



**Turbulence.org ...**

 **turbulence**  
COMMISSIONING AND SUPPORTING  
NET ART FOR 14 YEARS: 1996-2010

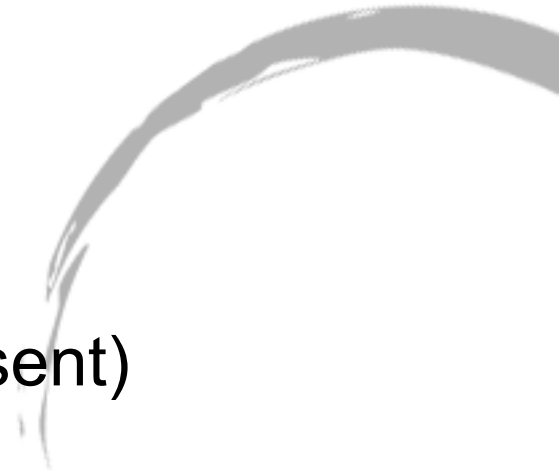
- Founded in 1996
- 160+ net/web/hybrid commissions
- Artist Studios, Spotlights, Guest Curators
- International Competitions
- Gallery Exhibitions
- Speaker Series: Upgrade! Boston, Floating Points, Programmable Media



**Turbulence.org ...**

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NET ART FOR 14 YEARS: 1996-2010

## **Innovative Projects:**

- Mixed Realities (exhibition)
  - Networked Realities: (Re)Connecting the Adamses (exhibition)
  - Networked: a (networked\_book) about (networked\_art)
  - Networked\_Performance (blog)
  - Networked\_Music\_Review (blog)
  - Networked Performances (1998-present)
- 

# Oil Standard (2006)

Oil Standard, Greasemonkey conversion of US Dollars to Barrels of Oil - Microsoft Internet Explorer provided by Comcast High-Sp

http://transition.turbulence.org/Works/oilstandard/

File Edit View Favorites Tools Help

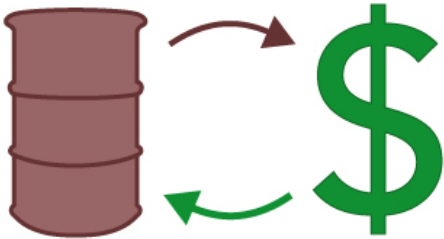
del.icio.us TAG

Oil Standard, Greasemonkey conversion of US Do...

OilStandard a project by Michael Mandiberg

Download oil information screenshots reset preferences userscripts.org mirror

Oil Standard is a web browser plug-in that converts all prices from U.S. Dollars into the equivalent value in barrels of crude oil.



When you load a web page, the script seamlessly inserts converted prices into the page. As the cost of oil fluctuates on the commodities exchange, prices rise and fall in real-time.

**ORGANIC BROCCOLI**  
(about 1lb per bunch)  
ORGANIC  
**0.03 Barrels**  
Oil/ea

Quantity (bunches)   
Price **\$1.99**

About | Nutrition  
We think of broccoli as one of the ultimate vegetables. It has a cabbagelike flavor and a satisfying

Installation Instructions: Oil News from: Rigzone.com

Internet | Protected Mode: Off 100%

Inbox - Microsoft O... Adobe Photoshop Oil Standard, Grease... 4:42 PM

# Oil Standard (2006)

The screenshot shows a Safari browser window displaying the Apple.com website. The browser's address bar shows the URL `http://turbulence.org/Works/oilstandard/screenshot5.html`. The website content features a navigation bar with links for Store, iPod + iTunes, .Mac, QuickTime, Support, and Mac OS X. Below this, a section titled "Select your MacBook Pro" lists specifications and offers two configurations:

- 1.83GHz Intel Core Duo:** Priced at \$1,999.00, with an oil price overlay of \$32.85 Barrels Oil. A "Select" button is visible.
- 2GHz Intel Core Duo:** Priced at \$2,499.00, with an oil price overlay of \$41.07 Barrels Oil. A "Select" button is visible.

A tooltip for the 2GHz model reads: "Iran threatens to use oil in nuke standoff". A "Now Shipping" badge is present on the laptop image. The browser's status bar at the bottom indicates the time as Thu 7:48 PM and a 100% zoom level.

