

## Q3: Classroom Program & Educational Partnerships

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Spring 2015 update

## Classroom Program

#### Student work, Sciences

- Basin Studies (LSU; 29 students)
- Conservation Biology (LSU; 7 students)
- Environmental Disruptors of Development (Boston College; 28 students)
- Neurobiology (Marquette University; 60 students)



#### **Basin Studies**

- Twenty-nine students
- Five in mainspace
  - Kutai basin (new article through AFC)
  - Porcupine Seabight (existing article)
  - Maracaibo basin (existing article)
  - Tyrrhenian basin (copied to mainspace)
  - Angola basin (copied to mainspace\*)





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#### Kutai basin

From Wikipedia, the free encyclopedia

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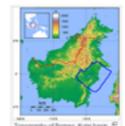
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The Kutal sedimentary basin extends from the central highlands of Borneo, across the eastern coast of the Island and Into the Makassar Strat. With an area of 60,000 km², and depths up to 15 km, the Kutal is the largest and deposet Tertiary age basin in inconcess. <sup>10</sup> Plate tectonic evolution in the Indonesian region of SE Asia has produced a diverse array of basins in the Concess. <sup>10</sup> The Kutal is an extensional basin in a general foreland setting. Its geologic evolution begins in the mid Bocene and Involves phases of extension and rating, thermal sag, and isostatic subsidence. Rapid, high volume, sedimentation related to uplift and inversion began in the Early Miscene. <sup>11</sup> The different stages of Kutal basin evolution can be roughly correlated to regional and local tectonic events. <sup>12</sup> It is also likely that regional climate, namely the onset of the equatorial ever wet monsoon in early Miscene, has affected the geologic evolution of Borneo and the Kutali basin through the present day. <sup>10</sup> Spain fill is ongoing in the lower Kutal basin, as the modern Mahakam River delta progrades east across the continental shelf of Borneo.



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#### Plate tectonic setting [odf source | odf]

The Cencosic plate tectonics of the indonesian region have generated a complex assemblage of micro-continental blocks and marginal ocean basins surrounded by extensional margins, subduction zones and major transcurrent faults. <sup>[4]</sup> The island of Borneo and the Kutal basin are located on the Sunda micro-plate, which is bounded to the north and west by the Eurasian plate, to the south by the Indo-Australian plate and to the west by the Philippine and Pacific oceanic plates. In the Cencopic, the Indo-Australian plate has been moving north and subducting under Eurasia. <sup>[2]</sup> The collision of the Indian continent with Eurasia haited subduction and uplitted the Himalayes. In between the continents of India and Australia, the oceanic crust is still subducting under the Sunda plate, forming the Sunda transh and Sunda Arc. Australia and Australian derived micro-plates collided with the Sunda plate and Pacific plate in the Picocene, creating a complex of subduction zones and Island arcs. The Philippine plate has been obliquely subducting the Sunda plate for most of the Cencopic.

The complex interaction of the Sunda. Eurasian, indo-Australian, Philippine and Pacific plates in the Cenozoic has controlled the evolution of approximately 60 Tertiary sedimentary basins in the Indonesian region. Many of these basins, including the Kutai, have formed in a back are extensional setting, driven by passive or active subduction rollback. The mid Microene episode of inversion in the Kutai can be linked to collision of continental fragments from the South Chine See with NW Borneo. The Plocene inversion episode is contemporaneous with the collision of Australia with the Banda arc, with structural connections provided by strike-slip fault systems. Through Sulainesis [7]

