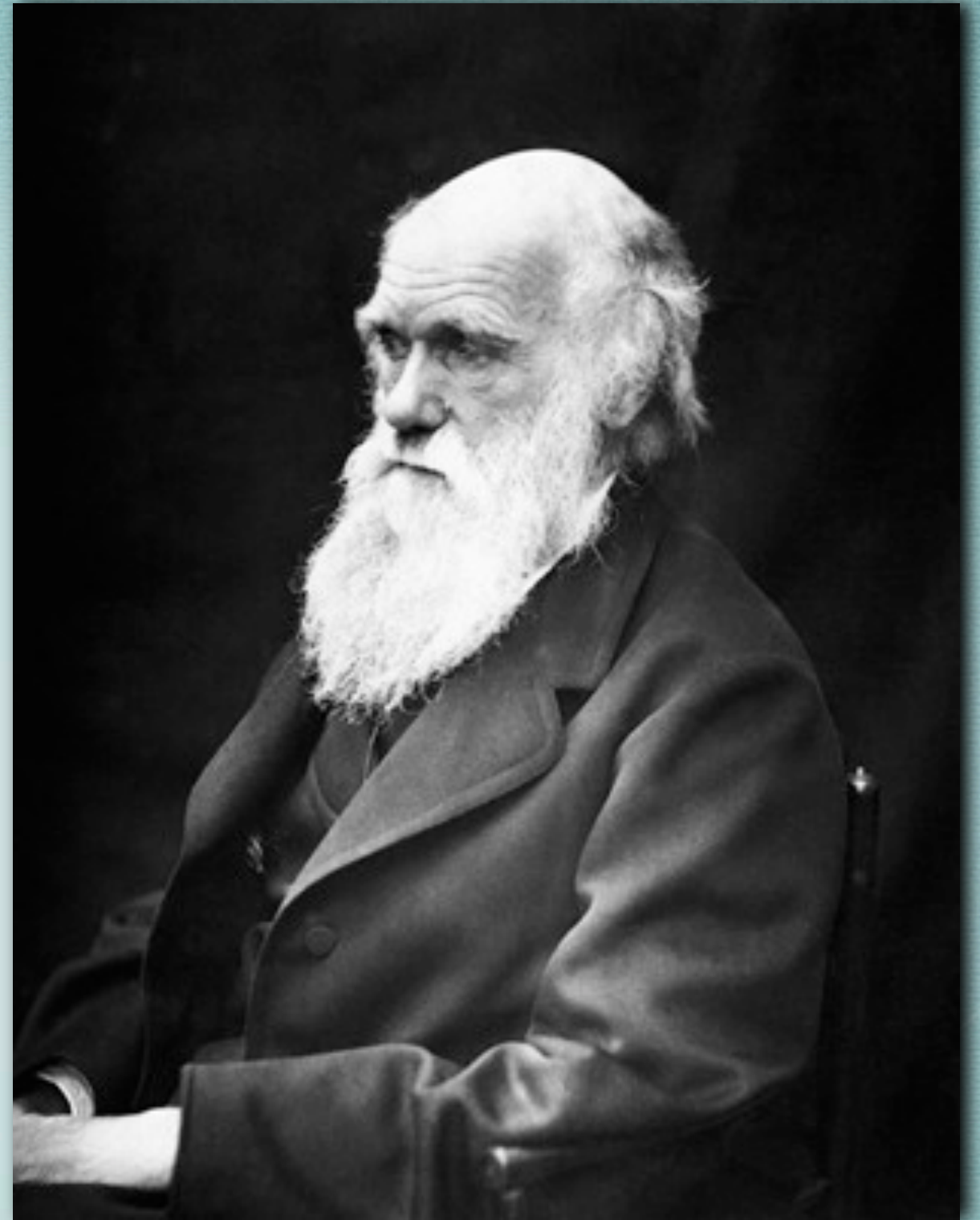
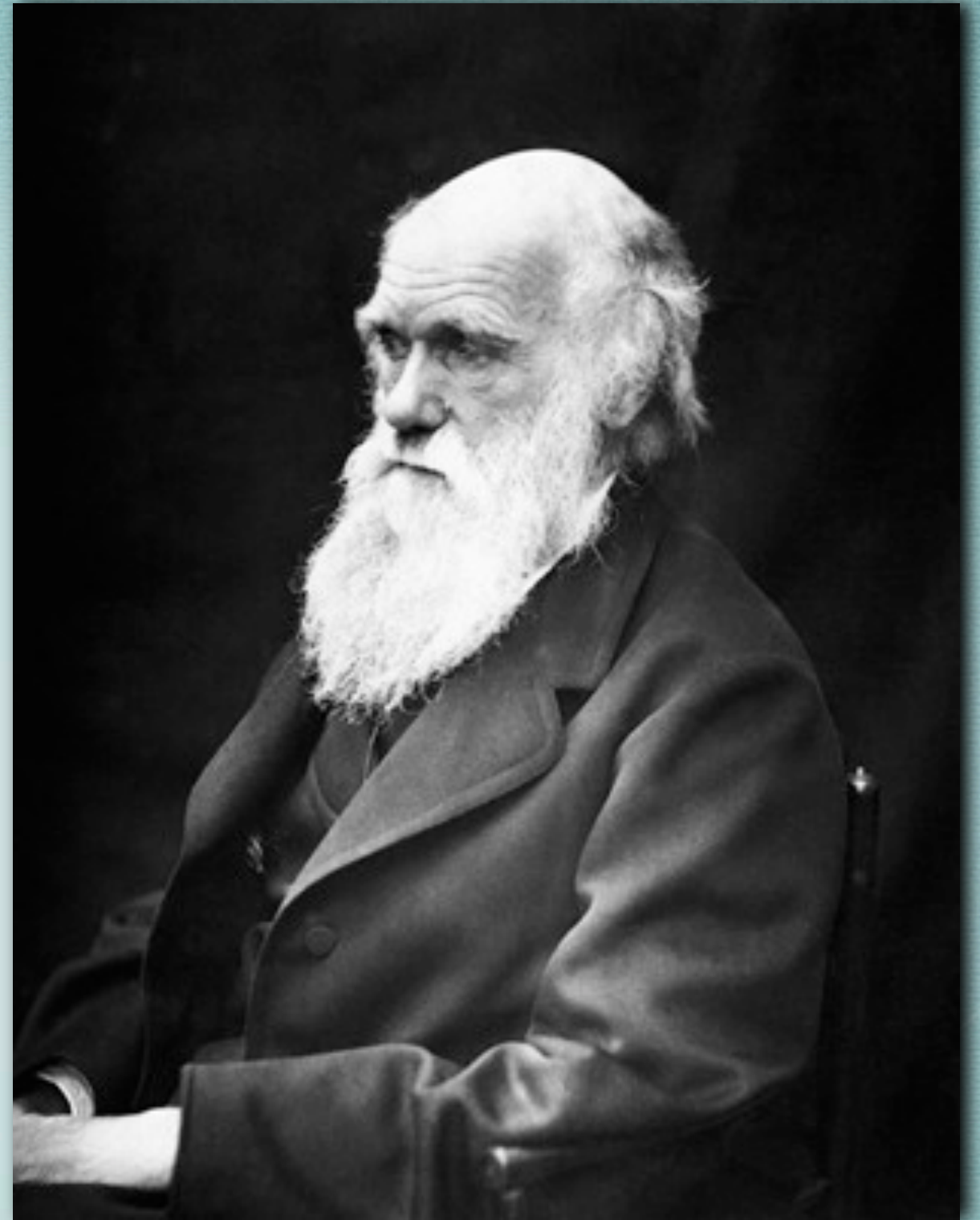




動物性生活百談

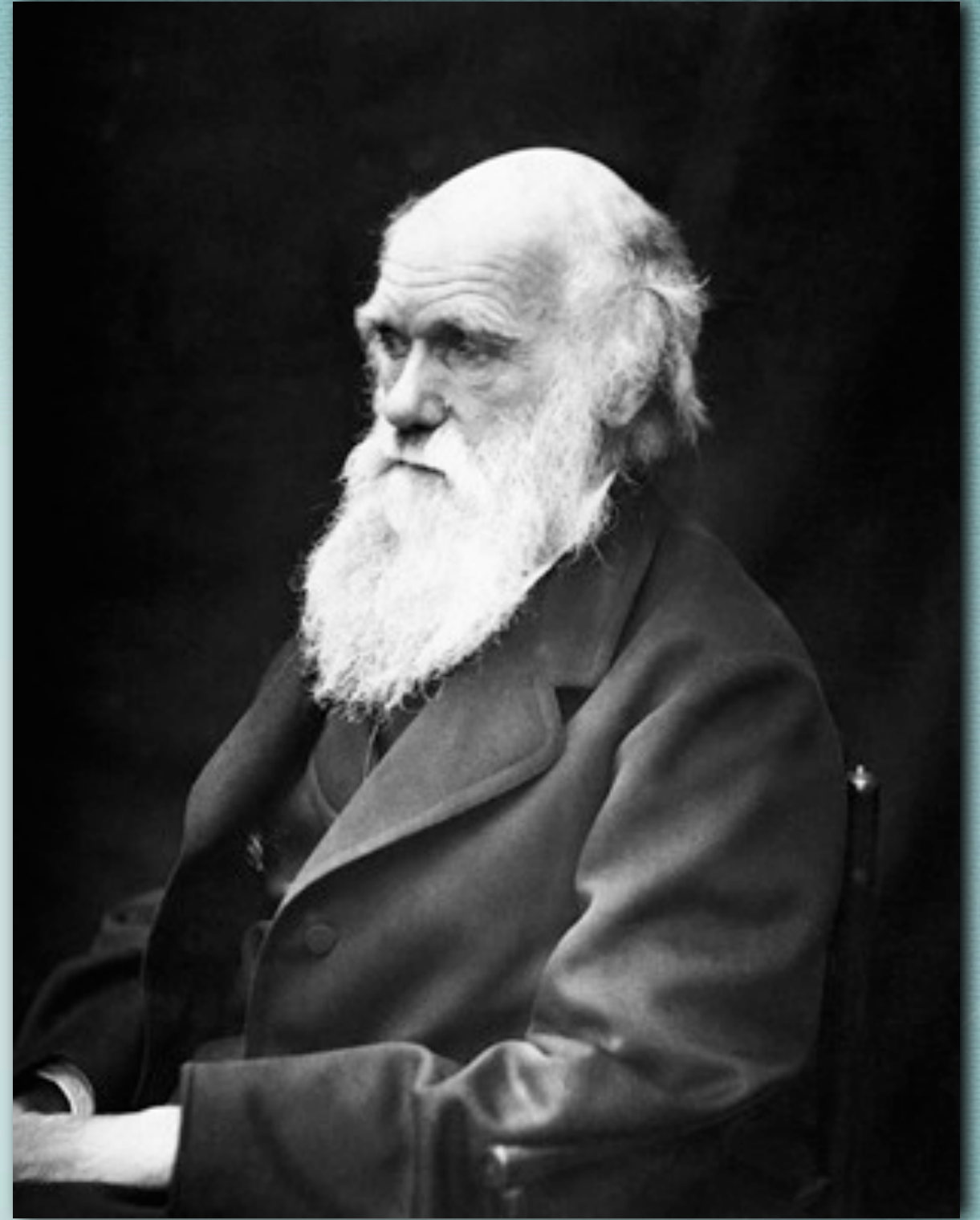


動物性生活百談



動物性生活百談

達爾文兩本著作中所談到的生殖策略

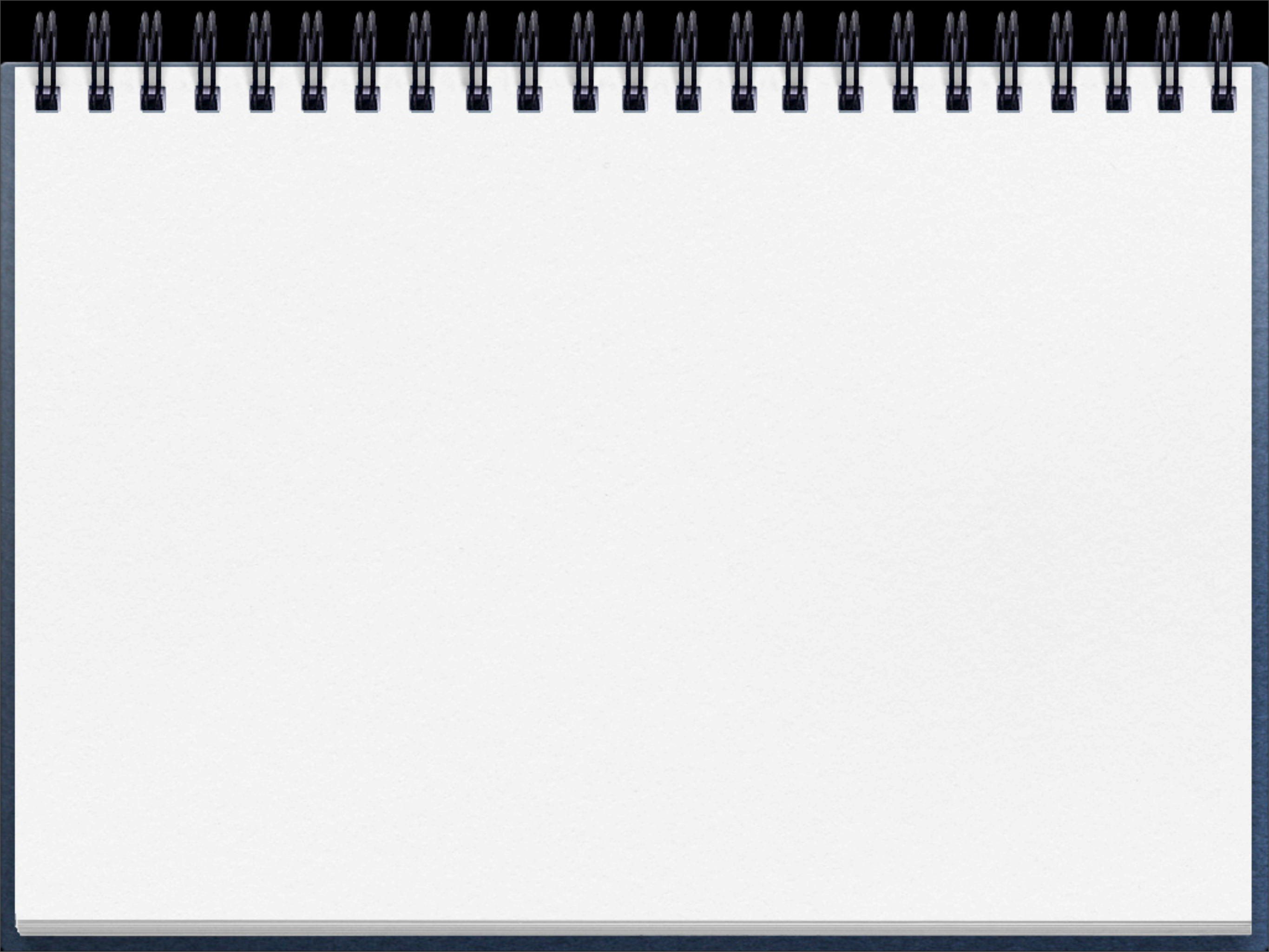


動物性生活百談

達爾文兩本著作中所談到的生殖策略









02.12.1809
04.19.1882



(12.27.1831-
10.2.1836;4.9.5)

02.12.1809
04.19.1882





(12.27.1831-
10.2.1836;4.9.5)

02.12.1809
04.19.1882





(12.27.1831-
10.2.1836;4.9.5)

02.12.1809
04.19.1882

1809



ON
THE ORIGIN OF SPECIES

BY MEANS OF NATURAL SELECTION,

OR THE
PRESERVATION OF FAVOURED RACES IN THE STRUGGLE
FOR LIFE.

By CHARLES DARWIN, M.A.,

FELLOW OF THE ROYAL, GEOLOGICAL, LINNEAN, ETC., SOCIETIES;
AUTHOR OF 'JOURNAL OF RESEARCHES DURING H. M. S. BEAGLE'S VOYAGE
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LONDON:
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1859.

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THE
DESCENT OF MAN,

AND
SELECTION IN RELATION TO SEX.

By CHARLES DARWIN, M.A., F.R.S., &c.

IN TWO VOLUMES.—Vol. I.

WITH ILLUSTRATIONS.

LONDON:
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US\$ 197,000



US\$ 197,000



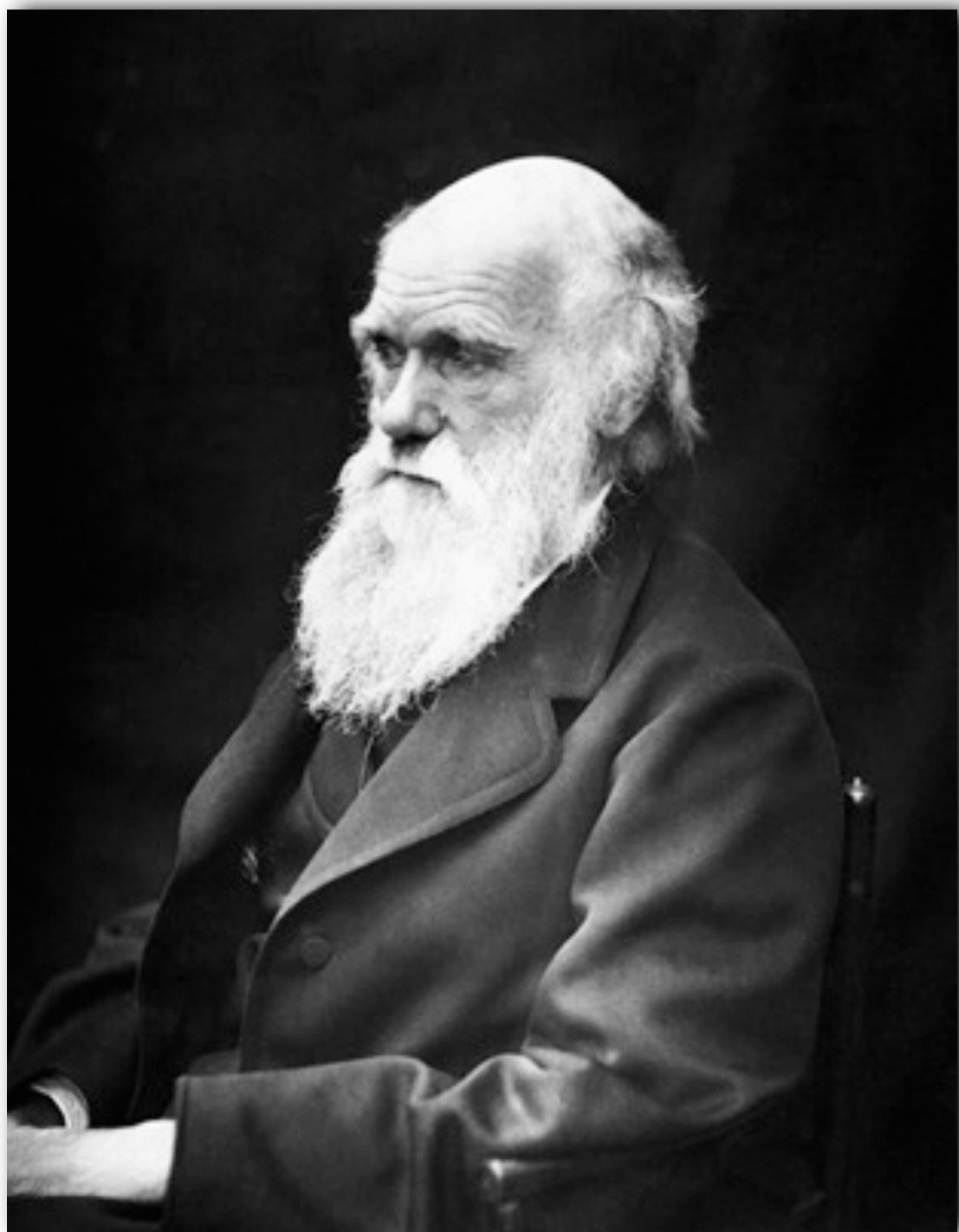


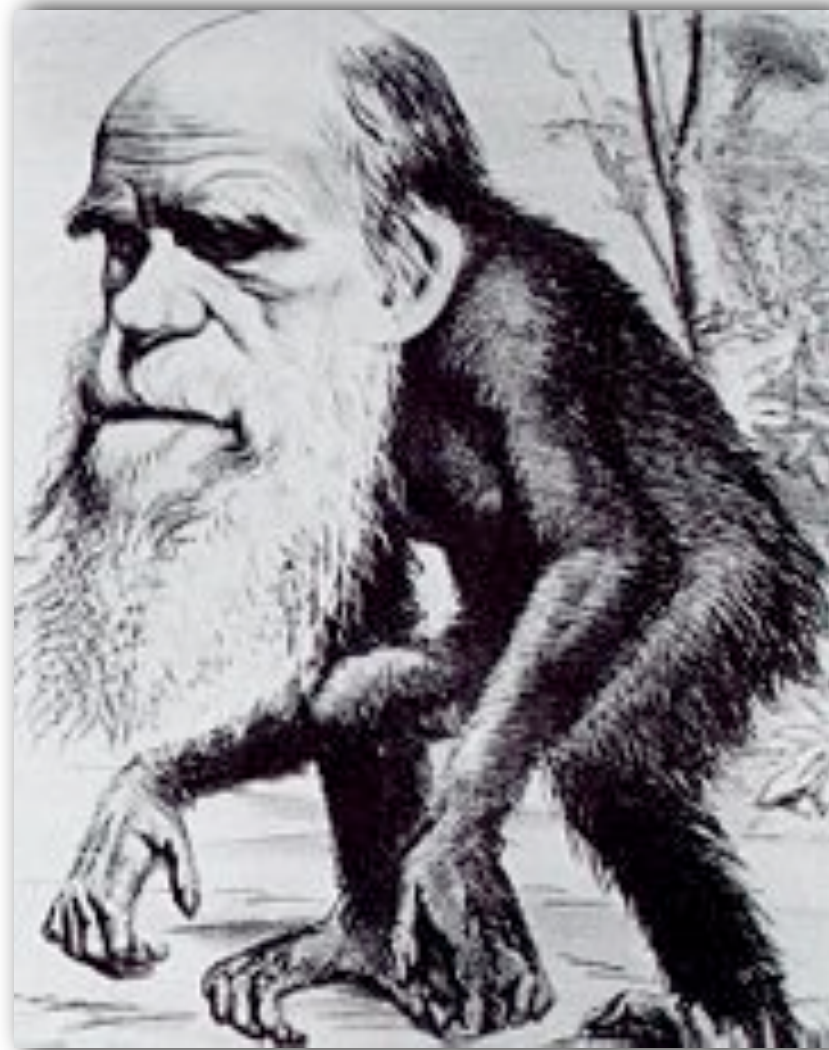
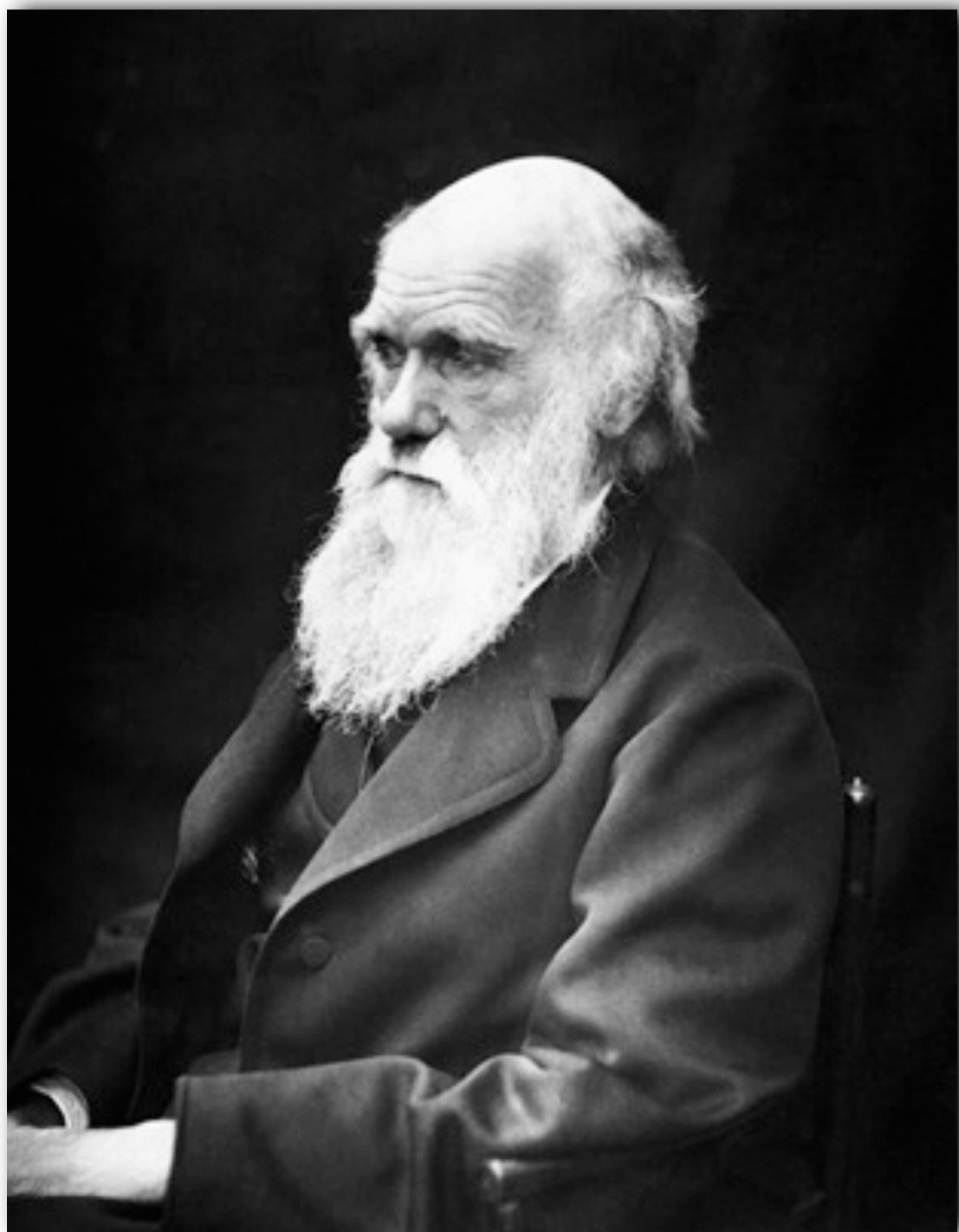
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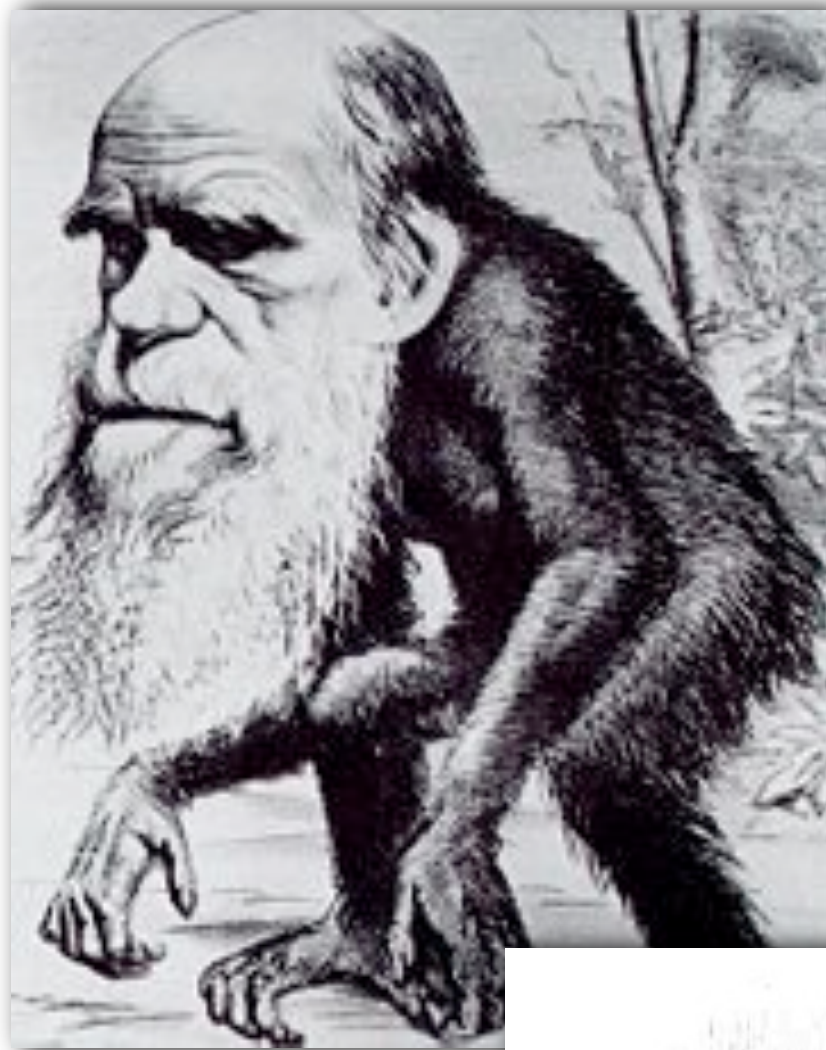
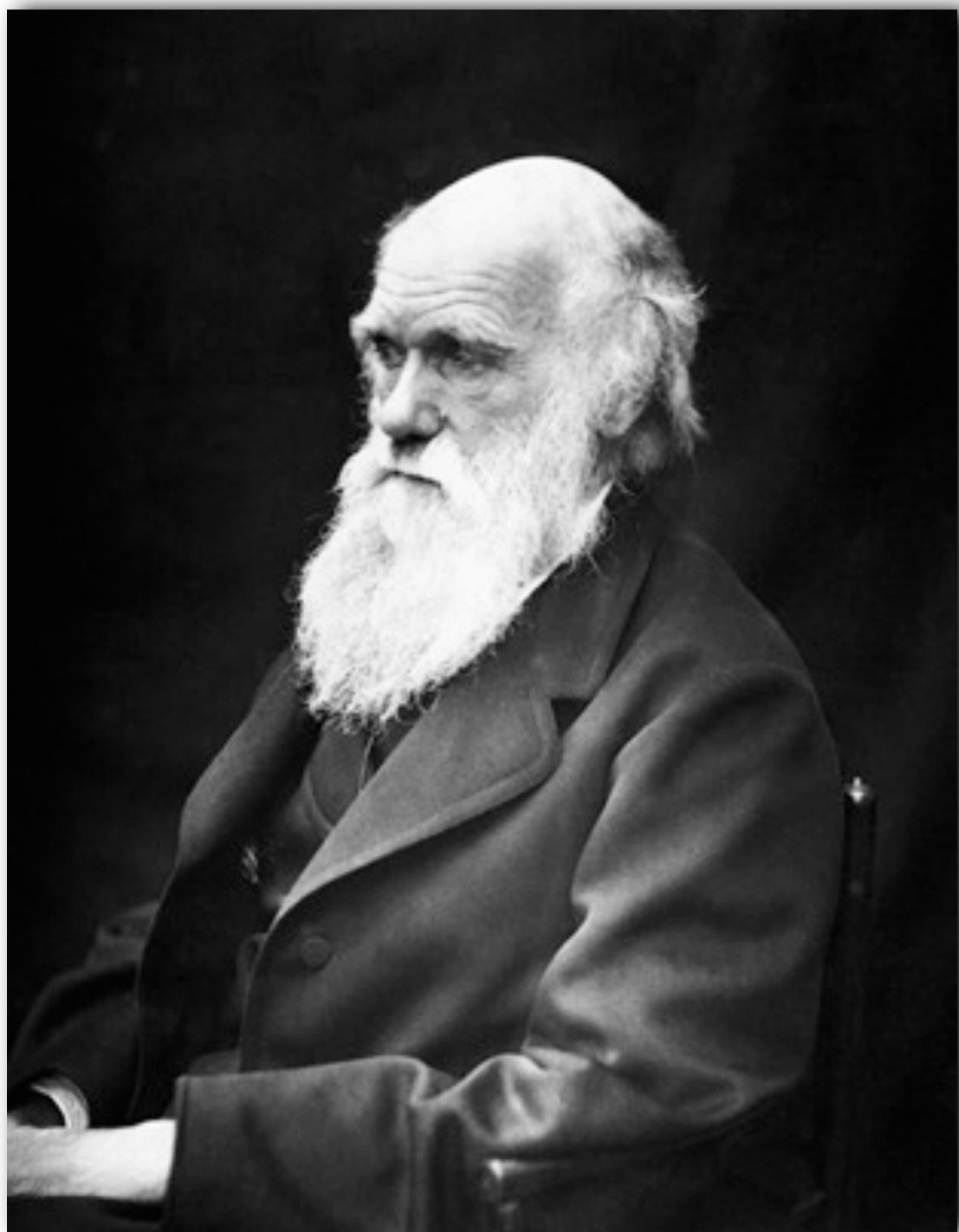
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VOLUME 72, No. 4