# Oil Standard (2006)

Safari File Edit View History Bookmarks Window Help  
Oil Standard, Greasemonkey conversion of US Dollars to Barrels of Oil  
http://turbulence.org/Works/oilstandard/screenshot2.html  
loving annabelle soundtrack

## Chase.com

Screenshots: Examples of Oil Standard in Action:  
(click on the image to download as a .tif)

CHASE

Chase.com | Contact Us | Privacy Policy | LOG OFF

My Accounts Payments & Transfers Products & Services Customer Center

Chase Online<sup>SM</sup> Monday, March 13, 2006

My Accounts > Account Activity > Search Account Activity

### Search Results

Print Help with this page I'd like to...

- Manage Free Alerts
- Download Account Activity

Using this page — Specify the time period and transaction type or keyword you would like to search for below. Then click "Search" to show the results.

Search Results 1 - 14

Date	Description	Debit	Credit	Balance
02/28/2006	AUTOMATED PAYMEN	0.5 Barrels Oil		25.2 Barrels Oil
02/28/2006	ATM WITHDRAWAL	1.6 Barrels Oil		25.71 Barrels Oil
02/28/2006	CHECK # 117 (view)	6.33 Barrels Oil		27.24 Barrels Oil
02/27/2006	ATM WITHDRAWAL	1.6 Barrels Oil		28.84 Barrels Oil
02/21/2006	AUTOMATED PAYMEN	0.44 Barrels Oil		35.20 Barrels Oil
02/21/2006	ATM WITHDRAWAL	1.6 Barrels Oil		35.69 Barrels Oil
02/21/2006	ATM WITHDRAWAL	1.6 Barrels Oil		37.3 Barrels Oil
02/17/2006	AUTOMATED PAYMEN	1.22 Barrels Oil		38.91 Barrels Oil
02/17/2006	AUTOMATED PAYMEN	2.95 Barrels Oil		40.13 Barrels Oil
02/16/2006	AUTOMATED PAYMEN		21.02 Barrels Oil	43.08 Barrels Oil
02/13/2006	ATM WITHDRAWAL	1.6 Barrels Oil		22.06 Barrels Oil

Gas shortages warning as cold snap continues

# SuperFund365 (2007)

Safari File Edit View History Bookmarks Window Help

superfund365

http://superfund365.org/ loving annabelle soundtrack

Readability Blackboard ...ning System : Art and Me...a June 2009 eCommon by ...on College Comcast TV ...D | Fancast Evo's Homepage NEA Grants f...ce category Apple Amazon eBay

superfund365

# SUPERFUND365

## A SITE-A-DAY

TUCSON INTERNATIONAL AIRPORT AREA, AZ; ANACONDA CO. SMELTER, MT; U.S. RADIUM CORP, NJ.

Superfund365 is a 2007 commission of New Radio and Performing Arts, Inc. for its Turbulence web site. It was made possible with funding from the Jerome Foundation. Additional funding provided by New York Foundation for the Arts (NYFA).

# SuperFund365 (2007)

Safari File Edit View History Bookmarks Window Help Superfund365

http://turbulence.org/Works/superfund/index.php?offset=0 loving annabelle soundtrack

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Superfund365

Day 001

## SUPERFUND365

Site of the Day About / ?s Index of Sites Video Subscribe

### QUANTA RESOURCES

#### Chemical Plant

**Address**  
ONE RIVER RD  
EDGEWATER NJ, 07020

**Region**  
Latitude: 40.801437  
Longitude: -73.993699  
District: NJ 32

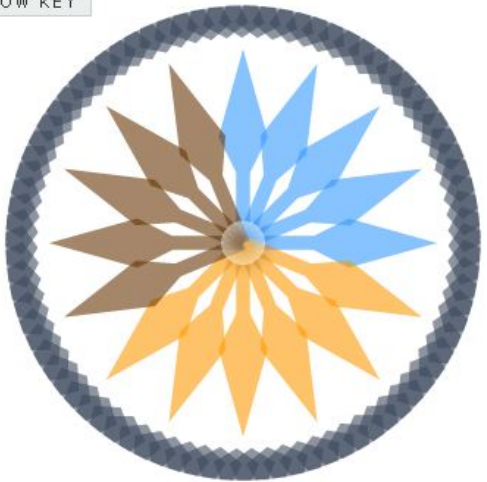
MAP

**Hazardous Ranking Score**  
50.00 / 100

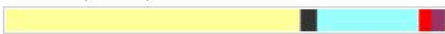
**Cleanup Costs**  
Not Available

**Description**  
The Quanta Resources Corporation (QRC) site is located at 163 River Road in Edgewater, Bergen County, New Jersey. The site covers approximately 8 acres since the expansion of River Road took over a portion of the site. The site property is bordered to the north by the Celotex Industrial Park, to the south by the former Spencer-Kellogg Industrial Park, to the west by River