Tectonic plates boundaries fetaled en



#### Geology of Borneo [edt source] edt]

The basement rock of Borneo is a complex mosaic of geologic terrains, commonly interpreted as the product of primarily Mesopoic accretion of micro-continental fragments, island are material, oceanic crustal material and marginal basin fill onto the Paleopoic core of the Schwaner Mountains in the southwest of the Island [11] The Schwaner Mountain area consists of early-mid Cretaceous grantic batholiths intruded into Situania to Permia age metamorphic units. [11] NWI of the Schwaner Mountains is a small area of older continental basement consisting of Permo-Triassic grantie and metamorphic rocks. SE of the Schwaner Mountains, volcanic Island arc and ophistic rocks emplaced in the late Cretaceous comprise the Meratus Mountains. The basement terrain of eastern and northern Borneo is interpreted to be Cretaceous subduction melange, mostly covered by terdary sediment. [11] The basement of Western Borneo is an accreted melange of upper cretaceous to Paleocene age that formed the central Kalimantan Ranges as the result of SW directed subduction beneath the continental core of Someo. [18]

The Cencosic evolution of Borneo is predominantly controlled by active regional and local tectorics and climate. In the Paleocene, Borneo was a promontory of SE Asia, partially separated by oceanic crust of the proto-South China Sea. I<sup>13</sup> There is geologic evidence that suggests Borneo has rotated counter clock wise about 45° from its orentation at the end of the Oligocene while remaining to straddle the equator. This would indicate most of the Paleogene sediment in North Borneo was sourced from indochina. I<sup>13</sup> In the falld Ecoene formation of the Celebra Sea and Makassar Stratt rifted the eastern margin of Borneo while subduction of oceanic crust occurred on the western margin, producing deep basins on both sides. In the late Oligocene to Early Miscene, the central mountain ranges of Borneo began to rise. I<sup>13</sup> The equatorial perhumid climate provided intense chemical weathering and erosion of the newly uplifted rock and filled the marginal basins of Borneo with sediment. Neogene sediments are up to 9 km thick in sections of some basins. If Reconstruction of the sediment volume indicates that at least 6 km of crust was removed from the interior of Borneo in the Neogene. I<sup>13</sup> A period of punctuated compressional events beginning in the mid Miscene affected the continued evolution of these basins, deforming and inverting them. Igneous activity continued throughout the Cencosic but was particularly more active in the northern region of Borneo in the Neogene.

#### Basin margins [edtsource|edt]

The Kutal basin traverses the eastern slope of the Island of Borneo down from the central highlands, across the modern coastline to the basin floor of the Makassas Stratis. It is bound to the North by the Mangkallhat High and the Central Kalimantan Ranges, to the south by the Patemoster Platform, Adaing fault zone and the Schwaner and Meratus mountains. The Muller mountains form the western basin margin. In its present configuration, the basin can be divided into two parts. The western, or upper Kutal which has been inverted 1500-300' above sea level, and the eastern, or lower Kutal which is still receiving sediment.





Map of Borneo and surrounding

#### Basin formation and evolution [odt source | odt]

Basin formation was initiated in the middle Eccene as extension related to the opening of the Makassar straits and Celebes Sea rifled the crust of Eastern Borneo. This rifling created a broad system of half grathers that reverse polarity along NNE-550V and N-S trending normal faults. Thermal subsidence in the late Eccene and early Oligocene induced minor reactivation along the existing faults. During the late Oligocene there was a brief renewal of extension and rifling along the northern margin of the basin, while the other basin superinced uplist. The inversion of the basin began in the Late Oligocene. Tectonic uplift of Borneo in the earliest Miccene inverted the Upper Kutal basin above sea level. Inversion continued in a punctuated fashion through the Miccene and Processes. A compressional regime is implied for the later inversion events with stresses transmitted from regional plate collisions. If The high angle normal faults were reactivated as thrust faults, inverting the half-grathers. The locus of inversion shifted east with each event.