THE QUARTERLY REVIEW OF BIOLOGY

DECEMBER 1997



THE POPE'S MESSAGE ON EVOLUTION
AND FOUR COMMENTARIES

MESSAGE TO THE PONTIFICAL ACADEMY OF SCIENCES

JOHN PAUL II



THE POPE'S MESSAGE ON EVOLUTION
AND FOUR COMMENTARIES

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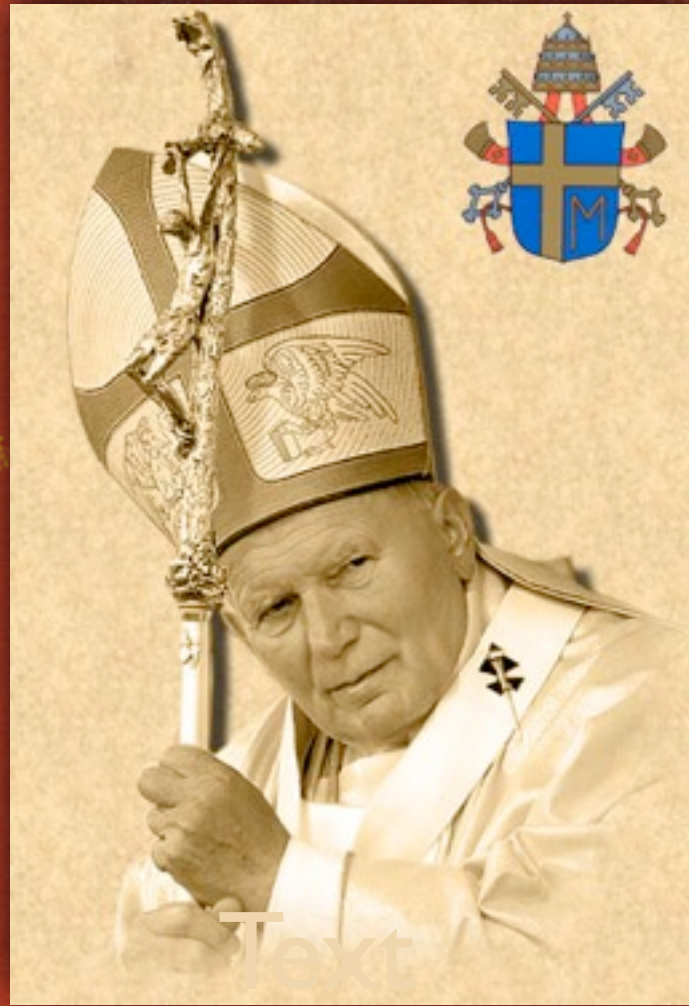
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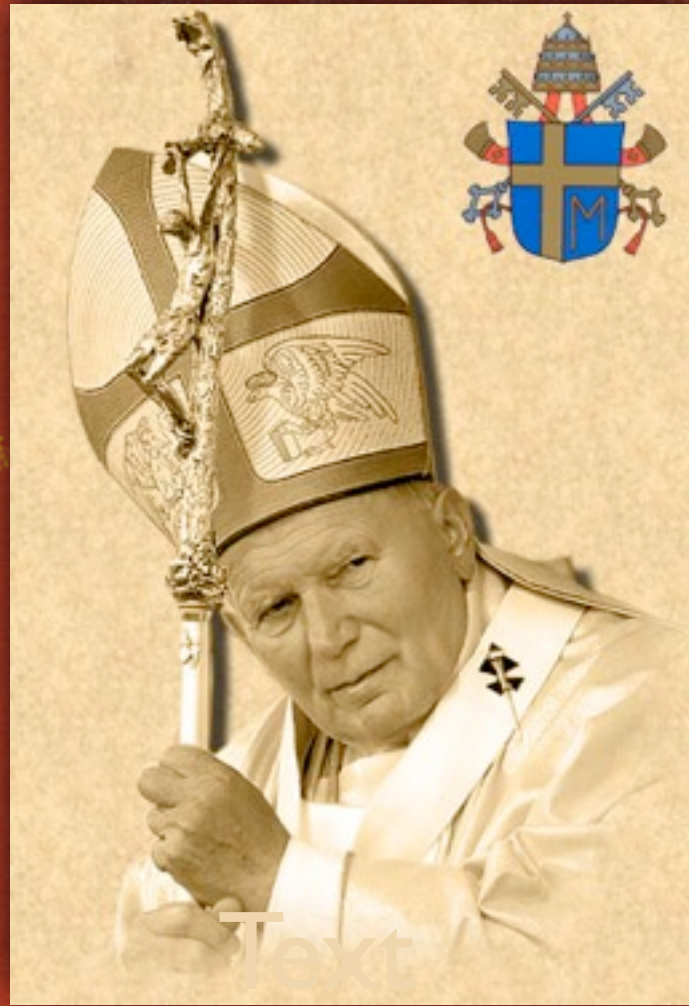
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很令人印象深刻的是：這個理論在經過許多領域內的發現後，已逐漸的被許多研究者接受了。這些經由獨立的研究，而不是偽造的結果的總合，提供了足以贊成此一理論的論證。



And, to tell the truth, rather than *the* theory of evolution, we should speak of *several* theories of evolution. On the one hand, this plural-



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老實說，與其相信這個演化論，我們應該多談談
幾個演化的理論。



EVOLUTION!

Can science conquer Kansas?

UPDATED 21 FEB 2001: Evolution is back in Kansas, where the state board of education reversed a 1999 decision that made teaching evolution by natural selection optional. Charles Darwin may sleep better – or evolve into a frog for all we know – to hear that the board, by a 7-3 vote, essentially required the teaching of evolution, much to the despair of creationists but the delight of scientists. The vote reflected electoral repudiation of board members who opposed teaching of the theory, a bedrock of biology. Two other fundamental scientific theories, cosmology (the origin and fate of the universe), and plate tectonics (the movement of vast chunks of the Earth), were also restored to the classroom.

POSTED 27 SEP 1999 On Aug. 11, the Kansas State Board of Education fired another salvo in the long battle between religion and science by removing evolution from the high school curriculum.

Evolution vs Creationism

History

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Creationism Creeps into U.S. Classrooms

By **Robin Lloyd**, LiveScience Senior Editor
posted: 21 May 2008 ET

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One in eight U.S. high school biology teachers presents creationism or intelligent design in a positive light in the classroom, a new survey shows, despite a federal court's recent ban against it.

And a quarter of the nation's high school [biology teachers](#) say they devoted at least one or two classroom hours to the topics, with about half presenting it favorably and half presenting it as an invalid alternative.

Those results are part of a nationally representative, random sample of 939 teachers who filled out surveys between March 5, 2007, and May 1, 2007 on questions concerning the teaching of evolution. The figures have a 3 percent margin of error.

The research, funded by the National Science Foundation, also revealed that between 12 percent and 16 percent of the nation's biology teachers are creationists, and about one in six of them have a "young Earth" orientation, which means they believe that human beings were created by God in their present form within the past 10,000 years.

Scientists, on the other hand, agree that humans evolved from a common primate ancestor in a process that stretches back tens of millions of years. The theory of evolution on which this is based is one of the most well-supported theories in science.

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Better late than never? Clergyman says church owes Darwin an apology

Jordan Litz

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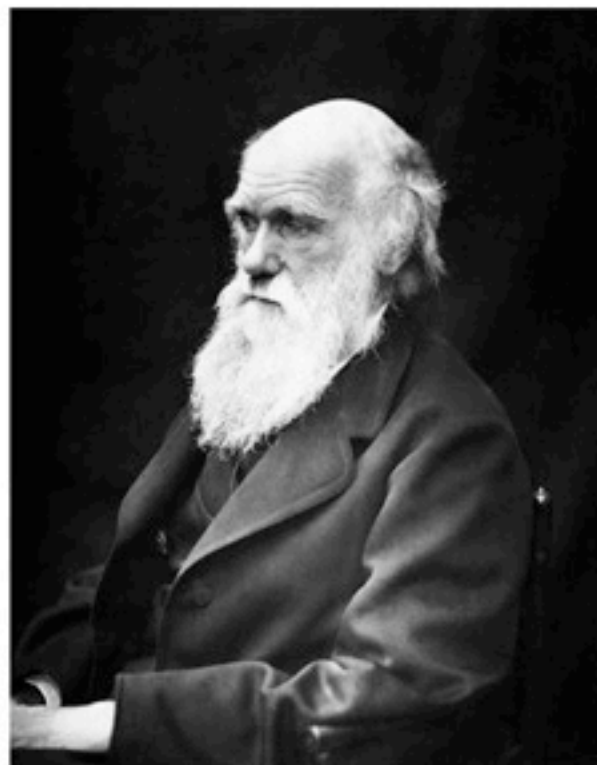


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A spokesman for the Anglican Church says it should admit it wronged Charles Darwin, whose theory of evolution is still considered anti-Christian in some circles, even as it's become a cornerstone of science.

"The Church of England owes you an apology for misunderstanding you and, by getting our first reaction wrong, encouraging others to misunderstand you still," [Rev. Malcolm Brown writes on a church Web site](#) marking next year's 150th anniversary of the publication of Darwin's *On the Origin of Species*.

"There is nothing here that contradicts Christian teaching," he says, adding that the church's "reaction now seems misjudged."

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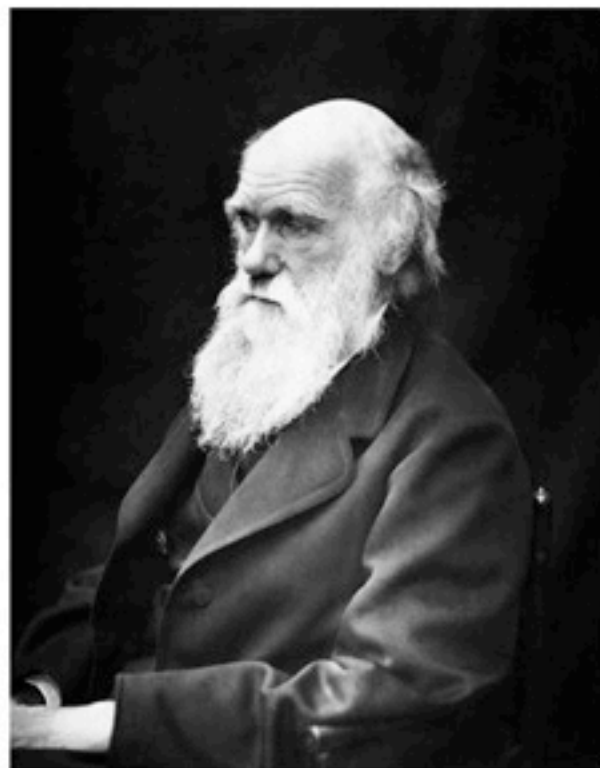


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Better late than never? Clergyman says church owes Darwin an apology

Jordan Lile

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(2008.9.18)

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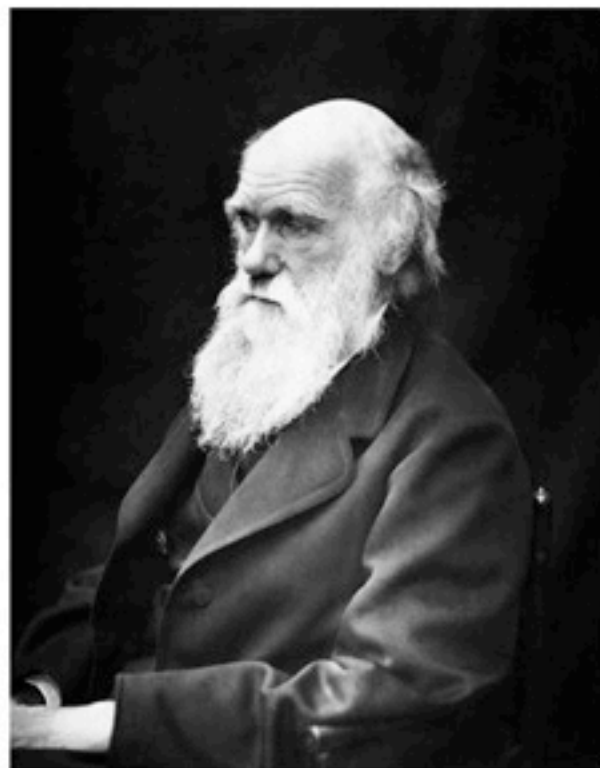


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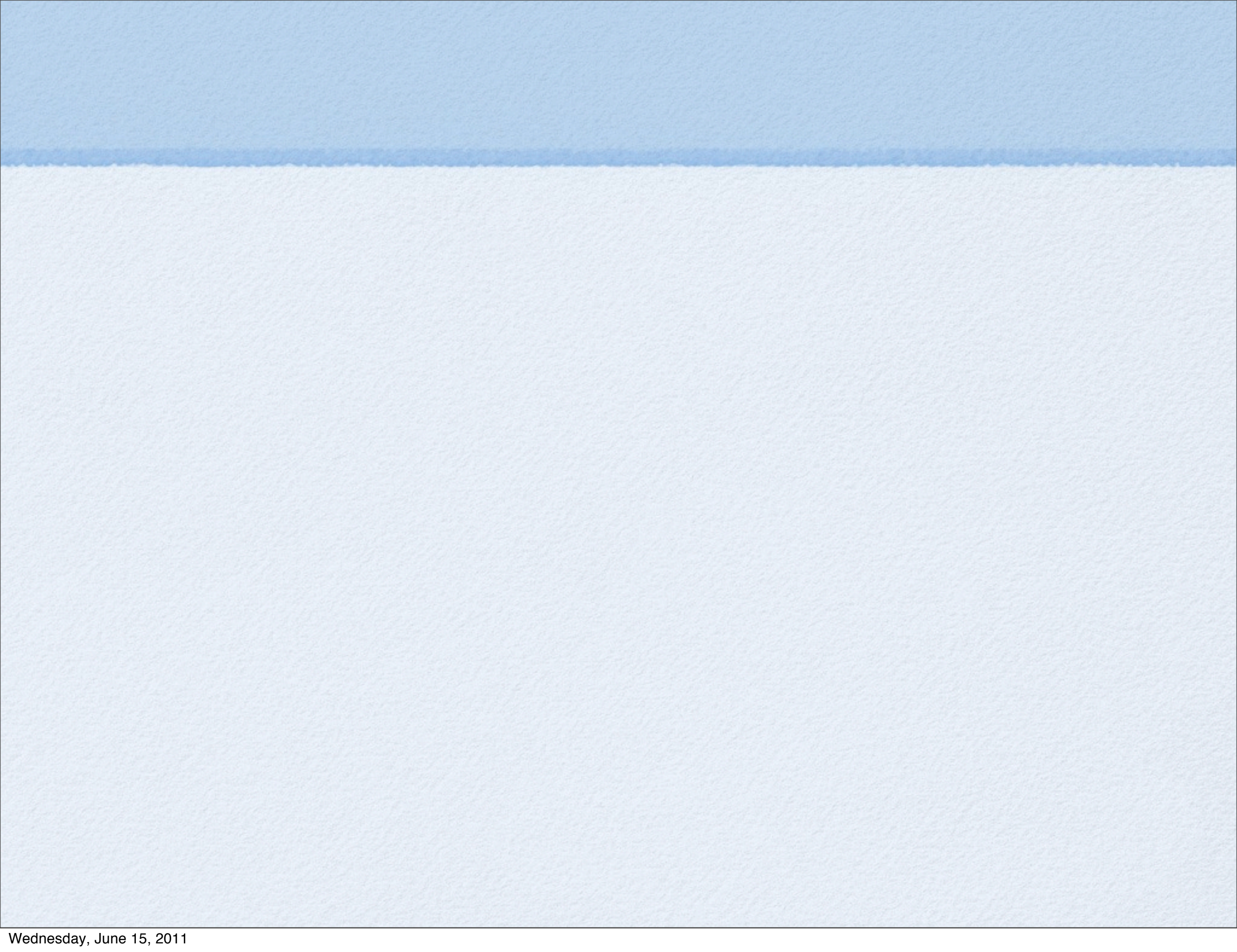
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(2008.9.18)





什麼是演化？

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Biological evolution refers to the cumulative changes that occur in a population over time. These changes are produced at the genetic level as organisms' genes mutate and/or recombine in different ways during reproduction and are passed on to future generations.

生物演化所指的是在族群中，長期所累積的變異。這些變異的產生，是在基因的層次，在**生殖**過程中經由個體基因

生殖四部曲

生殖四部曲

生物為了要將基因傳至下一代所採行的步驟：

生殖四部曲

生物為了要將基因傳至下一代所採行的步驟：

1. 行銷

生殖四部曲

生物為了要將基因傳至下一代所採行的步驟：

1. 行銷
2. 選擇

生殖四部曲

生物為了要將基因傳至下一代所採行的步驟：

1. 行銷
2. 選擇
3. 交配

生殖四部曲

生物為了要將基因傳至下一代所採行的步驟：

1. 行銷
2. 選擇
3. 交配
4. 育幼

I. 行銷篇

I. 行銷篇

Attraction 吸引

I. 行銷篇

Attraction 吸引



I. 行銷篇

Attraction 吸引



I. 行銷篇

Attraction 吸引



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I. 行銷篇

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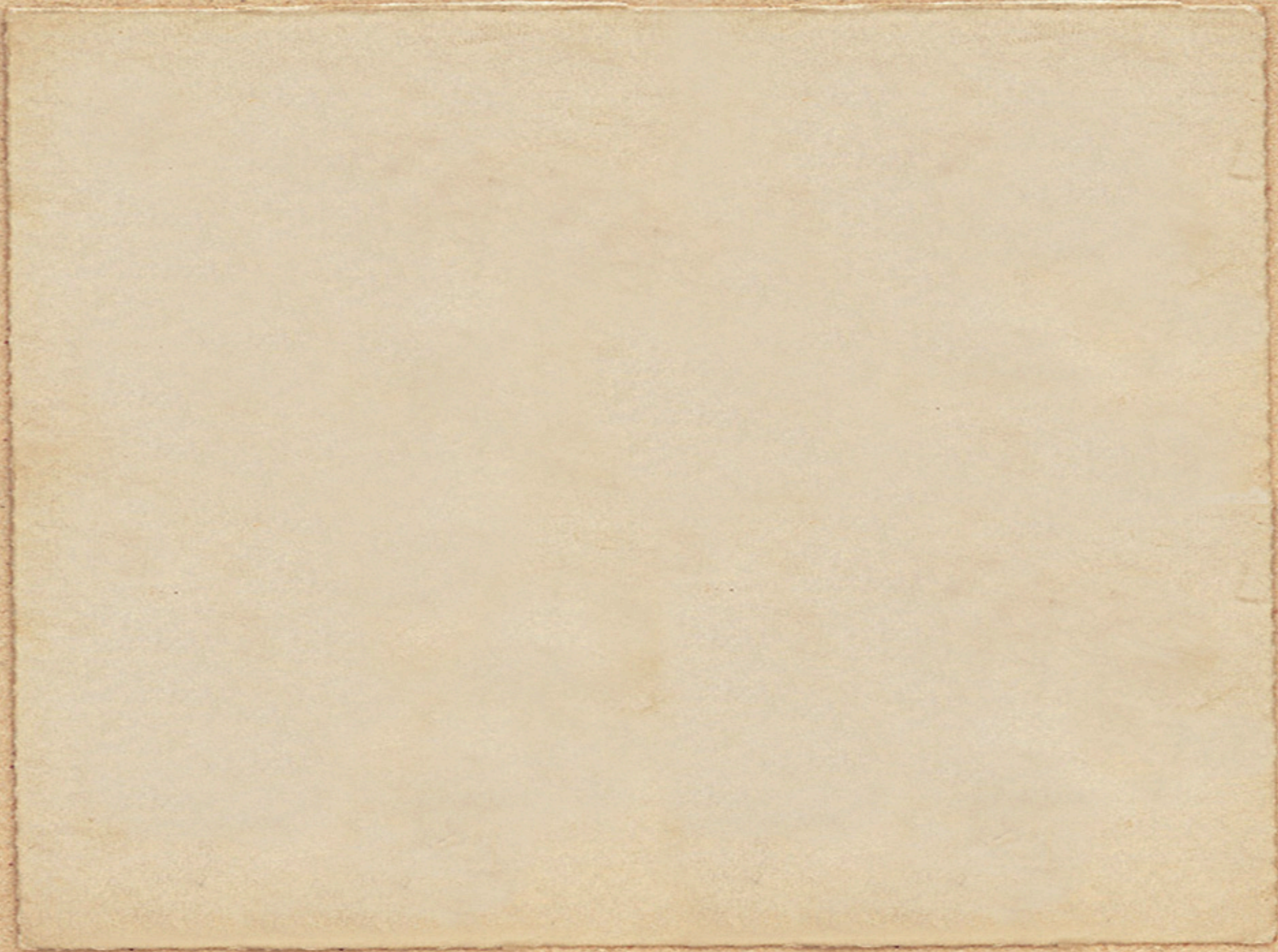
I. 行銷篇

Attraction 吸引



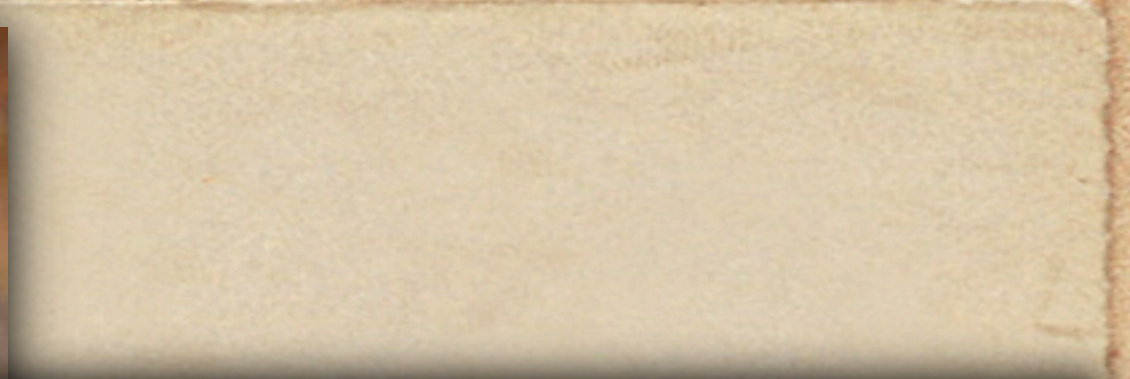
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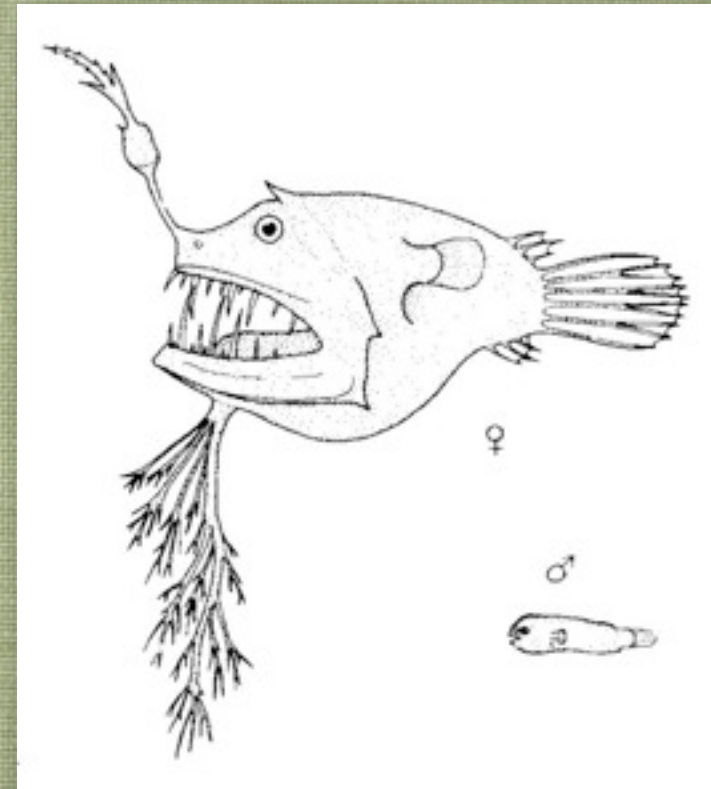
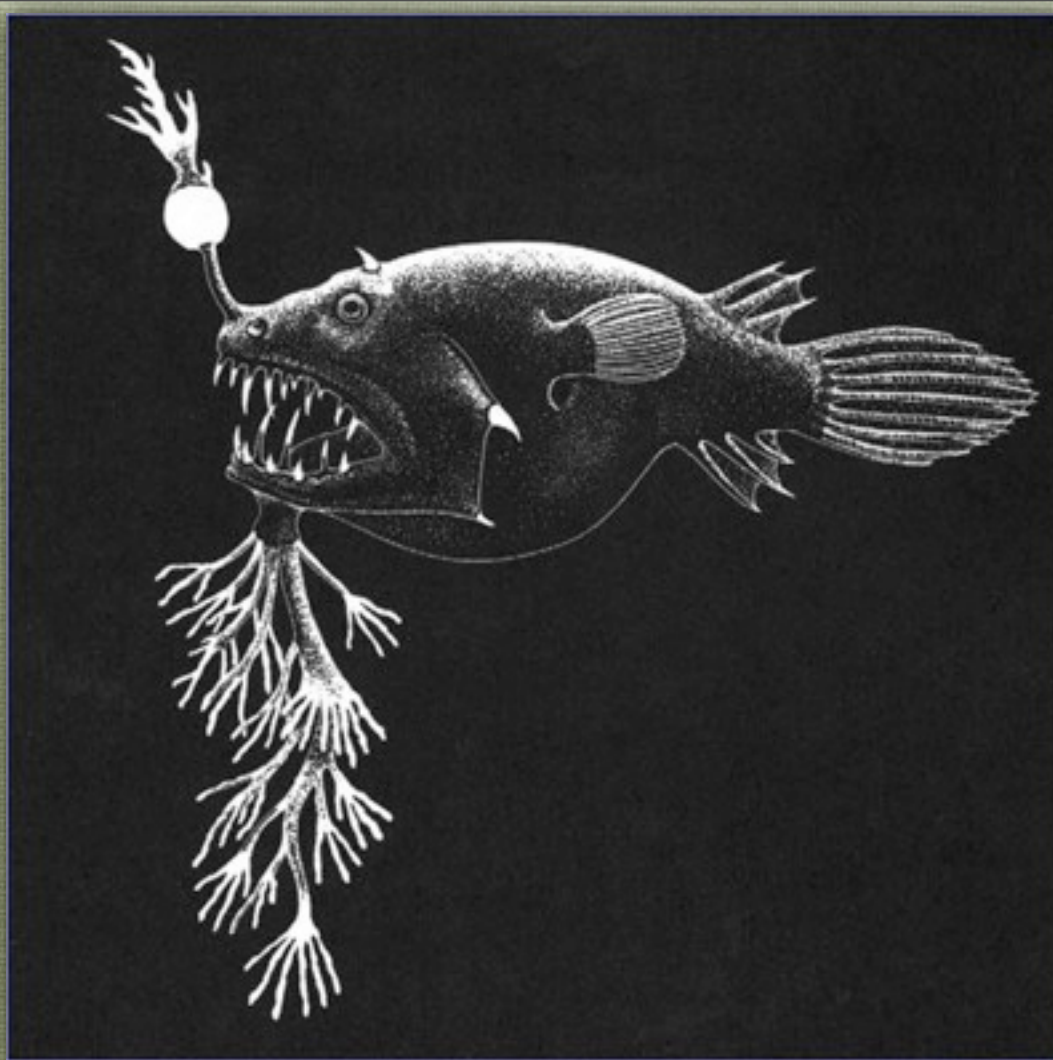