SHOW KEY



**Demographics**  
Ethnicity in Zip Code:



Pop within 10 miles: 5,080,588  
Average Income: \$63,455.00 per year

CONTENT  
MAPS (PDF)

**Timeline**

80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08

**Discussion**

# SuperFund365 (2007)

Safari File Edit View History Bookmarks Window Help

Superfund365

http://turbulence.org/Works/superfund/index.php?offset=0

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Readability Blackboard ...ning System : Art and Me...a June 2009 eCommon by ...on College Comcast TV ...D | Fancast Evo's Homepage NEA Grants f...ce category Apple Amazon eBay

Superfund365

## Day 0 SUPERFUND365

Site of the Day About / ?s Index of Sites Video Subscribe

Media of Contaminants	Ethnicity
Ground Water: 5	White: 5132
Surface Water: 0	Black: 288
Air: 0	American Indian: 0
Sediment: 6	Asian: 1771
Soil: 5	Native Hawaiian: 6
Surface Soil: 0	Other: 213
Subsurface Soil: 0	Multiple: 267
Debris: 0	
Solid Waste: 0	
Liquid Waste: 0	
Sludge: 0	
Leachate: 0	
Soil Gas: 0	
Residuals: 0	
Buildings: 0	
Other: 0	
Unknown: 0	

Responsible Parties  
Contaminants  
Acres Affected

See About page for info about terms.

**Demographics**  
Ethnicity in Zip Code:

Pop within 10 miles: 5,080,588  
Average Income: \$63,455.00 per year

94 95 96 97 98 99 00 01 02 03 04 05 06 07 08

**Discussion**  
Name:

CONTENT  
MAPS (PDF)



# SuperFund365 (2007)

Safari File Edit View History Bookmarks Window Help Superfund365

http://turbulence.org/Works/superfund/index.php?offset=29 loving annabelle soundtrack

Readability Blackboard Learning System Art and Me...a June 2009 eCommon by ...on College Comcast TV ...D | Fancast Evo's Homepage NEA Grants f...ce category Apple Amazon eBay

Superfund365

Day 030

## SUPERFUND365

Site of the Day About / ?s Index of Sites Video Subscribe

### POHATCONG VALLEY GROUND WATER

Groundwater

SHOW KEY

**Address**  
ROUTE 643 TO ROUTE 31  
WARREN COUNTY NJ, 07882

**Region**  
Latitude: 40.750000  
Longitude: -75.000000  
District: NJ 05

MAP

**Hazardous Ranking Score**  
28.90 / 100

**Cleanup Costs**  
Not Available

**Description**  
The Pohatcong Valley Ground Water Contamination Site in Warren County, New Jersey, involves the contamination of the "Kittatinny" Limestone Aquifer underlying Pohatcong Valley. The aquifer serves as the sole source of drinking water for public and private wells in the area. The site includes those portions of Franklin Township, Washington Township, and Washington Boro

**Demographics**  
Ethnicity in Zip Code:  
Pop within 10 miles: 64,160  
Average Income: \$60,846.00 per year

CONTENT  
MAPS (PDF)

ACRE: 5600.00

80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08

Discussion

# Eclipse (2009)

Safari File Edit View History Bookmarks Window Help

Eclipse | EcoArtTech

http://turbulence.org/Works/eclipse/

loving annabelle soundtrack


Readability Blackboard ...ning System : Art and Me...a June 2009 eCommon by ...on College Comcast TV ...D | Fancast Evo's Homepage NEA Grants f...ce category Apple Amazon eBay

Eclipse | EcoArtTech

Welcome.

Eclipse is a web-based artwork-application that alters and corrupts images of United States national and state parks based on the air quality of the nearest city within a 65-mile radius.