Basin fill [edt source] edt]

Sedimentation in the Kutal basin has been relatively constant throughout the Tertiary. Syn-rift deposition in the Ecoene was focused in small, local depocenters within individual half-grabbens. If Lithology of the initial grabben fill is highly variable due to the wide zone of rifting, and ranges from fully terrestrial in the western basin, to fully marine in the eastern basin. A tipolar initial grabben fill in the Kutal basin is composed of coarse and poorly sorted besement derived material. Syn-rift sedimentation following the initial grabben fill in variable across the basin, but several distinct facies tracts have been identified. Non marine, deflair, shallow marine, deep marine and carbonate platform syn-rift deposits are found in the basin. If

Sag phase deposition begins in the upper Societe to Oligocene. This more regional depocentar developed in response to marine inundation. The eastern basin, already influenced by marine conditions quickly transitioned to a deep marine depositional environment, while the vestern basin transitioned more storely. A thick marine shalle was deposited across much of the basin, while carbonate sedimentation continued on isolated high areas and basin margins. The sag phase marine shalle has been observed to be directly upon becomen, and is a regional "liareless" over the syn-rift throughs. The large carbonates developed along the basin margins as the result of shallowing marine environments in the early phases of the Lafe Oligocene fectionic uplift event and a marine regression. The factoric uplift of central Borneo continued into the lower Miscorne, the westernmost portion of the Kuta Basin was invented above see level, forming the Lagoer Kutai Basin, was invented above see level, forming the Lagoer Kutai Basin, was invented above see level, forming the Lagoer Kutai Basin.

There was a significant change in the character of sedimentation in the Kutal Basin in the Early Mocene. Large amounts of clastic sediment derived from the rising central mountains, and the non-inverted Pateogene poured into the tower Kutal Basin. The prote-Mahastam river began to progrede east-word. Subsequent tectoric invention events in the middle Mocene and Piccene continued to whit the detail depocenter of the Mahastam river east-word into the Mahastam from the Mahastam

#### Structure [editours | edit

The most prominent geologic structure in the Kutal Basin is the Samarinda anticinorium—Atahakam foliobeit, a series of NNE-SSW trending folios and faults in Nitocene detaid strate that persist the modern coast line. \*\*The signity foliosis, asymmetric, and thrust fault bound articines range from 2-5 km inde and 20-50 km long and separated by fored, open synclines. \*\*Conshors, the articine creats are commonly enoded and breached, and the amount of ension and structural complexity increase toward the west. A detached told bet in the westernmost region of the articinorium transitions to thrust cored tolds in the certnal region and simple symmetricisymmetric structures in the easternmost offshore region. The tectoric origin of the fold bet has been attributed to a number of geodynamic processes. \*\*Gone explanation for the detachment tolding is directly related to basement invention along the rift stage norms faults, producing folding above a detachment surface in an underlying over-pressured shale. \*\*M Another is the invention of deta top grabben systems. These syndepositional faults form in conjunction with detas toe thrust faults due to differential acideding. When contraction occurs while deta progradation is active, ne-activation along these faults produces detached, uplified articines\*\*



DEM of the Kular Basin, East. Kalmantan, Indonesia, Made using Contilandors



#### Tertiary igneous activity [est source | edt]

Three suites of intrusive and volcanic rocks are found in the Kutal Basin, and have been used to constrain the Tertiary stratigraphy. The false Nysan volcanics, dated to 48-50 Ma may be related to the extensional factorics that initiated basin formation. In some locations, the Nysan volcanics and equivalents are at the base of the Tertiary sedimentary succession, while at other locations bedded fulfs, aggiomerates and revorked pyroclastics are part of the late Econer succession. If The Sintang intrusive suite are maffix to feliciand have a fine crystalline nature which indicates high level emplacement. K-Ar dates of 41-8 Ma have been obtained from rocks assigned to the Sintang suite. Volcanics interpreted to be the sub-senial products of the Sintang intrusion are found to be intertected with Late Oligocene to middle Miscorne sediments, suggesting that volcanism occurred before and after the early miscorne inversion event. If The Maturing suite are mid to high-is calculation besafts and andestes with K-Ar ages between 2.4-1.7 Ma. They form high level intrusions and level flows.



