

Where are Model of the second second



Is there a

On the bidding activity





Where

Are bids following a

trend?

WHERE are the most valued areas in

the GOM?

WHERE are the hot

spot s in the Gulf?

HOW we got to todays lease sale system. HOW are we a pattern?

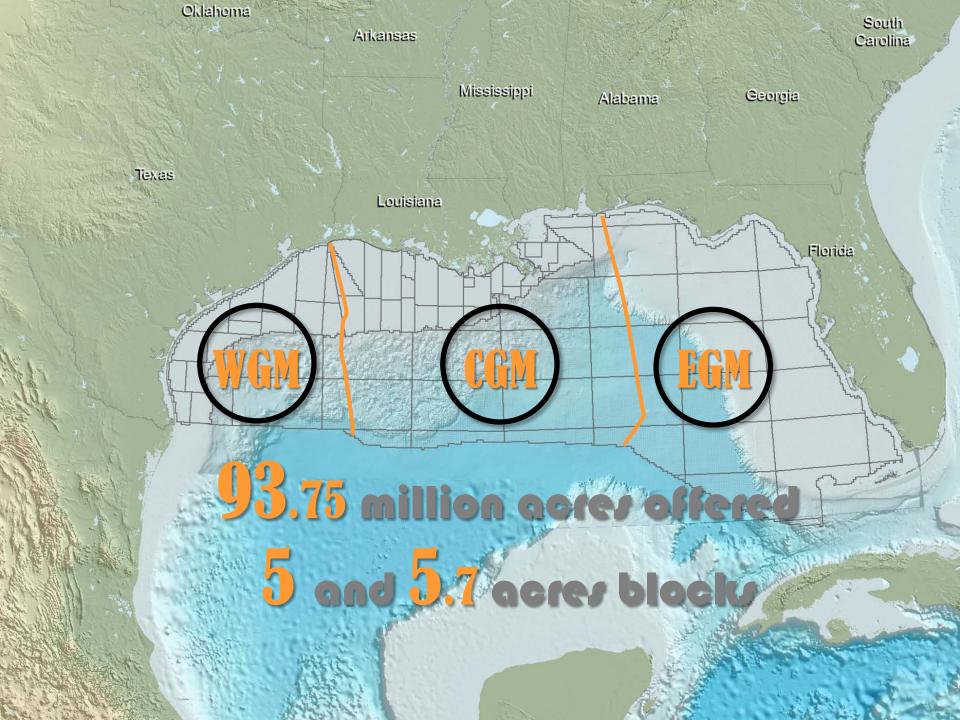
WHAT are we

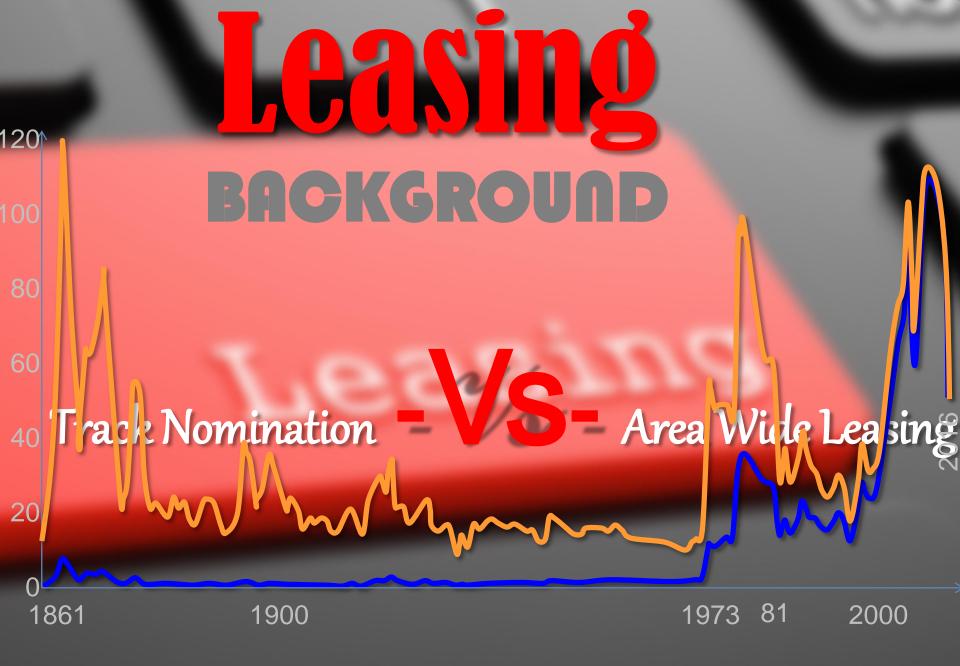
looking for?