Linophryne arborifera

鬚角鮫鰐



46 mm

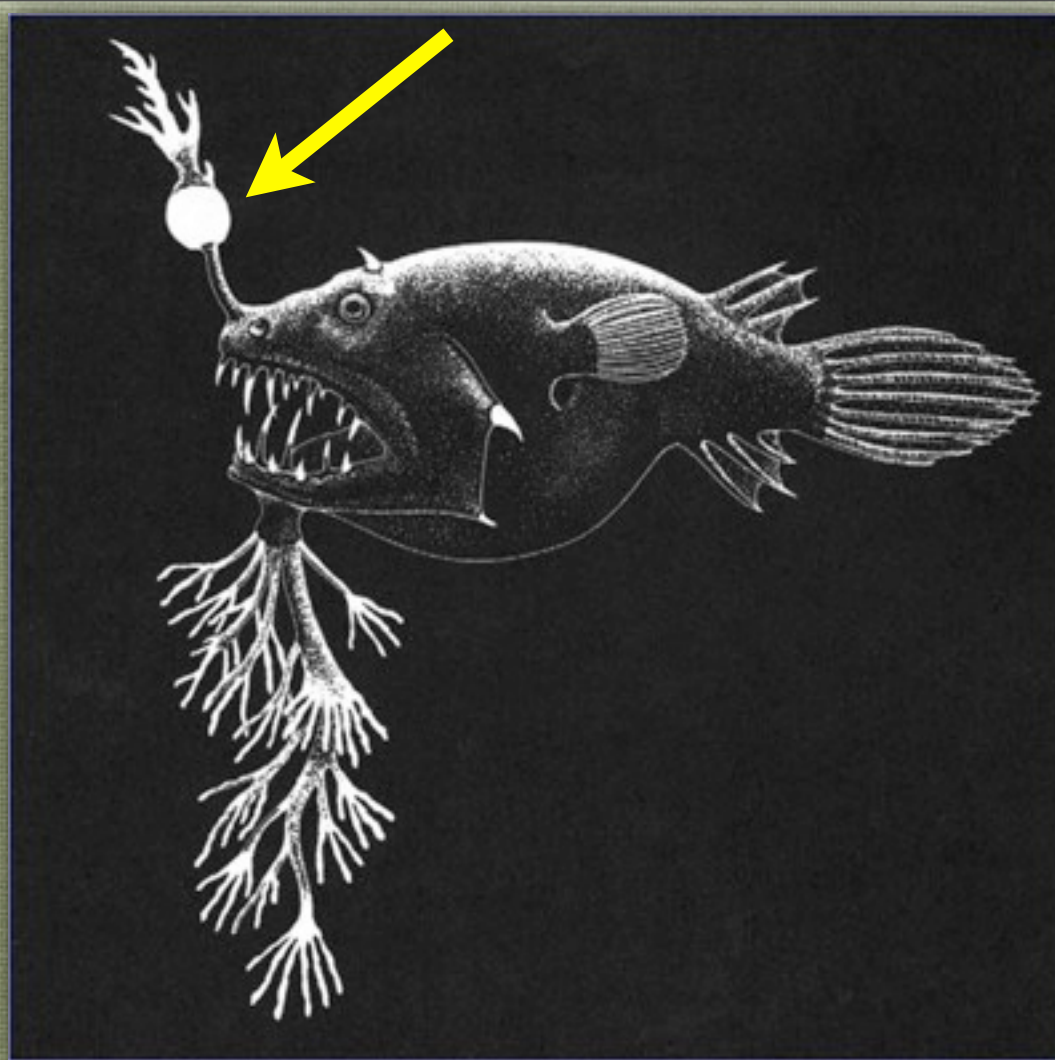


Photocorynus spiniceps

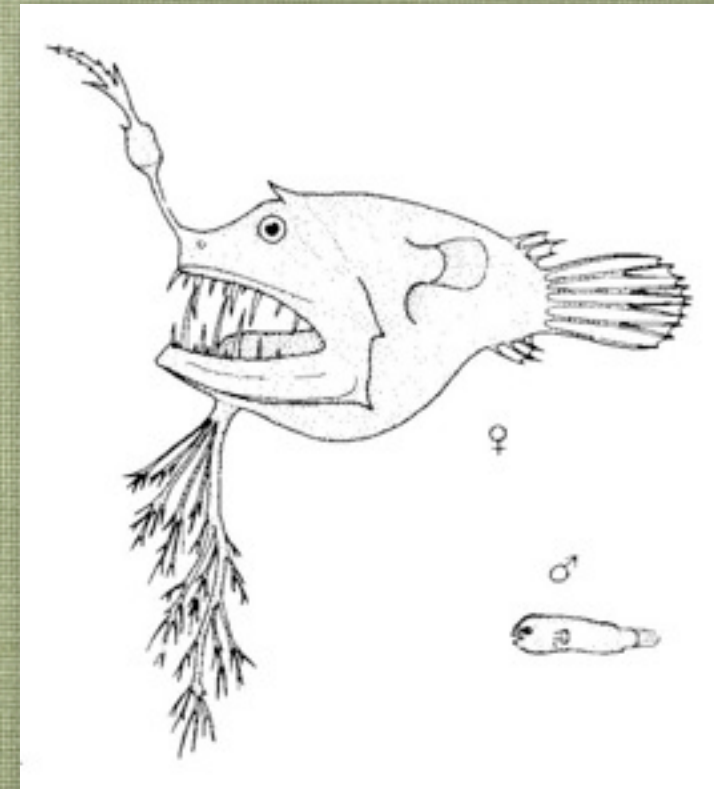
棘頭光棒鮫鰐



6.2 mm



Linophryne arborifera
鬚角鮟鱇



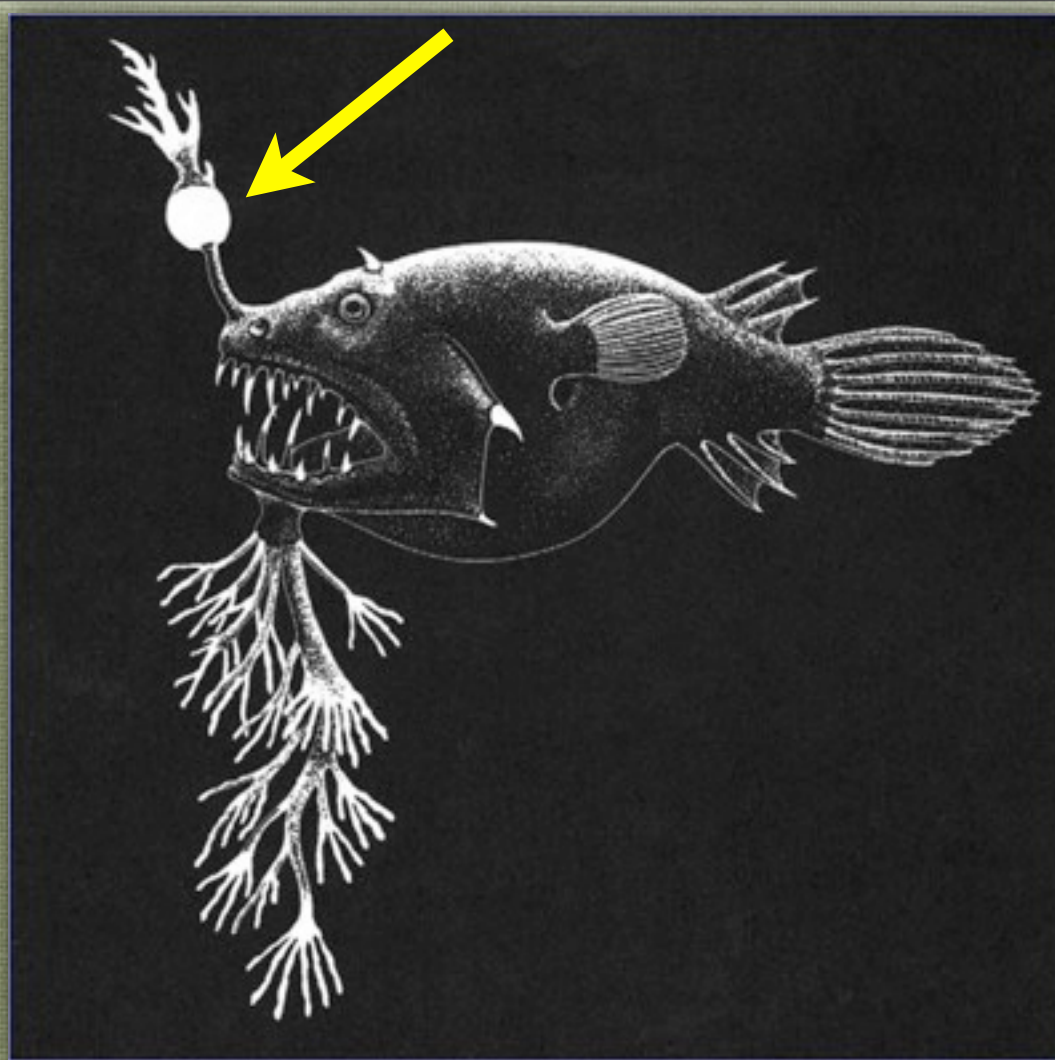
46 mm

Photocorynus spiniceps

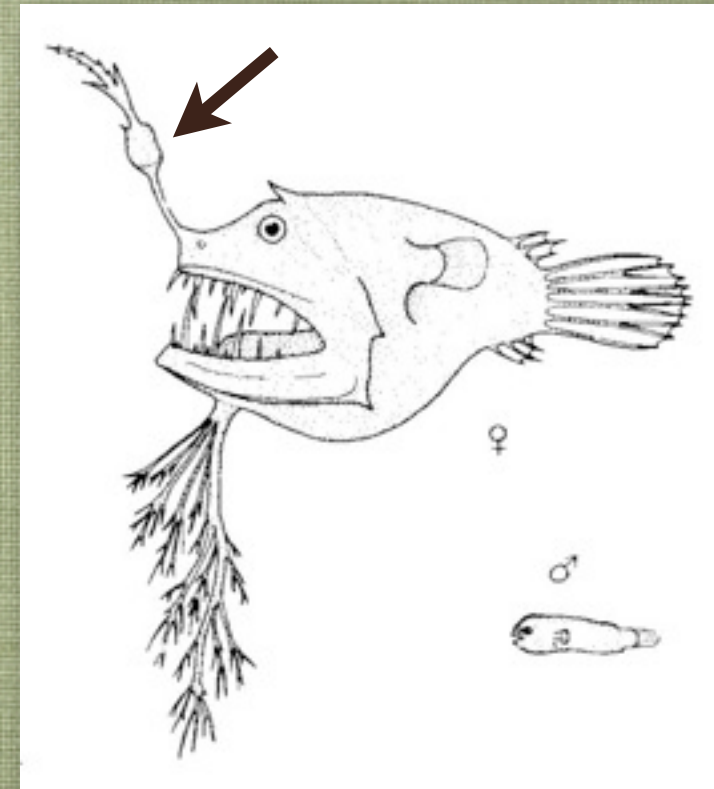
棘頭光棒鮟鱇



6.2 mm



Linophryne arborifera
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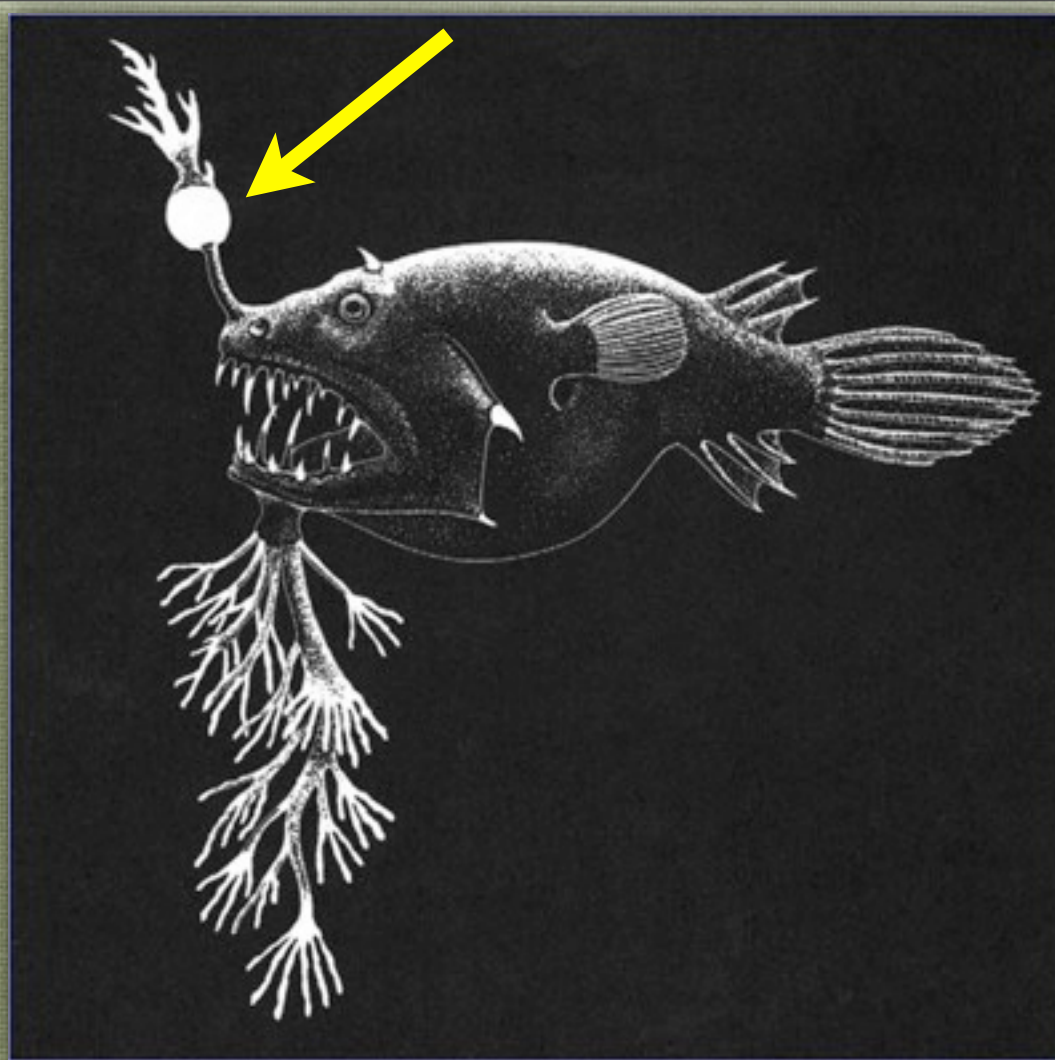
Photocorynus spiniceps

棘頭光棒鮟鱇

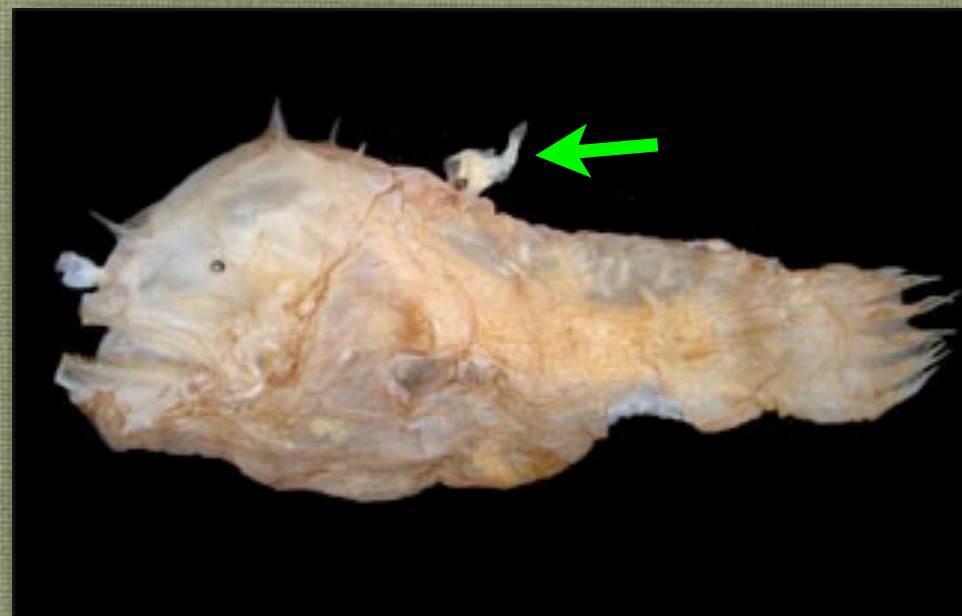
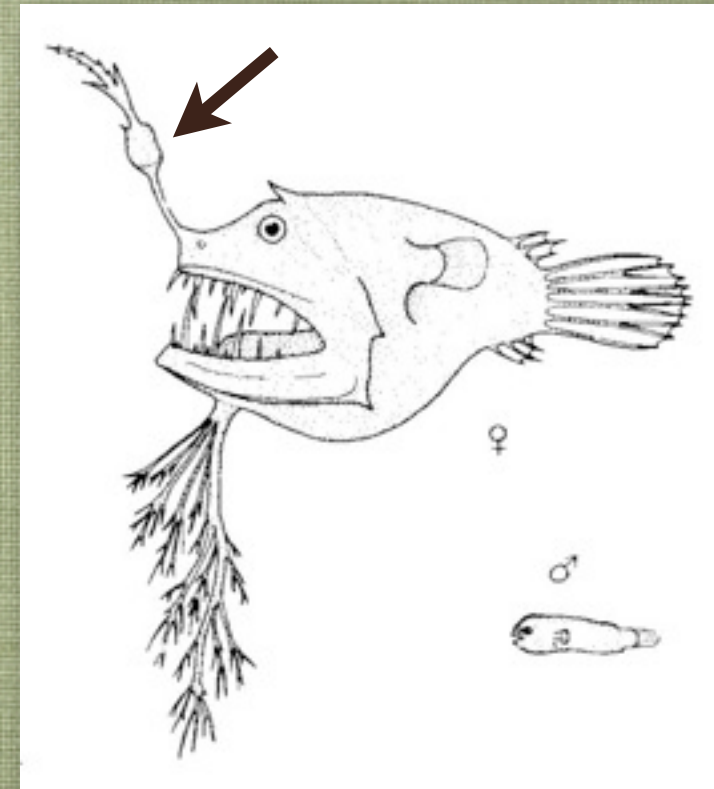


6.2 mm

46 mm



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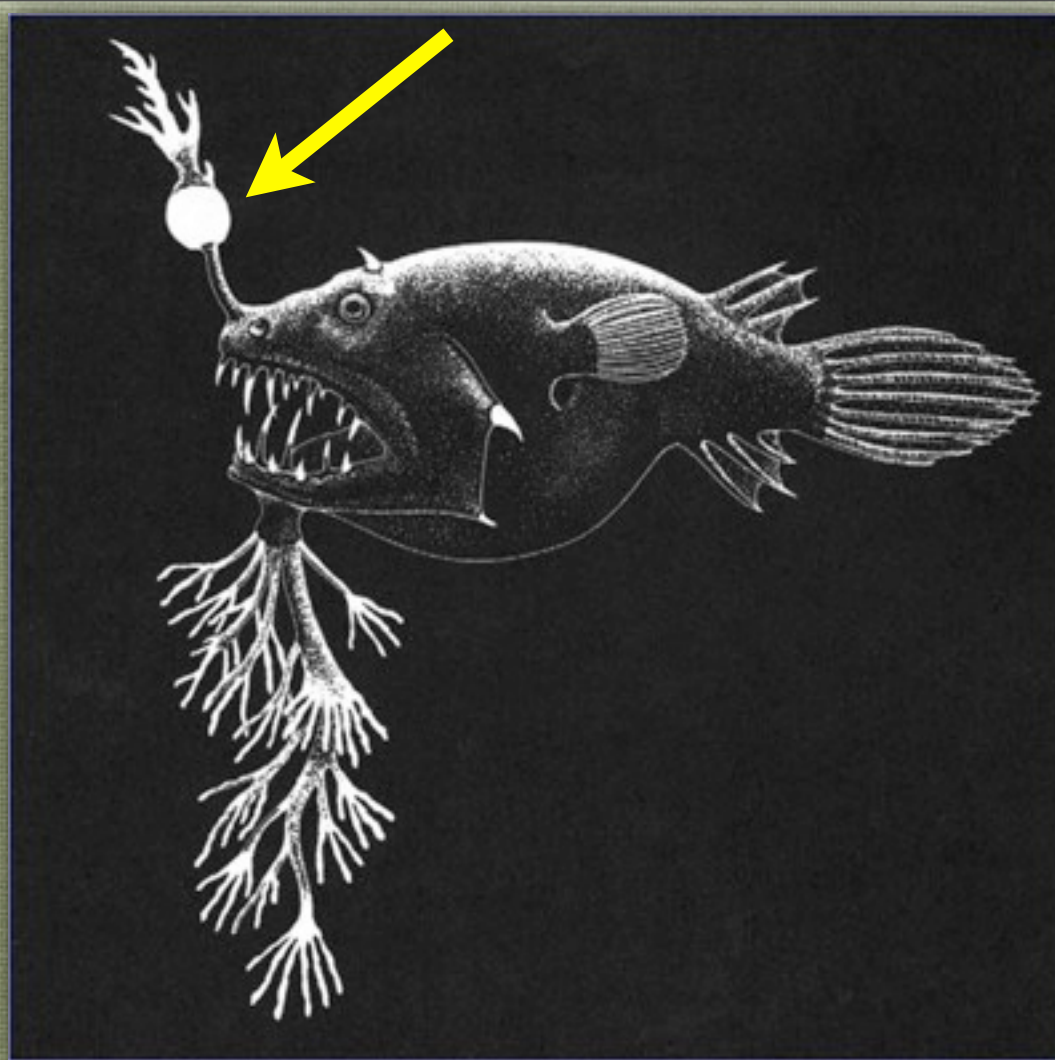
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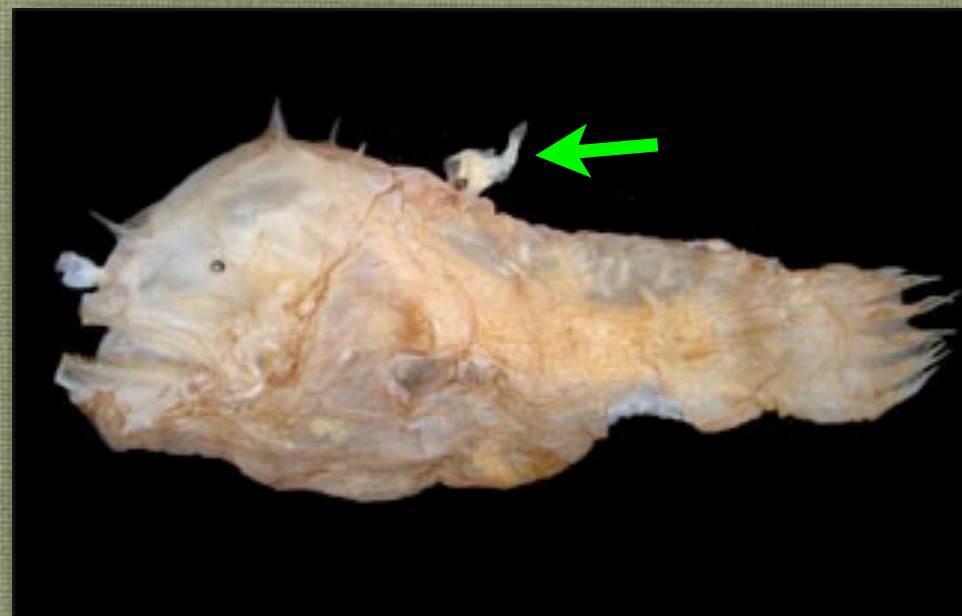
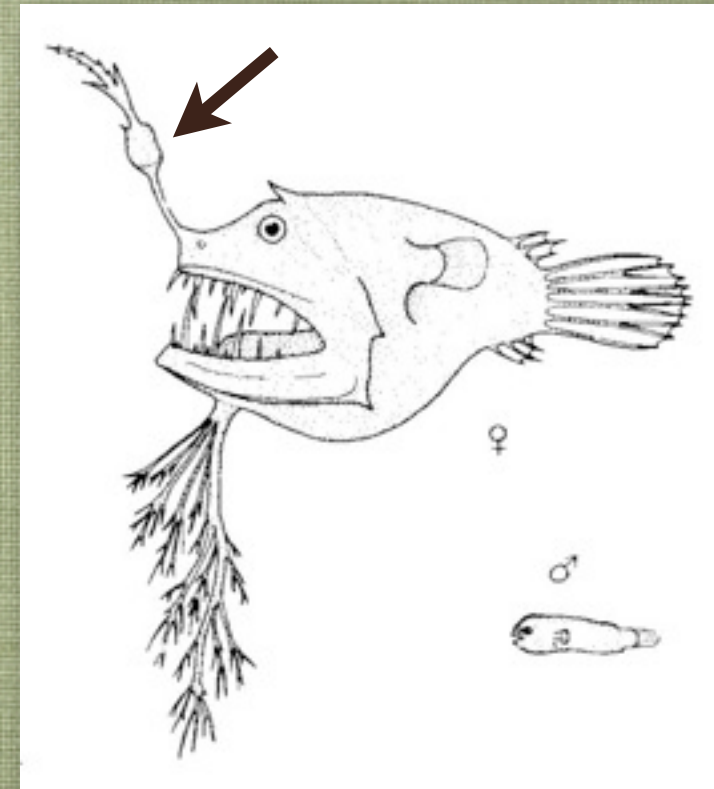


6.2 mm

46 mm



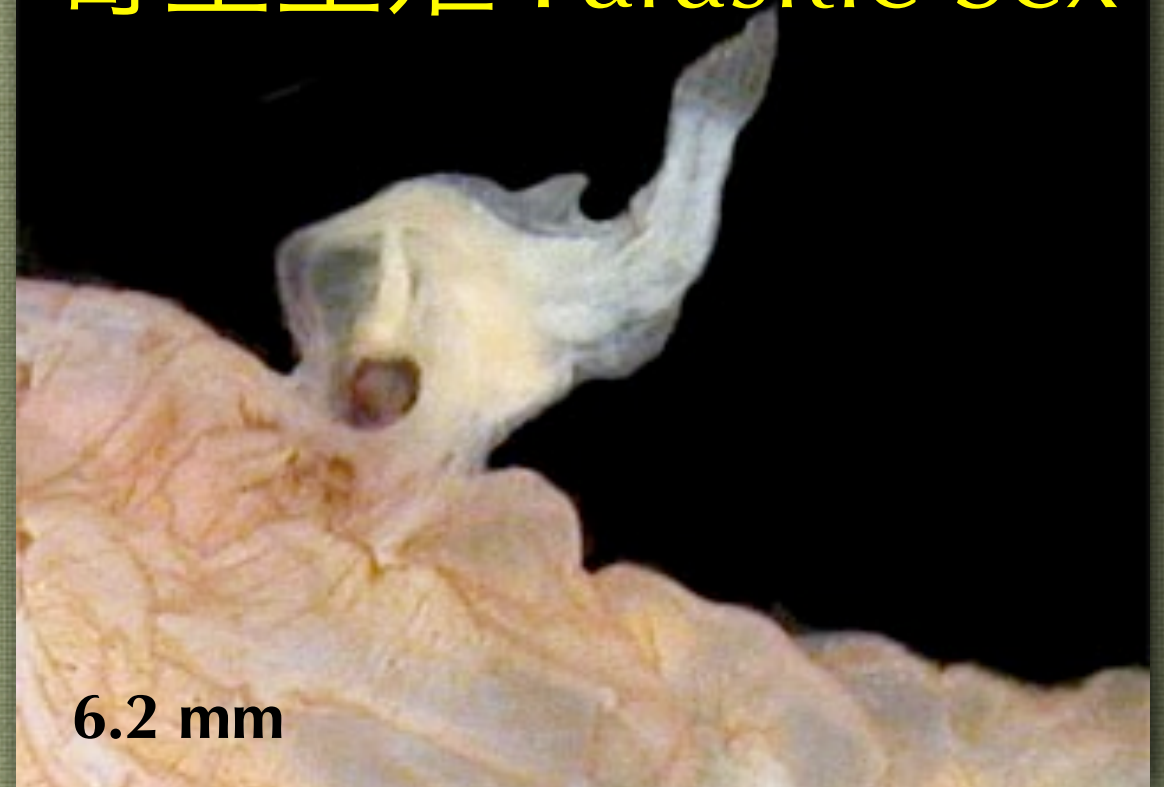
Linophryne arborifera
鬚角鮟鱇



Photocorynus spiniceps

棘頭光棒鮟鱇

寄生生殖 Parasitic Sex



6.2 mm

46 mm

Mandrill

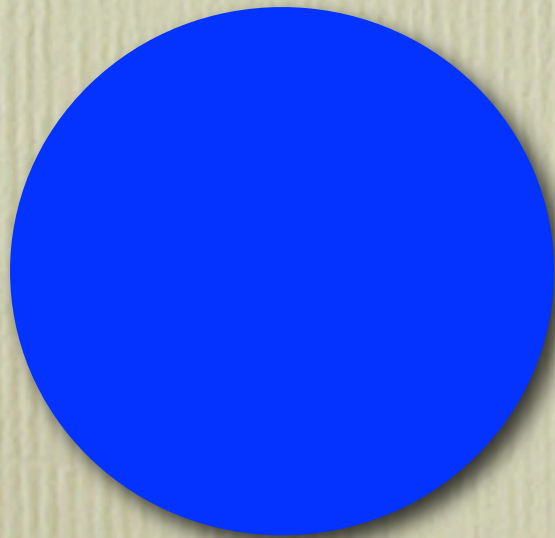
(*Mandrillus sphinx*)



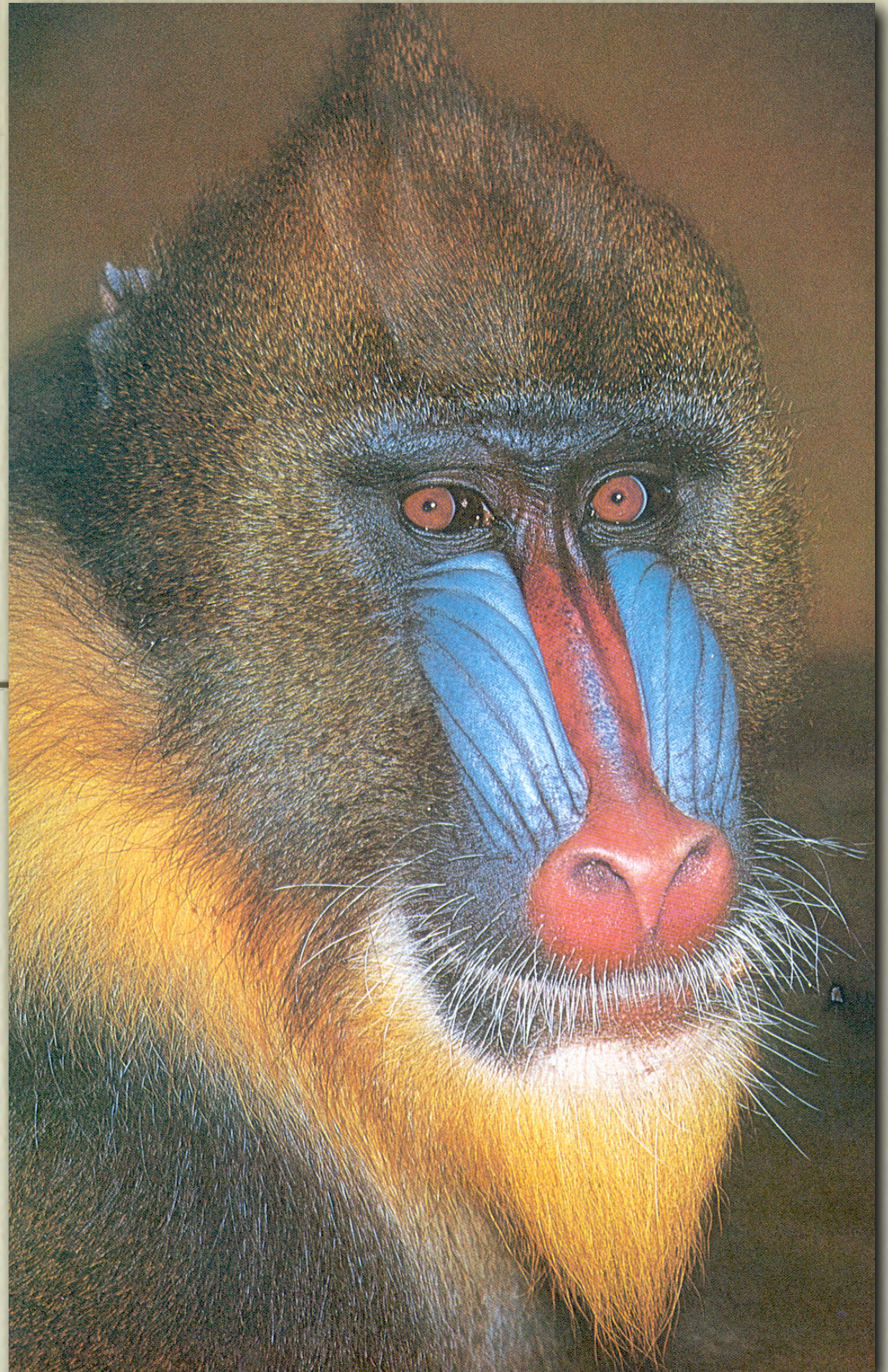
大狒狒

Mandrill

(*Mandrillus sphinx*)