Defa showing thrust faulting, folding of Miscene strata, and the incision of the Mahakam River into the fold belt

#### References [outsours [out]

- \*\*\*\*\*\* Cake, IR, Moss, S.J., Craig, J. (1 February 1990) "Structural controls on the evolution of the Kutai Basin, East Kalmanten". Journal of Assen Earth Sciences 17 (1), 137–156. doi:10.1016/SGFQ-164-064000006.1-pt.
- 2 \*\*\*\* C\*Dally, M.C., Cooper, M.A., Wilson, I., Smith, D.G., Plooper, B.G.D. (February 1991) "Canopoic plate fectionics and basin evolution". Falume and Pietroleum Geology # 2-20.
- \*\*\*FEFF\*Hat, R, Nichols, G, 2002, Cancook sedimentation and tectories in Someo climatic influences on originess, in Jones, S.J., Frostok, L, eds. "Sediment flue to basins. Causes, controls and consequences". Geological Society. London. Special Publication no. 1911
  5—22.
- 4 \*\*\*\* Clay, Ken, Dooley, Tim, Ferguson, Angus, Poblet, Josep (June 2000) "Tectoric evolution of the Sanga Sanga block, Mahakam delta, Kalmantan, Indonesia". AAPG duletin \$4 at 1915 (AAPG duletin
- 5. \*\*\* Hamilton, Warren (1979). Tectorics of the Indonesian Region of United States Geologic Survey Professional Paper 1976.
- \*\*\* F \* F \* F \* Substitute (1) \* Substitute
- 8. \* Salyana, H.S. Nagroto, D., Surantako, I. (1 February 1999). "Tectoric Controls on the hydrocarbon habitath of the Banto, Kute, and Tanakan basins, Eastern Kalmantan, Indonesia: major desimilantes in adjoining basins". Journal of Asian Earth Sciences 17 (1) 99–522, doi:10.1016/S0743-95479830059-2.dl
- "Chambers, J.L.C., Carlor, I., Cloke, I.R., Craig, J.: Moss, S.J. Pallerson, D.W.; 2004, Thin-skinned and thick-okinned invention-related thrusting-A structural model for the Kuta Basin, Kalimantan, Indonesia. in McClay, K.R., ed. "Thrust factorics and hydrocarbon systems". AAPO Bilmor 82: 618-654.

Categories: Indonesia | Geography of Indonesia | Borneo | Geologic formations of Asia

### **Conservation Biology**

- Seven students
- Species articles
  - Procambarus natchitochae (new)
  - Multicoloured tanager (expansion, stub)
  - Callinectes sapidus (expansion, non-stub)



## **Environmental Disruptors of Development**

- Twenty-eight students in class
- Solid contributions, range of articles
  - Problems with User:Smokefoot
    - See also Mass Spectrometry



### Neurobiology

- Sixty student editors
  - Working with groups
- Sandbox edits
  - Review requested before posting to mainspace
  - TurnItIn report run before submission





#### Humanities courses

- Social Work Practice with Community and Social Systems (Rice University)
- History of Western Canada (Trent University)
- Art Since 1945 (University of Pittsburgh)
- Theater History from 1642 (CUNY Brooklyn)



#### Humanities articles

- Sophie Treadwell, expanded by Jessiechapman
- Sentimental comedy, expanded by Gilliark
- Marriage 'à la façon
   du pays', expanded by
   Qwertyus



### Ramping up as we speak

- London Paris (CUNY Graduate Center)
- Freshmen Reading and Composition (Diablo Valley College)
- Human Rights of Indigenous Peoples (Vanderbilt University)



### Classroom Program Update



### Spring 2015 Class Goals

	Goals
Returning instructors	60
NWSA	15
ASA	15
LSU	10
Organic growth	20
Float / misc	10
TOTAL	130



## Spring 2015 Numbers

	Goals	Current	
Returning instructors	60	52	
NWSA	15	5	
ASA	15	3	
LSU	10	6	
Organic growth	20	32	
Float / misc	10		
TOTAL	130	98	



## Spring 2015 Numbers

	Goals	Current	
Returning instructors	60	52	(8)
NWSA	15	5	(10)
ASA	15	3	(12)
LSU	10	6	(4)
Organic growth	20	32	12
Float / misc	10		N/A
TOTAL	130	98	(-32)