What

Bids & values patters

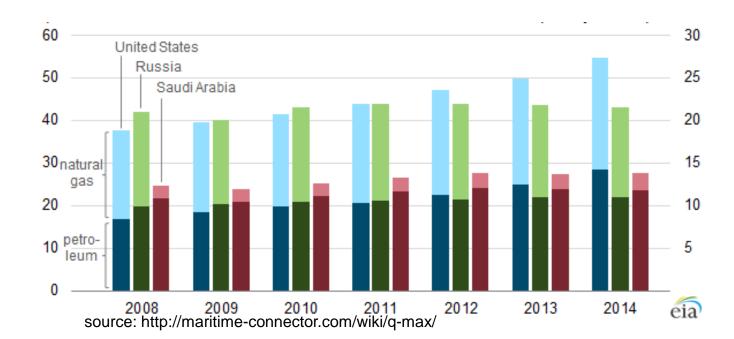






Leasing Today

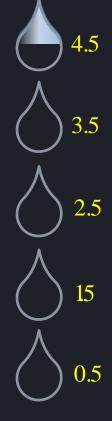
- Why we are interested in this area:
 - A premier hydrocarbons province on global scale
 - 20 to 25 % of US oil production (DW: 15%);
 - 23 % of natural gas production;
 - 15 % of total proved reserves
 - Second most important source of revenue for US government; offshore activities mean USD 6 billion per year to Louisiana's economy alone



BACK AND THE FUTURE

Annual DW product ion expected to grow from 0.8 Tcf to 4.5 Tcf

to sat is fy 50% of increment al US gas demand over D years



Petrotrek + Petroview + IHS + Internal DB +

\$

T

.Gov + Industry Mag + BOEM + EIA Energy In



Description of the Data

(let the data speak to you)

