gazetteer", "World Sites", "World Rivers", "Sasanian Empire ca. 570s", "Sasanian Empire ca. 270s", "Background Map", and "World Countries". The "Sasanian Empire ca. 270s" layer is checked and highlighted with red hatching, while the "Sasanian Empire ca. 570s" layer is checked but greyed out. The map shows the Sasanian Empire boundaries for ca. 270s (red hatching) and ca. 570s (greyed out). The map also shows a background map and world countries. A timeline bar at the bottom indicates the year 403.

TimeMap Viewer (TMV) 3.0.1.32 TimeMap Project, University of Sydney

The Sasanian Empire ECAI Publication

Project Manager

Gans Seal Collection

State Mints

State Offices

State Temples

Gazetteer

World Sites

World Rivers

Sasanian Empire ca. 570s

Sasanian Empire ca. 270s

Background Map

World Countries

0 X=66.55829 Y=15.06583 5000 km

220 250 300 350 400 450 500 550 600 650

220 403



## “BBY 220 Bilgi Erişim İlkeleri”

In a different time range, not only do the boundaries of the empire appear different, but the sites that were active during the earlier era (the red dots) have moved as well.

TimeMap Viewer (TMV) 3.0.1.32 TimeMap Project, University of Sydney

### The Sasanian Empire ECAI Publication

Project Manager

- Gans Seal Collection
- State Mints
- State Offices
- State Temples
- Gazetteer
- World Sites
- World Rivers
- Sasanian Empire ca. 570
- Sasanian Empire ca. 270
- Background Map
- World Countries

0 X=62.39539 Y=28.46835 5000 km

220 250 300 350 400 450 500 550 600 650

467 650



## “BBY 220 Bilgi Erişim İlkeleri”

TimeMap is a user authoring tool, not merely a viewer. Users can control the look of the icons, the map layers that comprise a project, and, as shown here, the map scale at which different layers will become visible.

TimeMap Viewer [TMV] 3.0.1.32 TimeMap Project, University of Sydney

### The Sasanian Empire ECAI Publication

Display ranges for map layers

Layer	100km	1000km	10000km	100000km
Sasanian Sites	✓	✓	✓	✓
Gans Seal Collection	✓	✓	✓	✓
State Mints	✓	✓	✓	✓
State Offices	✓	✓	✓	✓
State Temples	✓	✓	✓	✓
Gazetteer	✓	✓	✓	✓
World Sites	✓	✓	✓	✓
World Rivers	✓	✓	✓	✓
Sasanian Empire ca. 570c	✓	✓	✓	✓
Sasanian Empire ca. 270c	✓	✓	✓	✓
Background Map	✓	✓	✓	✓
World Countries	✓	✓	✓	✓

Current zoom (km) 5856

0 5000 km

220 250 300 350 400 450 500 550 600 650

467 650



This screen displays the metadata for the a part of the Sasanian Empire project. The metadata includes functional (tm.) metadata to enable connection to the map interface in addition to cataloguing (dc. and ecai.) metadata. Using the menu on the left, users may choose to map individual map layers or packaged projects.

TimeMap Viewer (TMV) 3.0.1.32 TimeMap Project, University of Sydney

Projects Datasets Layers View Help

Directory: C:\Program Files\TimeMap\

Draw Map

Overview Map | Project | Dataset info | Layers

Dataset Name **Sasanian\_arch\_sites**  
Metadata file (TMM) C:\Program Files\TimeMap\Resources\sasanian\Sasanian\_arch\_sites.tmm  
ECAI # **N/A**  
Original dataset name **N/A**