After a park is chosen from the pull-down menu to the right, Eclipse performs two data-scraping operations: (1) Eclipse searches for images tagged with the park's name from the photo-sharing website flickr.com, and (2) Eclipse data-scrapes the real-time particle pollution data (also known as particulate matter) for the nearest city via airnow.gov, a site that presents air quality conditions for over 300 locations across the United States. Airnow.gov defines particulate matter as "a complex mixture of extremely small particles and liquid droplets... made up of a number of components, including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles." The higher the Air Quality Index (AQI) or pollution level for the selected location, the more the park image is corrupted through a set of algorithms that affect color, saturation, and contrast, and that impose intermittent mirroring, deletion, or cropping of the file's data.



Streeter Lake, Adirondacks State Park, NY, July 2008

ECLIPSE

step 1.  
select a u.s. national park,  
forest, monument, or state park

Select a park...  
Select a park...  
Sonoran Desert National Monument, AZ  
Coronado National Forest, AZ  
Yosemite National Park, CA  
Muir Woods National Monument, CA  
Sequoia National Park, CA  
Eldorado National Forest, CA  
Los Padres National Forest, CA  
Pike National Forest, CO

continue

ecoarttech.net

# Eclipse (2009)

Safari File Edit View History Bookmarks Window Help

Eclipse | EcoArtTech

http://turbulence.org/Works/eclipse/

loving annabelle soundtrack

Readability Blackboard Learning System Art and Me...a June 2009 eCommon by ...on College Comcast TV ...D | Fancast Evo's Homepage NEA Grants f...ce category Apple Amazon eBay

Eclipse | EcoArtTech

## Step 2. choose an image & apply current aqi conditions

The United States Environmental Protection Agency (E.P.A.) provides the Air Quality Index (AQI) rating for this location at [www.airnow.gov](http://www.airnow.gov). The E.P.A. rates air quality on a scale of 1-500, from good to hazardous, but there is disagreement within the E.P.A. as to how to read these numbers. In 2008, the E.P.A.'s own Clean Air Scientific Advisory Committee (CASAC) protested that the E.P.A. was not upholding its mission to ensure safe air quality with this scale, and the American Lung Association of New England argues that any "moderate" AQI reading is in fact "unhealthy," posing serious risks to sensitive individuals and even some risks to healthy individuals. Rating systems also differ across nations. According to the Canadian scale, air that the E.P.A. designates as "good" could actually be "fair," and "moderate" air is always in fact "poor." With the charts below you can check how the AQI of the city nearest your chosen national or state park measures up in the American and Canadian systems.

**Air Quality Index Rating System (U.S.)**


<b>G</b> 0-50 Good	<b>M</b> 51-100 Moderate	<b>U</b> 101-150 Unhealthy for Sensitive Groups	<b>U</b> 151-200 Unhealthy	<b>V</b> 201-300 Very Unhealthy	<b>H</b> 301-500 Hazardous
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**Air Quality Index Rating System (Canadian)**

<b>green</b> 0-25 Good	<b>yellow</b> 26-50 Fair	<b>orange</b> 51-100 Poor	<b>red</b> 100+ Very Poor
The air quality is considered relatively good.	There may be some adverse effects on very sensitive people.	There may be some short-term adverse effects on the human or animal populations, or may cause significant damage to vegetation and property.	There may be some adverse effects on a large proportion of those exposed.

## ECLIPSE ☾

Selected Park:  
Sonoran Desert National Monument, AZ



file name: 2491220774\_66ea705c99.jpg ORIGINAL IMAGE view on flickr

\*CURRENT AIR QUALITY CONDITIONS  
Phoenix, AZ  
03/04/2010 09:00 MST

42 **G** good

aqi scale provided by the u.s. environmental protection agency

\*aqi data is obtained from the closest air monitoring station to the selected park within a 65 mile radius

load new image apply aqi conditions

ecoarttech.net

# Eclipse (2009)

Safari File Edit View History Bookmarks Window Help

Eclipse | EcoArtTech


http://turbulence.org/Works/eclipse/ loving annabelle soundtrack

Readability Blackboard Learning System Art and Me...a June 2009 eCommon by ...on College Comcast TV ...D | Fancast Evo's Homepage NEA Grants f...ce category Apple Amazon eBay