Entire Lease sales

bidding activity since

1996 Including last 20

years for a total of

15,337 high/wining bids

Currently lease 4,795

date back to 1936

Highest bid: USD

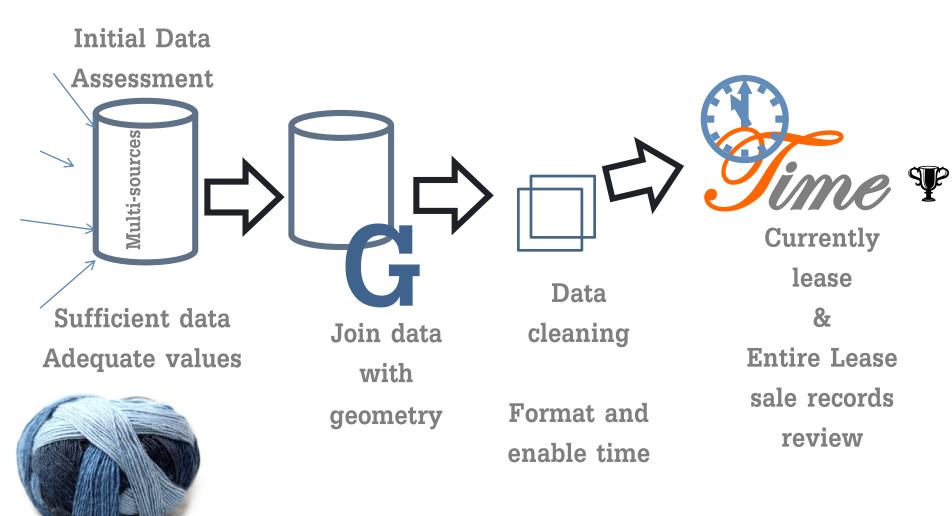
157,111,000 Almost all

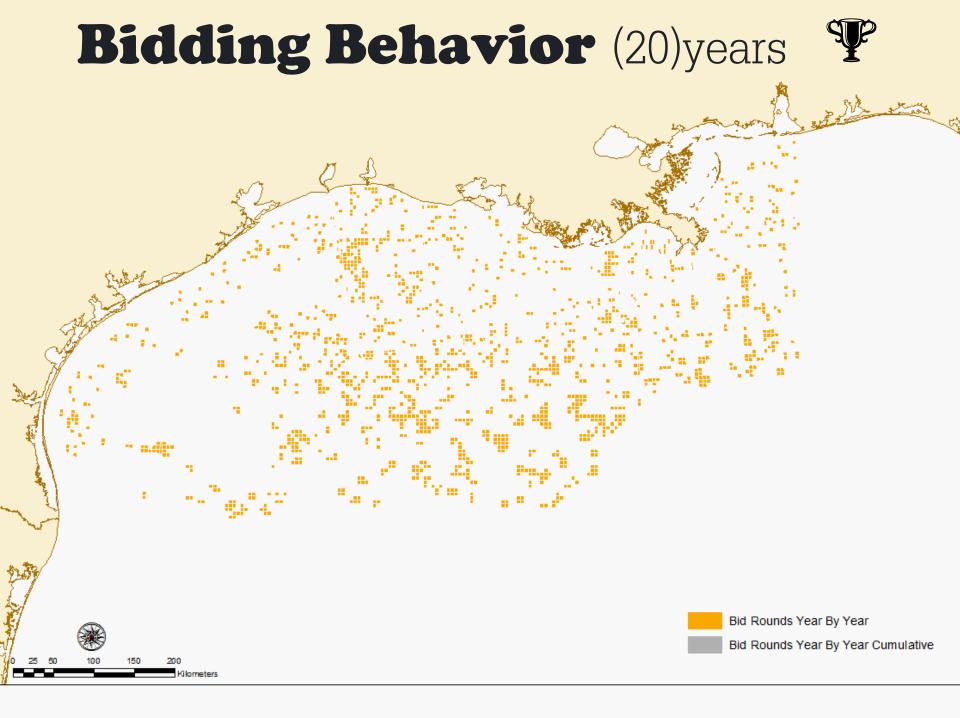
the bids are in the

range of zero to 16

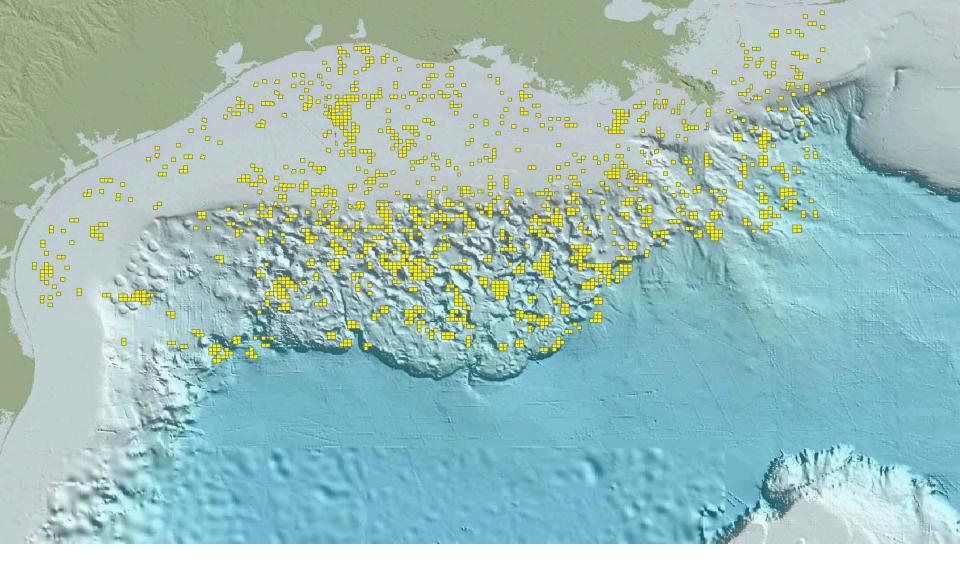
million







Bidding Behavior (20)years



Currently leased Blocks throughout time (since 1936)

