

World Wide Telescope

Alyssa A. Goodman, Harvard University

Part 1:

WWT as a Preview of 21st Century e-Research in Astronomy

Part 2:

WWT and the Astronomical Literature

Part 3:

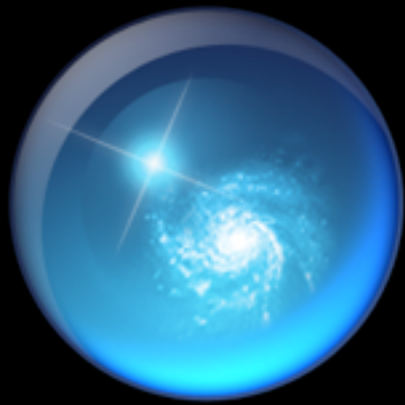
Synthesis: Communities, Tours, Collections, and More

Q & A





AAS, 2008: WWT as an "Open Secret"



1-minute demo of WWT

World Wide Telescope

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Synthesis: Communities, Tours, Collections, and More

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What do these (buzz) words really mean?

“e-Research” • “Semantic Web” • “Modular Apps”

“Ontology”

“GIS/Layering”

“Search”

What’s needed?

“Progressive Resolve”

“Registration”

“Selection”

**“Side-by-Side
Comparison”**

“Readable Labels”

“Highlighting”

“Zoom”

“Custom Site”

“Measurement”

“Off-the-Desktop”

“Inference”



LONG BEACH CONVENTION CENTER

From: Yan Xu
 Subject: RE: (non WWI) press conference attendance for AG or Tuesday AM
 Date: December 31, 2008 2:56:23 AM EST
 To: Yan Xu , Alyssa Goodman , Megan Watzke
 Cc: Becki Culbert (Swift Group) , Curtis G. G. Wong <curtisgwong@msn.com> , Jens Kauffmann , Rosalind Reid

Email with Room Numbers
 (result of search)

I just found Megan's earlier email, which mentioned that the press will be in room 204 of Convention Center. It is probably not too far from our room 308.

Our setup and presentation will be in the same room: #308 (Exhibition Hall C).

Thanks,
 Yan

Requires "Ontology"

Requires "GIS/Layering"



Area Map, with Photos & Street Names from Google Maps

Ballroom & Meeting Rooms

http://www.longbeachcc.com/meeting.h

Nature Toodledo DendroStar Harvard IIC: Projects Wikis Etc. Google Calendar

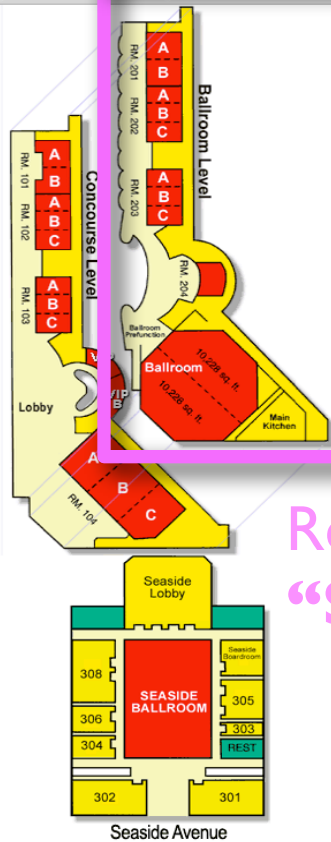
SPECIAL SERVICES INCLUDED:

- House lighting, ventilation, heat or air conditioning as required during open times. Energy conservation is of prime concern to the Convention Center and minimal light and comfort levels will be maintained during move-in and move-out periods. Rehearsals and similar pre-event activities will be maintained accordingly.
- Housekeeping services during open hours in aisles, doors, lobby, open spaces and restrooms, plus thorough cleaning of these same areas during non-openings. Meeting rooms will be cleaned between 12 AM and nightly unless prior arrangements are made with Event Manager.
- Water service will be supplied to head tables and tents only. All other water service needs must be ordered through your Catering Sales Manager.
- Basic set up is included with the daily rental. Additional set ups are charged based upon half of the daily rental.
- 6-time basic room set per rented event day. Meeting rooms included with an Exhibit Hall rental include a one-basic room set for the run of the event.
- Equipped first-aid facilities. Does not include an Emergency Medical Technician will be included through your Event Manager.
- Use of the outdoor marquee, as available. The marquee is not to information directly related to Licensee's activities within the Convention Center. All messages must be re-approved by Convention Center staff. (Please see pricing kit for all in-house Marketing and Public Relations details pertaining to your event).

SPECIAL SERVICES NOT INCLUDED:

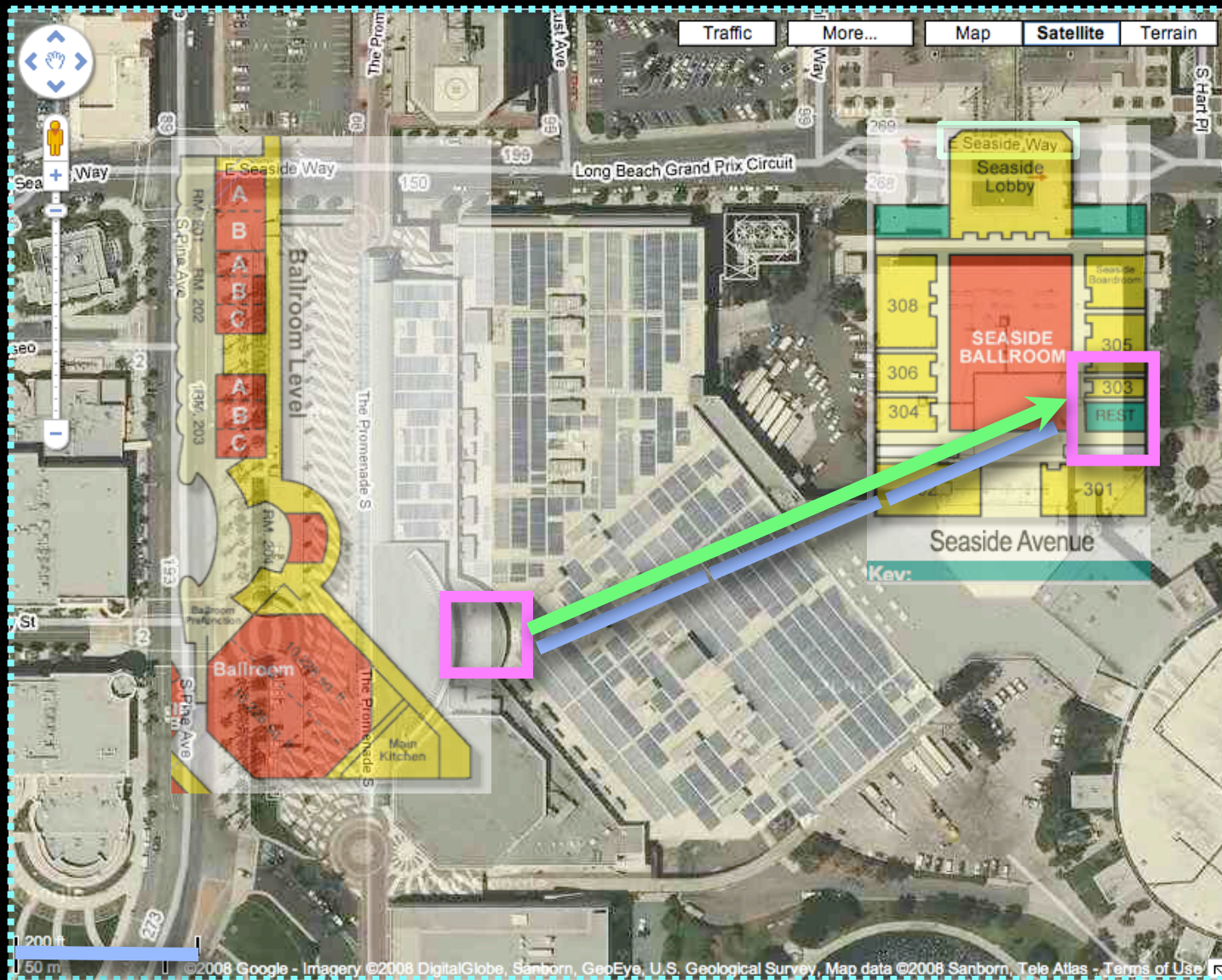
- On-site staffing with Emergency Medical Technician will be provided at current rates.
- Licensee is responsible for removal of bulk trash, crates, pallets, packing materials, lumber, etc. prior to show time and following move-out.
- Ket sellers, ticket takers, ushers, security, stagehands, and event operations shall be provided by the Convention Center and billed to Licensee.
- Performance stages, exhibit tables and dance floors.

Interior Map on Long Beach CC Web Site



Requires "Search"

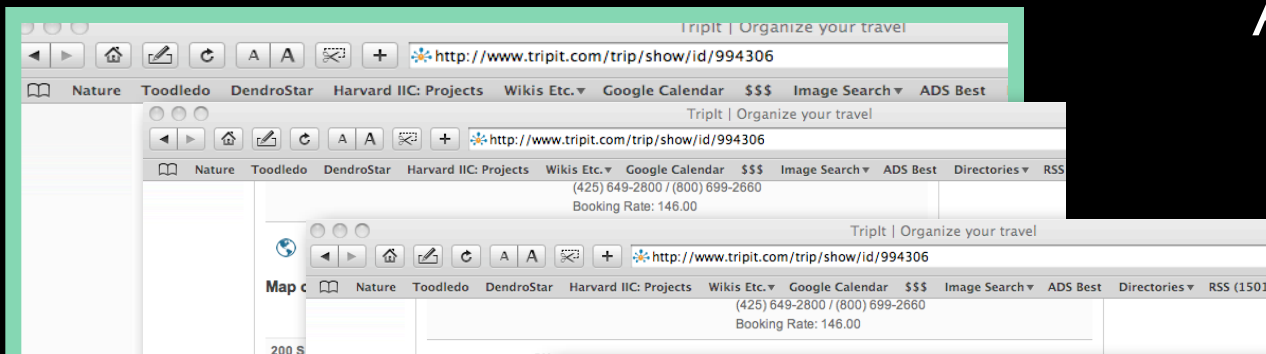
Seaside Meeting Room Key:



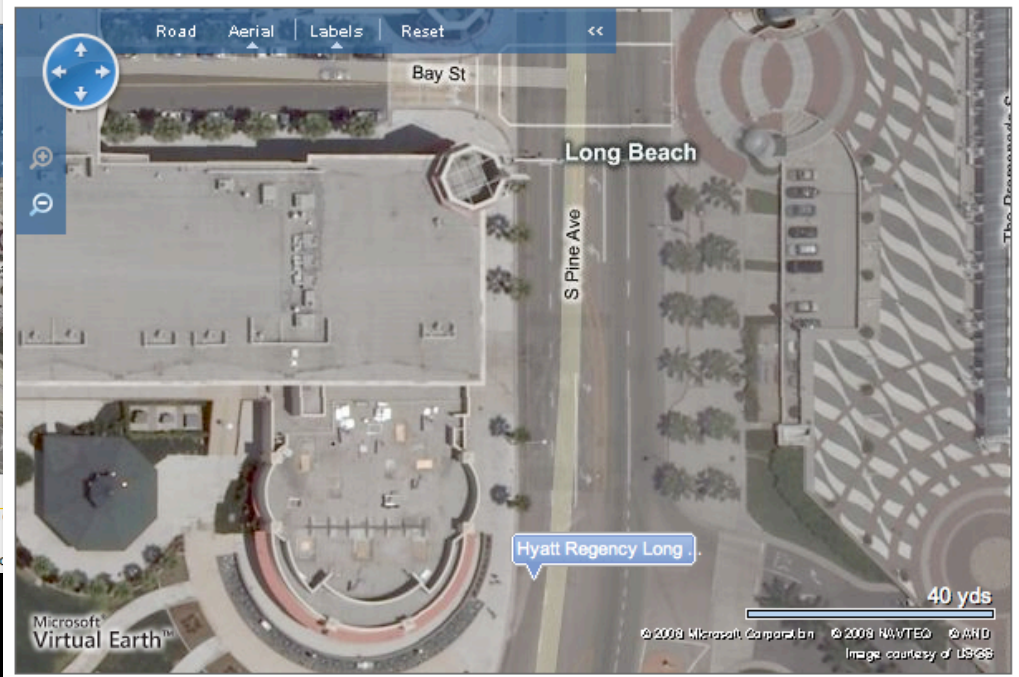
...requires: **“Selection”** ; **“Registration”** ;
“Readable Labels” ; **“Highlighting”** ; & **“Measurement”**

in order to yield: **“Inference”**: ...Wow, that's about 600 feet, hope we can change the room!