Eclipse | EcoArtTech

### air quality index conditions applied!


Selected Park:  
Sonoran Desert National Monument, AZ



file name: 2331616901\_b851fb9e92.jpg ORIGINAL IMAGE view on flickr

### ECLIPSE

Selected Park:  
Sonoran Desert National Monument, AZ



\*CURRENT AIR QUALITY CONDITIONS  
Phoenix, AZ  
03/04/2010 09:00 MST

42 **G** good

aqi scale provided by  
the u.s. environmental  
protection agency

← do it again

ecoarttech.net

# Eclipse (2009)

Safari File Edit View History Bookmarks Window Help

Eclipse | EcoArtTech


http://turbulence.org/Works/eclipse/ loving annabelle soundtrack

Readability Blackboard Learning System Art and Me...a June 2009 eCommon by ...on College Comcast TV ...D | Fancast Evo's Homepage NEA Grants f...ce category Apple Amazon eBay

Eclipse | EcoArtTech

### air quality index conditions applied!


Selected Park: Shenandoah National Park, VA



file name: 67280715\_6415bbfa3e.jpg ORIGINAL IMAGE view on flickr

### ECLIPSE

Selected Park: Shenandoah National Park, VA



\*CURRENT AIR QUALITY CONDITIONS  
Northern Virginia, VA  
03/04/2010 11:00 EST

29 **G** good

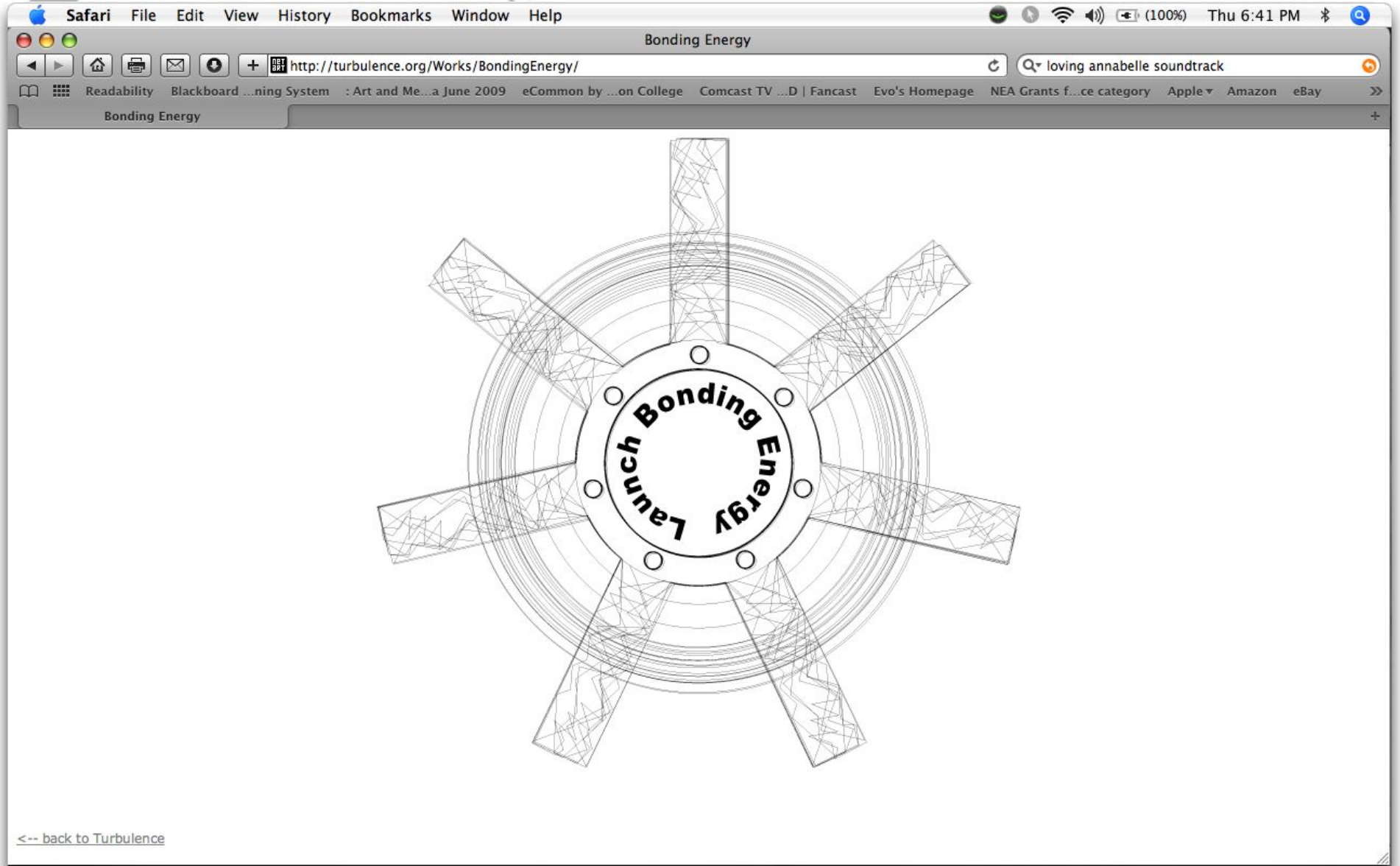
aqi scale provided by the u.s. environmental protection agency