1936



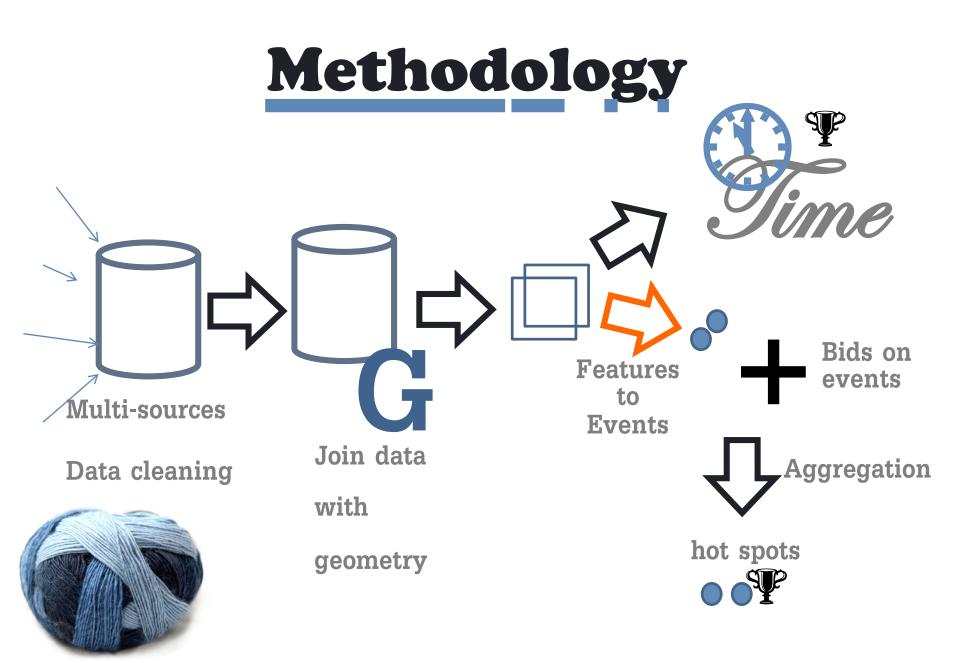
200

150

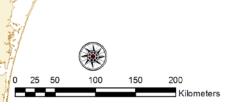
Currently leased Blocks throughout time (cumulative)

150

200



From blocks \rightarrow to events





Spatial Trends From blocks \rightarrow to events

.::