Element	Scheme	Value
dc.publisher.address	FreeText	University of California, E
dc.publisher.address	Email address	ecai@socrates.berkeley
dc.publisher.address	URL identifier	http://www.ecai.org
dc.contributor.PersonalName	FreeText	Zerneke, Jeanette
dc.contributor.PersonalName.add	Email address	jlz@uclink.berkeley.edu
dc.contributor.PersonalName.add	FreeText	International and Area S
dc.date	Dates (ISO 8601)	9/11/00
dc.type	Resource Type (DC)	Dataset
dc.format	Resource Format (DC)	TimeMap dataset
dc.identifier	FreeText	http://ecai.berkeley.edu
dc.language	ISD639-2B Short list	eng
dc.coverage.x.min	WGS84 Lat/long	40
dc.coverage.x.max	WGS84 Lat/long	55
dc.coverage.y.min	WGS84 Lat/long	25
dc.coverage.y.max	WGS84 Lat/long	40
dc.coverage.t.early	BCE (BC) years	224
dc.coverage.t.late	CE (AD) years	642
dc.coverage.PlaceName	TGN (Getty thesurus)	
dc.coverage.PeriodName	FreeText	Sasanian Empire
dc.coverage.spatial.georeference	Spatial units	Coordinates
dc.coverage.notes	FreeText	Present day Iran and Ira
dc.rights	FreeText	This data may be used f
ecai.team	ECAI team	Silk Road
dc.subject.domain	ECAI themes	Archaeology
ecai.notes	FreeText	Submitted for ECAI publi
tm.TimeVarying	Time Stamping (TM)	InstanceRange
tm.inst.Link.URLMask	FreeText	http://ecai.org/sasanian
tm.inst.Link.ThumbnailMask	FreeText	http://ecai.org/sasanian
tm.AccompanyingData.DocFile	Local Document File	Sasanian_arch_sites.htr
tm.Local.GISType	GIS Type (TM)	Dbase
tm.MapObjType	Map Object Type (TM)	Point
tm.inst.TableName.Local	FreeText	sasanian_arch_sites

Start Eudora Pro - [In] Microsoft Word - neh prop... Microsoft PowerPoint - [ne... TimeMap Viewer (TMV) 1:31 PM



# Historic Sydney

leri”