大狒狒

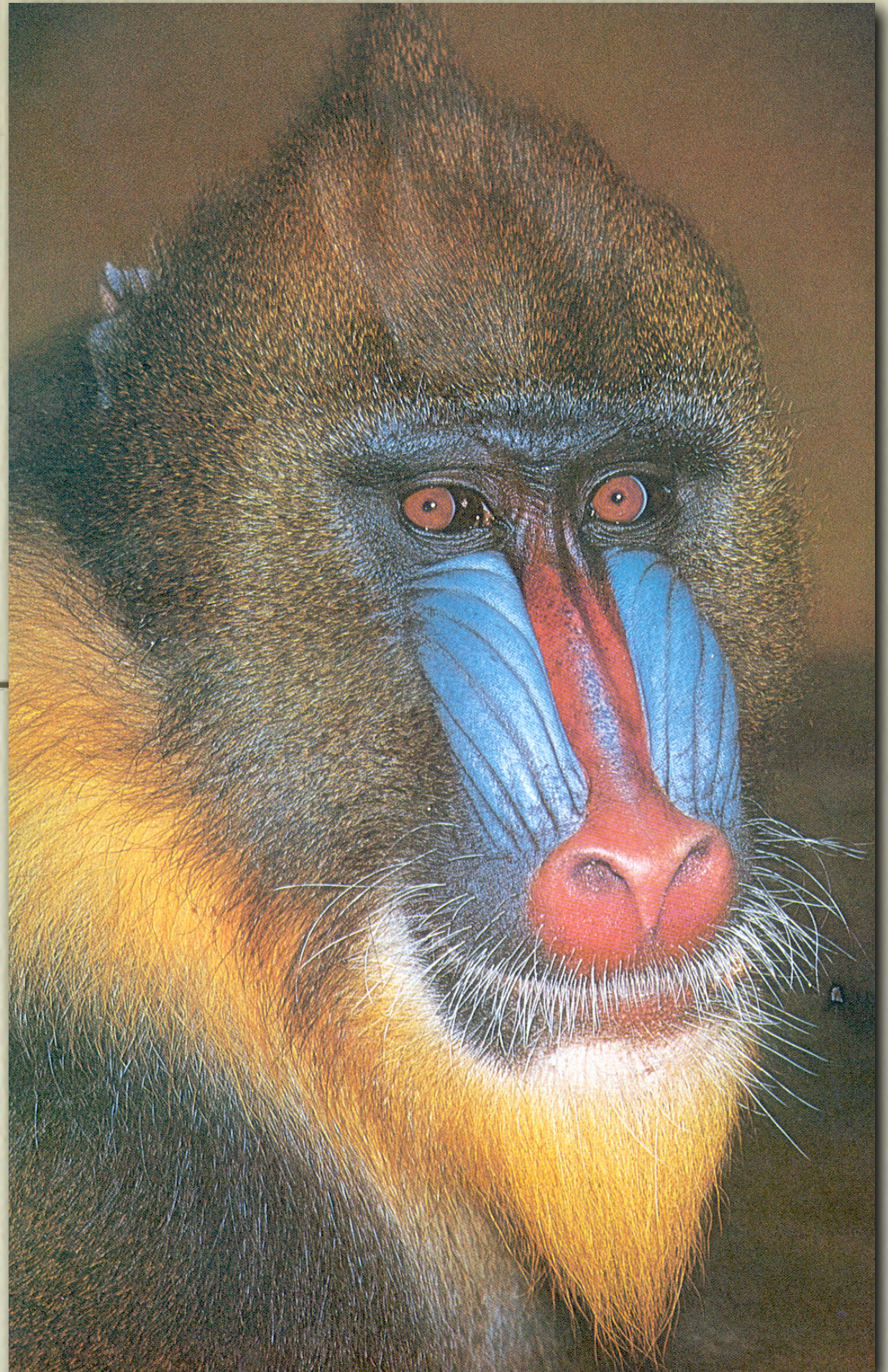


Mandrill

(*Mandrillus sphinx*)

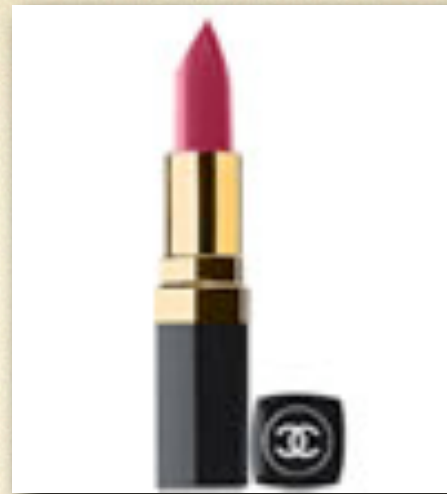


大狒狒









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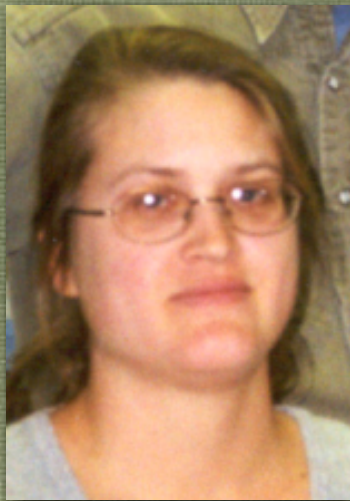
Longear Sunfish 北美長耳太陽魚

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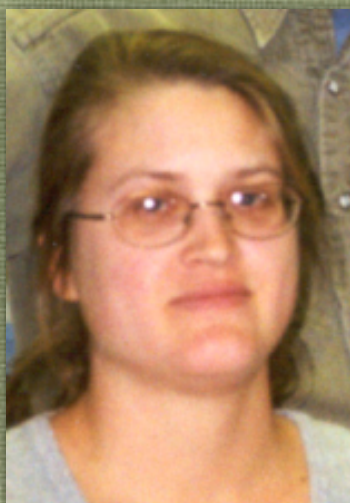
Dawn Johnson



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北美長耳太陽魚

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Dawn Johnson



Sage Grouse

(Lekking)配偶吸引

Sage Grouse (Lekking) 配偶吸引



Sage Grouse (Lekking) 配偶吸引

大艾草榛雞



Sage Grouse (Lekking) 配偶吸引

大艾草榛雞



Sage Grouse (Lekking) 配偶吸引



大艾草榛雞



Sage Grouse (Lekking) 配偶吸引



大艾草榛雞



Sage Grouse (Lekking) 配偶吸引

大艾草榛雞







Club-winged manakins,
Machaeropterus deliciosus
(Andes Mountains of Columbia and northwestern Ecuador)

Club-winged manakins,
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侏儒鳥



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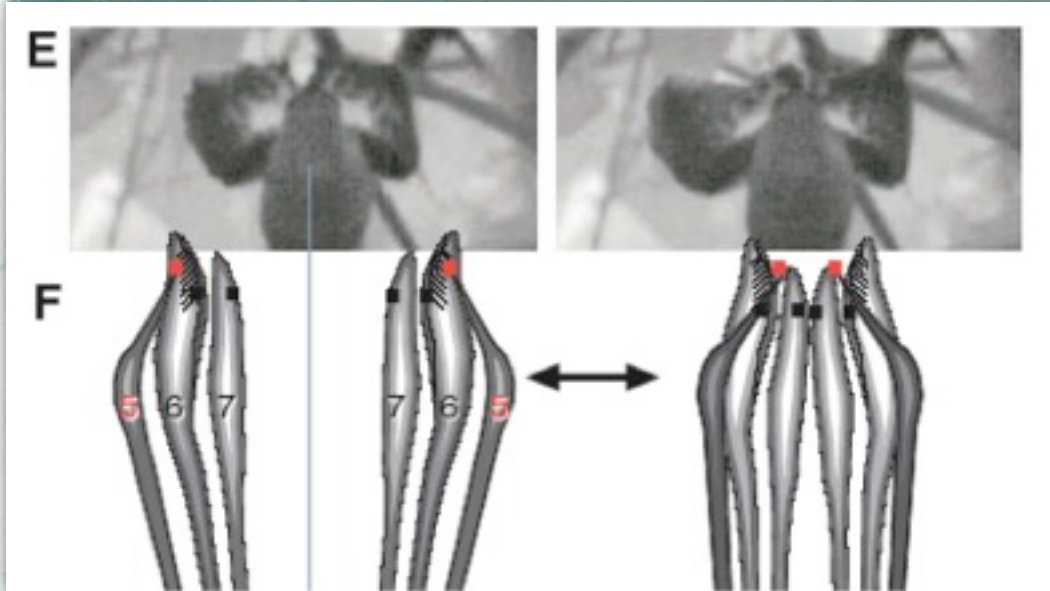
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侏儒鳥



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Oyster toadfish

(*Opsanus tau*)

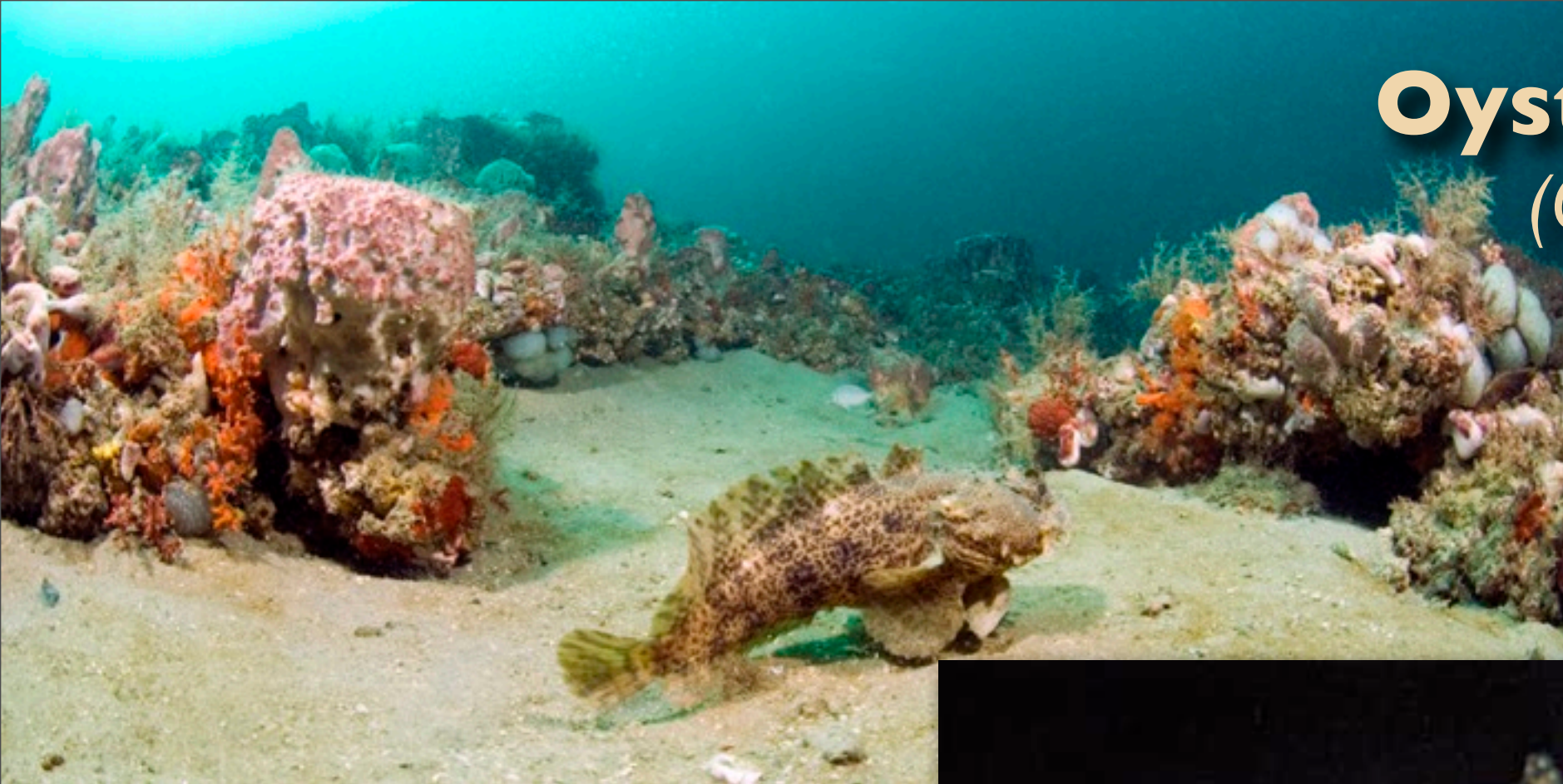


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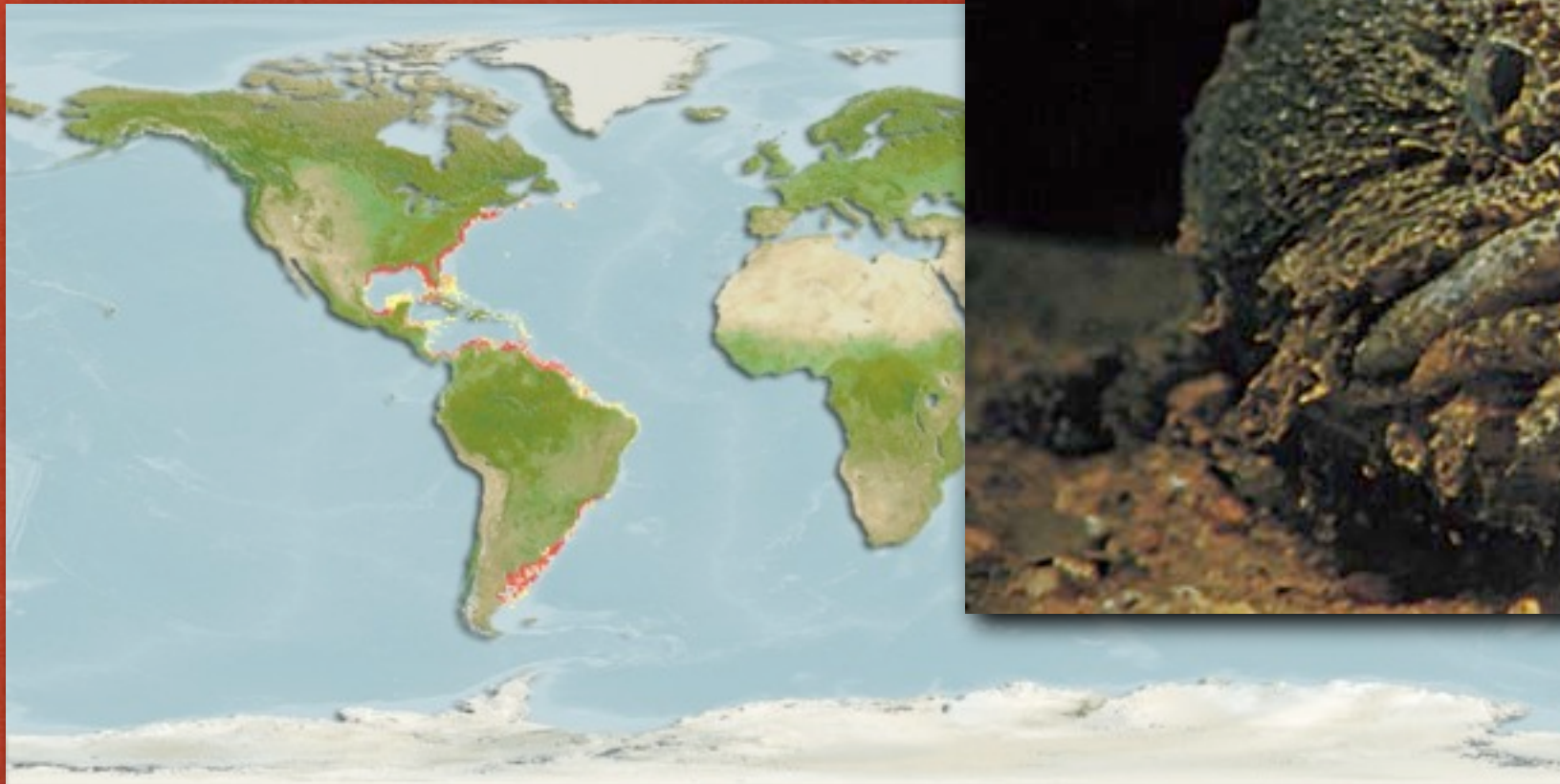


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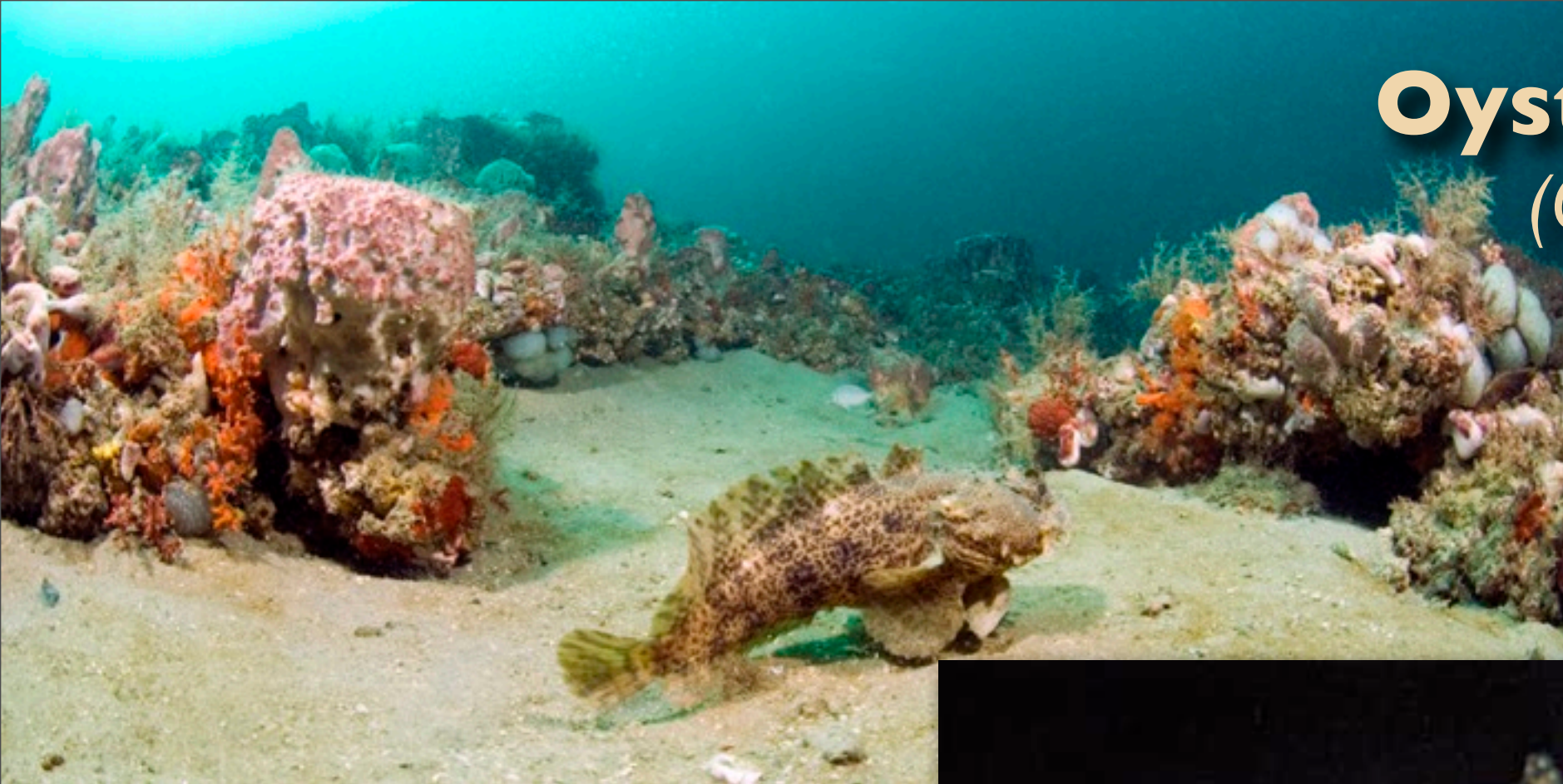


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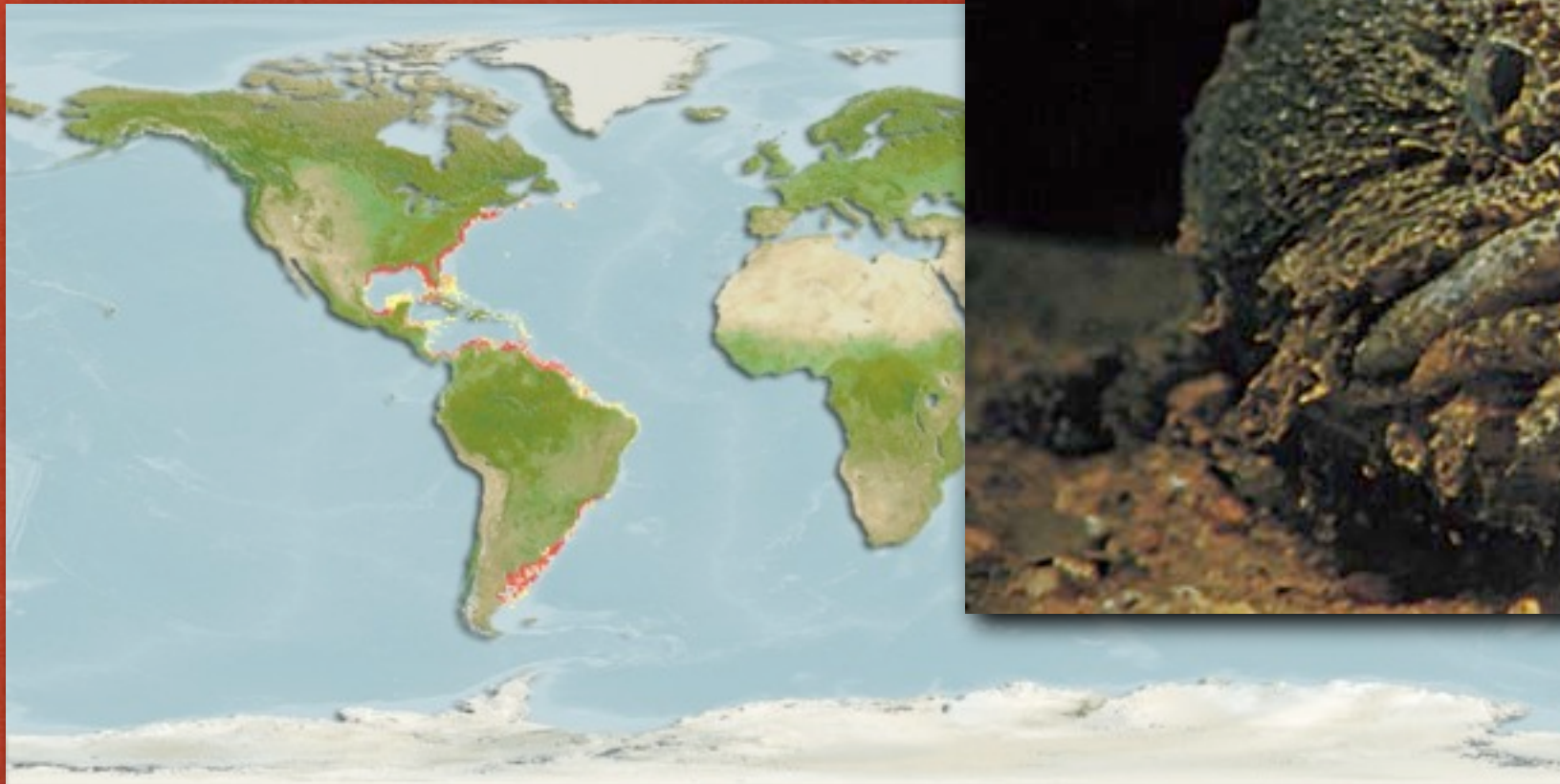


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(*Opsanus tau*)

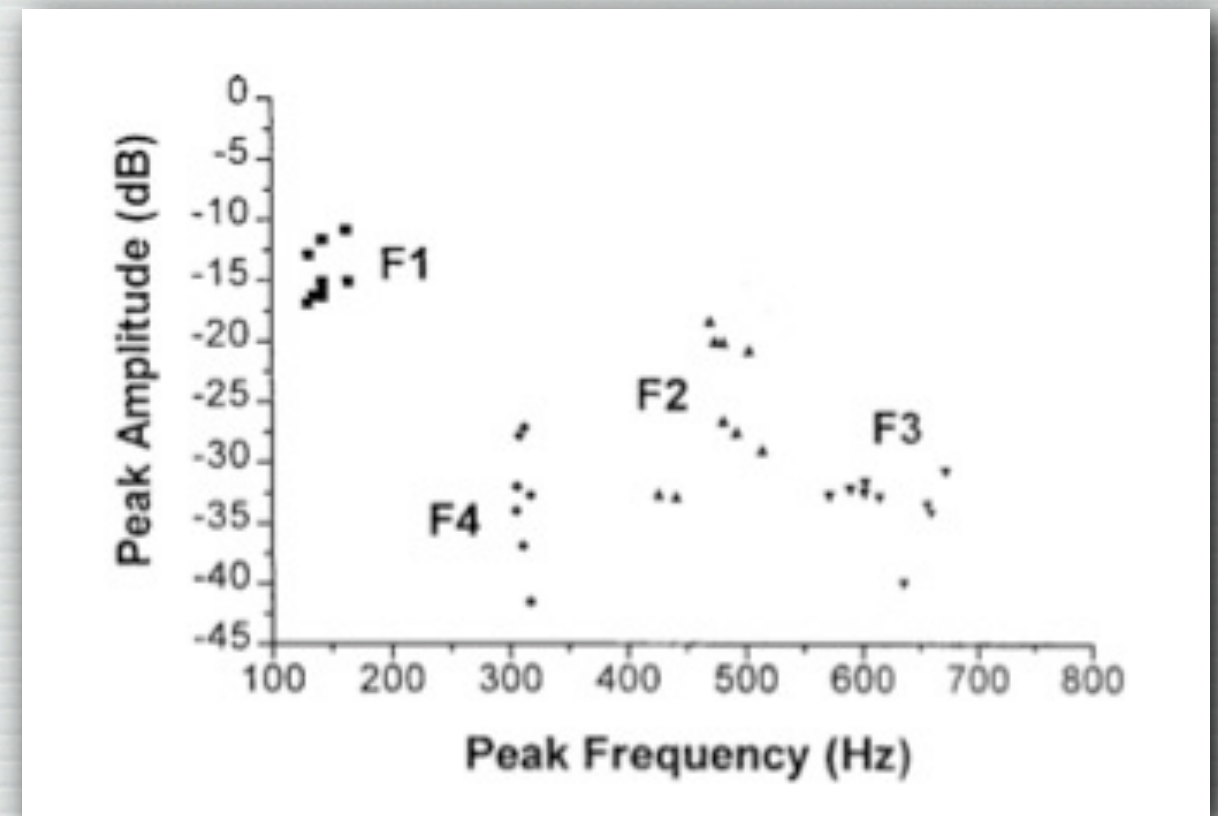
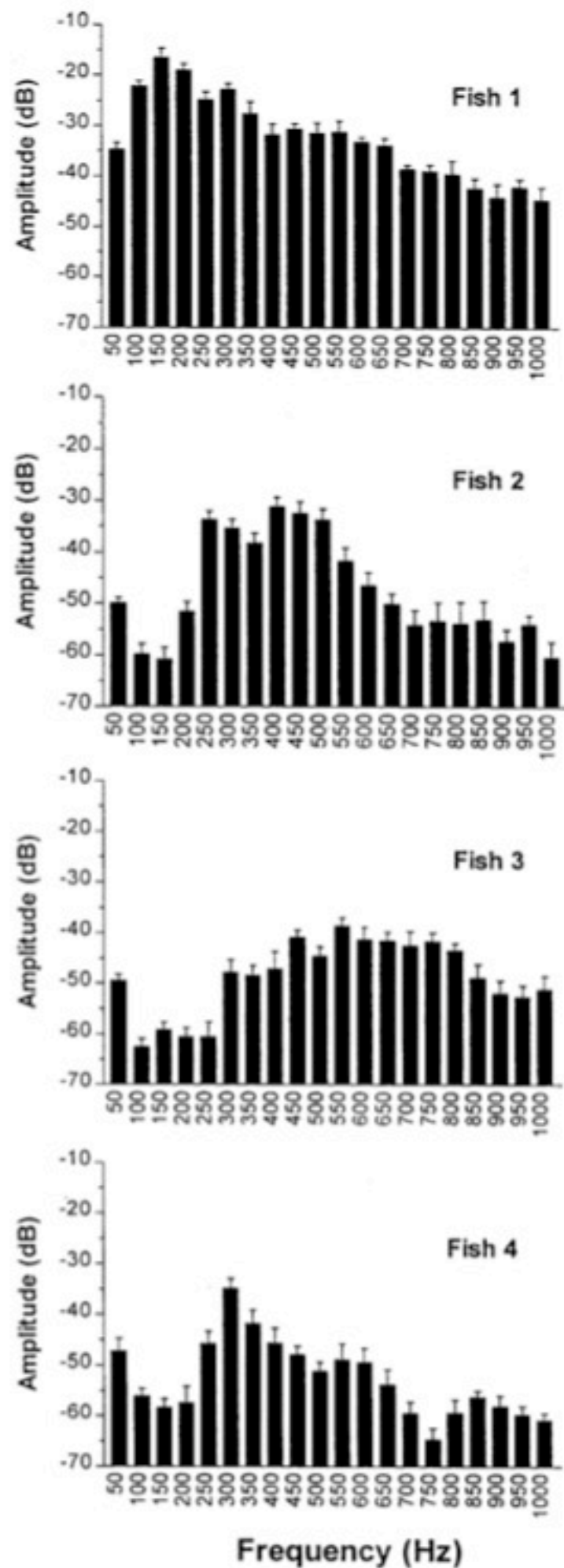