And, what about that
“**custom Triplt site**” I made to
organize all this?
What about the
hotel?



A screenshot of the Expedia website. The top navigation bar includes 'Home', 'Flights', 'Hotels', 'Cars', 'Vacation Packages', 'Cruises', 'Activities', 'DEALS & OFFERS', 'Maps', and 'Business'. The main heading is 'Hyatt Regency Long Beach' with the subtitle 'Hotel near Long Beach Harbor overlooking lagoon' and a star rating of 4.5. A sidebar on the left contains sections for 'Hotel Information', 'Pictures & Virtual Tours', 'Location & Map', 'Hotel Details', 'Traveler Opinions', and 'Rooms & Rates'. The date 'Mon, Jan 5' is displayed. A 'Map of HYATT' is visible on the left side of the page.



Nearby Points of Interest



Hyatt Regency Long Beach
 Hotel near Long Beach Harbor overlooking lagoon
 ★★★★★ Star Rating

Road Aerial Labels Reset
 Bay St
 Long Beach
 S Pine Ave
 Hyatt Regency Long
 40 yds
 © 2009 Microsoft Corporation © 2009 NAVTEQ © 2010
 Image courtesy of iStock

“Side-by-Side Comparison”

“Zoom”

“Progressive Resolve”

Click

“Inference”: ...Oh, that building with the funky paths outside is the Hyatt... what if I...



My TripAdvisor | Sign in

Register Now!

Over 20 million traveler reviews & opinions of hotels, vacations & more

Hyatt Regency Long Beach Hotel

Home Destinations Fun & Games Free Travel Guides Vacation Ideas International Sites

Search

- Long Beach Overview
- Long Beach Hotels
 - Hyatt Regency Long Beach
- Flights to Long Beach
- Long Beach Deals

More On Long Beach

- Before You Go
- Things to Do
- Restaurants
- Map
- Traveler Photos
- Forum
- Long Beach Deals
- Discount Hotels
- Hotel & Air
- All Travel Offers

Free Newsletter

Interested in Hyatt Regency Long Beach and Long Beach?

We'll send you updates with the latest deals, reviews and articles for Hyatt

Home → United States → California (CA) → Long Beach → Long Beach Hotels

Hyatt Regency Long Beach



Hotel class: ★★★★★

Rooms: 510

COMPARE PRICES

- Hotel photos
- Map this hotel
- Hotel amenities
- Virtual tour

200 South Pine Avenue, Long Beach, CA 90802

Property Type: Hotel

Full service hotel with water views from rooms. Walking distance to 100 shops and restaurants, Aquarium of the Pacific. Centrally located for easy...

+ more >



Check Rates and Availability: \$236 Avg. Price

Check-in: 10/2/2009 Check-out: 10/9/2009 Adults: 1

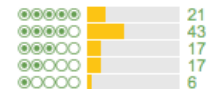
- | | |
|---|--|
| <input checked="" type="checkbox"/> Expedia.com | <input checked="" type="checkbox"/> Orbitz.com |
| <input checked="" type="checkbox"/> LongBeach.Hyatt.com | <input checked="" type="checkbox"/> hotels.com |
| <input checked="" type="checkbox"/> Travelocity | <input type="checkbox"/> HotelClub.com |
| <input checked="" type="checkbox"/> Priceline.com | <input type="checkbox"/> Gtahotels.com |

CHECK RATES!

Opens one window for each offer. Please disable pop-up blockers.

TripAdvisor Traveler Rating: ?

104 Reviews



Write a review

TripAdvisor Popularity Index: ?

#14 of 38 hotels in Long Beach

Call now to book: 1-800-45-HOTEL from hotels.com

Click here for best prices for Hyatt Regency Long Beach

- Hyatt Regency Long Beach: Great rooms from \$115 Smart Deal
Expedia.com Photos, Reviews and the Guaranteed Lowest Prices
- Hyatt Regency Long Beach: Save Up To 50% On Hotels Smart Deal
Orbitz.com View Hotel Photos, Reviews & More Compare & Save on Hotels at Orbitz
- Hyatt Regency Long Beach: Official Site Smart Deal
LongBeach.Hyatt.com Best Rates Guaranteed. Book Direct.
- Hyatt Regency Long Beach: Official Site Smart Deal
Hyatt Regency Long Beach Best Rates

TripAdvisor Traveler Reviews

TripAdvisor Traveler Rating: ★★★★★

And now for “e-Research” with WWT..

“Progressive Resolve”

“Zoom”

“Search”

“Selection”

“GIS/Layering”

“Registration”

**“Side-by-Side
Comparison”**

“Readable Labels”

“Highlighting”

“Custom Site”

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“Off-the-Desktop”

“Ontology”

“Measurement”

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“Highlighting”

“Custom Site”

“Inference”

“Off-the-Desktop”

“Ontology”

“Measurement”

Going “Off-the-Desktop”



More information: See the IIC's
“Scientists Discovery Room” [project pages](#)

Slideshow: Tabletop Computers Continued

By Meredith Ringel Morris

First Published December 2008

[Email](#) [Print](#) [Comments \(1\)](#) [Reprints](#) [Newsletters](#)



UBITABLE: Users can interact with surface computers through auxiliary devices, such as laptops, phones, and PDAs. The display on the auxiliary device can convey private or sensitive content to a single user, while group-appropriate content can appear on the tabletop display. Chia Shen and her colleagues at Mitsubishi Electric Research Laboratories, in Cambridge, Mass., have explored auxiliary interactions with surface computers in their UbiTable project, in which two people with laptops collaborate over a tabletop display. Recently, Shen expanded the UbiTable into an interactive room called the WeSpace. People can share data on their laptops with other people in the room, using both a table and a large display wall. Here, three Harvard University astrophysicists discuss radio and IR spectrum images using the WeSpace.

What if the Viewer were WWT?

The screenshot shows the Aladin sky atlas web interface. The browser address bar displays `http://aladin.u-strasbg.fr/java/ngh-aladin.pl`. The main content area shows a multi-wavelength image of a star-forming region with various filters applied. A table at the bottom lists object data:

MAIN ID	OTYPE	RA	DEC	COO	COO	C	PHRA	DEC
1181261.281	2K	03 29 17.03	+31 16 35.7					

Overlaid on the main image is the IVOA logo. In the bottom right corner, there is an NVO logo. A 'Pixel mapping' dialog box is open on the right side of the interface, showing a color map adjustment graph with axes from 24991 to 168.99 and various control options like Contrast (Log, Sqrt, Linear, Pow2) and Color map (BB, Reverse, Reset).