200

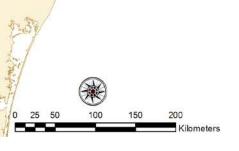
Kilometers

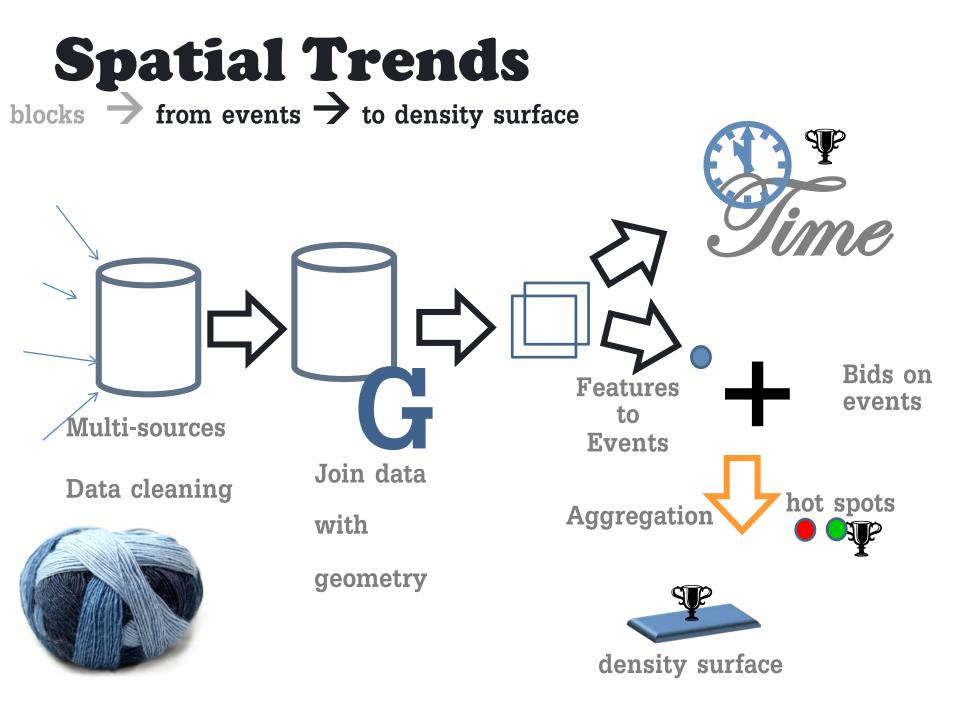
150

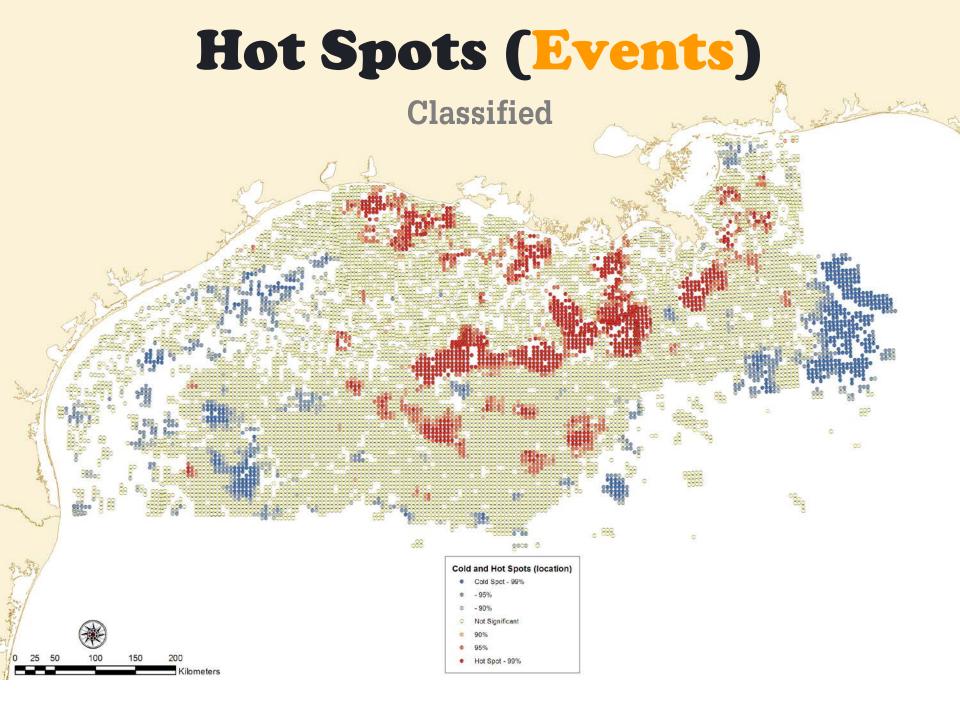
.....

Entire Lease Sale since 1996

Spatial Distribution (Events)