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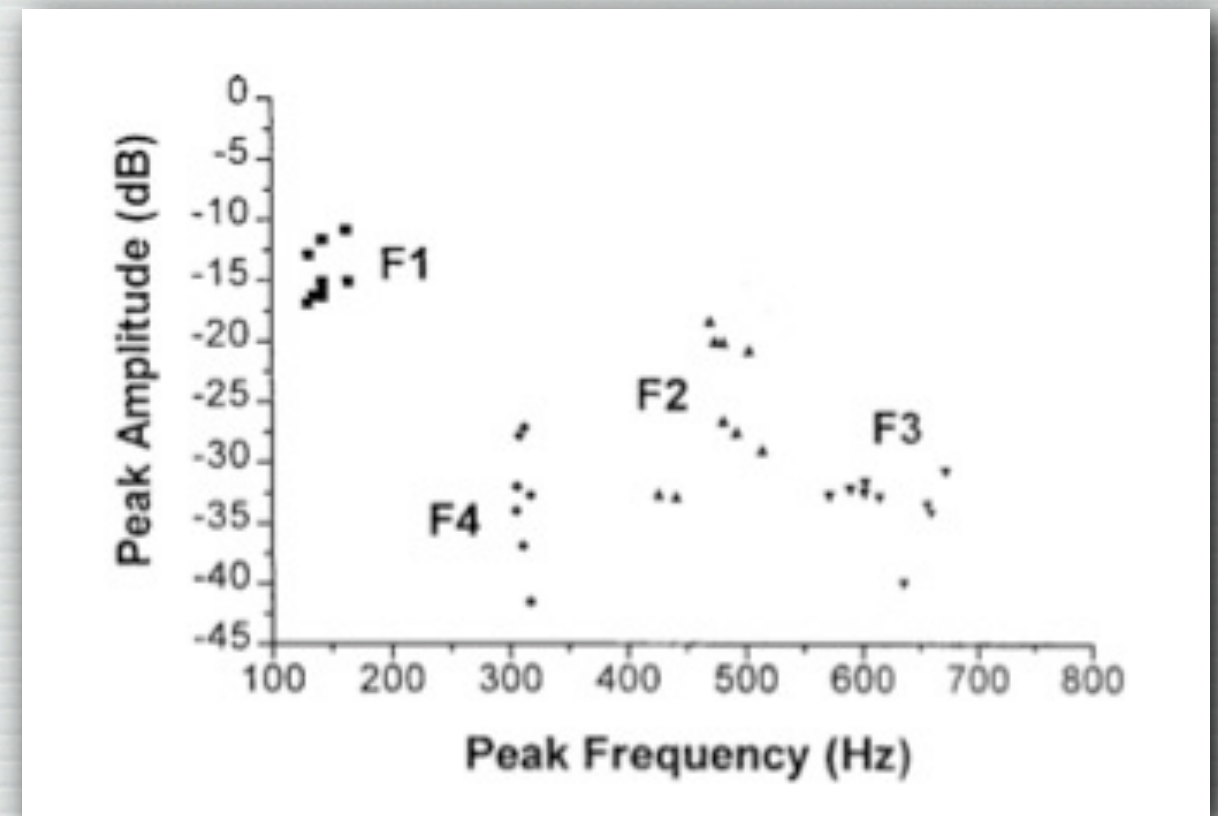
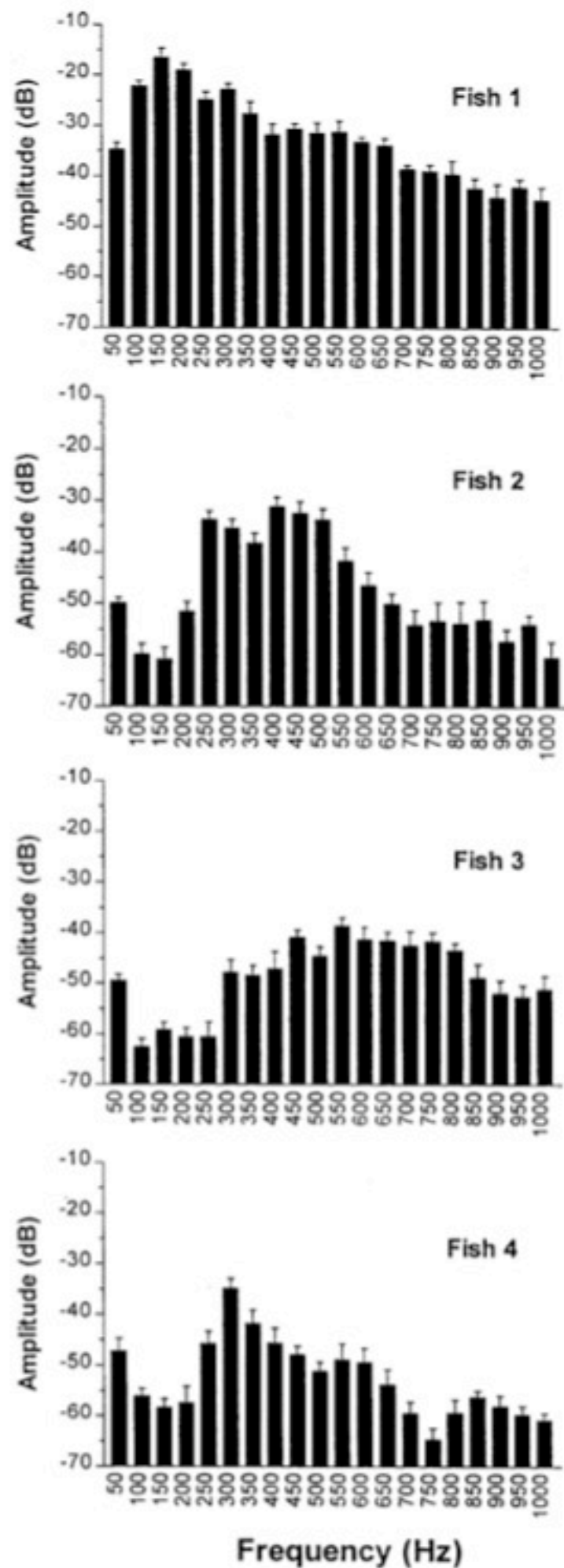
Mike Fine
VCU



Acoustic tagging 音標追蹤

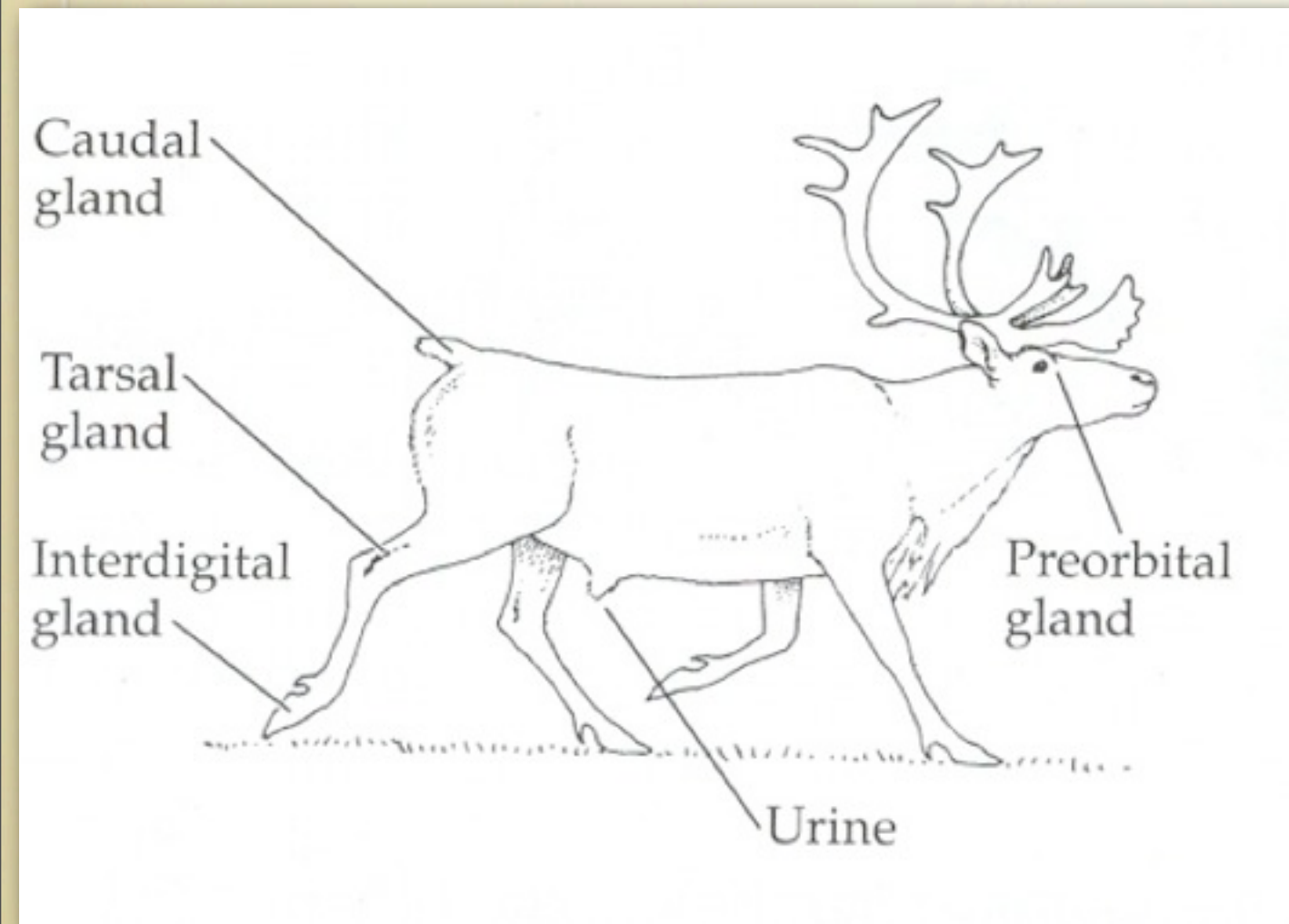


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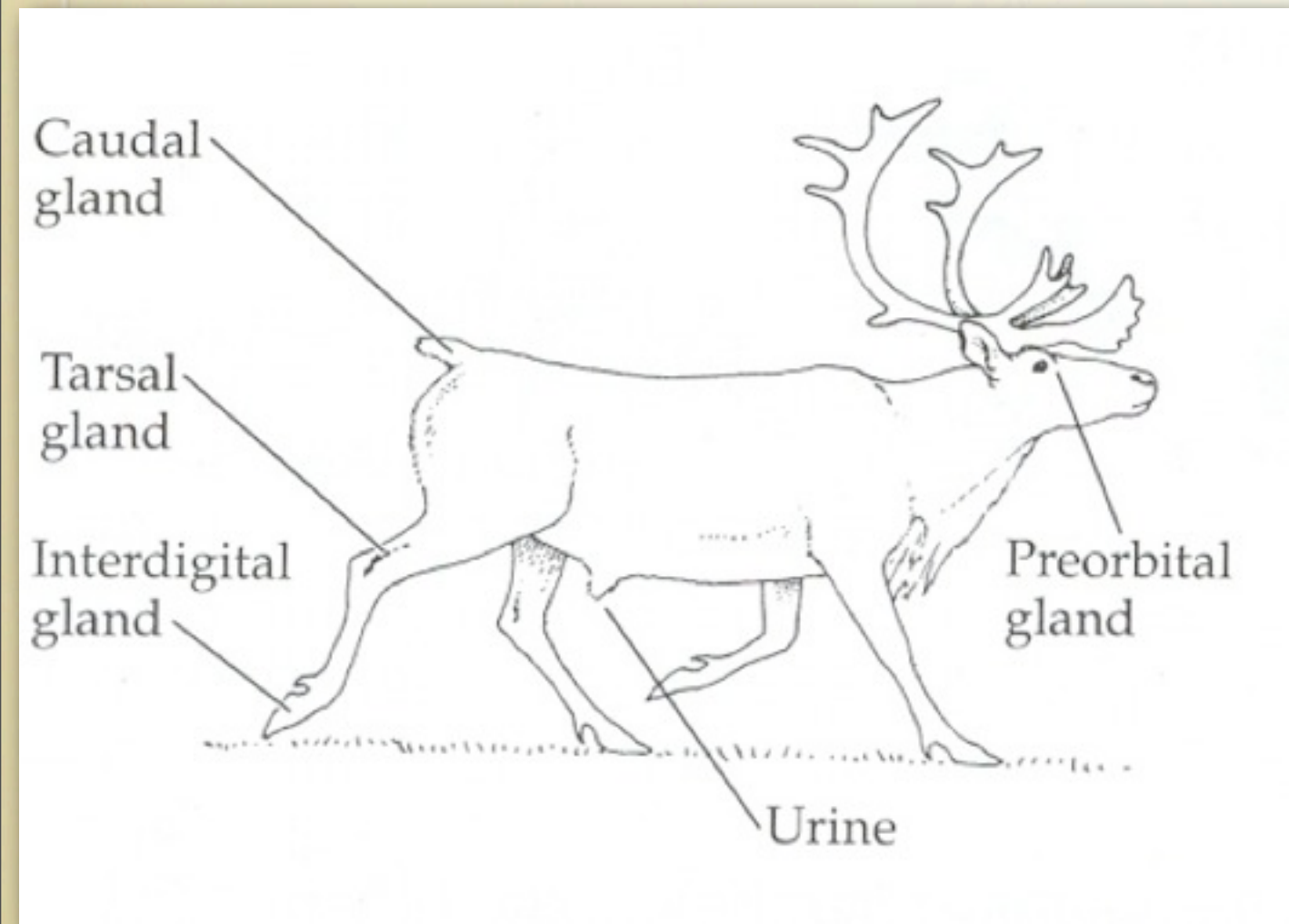
Acoustic tagging 音標追蹤

Reindeer 麋鹿



Chemical Advertisement 化學展示

Reindeer 麋鹿





蠶

The sex pheromone of the silk moth *Bombyx mori*



Adolf Butenandt



(E,Z) 10,12 Hexadecadien-1-ol (Bombykol)

蠶蛾醇



巴塔哥尼亞豚鼠



Patagonia mara (*Dolichotis patagonum*)



巴塔哥尼亞豚鼠



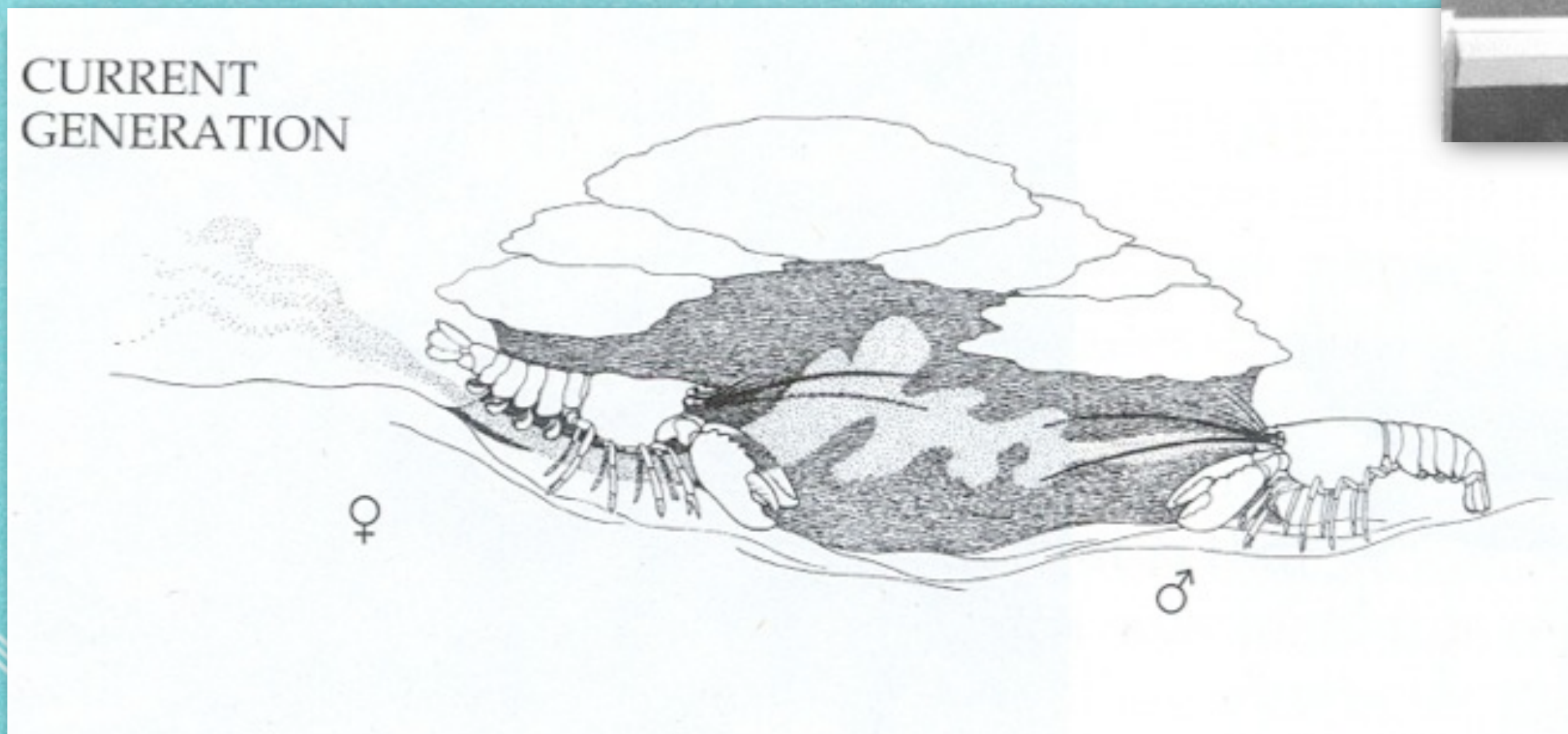
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American lobster
(*Homarus americanus*)
美國龍蝦



Jelle Artema
Boston U.



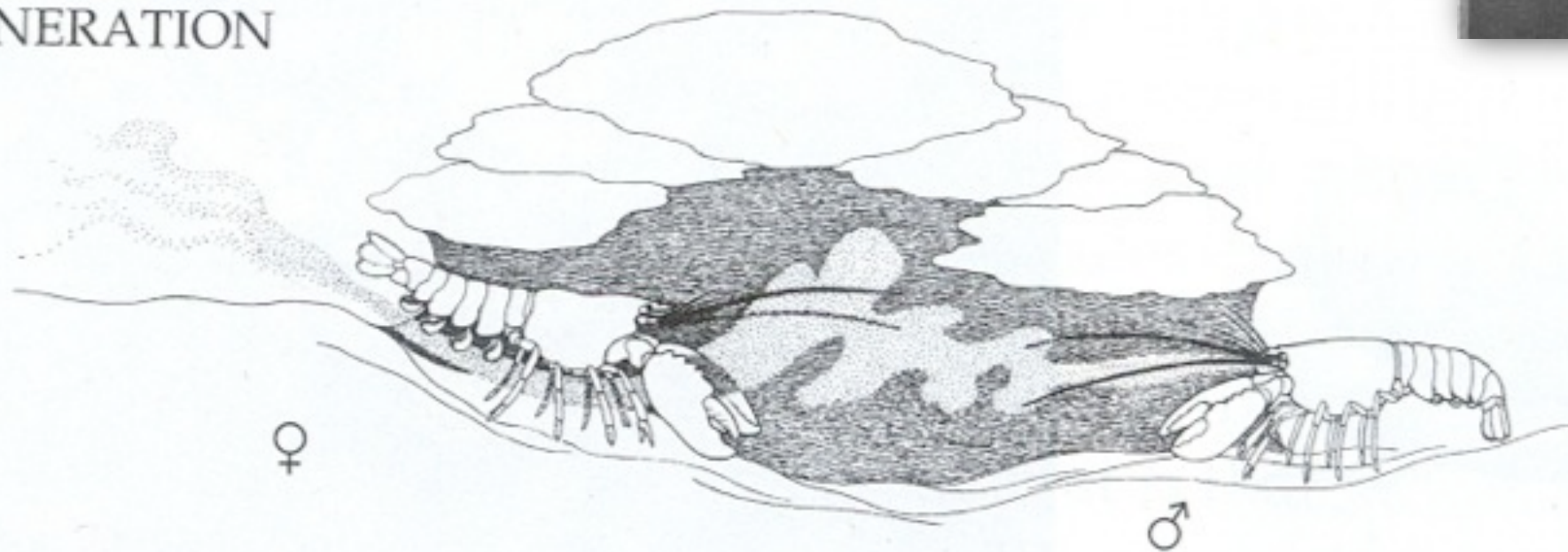


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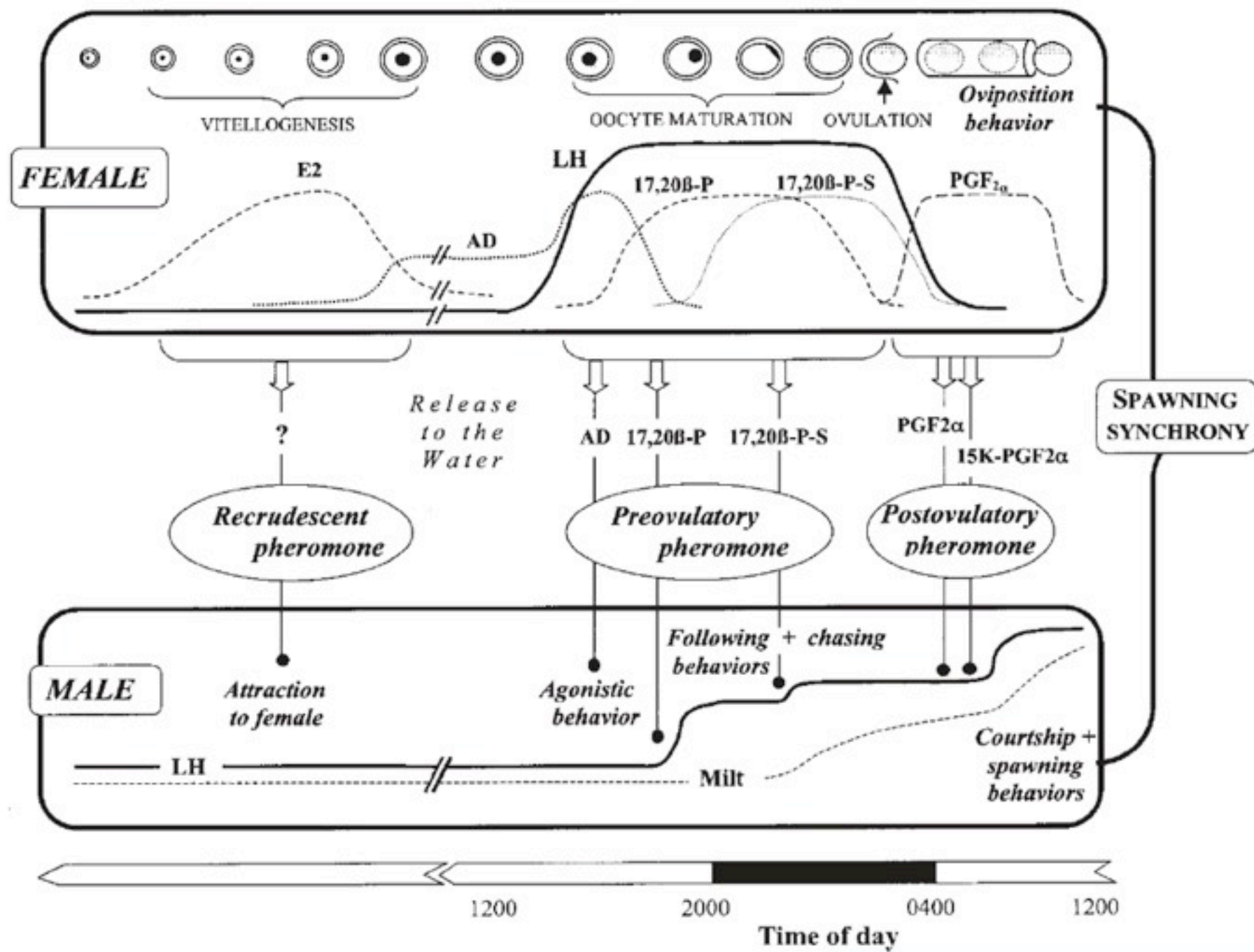


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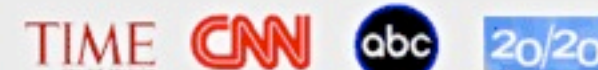
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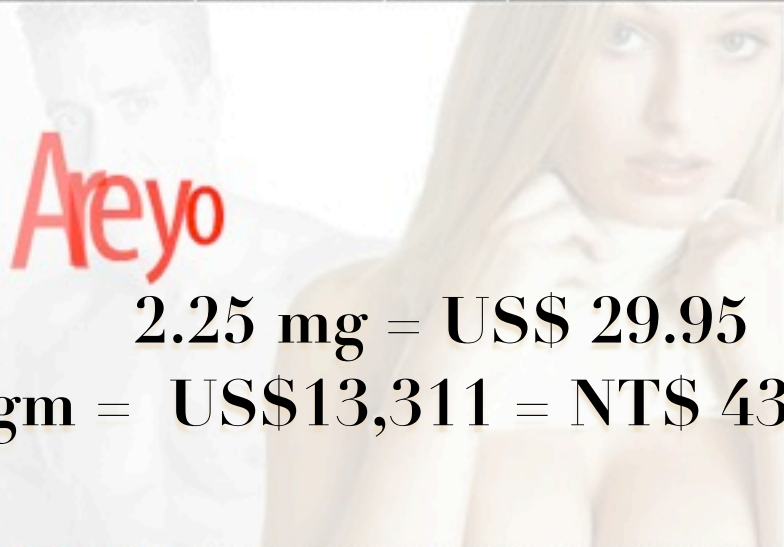
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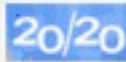
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Not guaranteed to work for everyone (body chemistries differ); will work for most. These cosmetics increase attractiveness; they are not aphrodisiacs.

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The First Human Sex Pheromone Discovered at Last!

It is a testosterone derived chemical from the sweat

By **Stefan Anitel**, Science Editor
8th of February 2007, 12:33 GMT

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Many mammals and insects expel chemicals, called pheromones that induce sexual arousal in the opposite sex. This is the dream of many men, and a recent study at the University of California, Berkeley, has for the first time answered the thorny question: do humans possess pheromones?

"This is the first time anyone has demonstrated that a change in women's hormonal levels is induced by sniffing an identified compound of male sweat" said study leader Dr. Claire Wyart.

In a previous study, Noam Sobel, associate professor of psychology at UC Berkeley and director of the Berkeley Olfactory Research Program had discovered that the chemical androstadienone, encountered in male sweat and a common additive in perfumes and colognes triggered mood changes, sexual arousal and brain activation in women. "Yet, contrary to perfume company advertisements, there is no hard evidence that humans

respond to the smell of androstadienone or any other chemical in a subliminal or instinctual way similar to the way many mammals and even insects respond to pheromones," Wyart said.

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人類第一個性費洛蒙終於被發現了.....

The First Human Sex Pheromone Discovered at Last!

It is a testosterone derived chemical from the sweat

By **Stefan Anitel**, Science Editor
8th of February 2007, 12:33 GMT

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[Human Pheromone](#)

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[Pheromone Perfume](#)

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The Journal of Neuroscience, February 7, 2007 • 27(6):1261–1265 • 1261

Brief Communications

Smelling a Single Component of Male Sweat Alters Levels of Cortisol in Women

Claire Wyart,¹ Wallace W. Webster,² Jonathan H. Chen,¹ Sarah R. Wilson,¹ Andrew McClary,¹ Rehan M. Khan,¹ and Noam Sobel^{1,3}

¹Helen Wills Neuroscience Institute, University of California, Berkeley, Berkeley, California 94720, ²Kaiser Permanente Hospital, Oakland, California 94611, and ³Department of Neurobiology, Weizmann Institute of Science, Rehovot 76100, Israel

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女人聞了男人汗
液的單一成份會
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Androstadienone