(alpha) Web Version of WWT

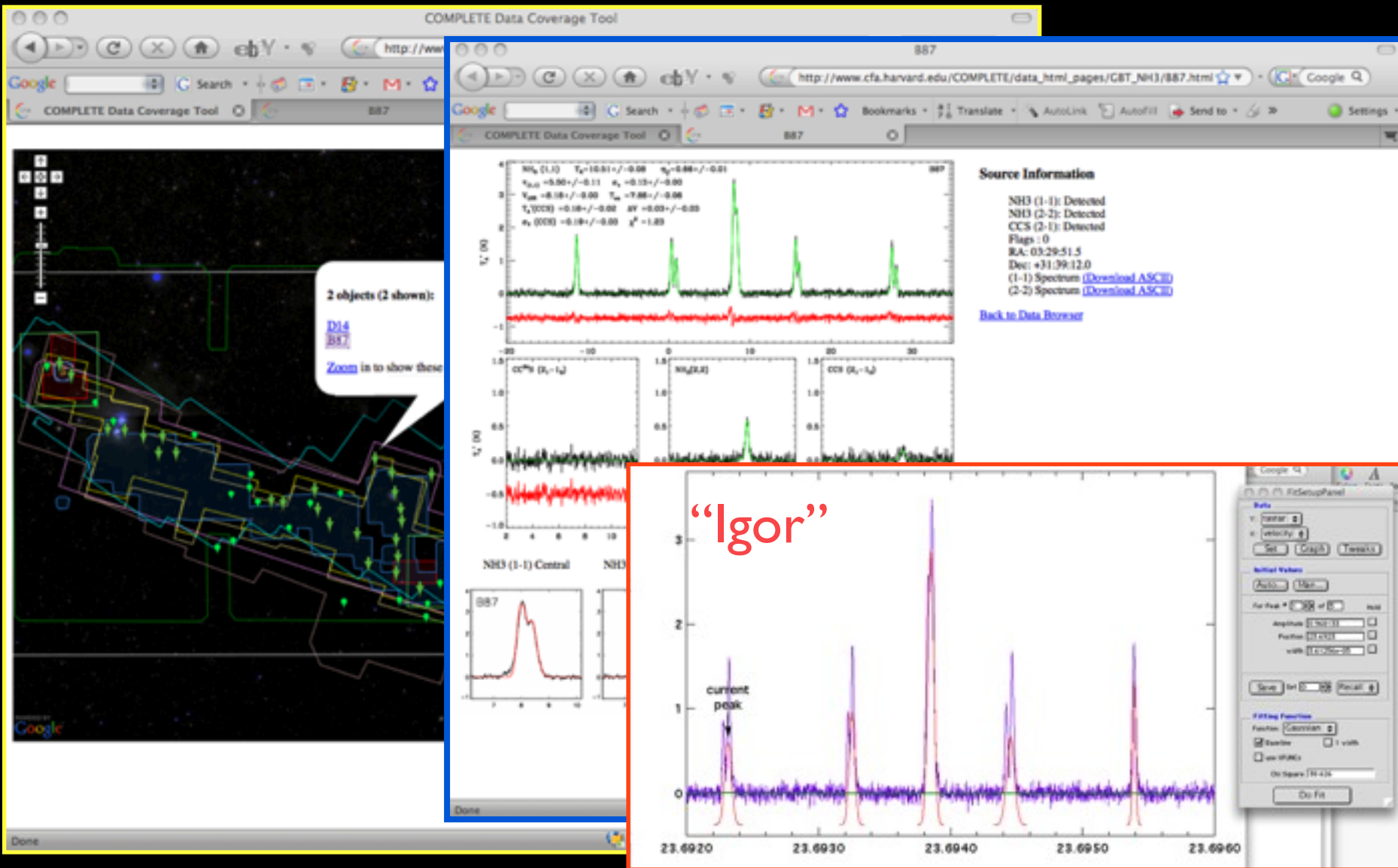
The screenshot displays the WWT web interface. At the top, the browser window shows the URL 'WWTSL'. The main navigation bar includes 'Explore', 'Guided Tours', 'Search', 'Community', 'View', and 'Settings'. The 'Search' tab is active, showing a search bar with 'm51' entered and a 'Go' button. Below the search bar, two small thumbnail images of the Whirlpool Galaxy (M51) are visible. The central part of the screen is dominated by a large, detailed image of the Whirlpool Galaxy, showing its characteristic spiral arms and a bright central core. Overlaid on this image is a smaller window titled 'NVO Cone Search' which displays a table of search results. The table has columns for 'Object Name', 'RA', 'Dec', 'Mag', and 'Filter'. The results list several objects, including 'M51', 'Whirlpool Galaxy', and 'NGC5194'. At the bottom of the WWT interface, there is a 'Look At' section with a dropdown menu set to 'Sky' and a search bar containing 'SDSS: Sloan Digital Sky Sun'. Below this are several thumbnail images of various celestial objects, including 'Canes Venatici', 'Out of This World!', 'Whirlpool Galaxy', 'Whirlpool Galaxy C', 'A Classic Beauty', 'M51', 'Whirlpool Galaxy a', 'M51', and 'NGC5194'. The bottom right corner shows a compass rose and coordinates: 'RA : 13h23m33s' and 'Dec : 47d51'48". The system tray at the very bottom indicates the current date and time: 'Mon 9:31 PM' and 'Alyssa Goodman'.

And ask Jonathan about NVO “Cone Search”

“Modular (& Embeddable) Apps”

The image shows a screenshot of a Facebook profile page for Nicholas Suntzeff. The browser address bar shows the URL `http://www.facebook.com/profile.php?id=1438935116&ref=nl`. The page header includes the Facebook logo and navigation links for Home, Profile, Friends, and Inbox. The profile picture of Nicholas Suntzeff is visible on the left. The main content area displays a post from Nicholas Suntzeff: "Nicholas Suntzeff is in long beach, amazed at the number of smart, young astronomers. 12 hours ago". Below this, there are several posts from other users, including one from Lara Suntzeff and another from Nicholas himself. A chat window is open over the posts, showing a conversation between Julie Shubin and Alyssa. The chat window title is "Julie Shubin" and it contains the text: "is doesn't want to get up at 6.", "Julie what's the AAS", and "Alyssa whoa--that's freaky--American Astronomical Society". On the right side of the page, there are advertisements for "Super Weightloss Foods" and "Don't Get Botox". The bottom of the page shows the Facebook Applications bar and the status "Loading 'http://www.facebook.com/profile.php?id=1438935116&ref=nl', completed 78 of 79 items".