TimeMap Viewer (TMV) 3.0.1.32 TimeMap Project, University of Sydney

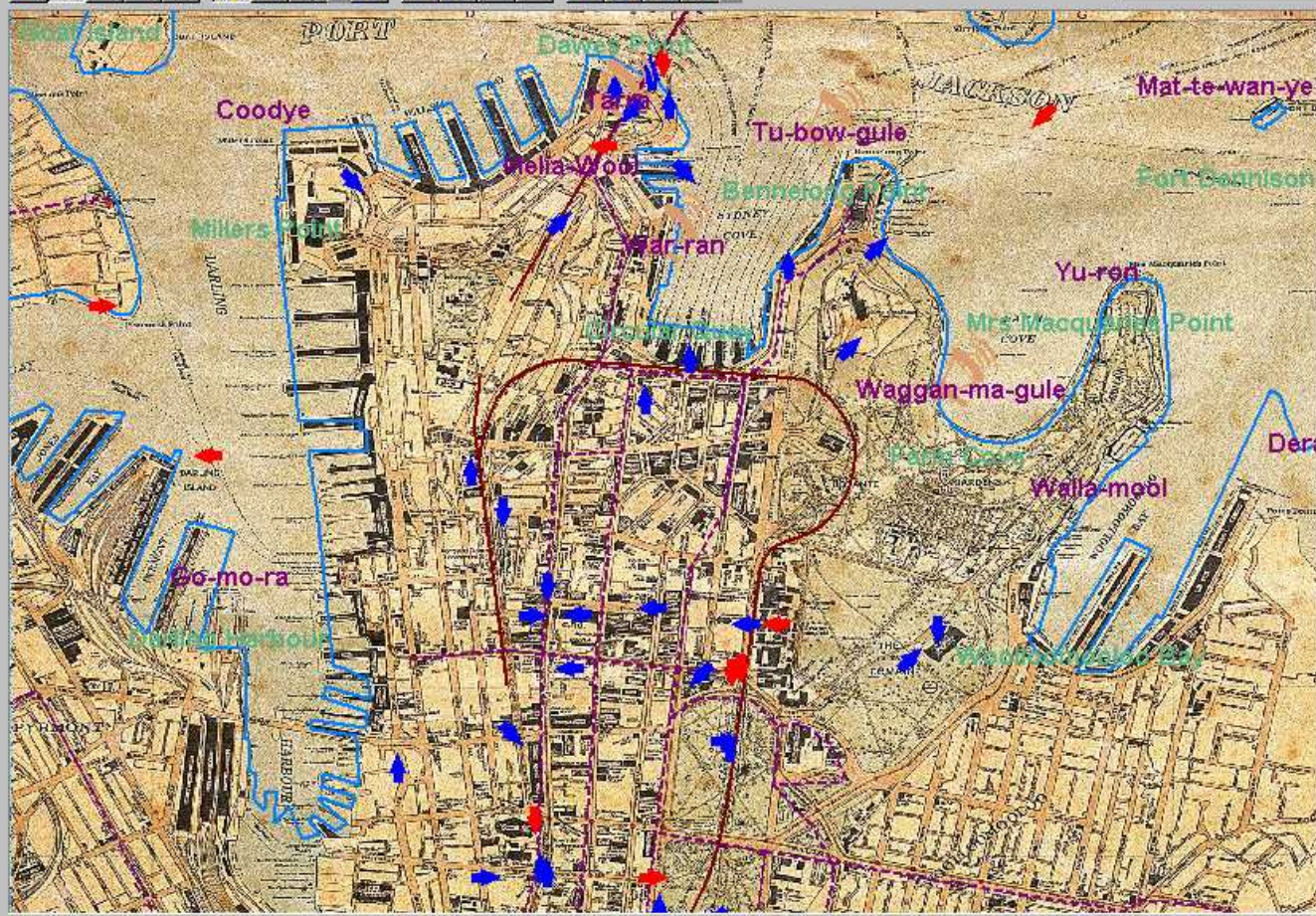


1921 - 1940



Project Manager

- Aboriginal names
  - Tarra
  - Click on map to he
- European names
  - Farm Cove
- Image viewpoints
  - Arrow shows direc
- Vista viewpoints
  - Arrow shows direc
- Trams
  -
- Railways
  -
- Modern streets outline
  -
- Modern streets
  -
- Modern coastline
  -
- 1923 historical map
  -



0 3 km

1700 1750 1800 1850 1900 1950 2000

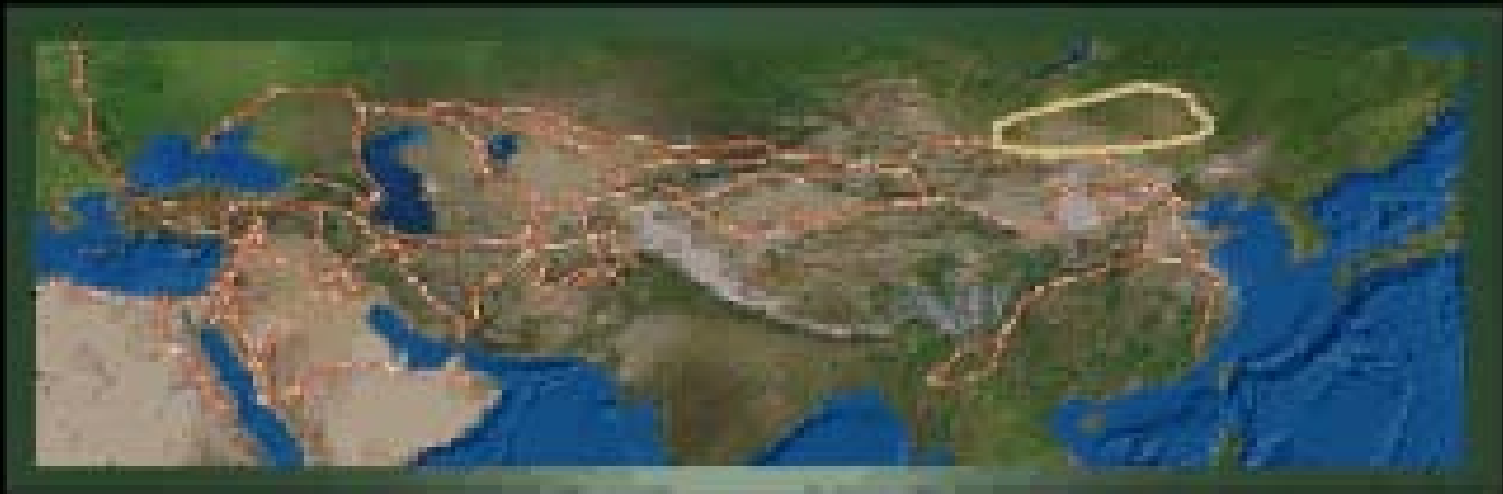
11940

Y.T.