女人聞了男人汗
液的單一成份會
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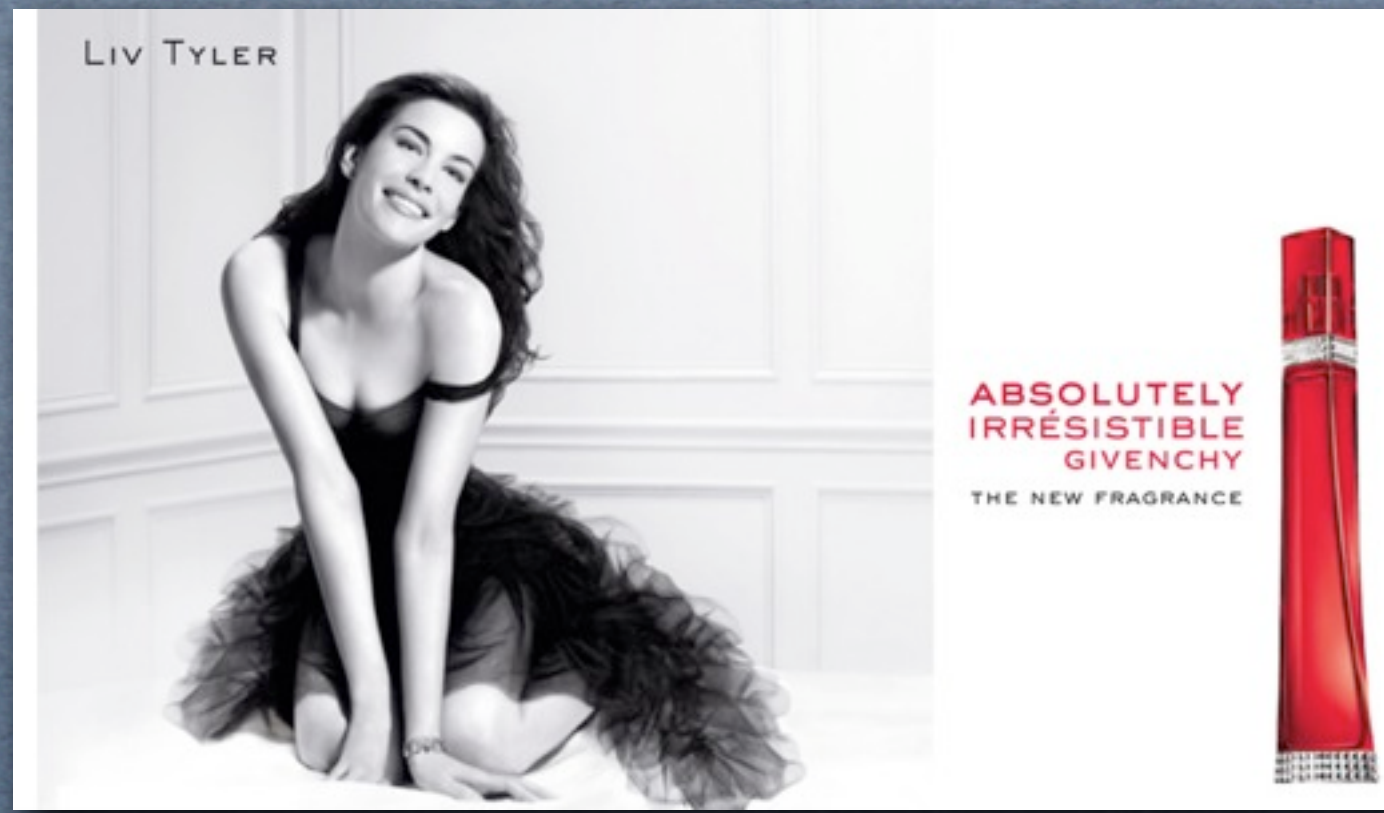
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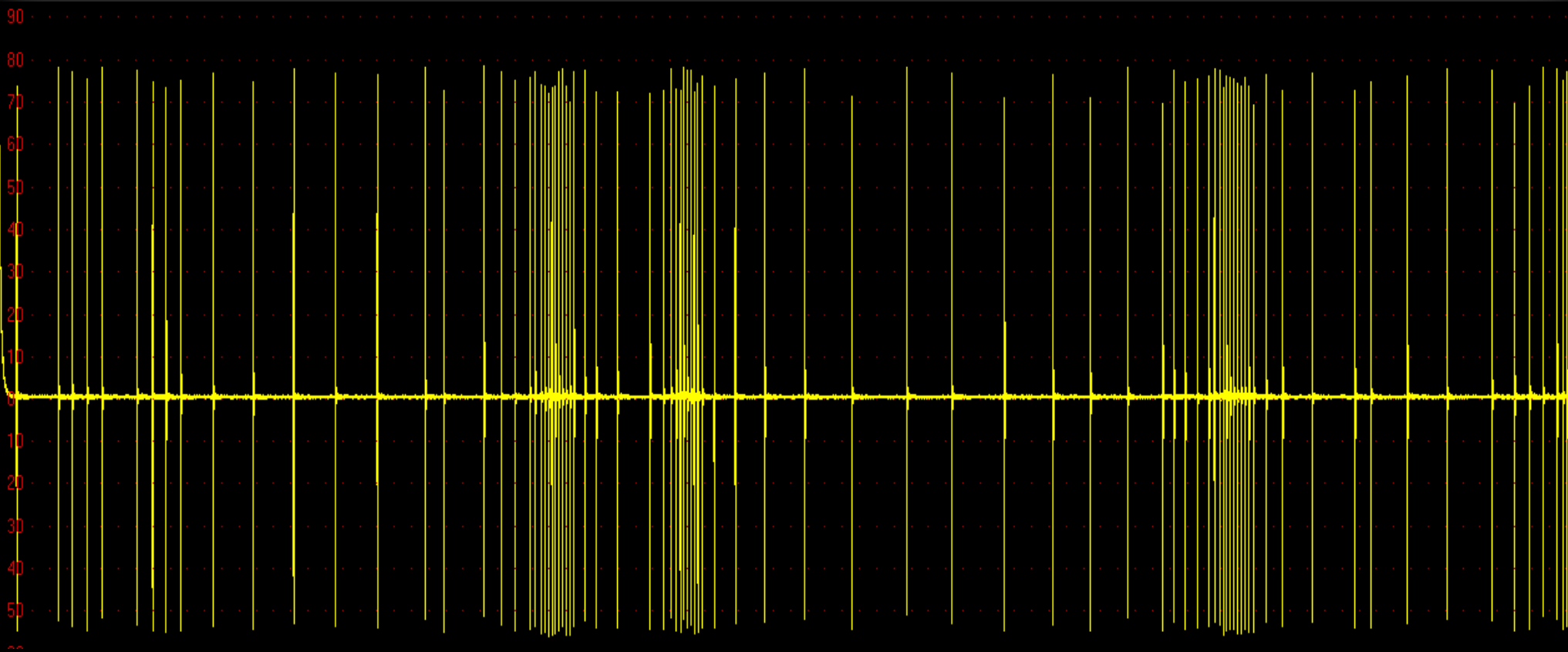
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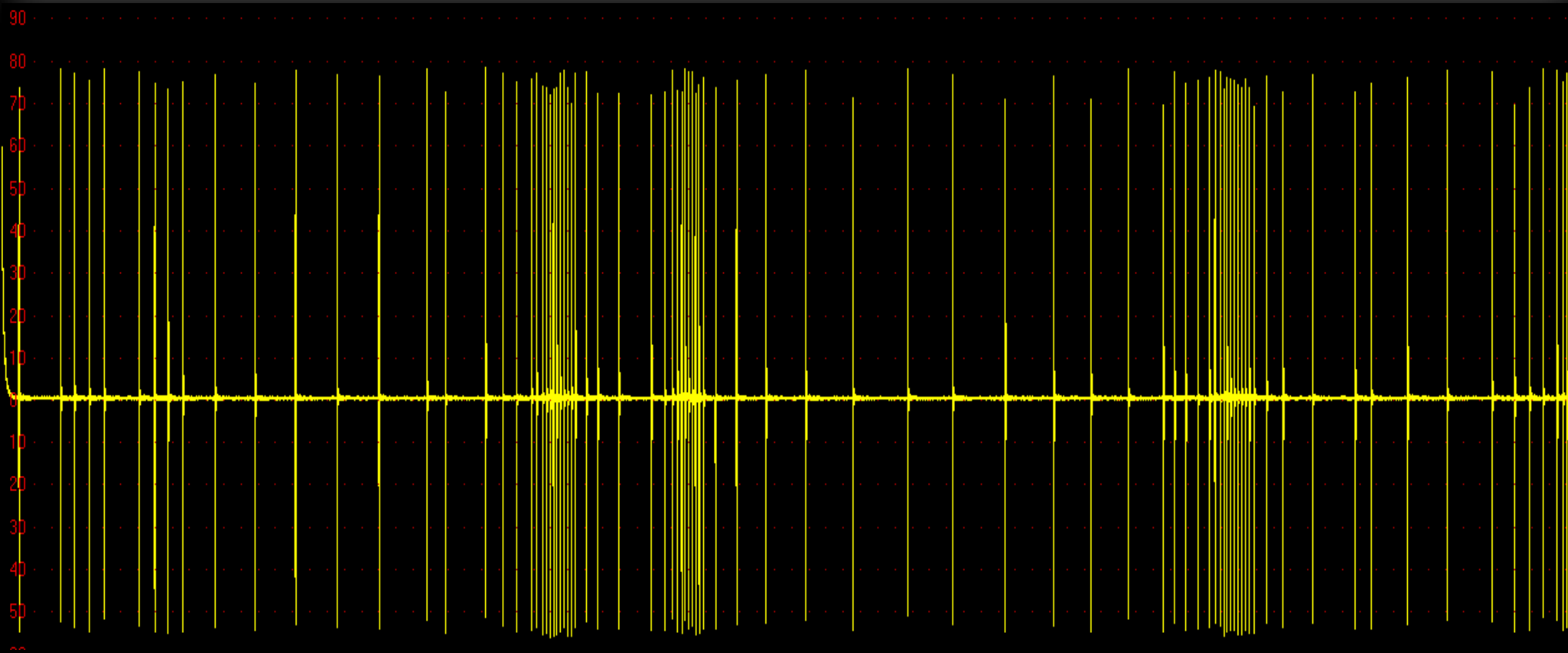
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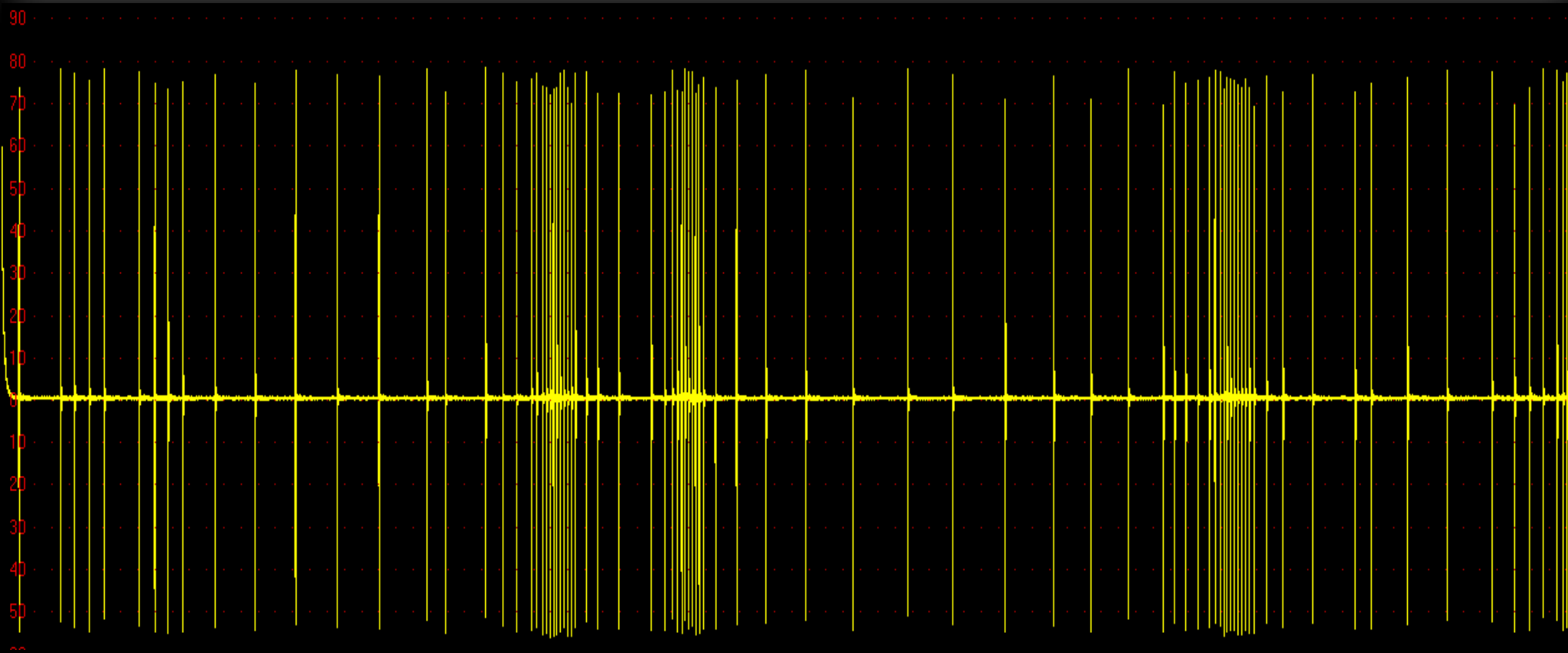


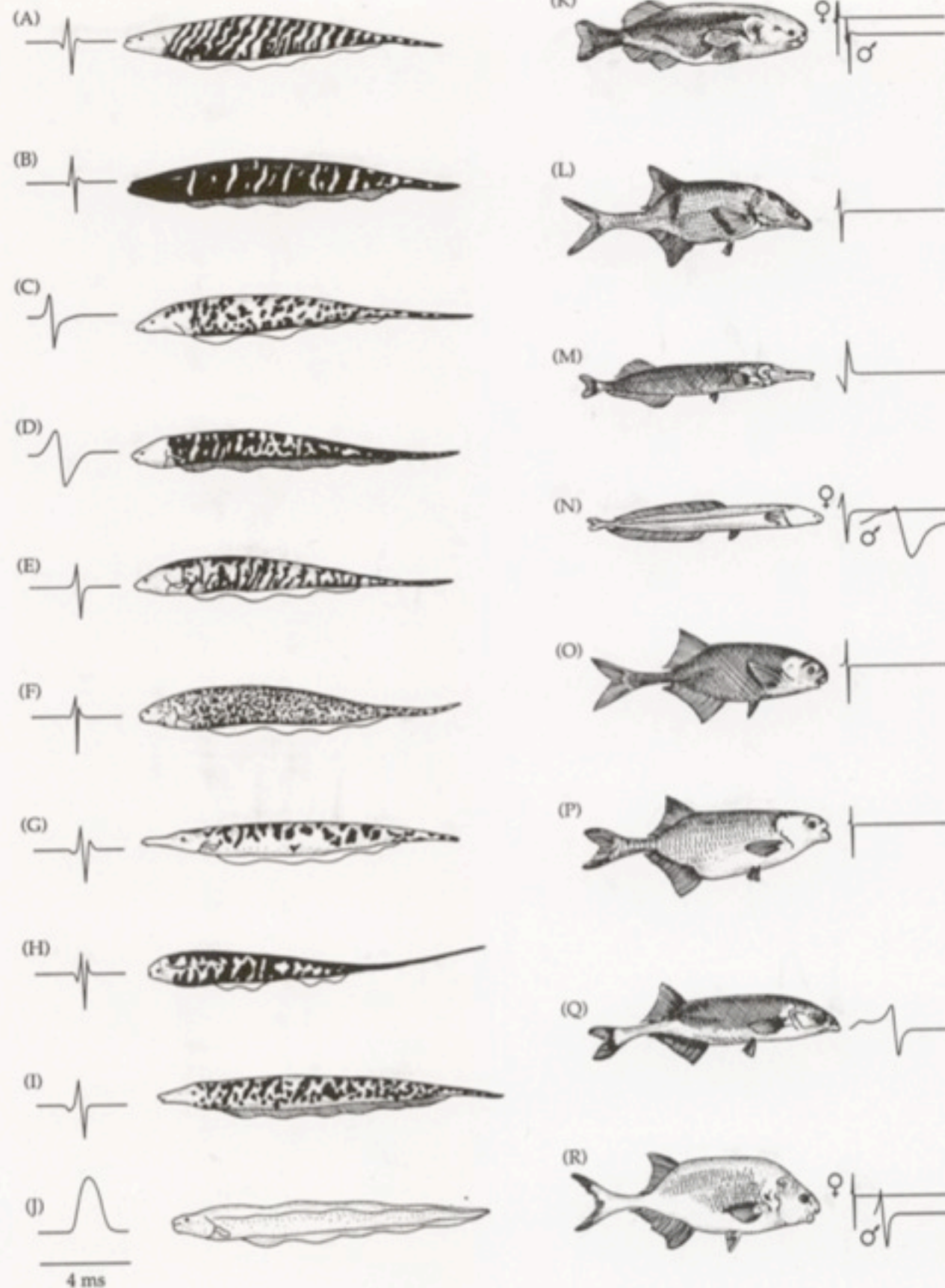


電訊號的展示



電訊號的展示





II. Mate Choice

選擇篇

II. Mate Choice

選擇篇

男怕入錯行，女怕嫁錯郎

條紋短攀鱸 (*Trichopsis vittata*) 對抗叫聲

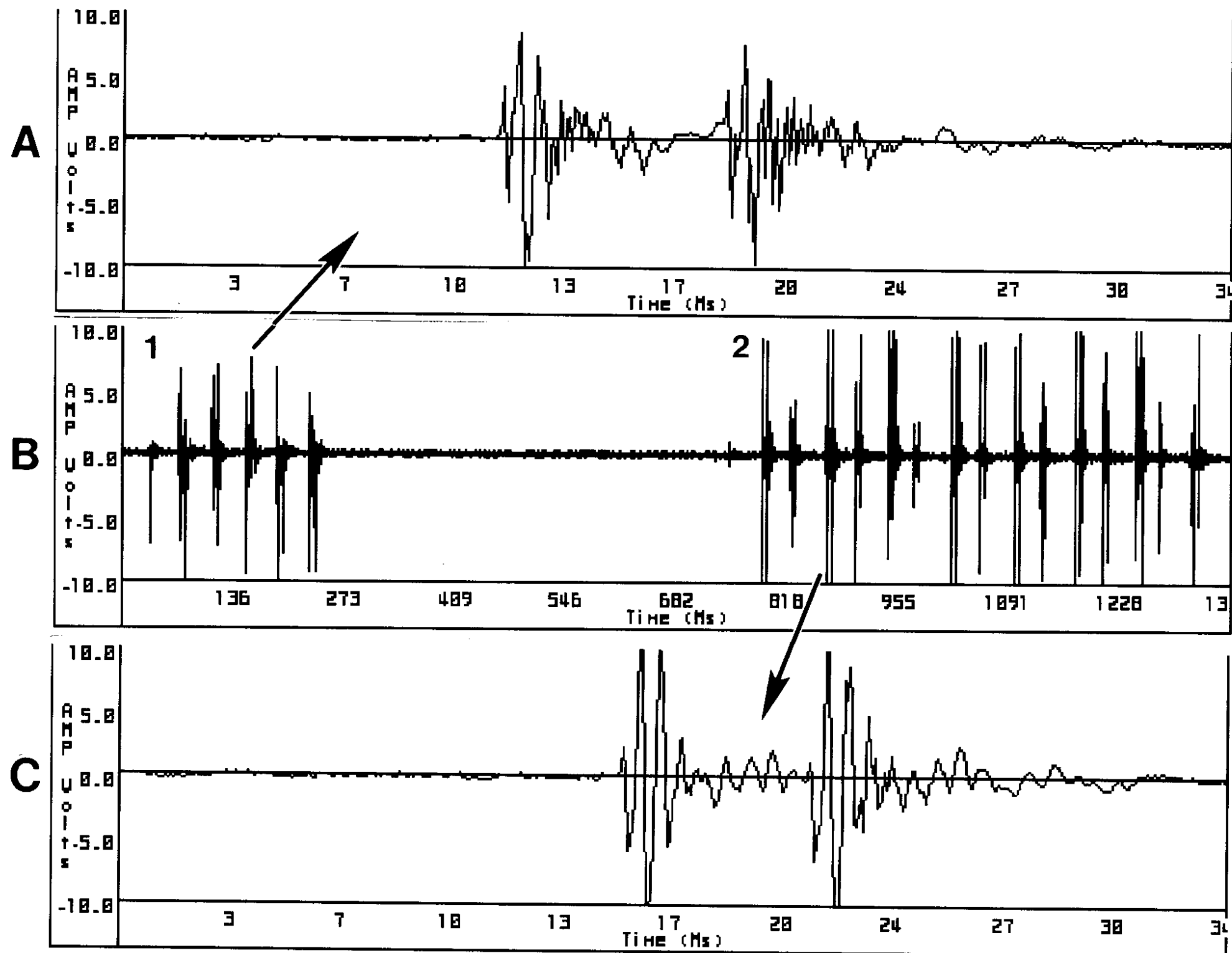


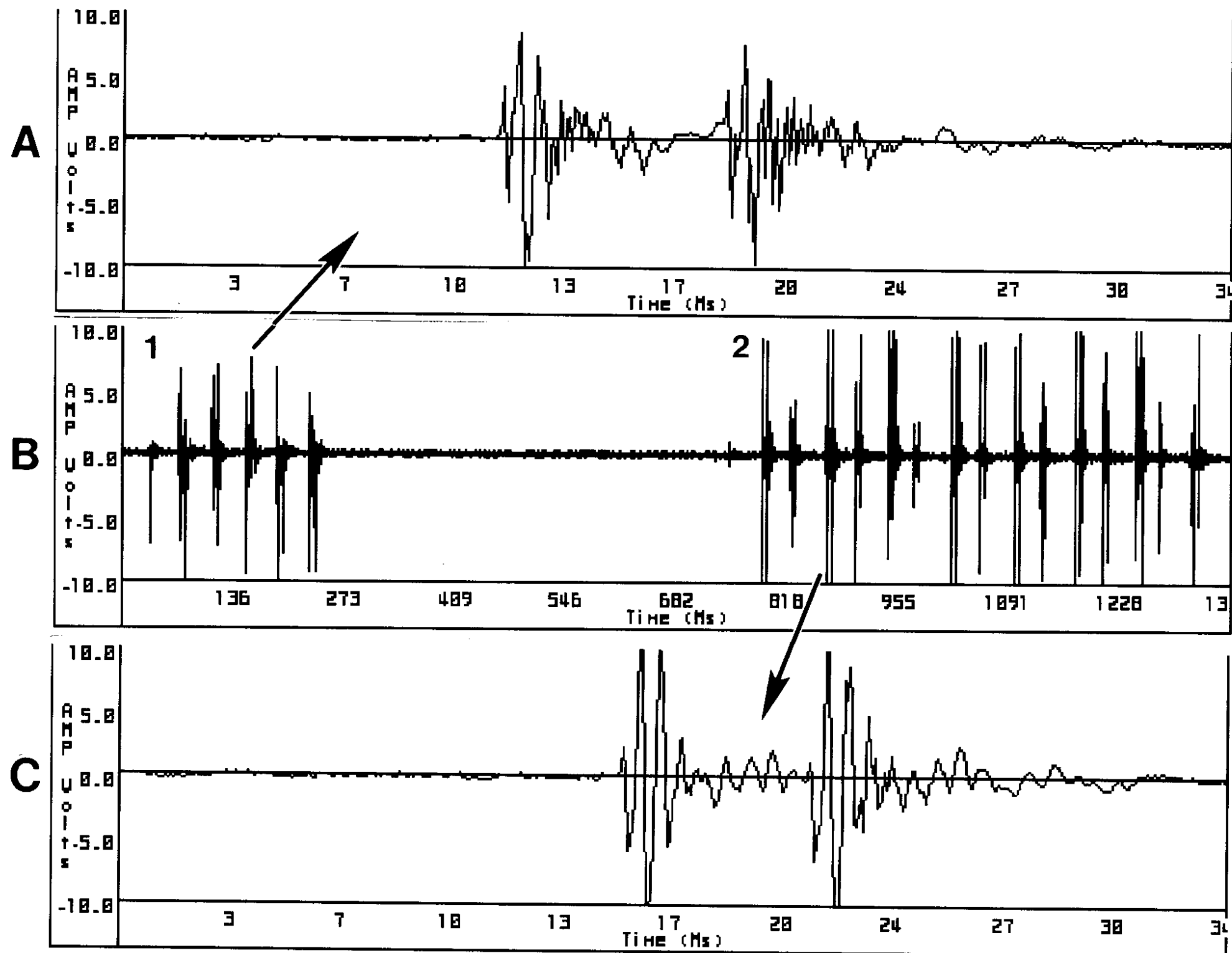
NICHOLAS NOVARILI

條紋短攀鱸 (*Trichopsis vittata*) 對抗叫聲



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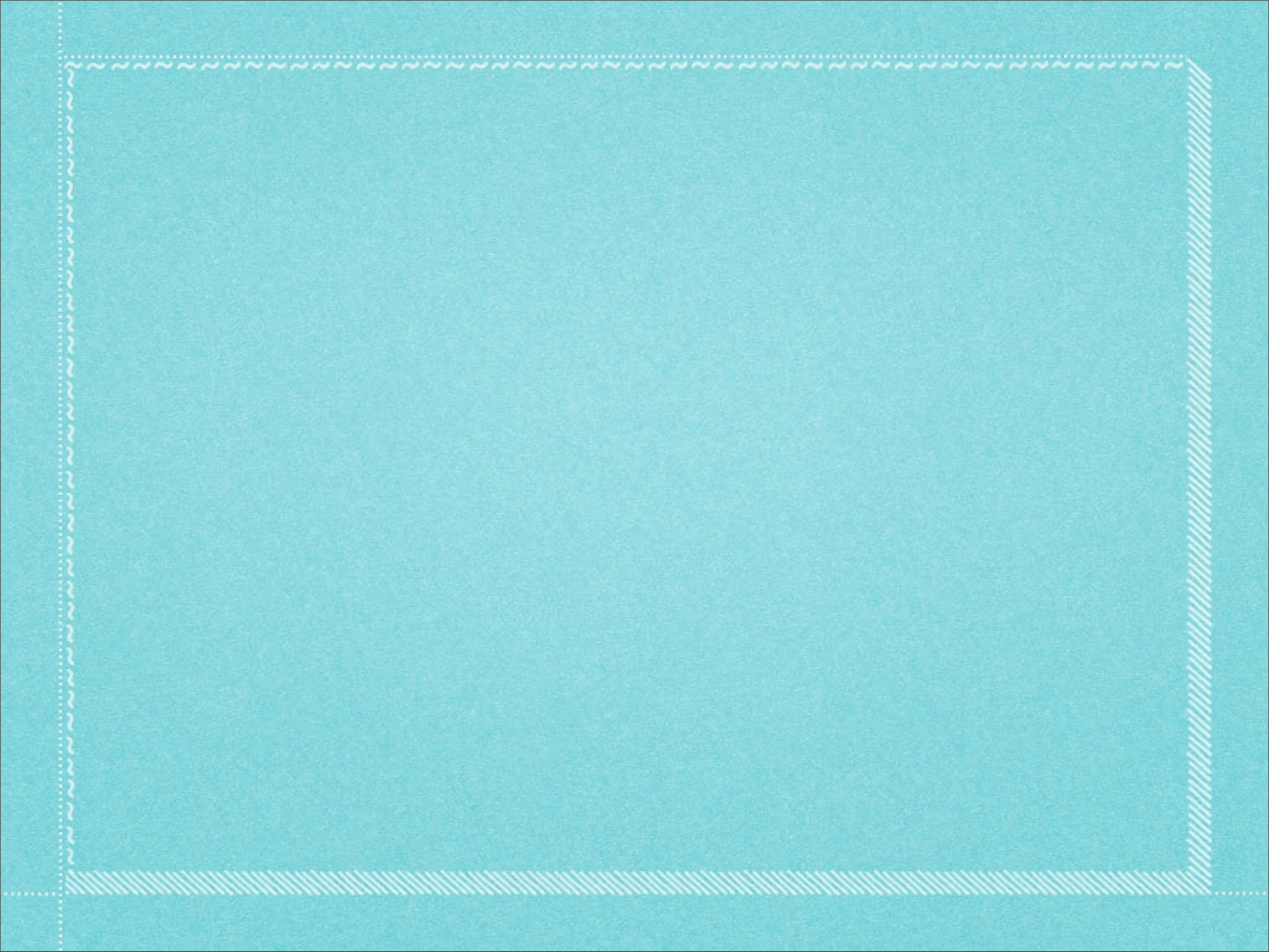
Whom Would She Pick? 她會挑誰呢？



Satin bower bird 緞藍亭鳥



**Jerry
Borgia
U.
Maryland**





王靜瑩与陳威陶拍婚紗照(中華網)

名模王靜瑩拍婚紗照 即將嫁入豪門

台灣名模孫正華被曝秘嫁豪門 夫家身價千億(圖)

<http://news.sina.com> 2008年07月24日 19:51 北京新浪網



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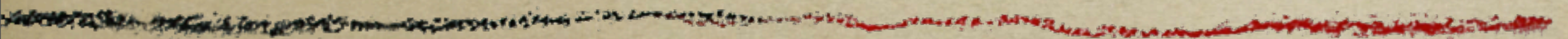
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李嘉欣 許晉亨 豪奢婚禮砸4.3億

2008年11月24日 蘋果日報









The Sexy Son Theory 性感兒子理論



The Sexy Son Theory 性感兒子理論

*...The sight of a feather in a peacock's tail,
whenever I gaze it, makes me sick... (1860, in a
letter to Asa Gray)*



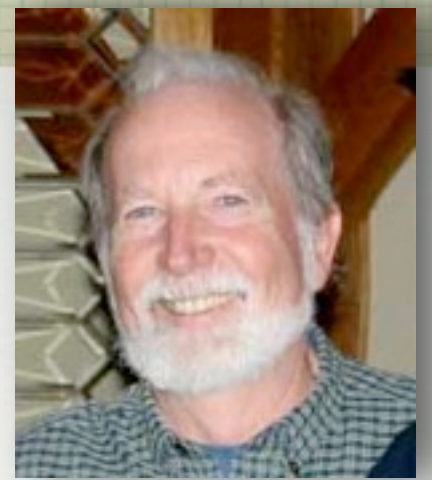
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letter to Asa Gray)*

The Handicap Principle 障礙原則

Call Duration as an Indicator of Genetic Quality in Male Gray Tree Frogs

Allison M. Welch,* Raymond D. Semlitsch, H. Carl Gerhardt



LONG CALLER (L)

(PULSE PER CALL; DURATION)

SHORT CALLER (S)

參數	高食物量	低食物量
蝌蚪成長速度	---	L >> S
蝌蚪期	L >> S	---
變態時體重	---	L >> S
蝌蚪存活率	---	L >> S
變態後成長	---	L >> S

SCIENCE 280: 1828-1929 (1998)