Embedded & Modular Tools



tools created by Jonathan Foster, CfA/COMPLETE

Seamless Astronomy

(now part of the WWT Academic Program!)

The screenshot displays the AstroNavigator web interface. At the top, the title "AstroNavigator" is shown in a blue header. Below the header, there are four buttons labeled "Project 1", "Project 2", "Project 3", and "Edit". The main content area is divided into several panels:

- Panel A:** A search result for "QSO MgII absorption lines observed". It lists authors "Drinkwater and Webster R.L., et al." and a description: "The results of a large R-band".
- Panel B:** A search result for "SAO/NASA ADS Astronomy Abstracts". It includes links for "Find Similar", "Electronic Refereed Journal Article", "Full Refereed Journal Article (PDF)", and "arXiv e-print (arXiv:astro-ph/0004386)". A "FIND IT @ HARVARD" button is also visible.
- Panel C:** A 3D visualization of a star cluster, showing a large orange star and a smaller, reddish star. A blue arrow points from the orange star towards the reddish star.
- Panel D:** A search result for "IC 348". It includes a "Footprint" button and the text "C 348 RA = 56.141667 De" and "results 1-20 of 907".

The bottom of the interface shows a 3D visualization of a star cluster, with a large orange star and a smaller, reddish star. The interface also includes a search bar and a "Find It @ Harvard" button.

Mockup based on work of Eli Bressert, excerpted from Goodman et al. NASA AISRP proposal, 2008

astrobitz?

terabitz every bit on real estate

Getting Started | Sign In

Enter Location

Street: optional City, State or Zip: Ocala, FL

Go

[filter listings](#)

Drag and Drop icon to workspace below

Navigation tabs: Listings, Local, Market, Education, Safety, Financing, Professional, Misc

Icons: Google Local Search, Local Photos, Airports, Banks, Cafes, Cinemas, Fast Food, Gas Stations, Grocery Stores, Health Care, Libr

Take Snapshot

Dashboard

Map

Mini Map

Map data ©2007 Tele Atlas - Terms of Use

For Sale Listings

2-Br 1-Ba 3116 Nw 17th St, Ocala, FL 34475	\$ 49,900
3-Br 2-Ba 375 Nw 55th Ave, Ocala, FL 34482	\$ 109,900
3-Br 2-Ba 280 Nw 53rd Ct, Ocala, FL 34482	\$ 124,900
2-Br 2-Ba 3459 Sw 18th Pl, Ocala, FL 34474	\$ 150,000

[filter listings](#) [Map](#) | 90 results

Banks

Regions Bank 3101 Sw College Rd, Ocala, FL	352-291-2965
Regions Bank 2811 Sw 27th Ave, Ocala, FL	352-861-2342
Wachovia Bank 3201 Sw College Rd, Ocala, FL	352-873-5010
Community Bank & Trust of ... 1603 Sw 19th Ave, Ocala, FL	352-369-1000










[Map](#) | 20 results

CDS (PLASTIC/SAMP) is on the right track...

SIMBAD: Query by criteria

http://simbad.u-strasbg.fr/simbad/sim-fsam

RSS - Q- aladin

SIMBAD: Query by criteria

other query modes : [Identifier query](#) [Coordinate query](#) [Criteria query](#) [Bibliography query](#) [Basic query](#) [Script submission](#) [Output options](#) [Help](#)

Enter a search expression:

Criteria queries may require some time, especially if they are complex or involve a large number of objects. Please, wait for their completion if it is the case.

Enter the name of an ASCII file containing a search expression:

no file selected

Example:
`ra > 15 & ra < 30 & dec > 70 & (cat = 'PPM' | cat = 'HIP') & mes = 'ROT' & ubv.v <= 10.0`

Return :

- object count
- display objects
- get references from the selected objects

Description of the queryable fields (231) :

Criteria on basic data

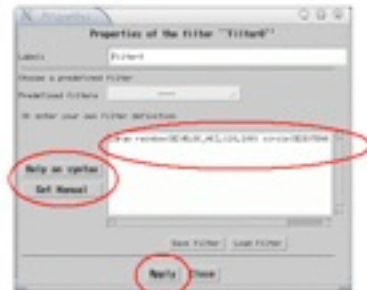
pm	proper motion (mas)	< / <= / > / >=	splum	criterion using only a luminosity class ('III', 'IV/V', ...) More info	= / != / > / >= / < / <= / in
pmqual	proper motions quality (A:best, E:worst)	= / != / in	spec	criterion using only spectral type peculiarities ('ap', 'cn', ...) More info	= / != / in
plx	parallaxes (decimal value expressed in milliarcsec)	= / != / < / <= / > / >=	spqual	spectral type quality (A:best, E:worst)	= / != / > / >= / < / <= / in
plxqual	parallax quality (A:best, E:worst)	= / != / in	mttype	morphological type	= / != / ~ / !~ / in
rvtype	radial velocity type as the value was entered in the	= / !=	mtqual	morphological type	= / != / in

What we get

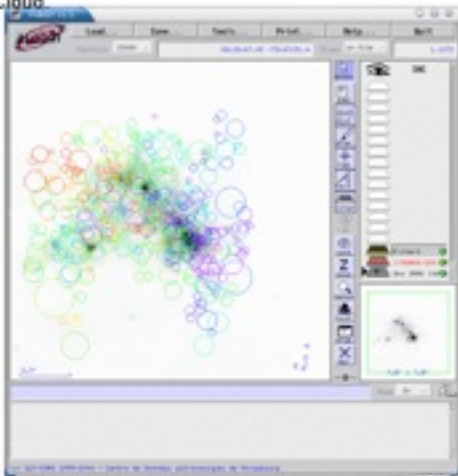
- Write the following expression in the filter definition box:

```
{draw rainbow(${VELOC_HC},120,200) circle(${EXTENSION_RAD})}
```

- This filter draws a circle which radius is proportional to the extension radius of the shell (EXTENSION_RAD) and wich colour scales with the heliocentric velocity of the bubble (VELOC_HC) (between 120 and 200 km/s) with a rainbow palette.
- For more informations on the filters syntax, please press the **Help** on **Syntax** button or **get the manual**.
- Press **Apply**.