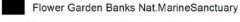




Hot Spots (Bids) Political and Geo-limits

Influence on the Results



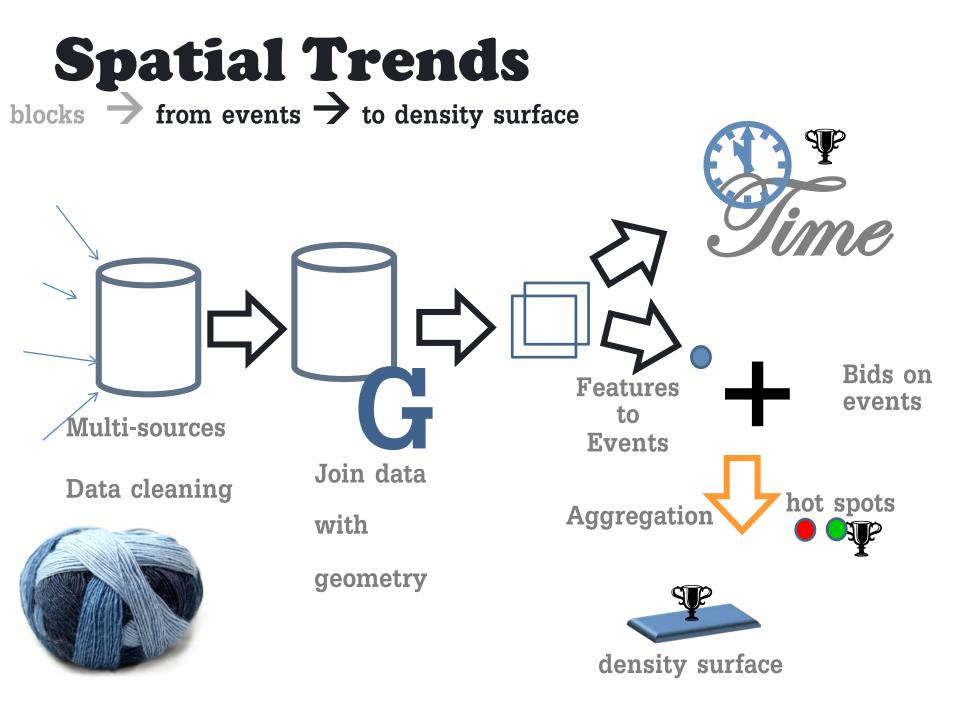


Cold Spot - 98%

401.570t, 38%

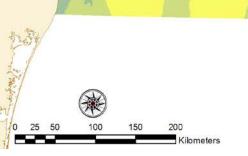
.95% 510111Cal.

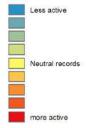
- •=•=•• Withdrawn from drilling until 2022
 - Areas closed under moratorium
 - Salt Diapir
 - StudyArea



Spatial Distribution (Events)