# Moğol İmparatorluğu

leri”



A.D. 1100





# “BBY 220 Bilgi Erişim İlkeleri”

ECAI Cultural Atlas Browser - Windows Internet Explorer

http://ecai.org/culturalatlasportal/

File Edit View Favorites Tools Help

ECAI Cultural Atlas Browser x iGoogle



## Electronic Cultural Atlas Initiative

About ECAI    Activities    Community    Atlases    Research    Technology    Participating

**Portal Home Page**

### Cultural Atlas Portal

The ECAI Cultural Atlas Portal is a location to bring together the work of ECAI affiliates and atlases which are exemplars of the variety of cultural atlases currently being developed. For more information about the criteria for inclusion and to submit an atlas see:

[What is an Electronic Cultural Atlas and what is included in this portal?](#)

Internet | Protected Mode: On    100%

Start    b...    10    W...    4    2    b...    F...    G...    SPSS 2    TR    01:24



# “BBY 220 Bilgi Erişim İlkeleri”

Çankaya, Hacettepe Beytepe Kampüsü, Türkiye - Google Haritalar - Windows Internet Explorer

http://maps.google.com/

File Edit View Favorites Tools Help

Hacet... iGoogle http:/... BBY 3... topo... Ç... x

Web Görseller Gruplar Bloglar Dizin Mail diğer v

tonta@hacettepe.edu.tr | Profilim | Yardım | Web Geçmişi | Hesabım | Oturumu kapat

Google Maps

örneğin, "10 market st, san francisco" veya "hotels near lax"

Çankaya, Hacettepe Beytepe Kampüsü, Türkiye

Haritalarda Ara

Haritada ara İşletme bulun Yol tarifi alın

Arama Sonuçları Haritalarım

Yazdır Gönder Bu sayfaya bağlantı oluşturun

Çankaya, Hacettepe Beytepe Kampüsü  
Türkiye  
[Bu varsayılan konumum olsun](#)

Yeni  
[Bu alanı keşfetin »](#)

Fotoğraflar

Daha fazla fotoğraf, video ve kullanıcı tarafından oluşturulan harita »

Daha fazla... Harita Uydu Arazi

200 ft

Go - Görüntü ©2008 DigitalGlobe Harita verileri ©2008 Basarsoft - Kullanım Şartları

Done

Internet | Protected Mode: On 100%

Start b... 12 W... 5 N... 2 A... b... Fi... G... 2 S... TR 01:58

Google Earth - Windows Internet Explorer

http://earth.google.com/

File Edit View Favorites Tools Help

Hacet... iGoogle http://... BBY 3... topo... G... x

Google Earth

Google Earth'e Hoş Geldiniz Dili değiştir:

Ana Sayfa

[İndirmeler](#)

[Ürün Turu](#)

[Galeri](#)


[Topluluk](#)

[Earth Sosyal Yardımları](#)

[Sketchup](#)

[Yardım](#)

**Google Earth | Ücretsiz**

 Google Earth, uydu görüntülerine, haritalara, araziye, 3B binalara bakmak için Dünyadaki herhangi bir yere gitmenize ve hatta Gökyüzündeki galaksileri incelemenize olanak sağlar.




Zengin coğrafi içeriği inceleyebilir, gezdiğiniz yerleri kaydedebilir ve başkalarıyla paylaşabilirsiniz.

[Eğiticiyi görüntüle.](#)


**Google Earth 4.3'ü İndirin**

Dünyayı ücretsiz keşfedin.

**Google Earth 4.3 (beta)'te yeni özellikler!**

-  Gerçek görünümüyle dünyanın her yerindeki binalar
-  Günışığı özelliğiyle, şafaktan akşama değişen görünüm
-  Uzaydan sokak seviyesine hızlı gezinme.

**Google Earth | Gelişmiş**

 **Google Earth Pro | \$400**

Belirli bir yerle ilgili bilgileri araştırmak, sunmak ve bu bilgiler üzerinde ortak çalışmak isteyen kuruluşlar için ideal bir araç sağlayan Pro sürümüne yükseltin.

Internet | Protected Mode: On 100%

Start b... 12 W... 5 2 A b... Fi... G... SPSS 2 S TR 02:05