We can now observe the distribution of the HI shells with their position, size and velocities. Note the colour view of the velocity gradient of the Small Magellanic Cloud.



vs.

What the "public" gets



Mirage (Bell Labs)

The screenshot displays the Mirage software interface with several key components:

- Tasks Panel (Top Right):** A table listing completed tasks and their messages.
- Main Image Viewers (Center):** Two side-by-side astronomical image windows. The left window shows a field of stars with green circles highlighting specific objects. The right window shows a zoomed-in view of a galaxy cluster.
- Data Table (Bottom Right):** A table with columns for object ID, U-band magnitude, and G-band magnitude.
- Plot (Bottom Left):** A scatter plot showing the relationship between U and G magnitudes for the objects.

Task	Status	Message
SDSSDR2-I-SIAP-RA_9...	Completed	Done.
SDSSDR2-JPG-SIAP-RA_9...	Completed	Done.
SDSSDR2-R-SIAP-RA_9...	Completed	Done.
SDSSDR2-U-SIAP-RA_9...	Completed	Done.
SDSSDR2-Z-SIAP-RA_9...	Completed	Done.
Loading SDSS-DR2-RA_9...	Completed	Loaded 1 datasets.

ID	U	G
587731187282019071	24.18713	24.20689
588015510347318143	25.97617	23.60485
587731187281953508	21.4283	20.91666
587731187282018784	23.57881	22.82347
587731187282018888	23.81209	22.60126
587731187281953860	19.15922	17.97867
587731187282084911	23.8728	25.90358
587731187281887870	25.03652	22.63719
588015510347513898	25.59181	23.56613
587731187281888417	24.52932	25.09906
587731187818823841	21.79988	20.83762
587731187818824258	24.73024	22.97165

cf. Avizo (Mercury Systems); some aspects of GenePattern; Taverna...

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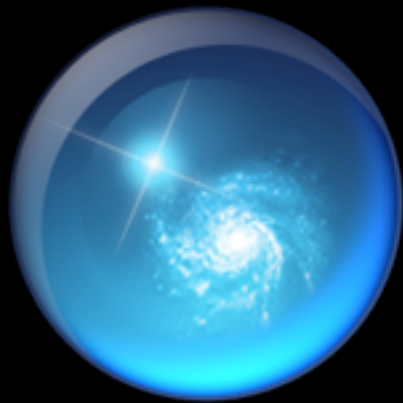
WWT and the Astronomical Literature

Part 3:

Synthesis: Communities, Tours, Collections, and More

Q & A





30-second demo of
WWT to ADS

Seamless Astronomy

(now part of the WWT Academic Program!)

AstroNavigator

Project 1 Project 2 Project 3 Edit

A QSO MgII absorption lines observed
Authors: Drinkwater, Webster R.L., et al.
Description: The results of a large R-band

B SAO/NASA ADS Astronomy Abstracts
Find Similar (with default)
Electronic Refereed Journal Article
Full Refereed Article (PDF/HTML)
FIND IT @ HARVARD
arXiv e-print (arXiv:astro-ph/0004386)

C STARS WITH NEBULAS

D IC 348
Inventory Images Footprint
IC 348 RA = 56.141667 Dec = 1.234567
results 1-20 of 907

Mockup based on work of Eli Bressert, excerpted from NASA AISRP proposal by Goodman, Muench, Christian, Conti, Kurtz, Burke, Accomazzi, McGuinness, Hendler & Wong, 2008

Prototype “Faceted” Browsing (using very lightweight ontology)

Faceted browsing of the IVOA Registry

Start search

2 filter criteria (remove all)

- Wavelength coverage: Infrared (remove) [add more]
- Text Search: "quasar" (remove)

Order Commands

40 items
sorted by Citation [A to Z]

1(28) 2(12)

« previous 1 2 3 4 next »

QSO MgII absorption line systems (Drinkwater+, 1993) - Quasars observed

Authors
Drinkwater M.J., Webster R.L., Thomas P.A.

Description
The results of a large R-band imaging survey of 71 bright ($m(V) < 18$) quasars are presented. The quasars were chosen from published samples which have intermediate resolution optical spectroscopy available, so the presence of low redshift Mg II absorption lines can be determined. We have searched our data for galaxies close to the line-of-sight to the quasars, which we might be able to identify with the absorption systems. We find a high coincidence between galaxies very near the line-of-sight and quasars showing absorption systems in their spectra, a result consistent with other studies. These galaxies have a mean luminosity of $0.5L_{\text{star}}$ (assuming they lie at the absorption redshift). The distribution of impact parameters between the galaxies and the quasars extends with a flat distribution to large radii ($> 30h^{-1} \text{kpc}$). This suggests that the absorption systems may not be gravitationally bound to the observed galaxies, but may be part of larger extended systems. We also find a significant number of galaxies near the line-of-sight to the

Type
Catalog

Content Level
Research

VizieR collection
Tables from Astronomical Journal

Bibliographic Code
1993AJ...106..848D

Original data
[external link]

Q Type here to search

VizieR keyword

Type here to filter

- QSOs (35)
- Redshifts (9)
- Wide-band photometry (9)
- Spectroscopy (6)
- Galaxies (4)
- Photometry (3)
- White Dwarf stars (3)

Wavelength coverage

Type here to filter

- Radio (16)
- Optical (15)
- UV (13)
- X-ray (13)

VizieR catalog collection

Type here to filter

- Tables from Astronomical Journal (16)
- Tables from Astrophysical Journal Supplement Series (13)
- Tables from Astronomy and Astrophysics Supplement Series

courtesy Douglas Burke, CfA/IIC

Incorporating "InfoViz"

The screenshot shows the Many Eyes website interface. At the top, there is a browser window with the URL <http://maneyeyes.alphaworks.ibm.com/maneyeyes/> and a search bar containing "maneyeyes". The page is divided into several sections:

- Navigation:** A sidebar on the left contains links under "explore" (visualizations, data sets, comments, topic hubs, my stuff, my topic hubs, my watchlist, my contributions, messages to me), "participate" (create visualization, upload data set, create topic hub), and "learn more" (quick start, visualization types, about Many Eyes, blog).
- Featured Visualizations:** A central section titled "Try Our Featured Visualizations" displays four items:
 - World Cup Finals Facts:** A bar chart comparing soccer stats across countries, by Kyle C.
 - Leaves of Grass:** A word cloud visualization of Walt Whitman's classic, by amyp.
 - OECD Economic Outlook:** A map showing GDP growth projections for 40 countries over 2008-2010, by OECD.
 - Bhagavad Gita:** A word tree visualization of the Hindu sacred text, by I Love GOD (www.ishwar.com).
- Featured Topic Hubs:** A section below featuring three hubs:
 - Convention Coverage 2008:** For the US presidential election.
 - Sports:** All things sports.
 - OECD Factbook 2007:** Official statistics.
- Footer:** The bottom of the page features the "many eyes beta" logo with the tagline "for shared visualization and discovery", a "WORDLE! debuts on many eyes" announcement with a word cloud for "Alice", and the IBM logo with the text "brought to you by IBM".