代價？



代價？



Mike Ryan
U.T. Austin

代價？



Mike Ryan
U.T. Austin



代價？



Mike Ryan
U.T. Austin

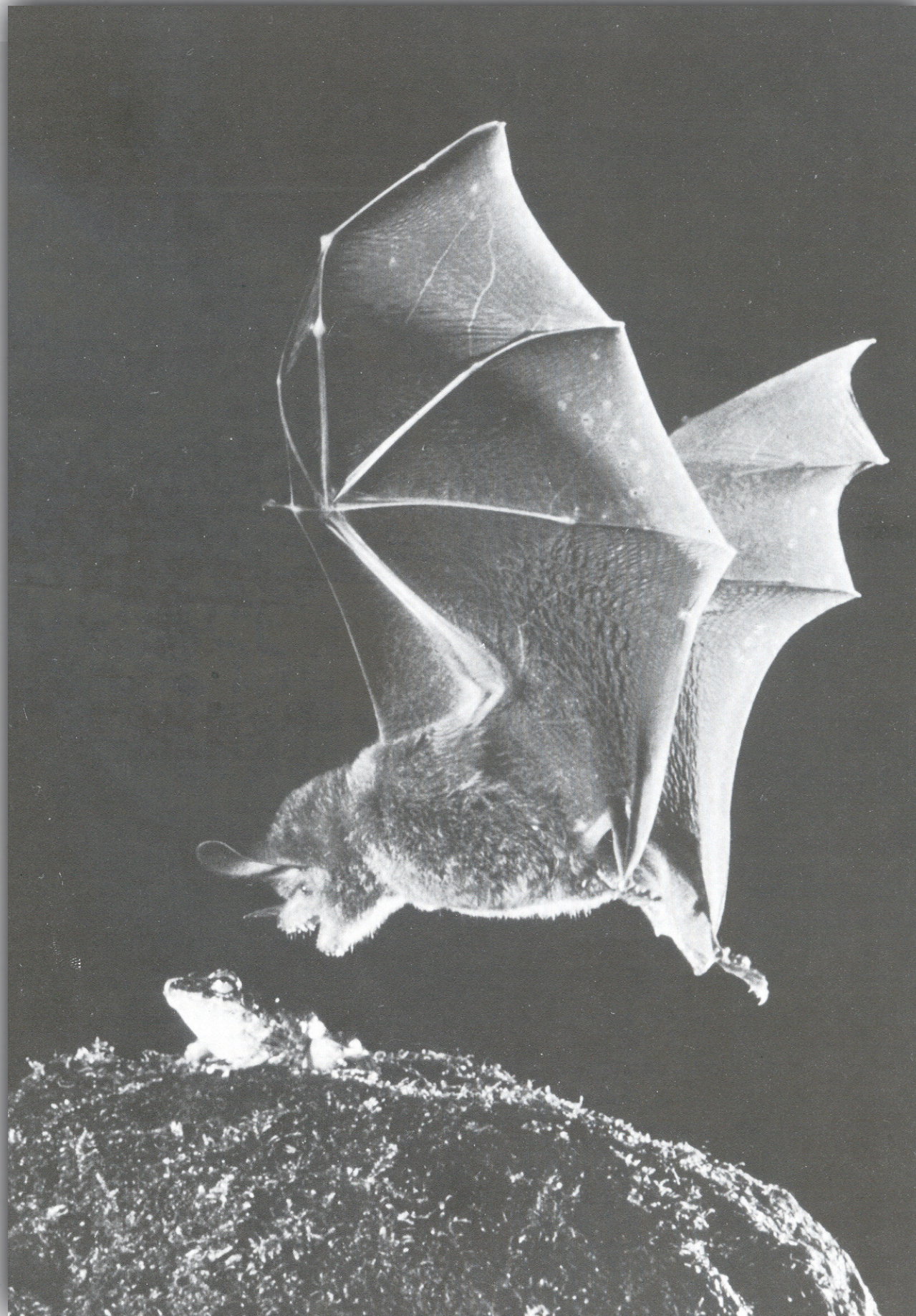


Merlin D. Tuttle

代價？



Mike Ryan
U.T. Austin

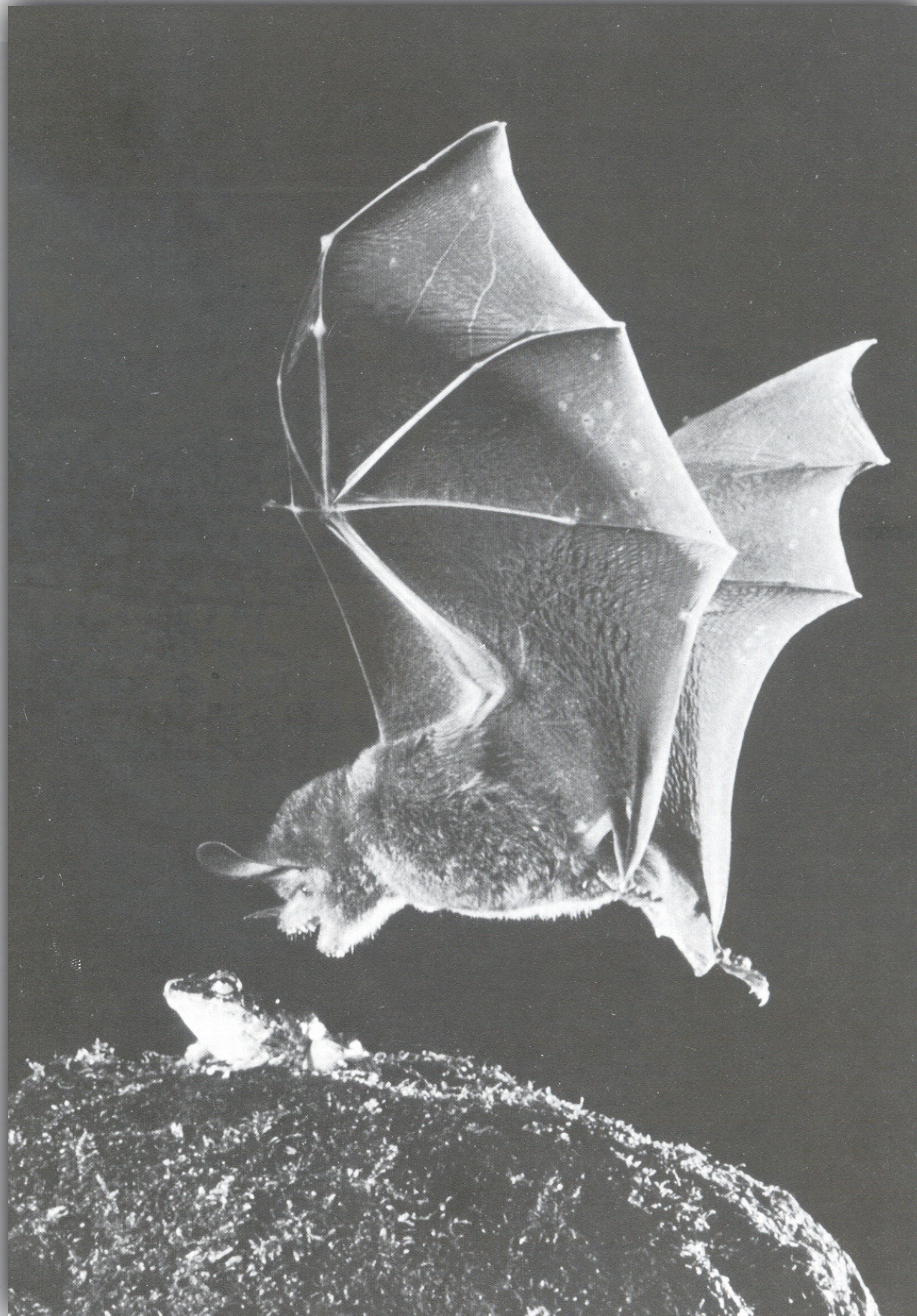


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代價？



Mike Ryan
U.T. Austin



Fringe-lipped bat

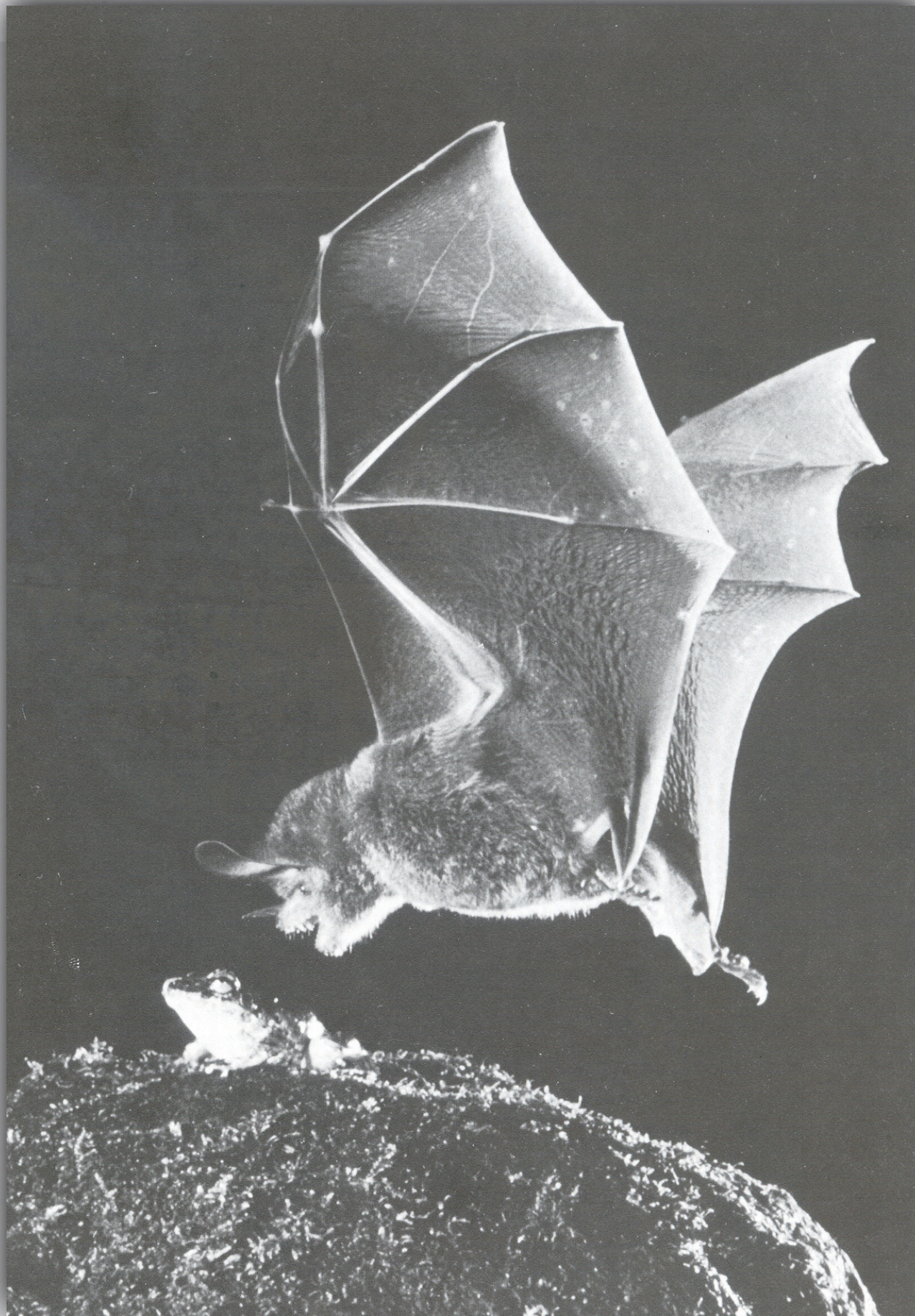


Merlin D. Tuttle

代價？



Mike Ryan
U.T. Austin



Tungara
frog

Fringe-lipped bat

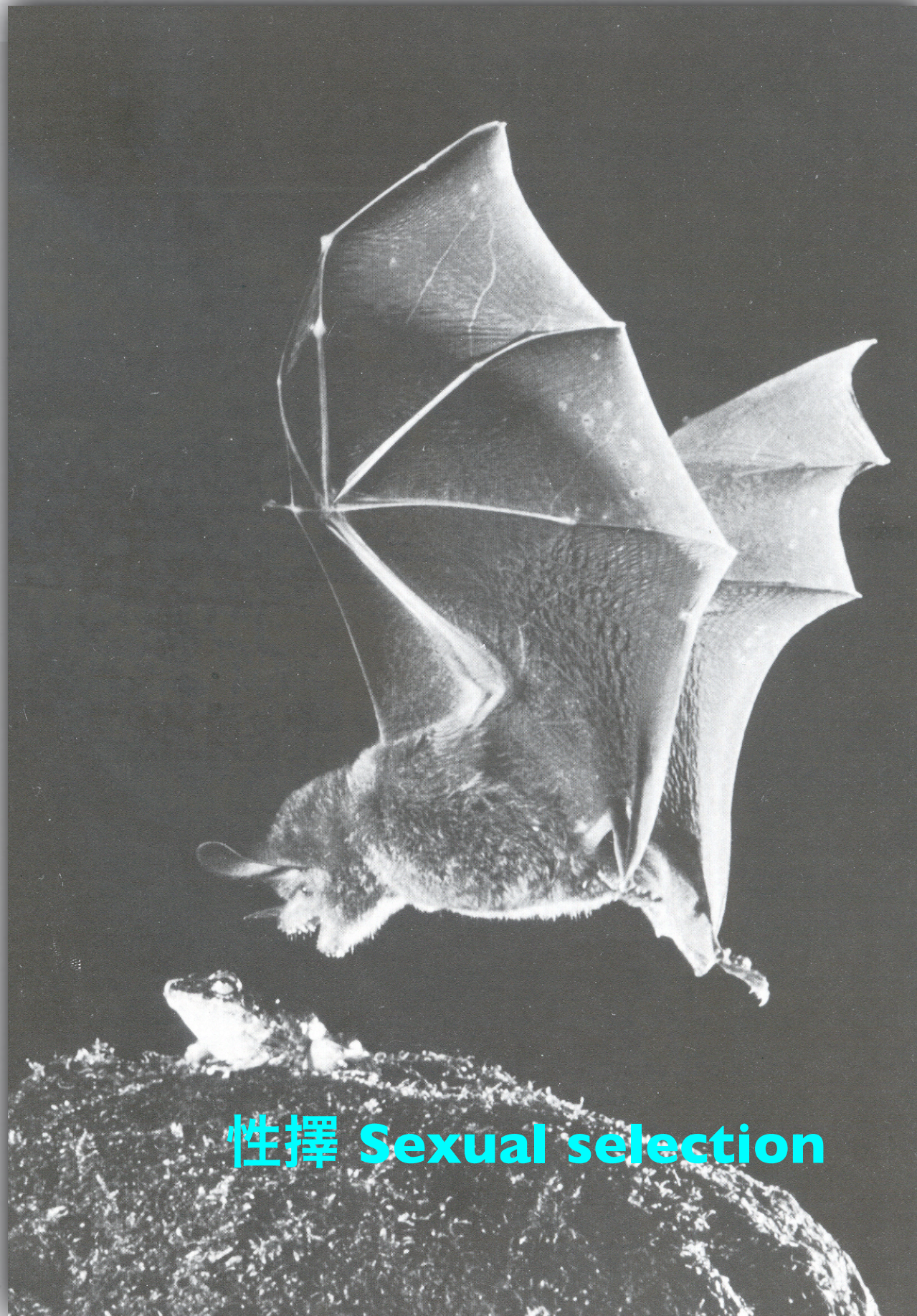


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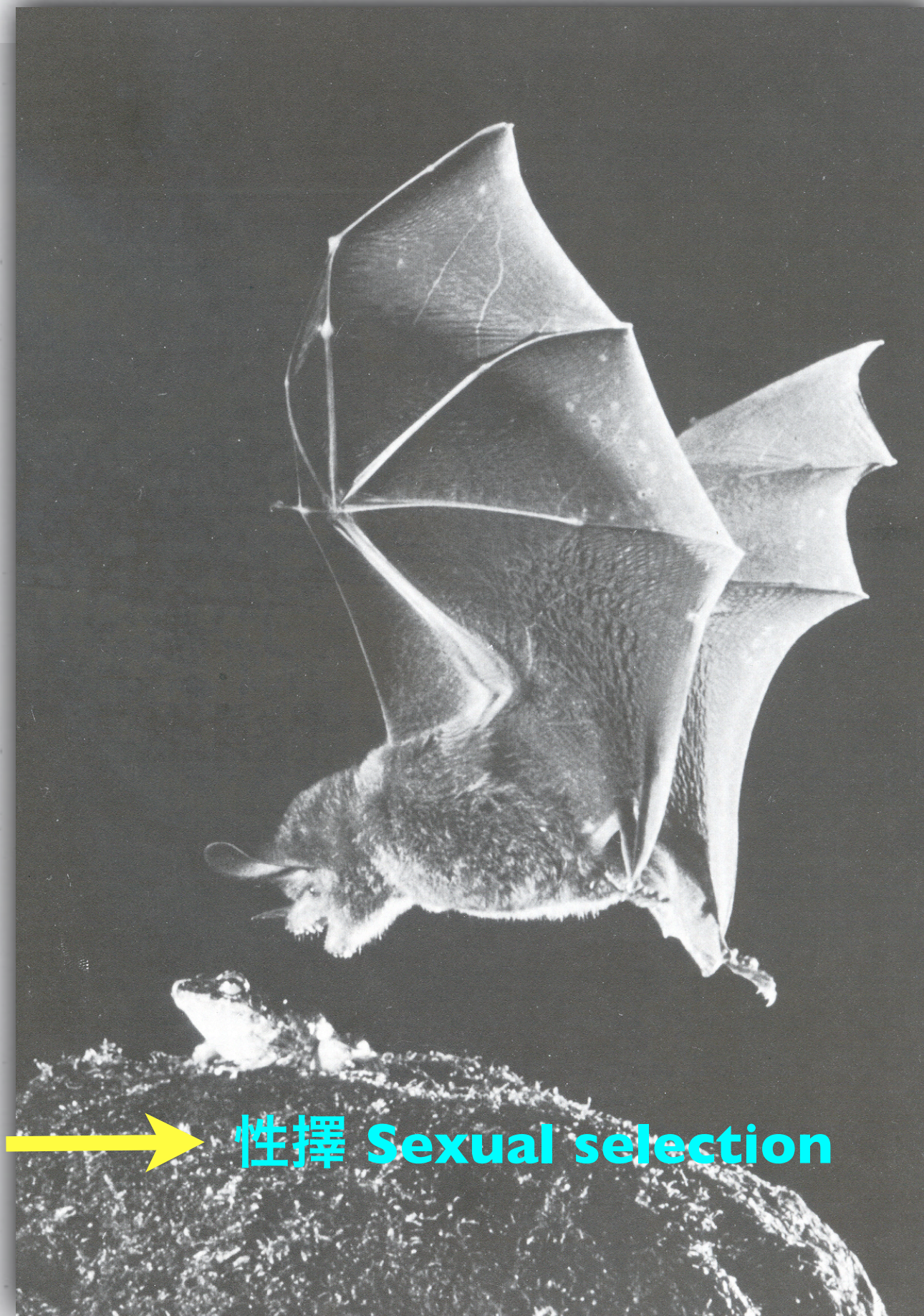


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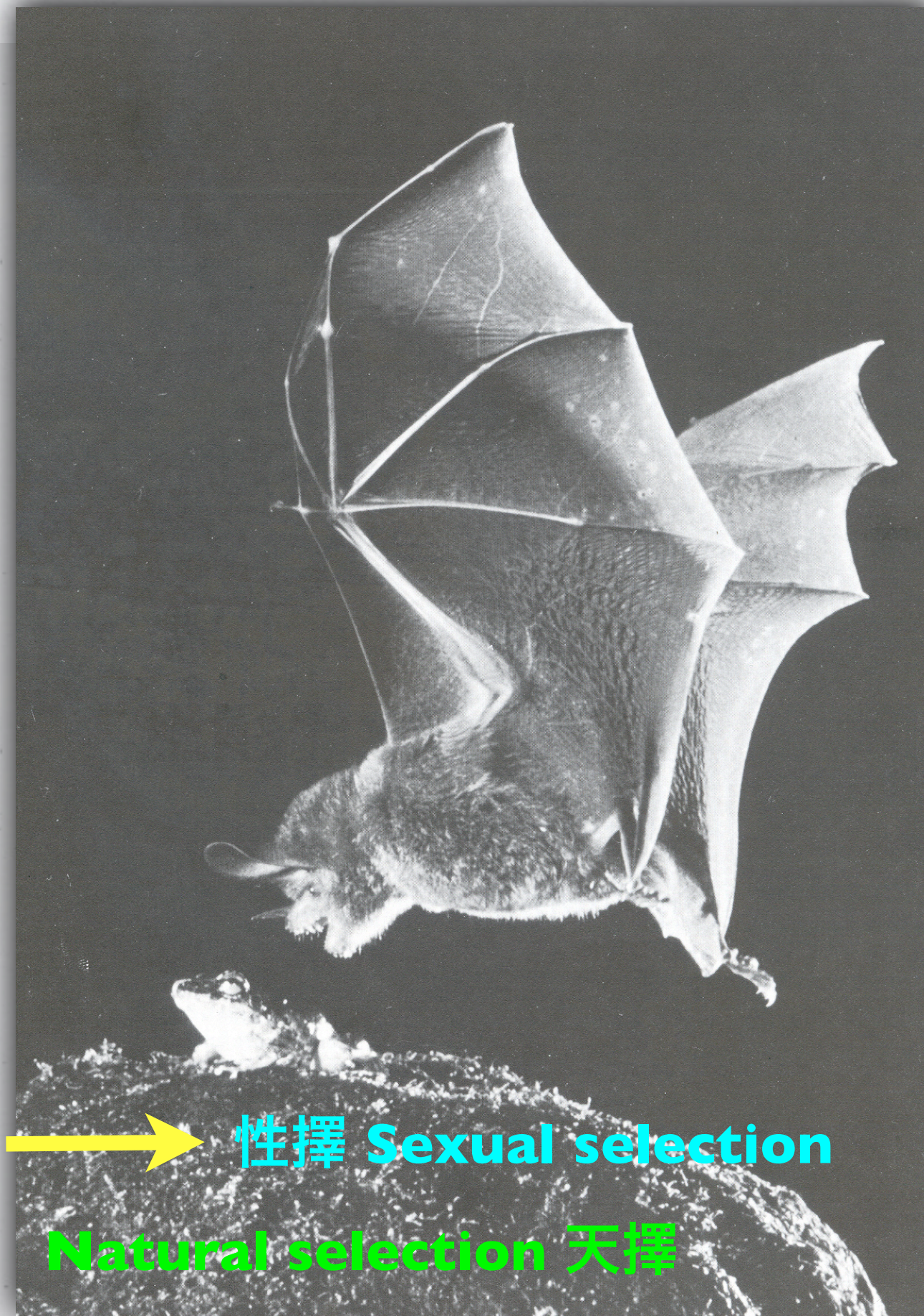


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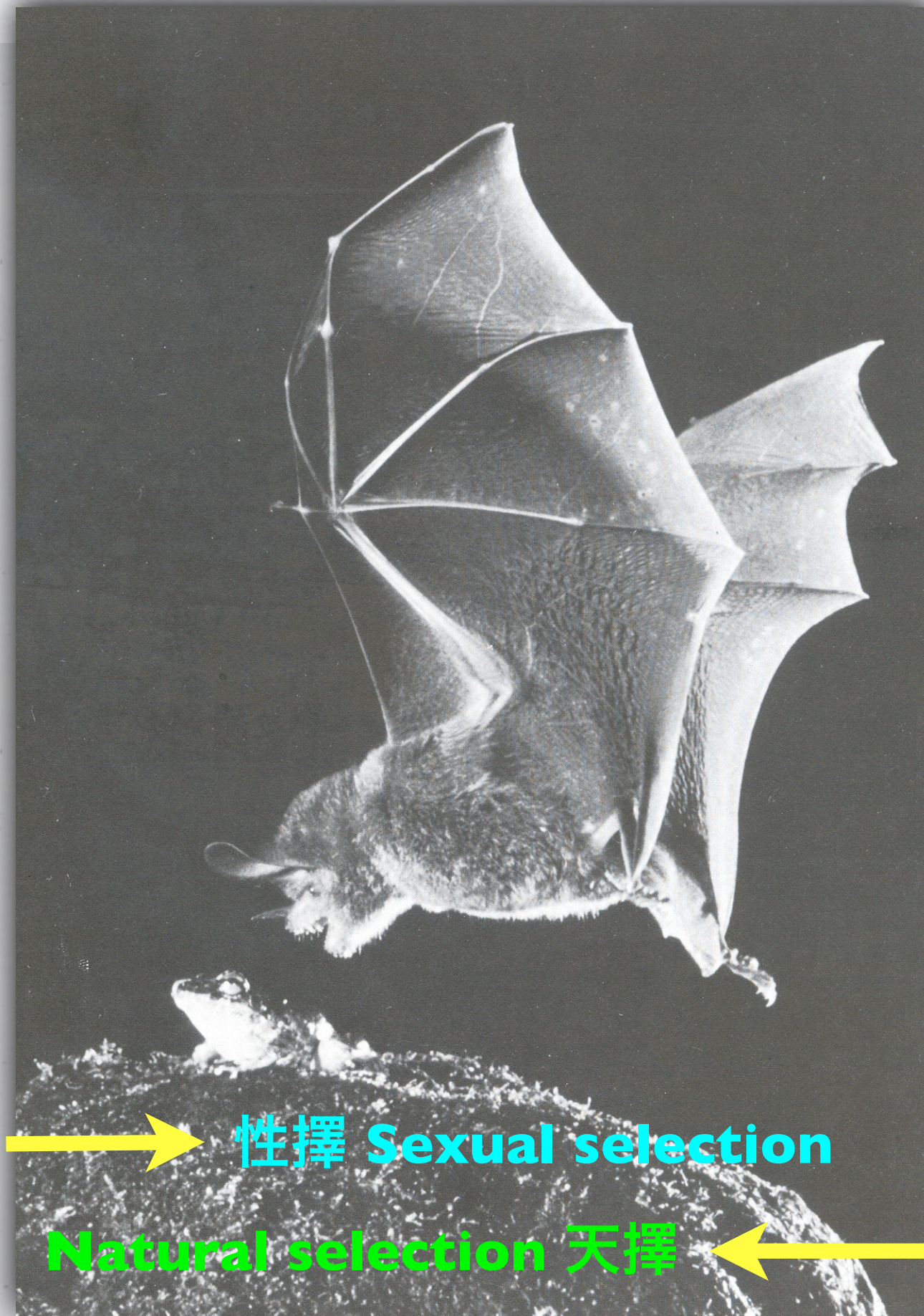


Merlin D. Tuttle

代價？



Mike Ryan
U.T. Austin



Tungara
frog

Fringe-lipped bat



Merlin D. Tuttle

代價？

III. Reproduction

生殖篇

III. Reproduction

生殖篇

3. 交配

Monogamy 一夫一妻



Yellow-billed Hornbill

黃嘴彎嘴犀鳥

Why such a strategy ?



Yellow breasted chat



Yellow breasted chat

黃胸雀



Yellow breasted chat

黃胸雀



Yellow breasted chat

黃胸雀



Yellow breasted chat

黃胸雀



Yellow breasted chat

黃胸雀



Herman Mays

Extra Pair Copulation (EPC) (配偶外交配)

Yellow breasted chat

黃胸雀



Herman Mays

Extra Pair Copulation (EPC) (配偶外交配)

劈腿

Yellow breasted chat

黃胸雀



Herman Mays

Extra Pair Copulation (EPC) (配偶外交配)

劈腿

Yellow breasted chat

黃胸雀



Herman Mays



CleanyLee
<http://cleanylee.blogspot.com>

Extra Pair Copulation (EPC) (配偶外交配)

劈腿

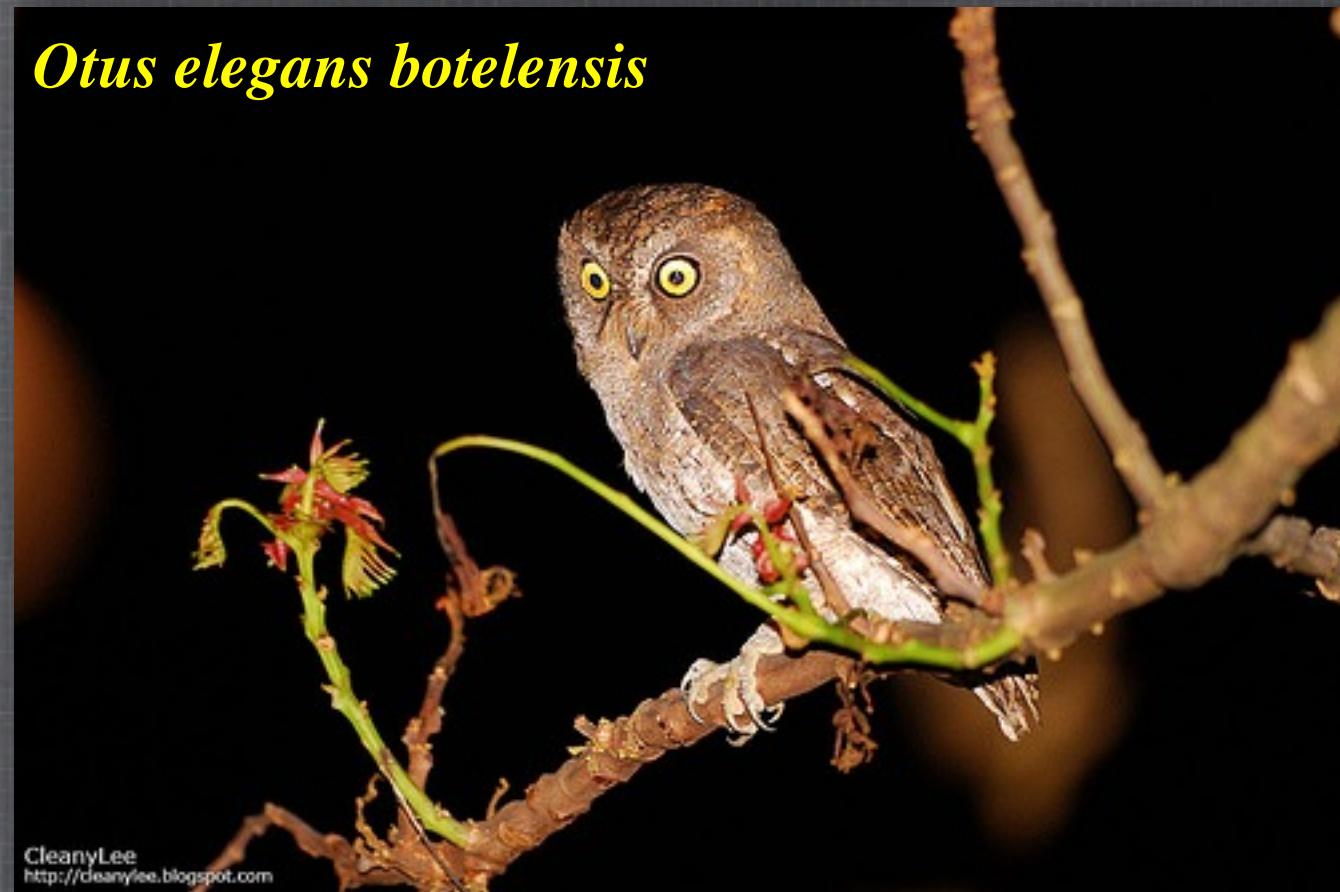
Yellow breasted chat

黃胸雀



Herman Mays

Otus elegans botelensis



Extra Pair Copulation (EPC) (配偶外交配)

劈腿

Yellow breasted chat

黃胸雀



Herman Mays

Otus elegans botelensis

蘭嶼角鴉



Polygyny 一夫多妻

橘臀導蜂鳥



Nepal

Orange-rumped honeyguide *Indicator xanthonotus*
1:18 (beewax; raiding bee nests; limited resource)



Marsh wren
(*Troglodytes palustris*)

沼澤鷦鷯

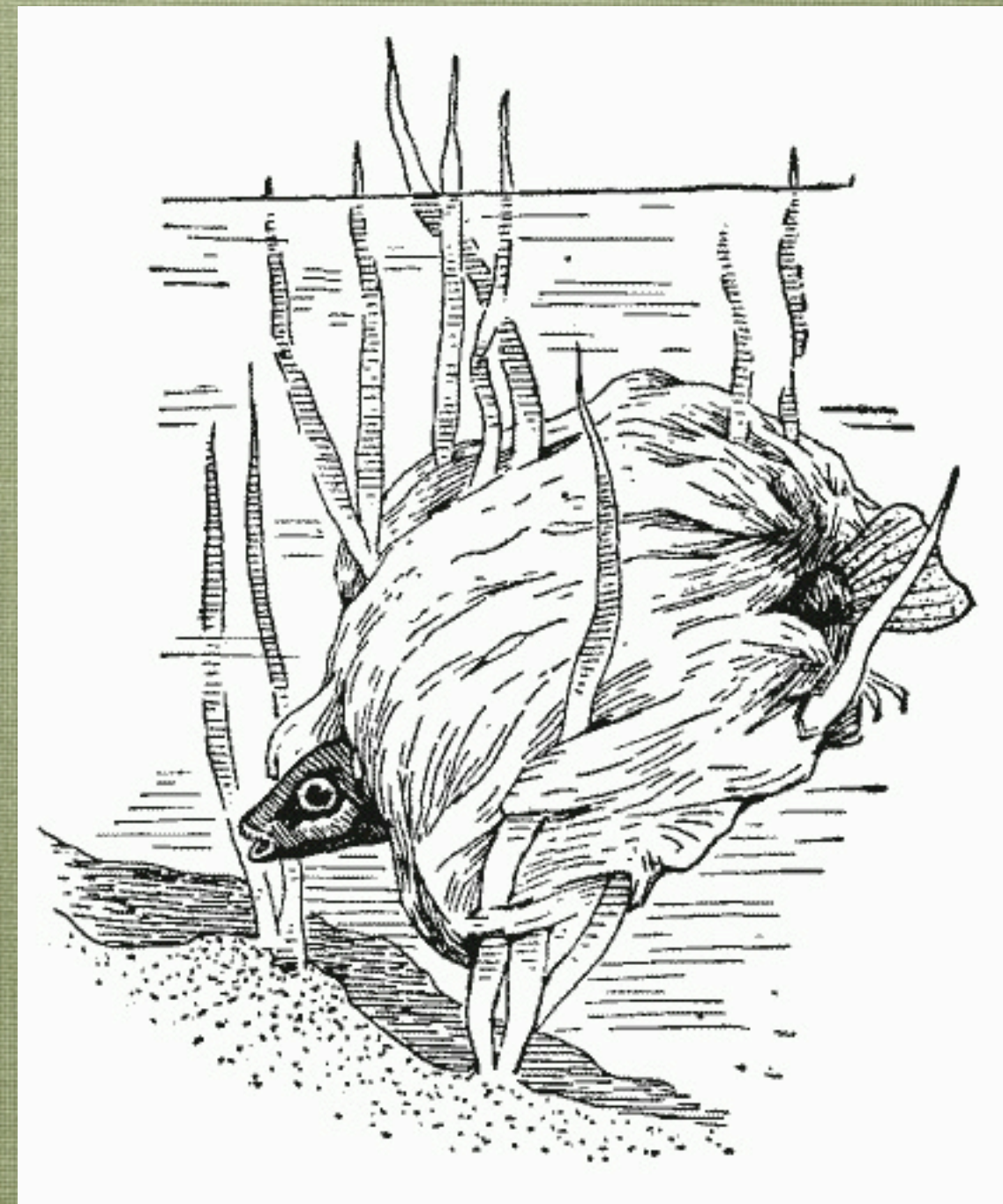
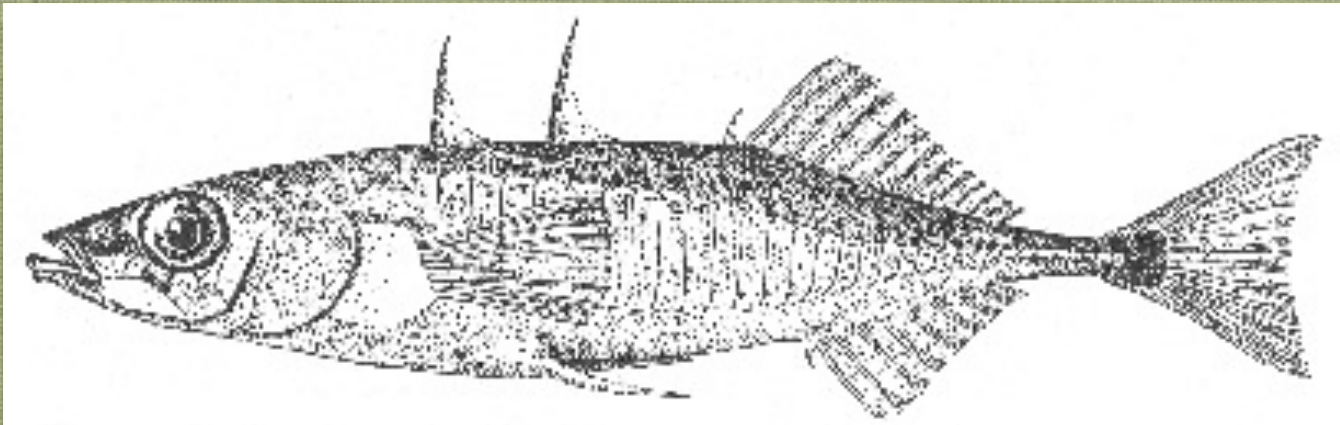
Up to 25 nests



Three spine stickleback

Gasterosteus aculeatus

三刺棘魚



Harem 妻妾群



Sea lion harem in Alaska
阿拉斯加海獅



American wild horse

美國西部野馬



Polyandry 一妻多夫



American Jacana (*Jacana spinosa*)

美州水雉

In Costa Rica, up to 4 males, each incubates his clutch eggs in floating nest; females are 50-75% heavier than males

Wilson's Phalarope (*Phalaropus tricolor*)



Females compete to attract males. North America.