\*aqi data is obtained from the closest air monitoring station to the selected park within a 65 mile radius

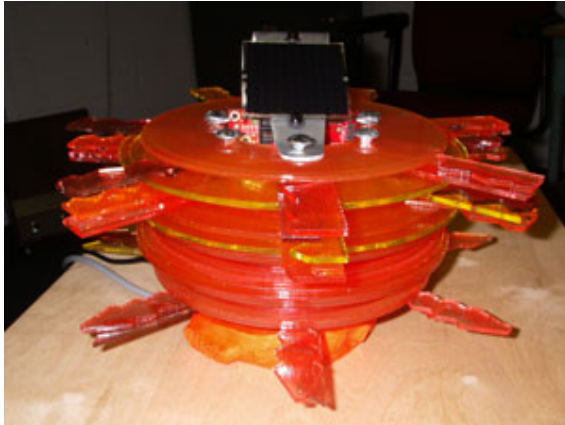
do it again

ecoarttech.net

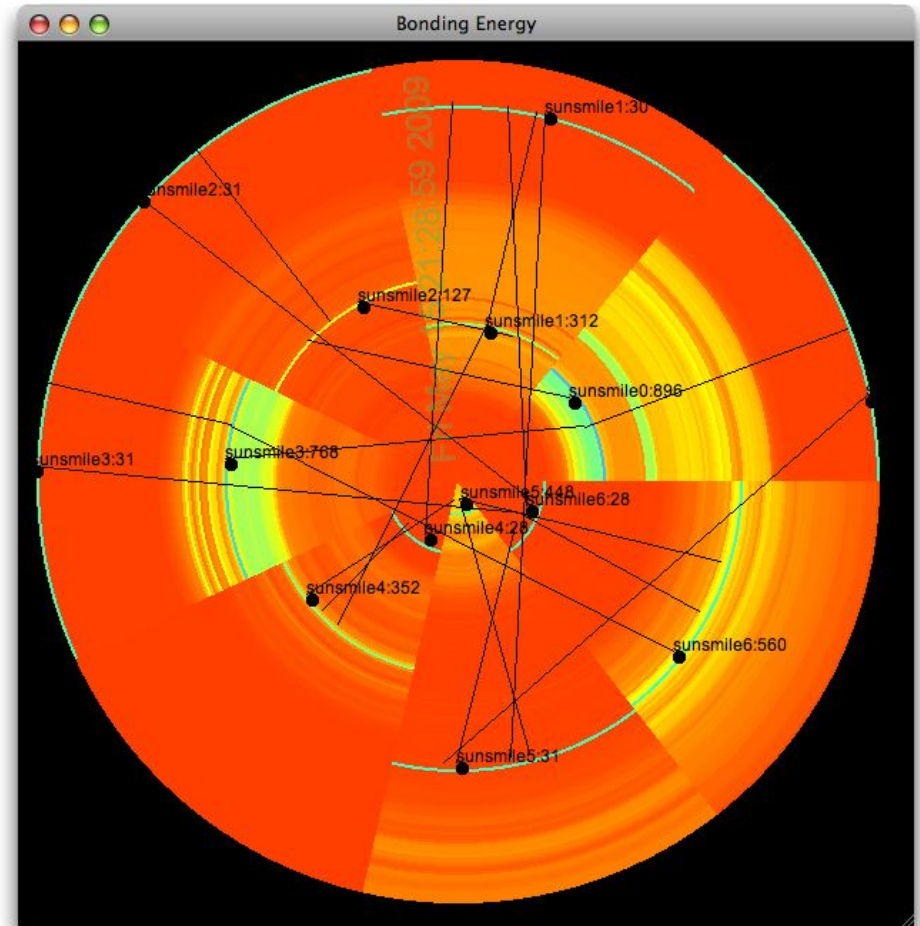
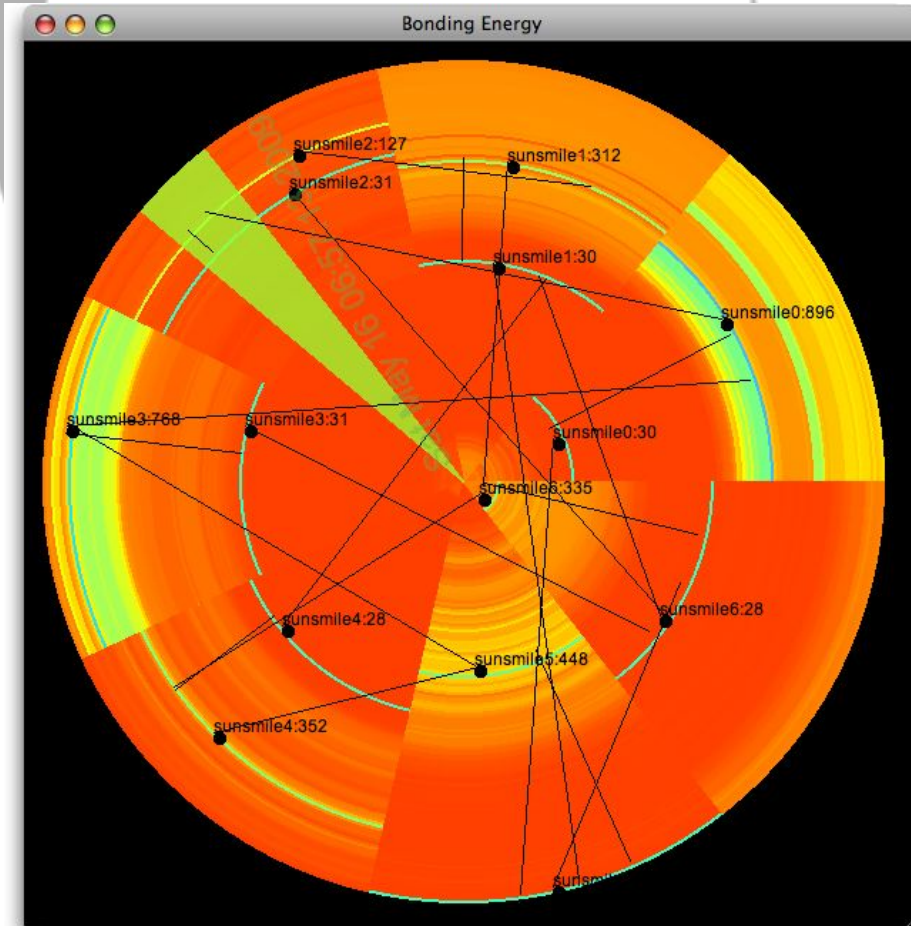
# Bonding Energy (2007)