Plugging in Existing Search & Retrieval Tools (e.g. MAST)



Hubble Legacy Archive

IC 348

Search

Reset

advanced search

Examples: M101, 14 03 12.6 +54 20 56.7 r=0.2d, more...
Requires Firefox, Safari, or compatible browser

Inventory

Images

Footprints

NICMOS Grism (ST-ECF)

Help

IC 348 RA = 56.141667 Dec = 32.162778 r = 0.200000 [03:44:34.000 +32:09:46.00]

Results 1-20 of 907 sorted by StartTime

Show 20 results per page

Previous 1 2 3 4 5 6 7 8 9 ...

Click column heading to sort list - Click rows to select [Reset selection](#)

Text boxes under columns select matching rows [Apply Filter](#) [Clear Filter](#)

Display	Download	RA	DEC	Level	Target	Detector	Aperture	Spectral_Elt	NExposures	ExpTime	
Display	FITS	03:44:25.8	31:58:14.9	1	HI-LATITUDE-FIELD	STIS/CCD	50CCD	MIRVIS	1	200	2001-
Display	FITS	03:44:25.8	31:58:14.9	1	HI-LATITUDE-FIELD	STIS/CCD	50CCD	MIRVIS	1	200	2001-
MAST Preview	DADS	03:44:13.07	32:02:39.8	1	IC348-PSF2	WFPC2	PC1	F850LP	1	40	2001-
MAST Preview	DADS	03:44:13.1	32:02:39.7	1	IC348-PSF2	WFPC2	PC1	F850LP	1	40	2001-
MAST Preview	DADS	03:44:17.18	32:02:29.5	1	IC348-POS2	WFPC2	PC1	F850LP	1	400	2001-
Display	FITS	03:44:29.9	31:58:04.6	2	ANY	STIS/CCD	50CCD	MIRVIS	1	420	2001-
MAST Preview	DADS	03:44:17.18	32:02:29.5	1	IC348-POS2	WFPC2	PC1	F850LP	1	400	2001-

courtesy Alberto Conti & Carol Christian, NASA/STScI

Seamless Astronomy

(now part of the WWT Academic Program!)

AstroNavigator

Project 1 Project 2 Project 3 Edit

QSO MgII absorption line observed

Authors **A**
Drinkwater, Webster R.L., et al.

Description
The results of a large R-band

SAO/NASA ADS Astronomy Abstracts

Find Similar **B** (with default)
Electronic Refereed Journal Article (PDF)
Full Refereed Article (PDF)
FIND IT @ HARVARD
arXiv e-print (arXiv:astro-ph/0004386)

STARS WITH NEBULAE
ST Grains

C

Inventory Images Footprint
D
IC 348
Example Requires
C 348 RA = 56.141667 De
results 1-20 of 907

Mockup based on work of Eli Bressert, excerpted from NASA AISRP proposal by Goodman, Muench, Christian, Conti, Kurtz, Burke, Accomazzi, McGuinness, Hendler & Wong, 2008

World Wide Telescope

Alyssa A. Goodman, Harvard University

Part 1:

WWT as a Preview of 21st Century e-Research in Astronomy

Part 2:

WWT and the Astronomical Literature

Part 3:

Synthesis: Communities, Tours, Collections, and More

Q & A



“Semantic” Science (& “Social” or Group Science)

Loading "SWAN Hypothesis Browser"

http://hypothesis.alzforum.org/swan/do/getHome.action

swan clark neuro

SWAN Alzheimer Knowledge Base beta

Semantic Web Applications in Neuromedicine

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Home About

Welcome to the SWAN Alzheimer Knowledge Base


SWAN is the participatory knowledge base of Alzheimer Disease that YOU can help develop. SWAN is all about how you interpret, debate, ask questions and advance the science.

Log in now to browse the SWAN Alzheimer Knowledgebase!
Login Now!
Or [Contact us](#) if you are interested in participating to our Beta Program!

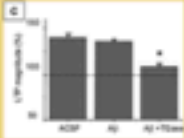
» Featured Contributions



H [A \$\beta\$ Plaques Lead to Aberrant Regulation of Calcium Homeostasis In Vivo Resulting in Structural and Functional Disruption of Neuronal Networks.](#)
Kuchibhotla Kishore V et Al.



H [Amyloid- \$\beta\$ protein dimers isolated directly from Alzheimer's brains impair synaptic plasticity and memory](#)
Shankar Ganesh M et Al.



H [Transglutaminase induces robust amyloid- \$\beta\$ -protein assemblies that are resistant and inhibit long-term potentiation](#)
Hartley Dean M et Al.

click on the title to browse the full content and use the arrows to scroll the list

» Hot Topics (browse all hypotheses)

- A β accumulation in the brain is the primary event in Alzheimer Disease pathogenesis
- Soluble oligomeric aggregates of A β are toxic to neurons and cause AD pathology
- Insoluble fibrillar A β leads to AD
- Defective mechanisms of A β clearance contribute to AD
- Tau dysfunction mediates neurodegeneration
- ApoE contributes to AD through multiple mechanisms
- Changes in calcium homeostasis may provide a common pathway for the neuropathological changes in AD
- Changes in presenilin function lead to dementia and neurodegeneration in Alzheimer Disease
- Misfolded proteins accumulated into protein aggregates characterizes the pathologic lesions of AD
- The molecular mechanisms of neuronal cell death are involved in the dysfunction and death of neurons in AD
- Synaptic loss appears to be the most powerful and ubiquitous proximate factor leading to the dementia of AD
- Failure of axonal transport might be the underlying basis for neurodegeneration in AD
- Cell membrane properties play a key role in AD Pathophysiology