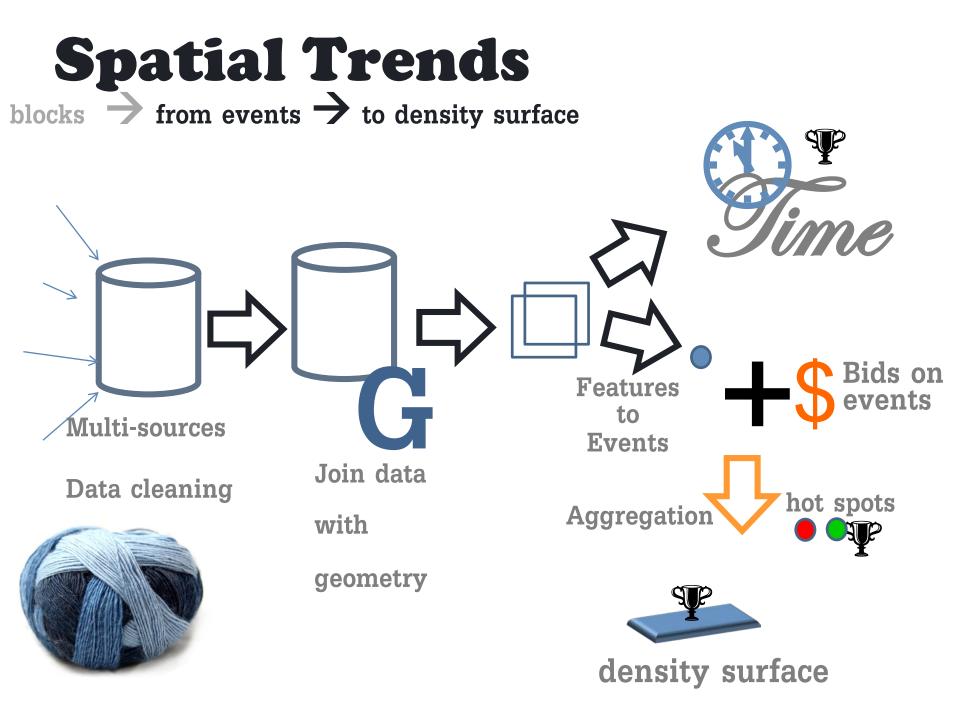
density surface



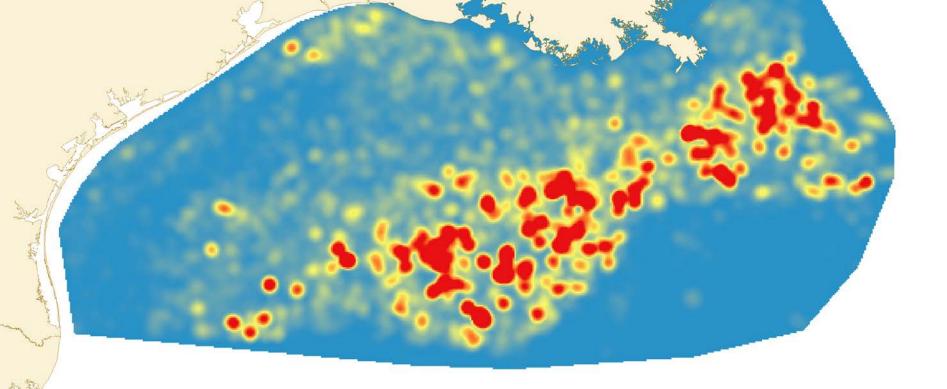


Interpolation (Events) in to a Density Surface





Feature and **Bid\$**



100

150

200 Kilometers High Low

Fields

LOGAN

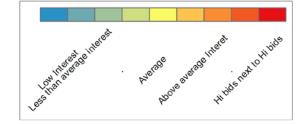
IDA/FASTBALL KING/HORN MT. LENA GEMINIKING'S PEAK EAST ANSTEYRAPTOR GI102 MEDUSA TUBULAR BELLS LOBSTER/OYSTER^{MARS-URSATHUNDER HORSE} CROSBY C BULLWINKLEARNOLD VORTEX TELEMARK **NORTHWESTERNSALSA** JUBILEE DIAMOND BORISGENESISCLIPPER PTOLEMYLLANO/HABANERO **BASS LITECHEYENNE** SERRANO CONDOR FUJI K2SHENZI **GUNNISON** TAHITI NORTH PLATTE ANCHOR MAD DOG DIANA **BIG FOOT** CORONADO CASCADE GILATIBER HOOVER KASKIDA STONES BAHA JULIASAINT MALO LEON BUCKSKIN HAL **GREAT WHITE**

GREATWIT

150

200

Kilometers



- Bureau of Ocean Energy Management (2013), Status of Gulf of Mexico Plans. Retrieved December 7, 2013, from http://www.boem.gov/Status-of-Gulf-of-Mexico-Plans/
- Desoto expedition map1:^ Hudson, Charles M. (1997). Knights of Spain, Warriors of the Sun. University of Georgia Press.
- Handbook of applied spatial analysis software tools, methods and applications. By: Fischer, Manfred M. Springer 2009.
 - Hudson, Charles M. Knights of Spain, Warriors of the Sun: Hernando De Soto and the South's Ancient Chiefdoms. Athens: U of Georgia, 1997. Print.
 - Iledare, Omowumi Odeniyi. "Profitability in Offshore Petroleum Leases: Empirical Evidence From the US Gulf of Mexico Deepwater Region." SPE Annual Technical Conference and Exhibition (2008). Web. 29 Sept. 2015.
 - Lambert A. Wilmer (1858), The life, travels and adventures of Ferdinand De Soto (The life, travels and adventures of Ferdinand de Soto ed.), Philadelphia: J.T. Lloyd
 - Nomack, Mallory. "Deepwater Gulf of Mexico Oil Reserves and Production." *Deepwater Gulf of Mexico Oil Reserves and Production.* Ed. Cutler J Cleveland. The Encyclopedia of the Earth, 24 Sept. 2010. Web. 14 Oct. 2015.
 - O'Sullivan, David and Unwin, David J. (1966-2010). Geographic Information Analysis 2nd ed. Retrieved December 8, 2013.

Sources

- Tavares, Mario. "Bidding Strategy: Reducing the "Money-Left-on-the-Table" in E&P Licensing Opportunity." *Proceedings of SPE Annual Technical Conference and Exhibition* (2000). Web. 29 Sept. 2015.
- U.S. Bureau of the Census (n.d.) American FactFinder. Retrieved December 7, 2013 from http://factfinder2.census.gov

Thank you