# Bonding Energy (2007)



# Bonding Energy (2007)

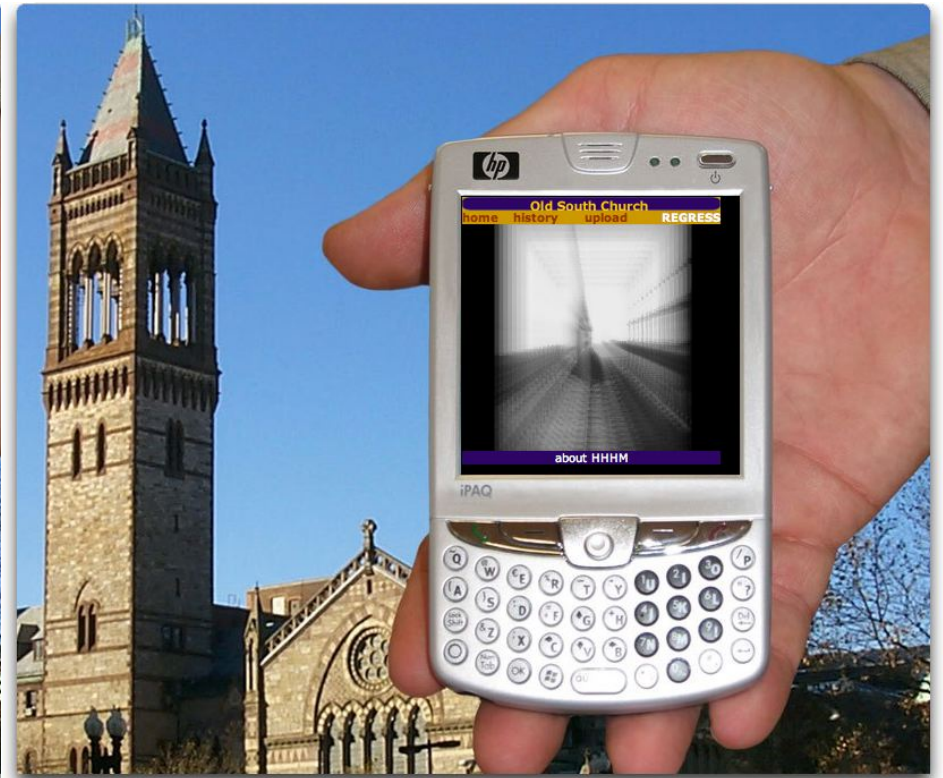
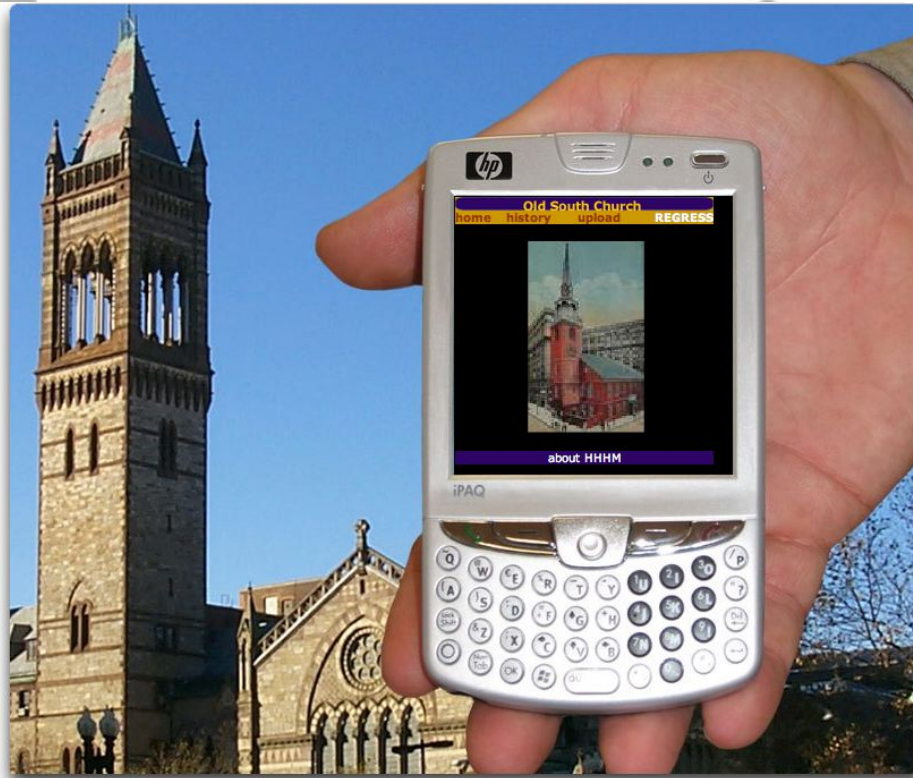




# Handheld Histories as Hyper-Monuments (2007)



# Handheld Histories as Hyper-Monuments (2007)



# Handheld Histories as Hyper-Monuments (2007)