» Mechanisms

- Energetics
- Functional Changes of Proteins
- Structural Changes of Proteins

» How to Contribute

- **Build a hypothesis**
- **Critique a hypothesis**
- **Nominate a key paper**
- **Help find connections**
- **Propose new features**
- **Add supporting evidence**

[Contact us!](#)

» Knowledge Base

Statements
1438 Research Statements

- 128 [Hypotheses](#)
 - 26 with Extended annotation
 - 102 with Simple annotation
- 1310 [Claims](#)

35 [Research Questions](#)
29 [Comments](#)

Publications
1201 Journal Articles
6 Journal Comments
2 Journal News
30 Web Comments

Loading "http://hypothesis.alzforum.org/swan/do/getHome.action", completed 86 of 89 items

Groupware

The screenshot displays the COMPLETE web application interface. At the top, the browser address bar shows the URL <https://completesurveyofstarformingregions.updatelog.com/clients>. The page header includes the "COMPLETE" logo and navigation links for "All People", "Search", "Templates", and "Settings". A user profile for "Alyssa Goodman" is visible in the top right corner.

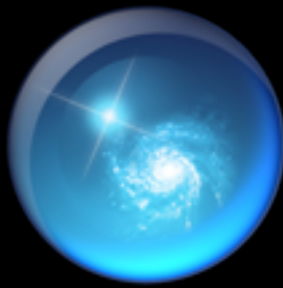
The main content area is titled "Latest activity across your projects" and is divided into several sections:

- COMPLETE Team Elsewhere — Logistics & Link to old Site**
 - File: [Cepheus_DSS.tif](#) (Uploaded by Jens K., 3 Dec)
 - To-do: quick view of a field in Cepheus (COMPLETE Agenda for Dec 3, 2008) (Assigned to Jens K., 3 Dec)
 - Message: [COMPLETE Meeting for Dec. 3rd, 2008](#) (Posted by Jonathan F., 2 Dec)
 - To-do: Talk about Ophiuchus (COMPLETE Agenda for Dec 3, 2008) (Assigned to Alyssa G., 2 Dec)
 - To-do: Update on Cloudshine images of Perseus (Agenda for Nov 19, 2008) (Completed by Jonathan F., 24 Nov)
- COMPLETE Team Elsewhere — NSF 2008**
 - File: [mf_2008.ks.final](#) (Uploaded by Alyssa G., 19 Nov)
 - Message: [Final Word Version of K-S, for the record, on Basecamp](#) (Posted by Alyssa G., 19 Nov)
 - File: [mf_2008.ks_for_distribution.pdf](#) (Uploaded by Alyssa G., 19 Nov)
 - File: [mf_2008.ks.final_rev.pdf](#) (Uploaded by Alyssa G., 14 Nov)
 - Comment: [Good to go, assuming administrative parts OK](#) (Posted by Sarah B., 13 Nov)
- COMPLETE Team Elsewhere — Structure of L1448 / Jens**
 - Message: [Coms.html](#) (Posted by Alyssa G., 8 Nov)
 - File: [L1448.pdf](#) (Uploaded by Jens K., 24 Oct)
 - File: [L1448.pdf](#) (Uploaded by Jens K., 23 Jul)
 - File: [L1448.pdf](#) (Uploaded by Jens K., 29 Nov)
- Friends of COMPLETE — Column Density/Alyssa**
 - To-do: [jaimc-will apply right-Mach-number equations to new histograms \(To finish...\)](#) (Completed by Jaime F., 5 Nov)
 - File: [ilux_coldens.optx.pdf](#) (Uploaded by Alyssa G., 24 Sep)
 - File: [ilux_coldens.optx](#) (Uploaded by Alyssa G., 24 Sep)
 - File: [fg.pdf](#) (Uploaded by Alyssa G., 24 Sep)

The right sidebar features the "COMPLETE" logo, a "Create a new project" button, and a "Your projects" section. This section lists various project categories and their associated links:

- COMPLETE at CFA**
 - [Cloudshine \(Densivi/Jonathan\)](#)
 - [Clumpfind - Perseus](#)
 - [Clumpfind - Dendrograms/Jens](#)
 - [Continuum Analysis/Jens](#)
 - [Google Sky/WWT](#)
 - [NASA ADP June 2008](#)
 - [Radiative Xfer Experiments \(Jaime\)](#)
 - [Re: Taste Tests/Erik](#)
 - [SCF/Jaime](#)
 - [Spitzer Outflows](#)
 - [Star Formation Proposals](#)
- COMPLETE Affiliated**
 - [General Communication](#)
 - [MMT Extinction Study/Jonathan](#)
- COMPLETE Team Elsewhere**
 - [Abundances/Jaime](#)
 - [Ammonia / Erik](#)
 - [Bubbles, Jets++ \(AstroMed\)/Michelle](#)
 - [Group Communication](#)
 - [JCMT N2D+ and HCO+](#)
 - [Logistics & Link to old Site](#)
 - [Mark & Alyssa Explain Star Formation to Theorists](#)
 - [NSF 2008](#)
 - [Ophiuchus Paper](#)
 - [Structure of L1448 / Jens](#)
 - [Turbulence/Jaime](#)
 - [Website Updates](#)

At the bottom of the sidebar, the text "Friends of COMPLETE" is visible.



later today... demo of WWT communities



Microsoft® Research
WorldWide Telescope

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System Requirements (Windows® only)

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Communities

[How To?](#)
[Communities](#)
[Contact Info](#)
[Issues and Bugs](#)

	Meade 4M Community Type: Public Meade 4M web site
	Astronomy magazine Type: Public Astronomy magazine's WWT community web site
	Sky & Telescope Type: Public Sky & Telescope magazine's WWT community web site

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Think about WWT Tours
as collaborative tools, too...

Our Future

“e-Research” • “Semantic Web” • “Modular Apps”

“Unsolicited Advice” for 2009 from www.microsoft-watch.com

“3. Make incubation projects the top development priority.

Simply some of your best work in 2008 came from incubation projects. Keep them coming and better reward employees for their innovation. Give your customers more products like Live Mesh, Photosynth and [WorldWide Telescope](#).

Incubation projects:

- Engage enthusiasts
- Create positive buzz
- Show how Microsoft can truly innovate.

...Then there's Google. Yes, Google. Gmail is now a modularized product. Gmail users choose which features they want to add on, stuff coming out of Google incubation development. Outstanding.”