#### **Potential Classes**

- 5 classes pending support, engaged in active communication
- 3 classes pending support, instructor unresponsive
- 19 instructors interested (outreach)



#### **Enrolled Students: 1635**

• 53% through training (vs. 28% in 12/2014)



## Classroom Program: Other News & Activities

- Building relationship with WikiProject Med
- Engaging in community discussions concerning communication with instructors, templates, course pages, and other topics
- Communication with outreach leads
- Outreach via an edit-a-thon, Wikipedia Day
- Integrating translation assignments into support offerings
- Developing processes for tracking class metrics
- Renovating Trophy Case (in progress)



#### Incidents

- Hyalophagia, et al.
  - Multiple concerns from editors about student work
  - Engaged on editor talk pages and article talk, email with instructor
  - Outcome: Editors ok, instructor may leave
- Neuroscience articles
  - Student discussion on article talk suggested problematic changes, was not clear they were part of a class
  - Engaged on ENB, user talk, and email
  - Outcome: Resolved, productive discussion about talk page disclosure



#### Incidents

#### Chemistry topics

- Uncivil comments from editor towards students concerning their edits and talk page messages
- Engaged on multiple user and article talk pages
- Outcome: Resolved, editor redacted comments

#### Psychology topics and course page

- Some issues with student work lead to confused discussion on yearold active course page of not-yet-supported class
- Worked quickly with professor via phone to set up new page and move discussions. Engaged editors on course and user talk pages
- Outcome: Resolved, currently supported, productive discussions



#### Incidents

#### • Students in unknown classes

- Student writes in sandbox that he will create an article on himself or an imaginary person. Comes to ENB. Resolved. Instructor will be working with us next term.
- Student in edit war at the gold cluster article, leaving messages for editors not to change anything because grades nigh. Comes up at ENB, ANI, and several user talk pages. Resolved. Phone call with instructor, who will work with us next term.
- Issues at imperialism article. Comes up at ENB. Resolved. Connected with instructor who will be in touch next term.
- Multiple issues with edits to MEF International School Istanbul. Engaged on user talk, article talk, and ENB, connect them to education resources in the area. Page had to be protected.
- Many students editing learning styles and learning theory articles. Brought up at ENB. Ongoing. Found professor, but received an out-of-office message. Addressing on article talk.



March 2015 update

## Educational partnerships



## The last 3 months



### Formalizing partnerships

- Academic associations
  - National Women's Studies Association
  - Association for Psychological Science
  - Midwest Political Science Association

- Universities
  - Louisiana State University



## Outreach to potential partners





### Supporting existing partners

- conference exhibits
- workshops and presentations
- articles, website copy, ads, emails
- meetings and maintaining a relationship



## Failures

Or things that are not working out as planned



Why aren't more interested in formally partnering to expand on their campus?

# University partnerships



### Original vision

University centers will support courses with Wikipedia assignments as self-sustaining, relatively autonomous, mini-Classroom Programs.



#### The challenge

Incidents, incidents!

The less hand-holding we do with courses, the more likely they are to have an incident.



### Learning

- faculty want to support instructors and students, but they must be flexible
- faculty are less likely to say "no" or to insist on using our tools and best practices
- faculty cannot keep up with our changes
- they don't have the Wikipedia know-how
- campus growth limitations?



### Moving forward

- formal training/certification
- give more autonomy to these faculty
- narrow focus within universities: libraries



## Open question: do we continue pursuing university partnerships?



Why aren't these producing the kinds of numbers we expected?

# Academic associations



### Original vision

Academic associations will play the recruitment role: they will promote our program and encourage their members to participate. We will see a lot of growth in the discipline and can focus our materials on more specific content gaps.



### The challenge

These aren't growing as fast as we would like.

Partners are enthusiastic and pushing our program to their members, but we didn't see as much of a splash this term as we hoped for.



### Learning

- These partnerships have long-term goals, and we should expect results that take some time.
- Still our best option for targeting content gaps.
- Top-down matters.
- Not ready to give up!



## Other thoughts?