威爾森氏瓣蹼鷸

Group Sex 轟趴



Coral reef spontaneous spawning

星點東方魨

Fugu niphobles







誰給了最貼切的描述？



誰給了最貼切的描述？

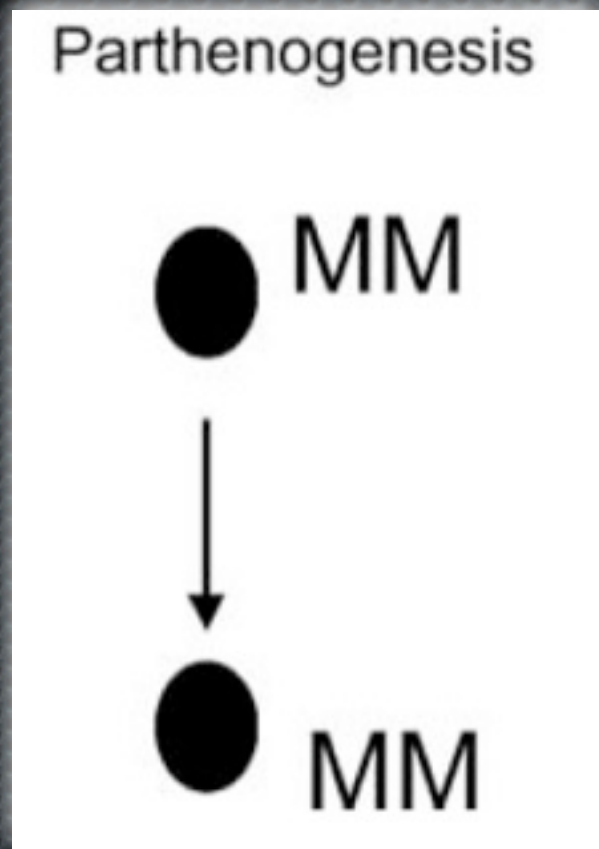


"妳看到母青蛙交配時，牠的背上不是有兩三隻公青蛙，妳有看見牠們在打架嗎..."

誰給了最貼切的描述？

Parthenogenesis 孤雌生殖

Whiptail Lizard 鞭尾蜥蜴 (*Cnemidophorus dixonii*)



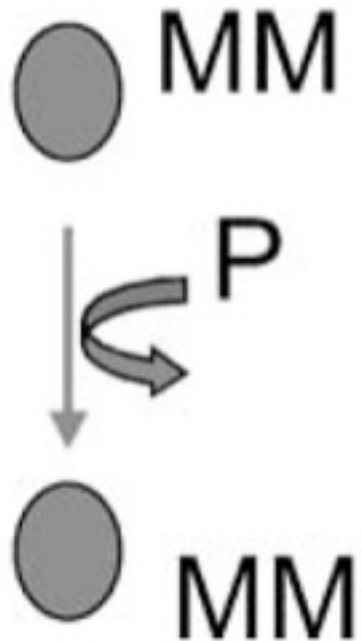
David Crews
UT Austin

Pseudo-copulation 假性交

Texas silver side (*Menedia clarkhubbsi*)

德州銀邊魚

Gynogenesis



Texas silver side (*Menedia clarkhubbsi*)

德州銀邊魚

Gynogenesis

雌核生殖



MM



MM



Clark Hubbs



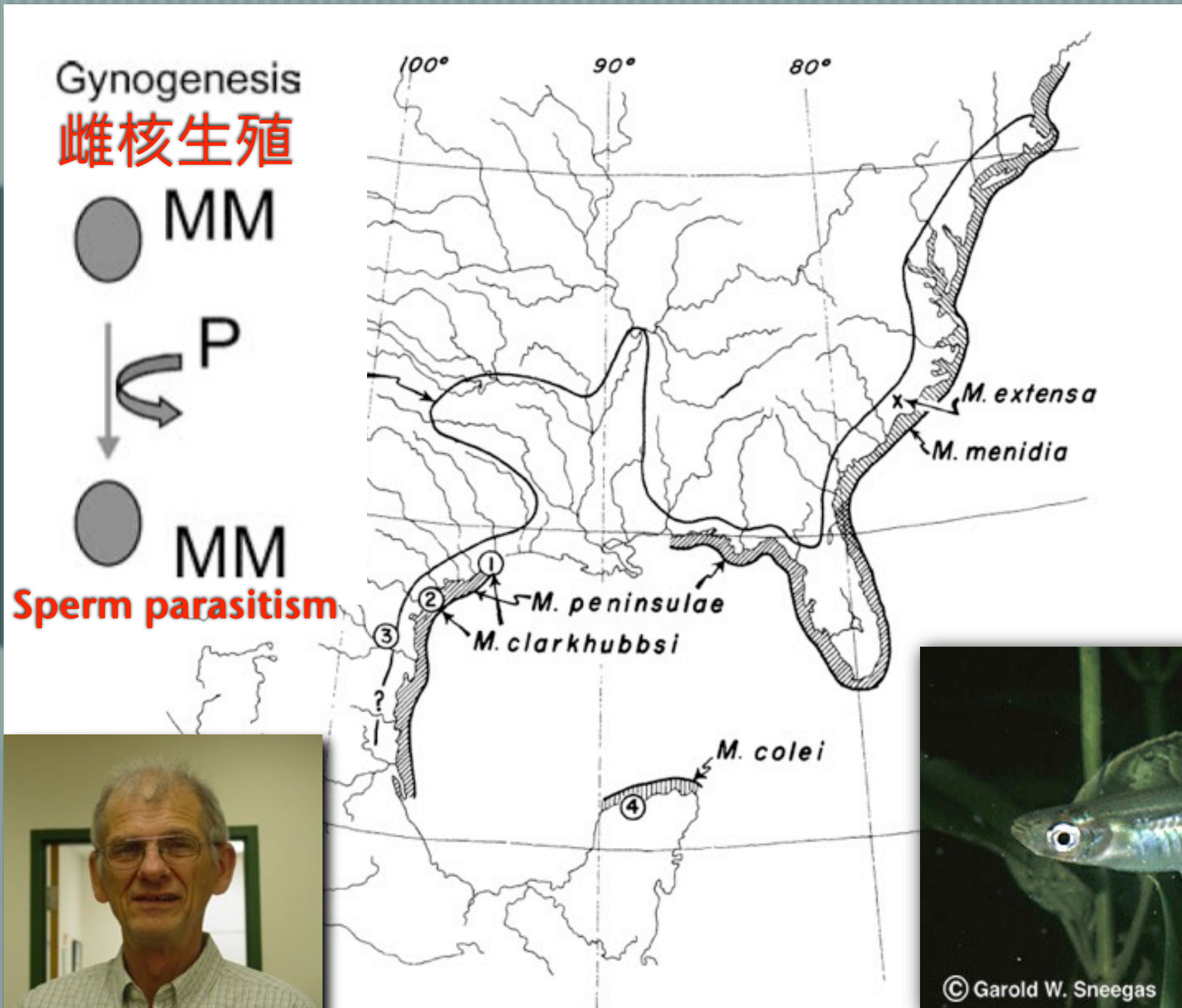
Anthony Echelle



© Garold W. Sneegas

Texas silver side (*Menedia clarkhubbsi*)

德州銀邊魚



Anthony Echelle



Hybridogenesis

雜核生殖

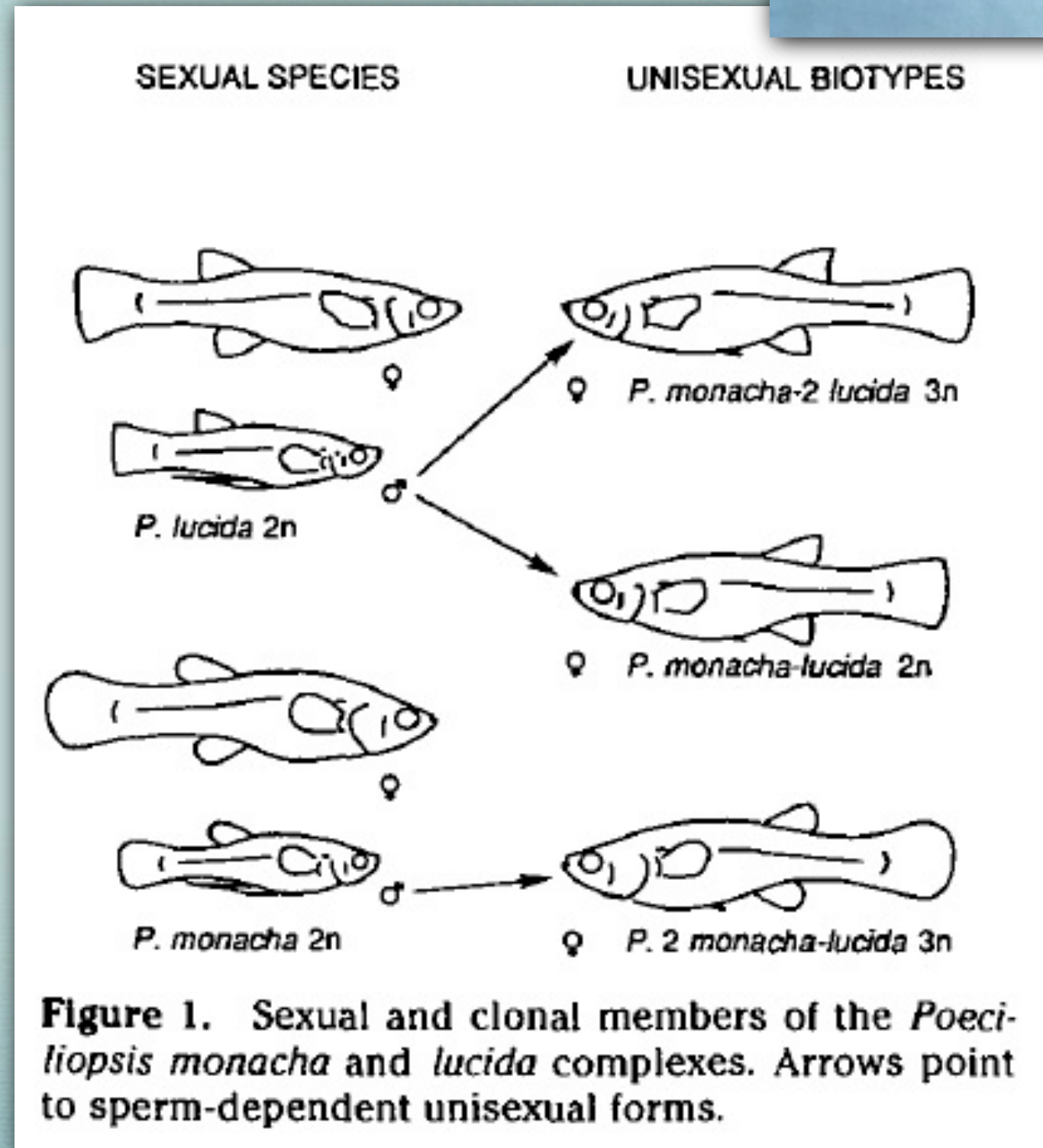
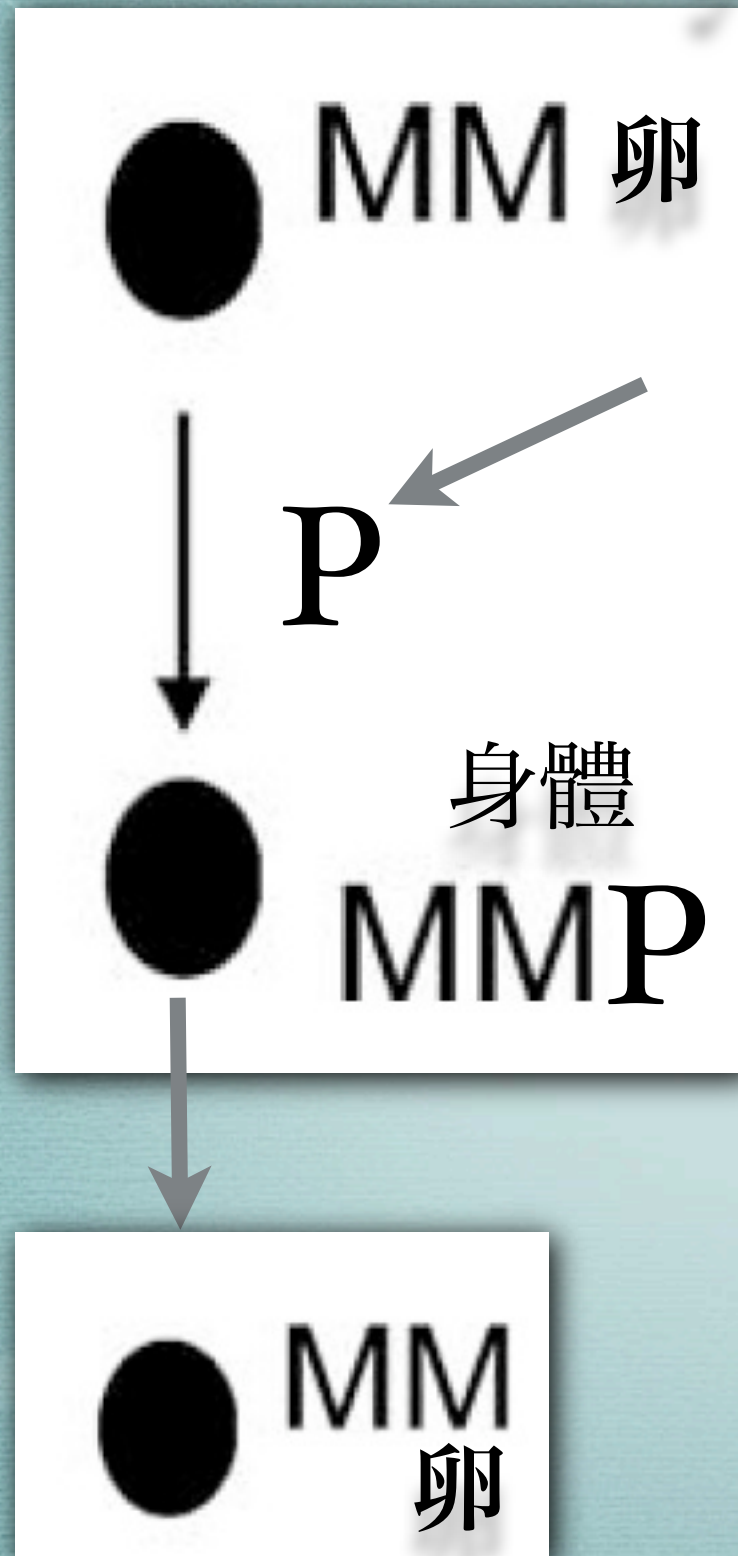


Figure 1. Sexual and clonal members of the *Poeciliopsis monacha* and *lucida* complexes. Arrows point to sperm-dependent unisexual forms.

SEX REVERSAL 性轉變

Protogynous fish: females to males



石斑



隆頭魚

先雌後雄



鸚哥魚

Protandrous fish: males to females



嘉臘 (*Pagrus major*)

先雄後雌



黃背寬刻齒雀鯛



眼斑海葵魚

Alternative Mating System 替代生殖策略

南瓜子太陽魚

Pumpkinseed sunfish (*Lepomis gibbosus*)



Mart Gross
U. Toronto

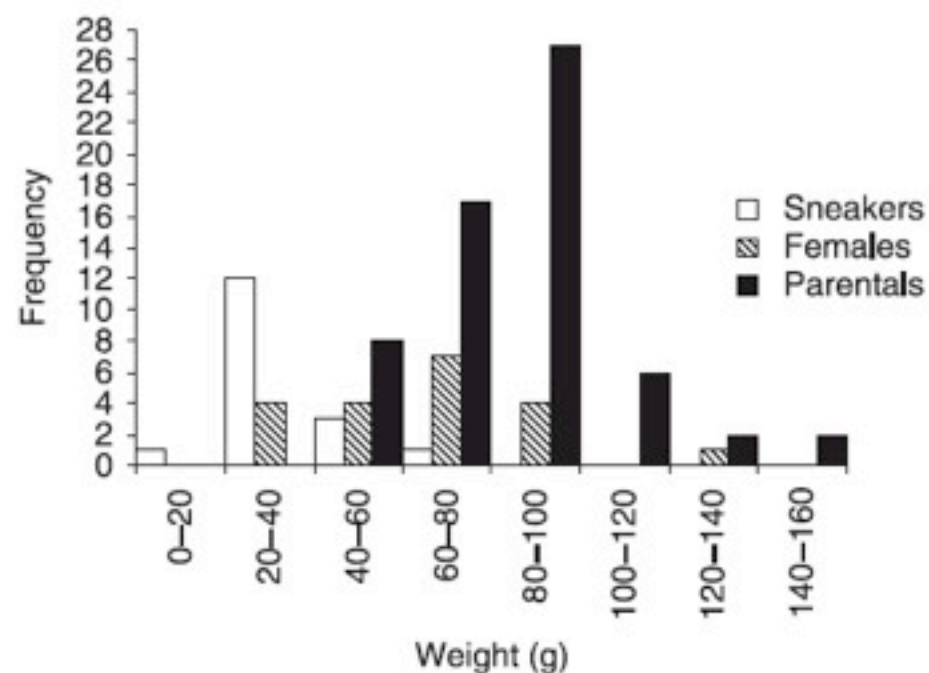
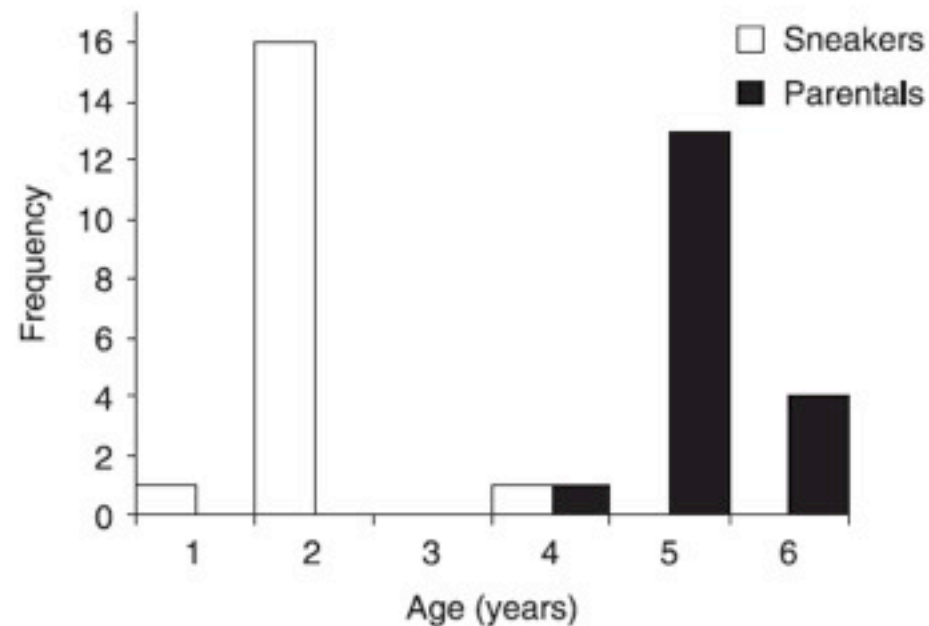


Fig. 1 Age distribution for sneaker and parental males (above) and weight distribution for sneakers, females and parental males (below) in Lincoln Pond.

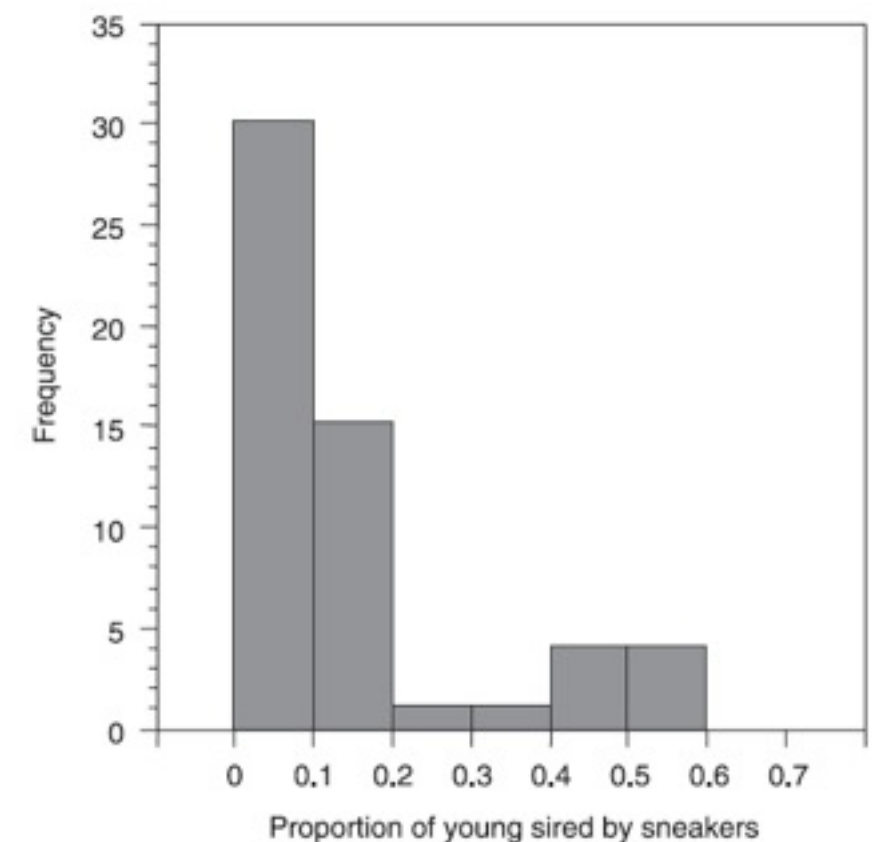


Fig. 3 Histogram showing the variation in proportion of young sired by sneaker males in the 55 sampled nests.

Alternative Mating System 替代生殖策略

“娘男”策略(Sneaker)

南瓜子太陽魚

Pumpkinseed sunfish (*Lepomis gibbosus*)



Mart Gross
U. Toronto

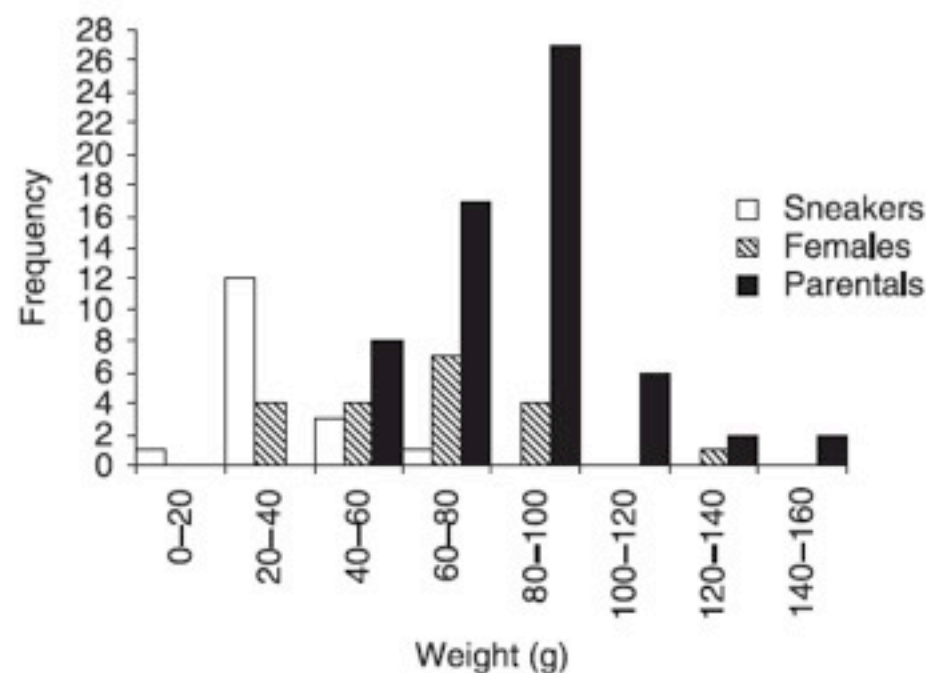
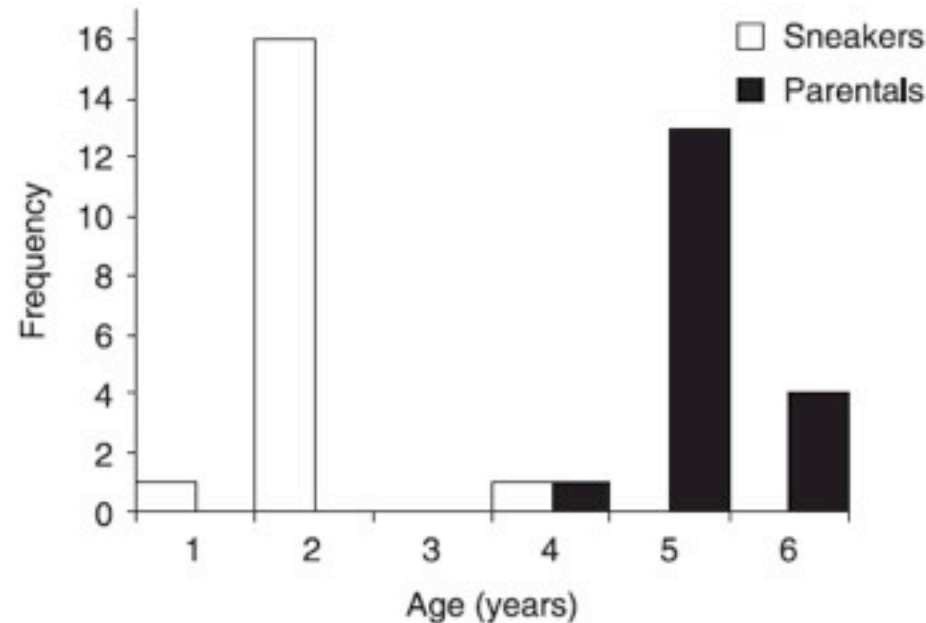


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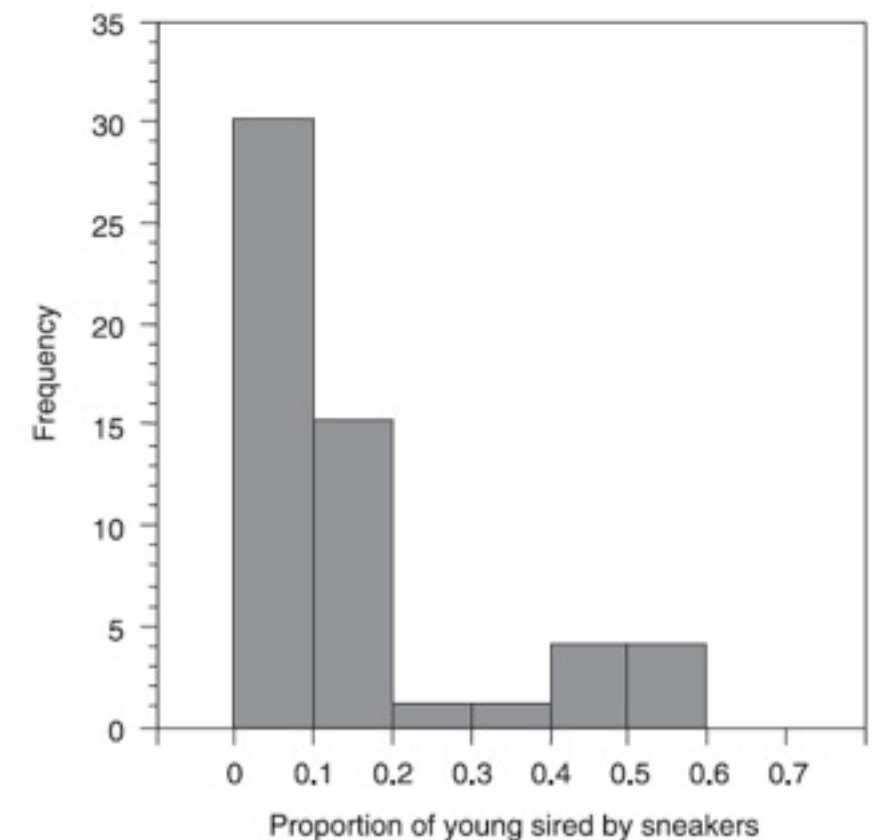


Fig. 3 Histogram showing the variation in proportion of young sired by sneaker males in the 55 sampled nests.

PM

SM



F

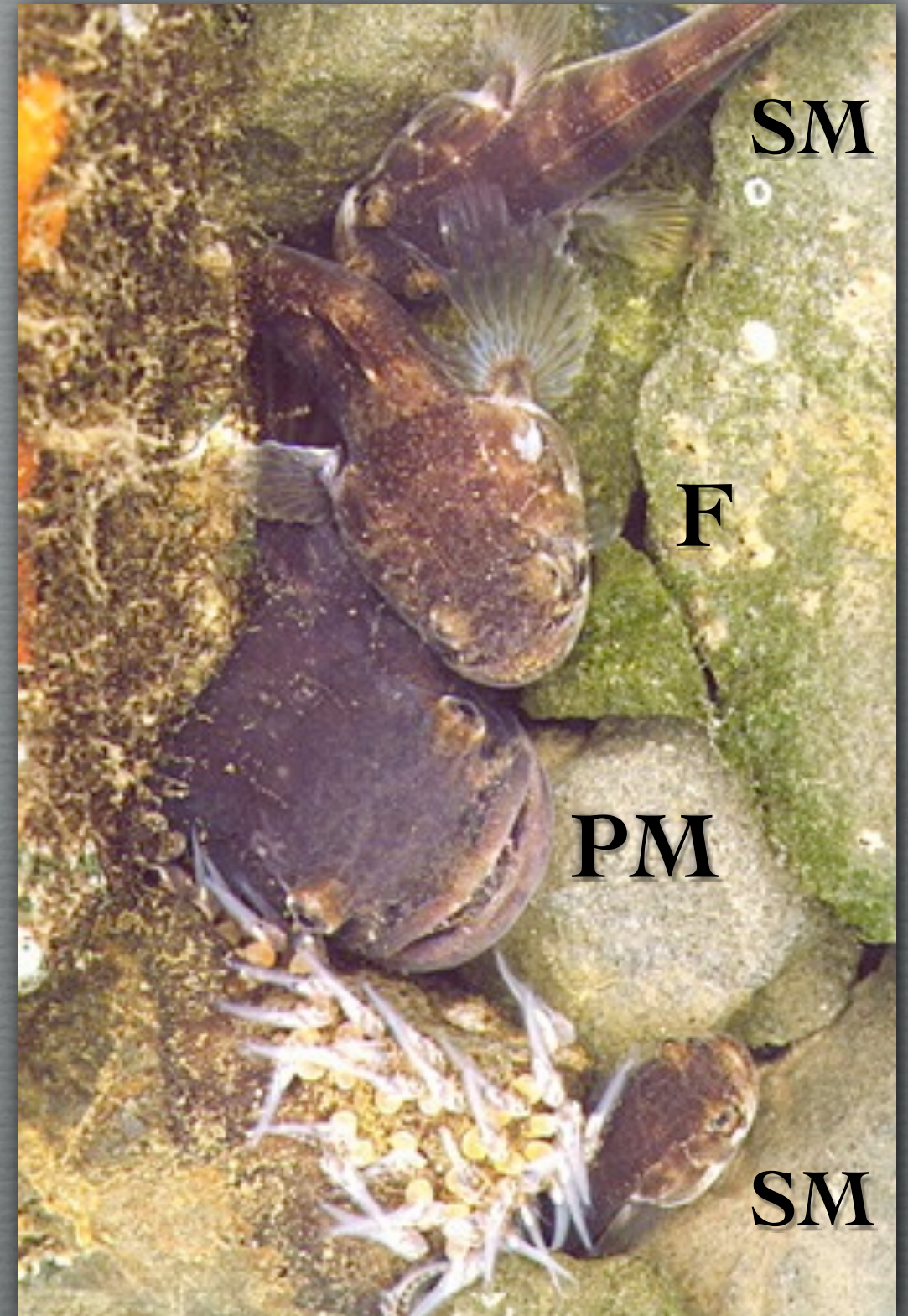
Midshipman fish

Porichthys notatus

海軍官校學生魚



Andy Bass
Cornell U.



SM

F

PM

SM

Ways of Fertilization

授精方式

External 體外授精

Internal 體內授精

Ways of Fertilization

授精方式

External 體外授精

Internal 體內授精

即將播放限制級照片
請十八歲以下學生用下列方式聽講

Ways of Fertilization

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External 體外授精

Internal 體內授精

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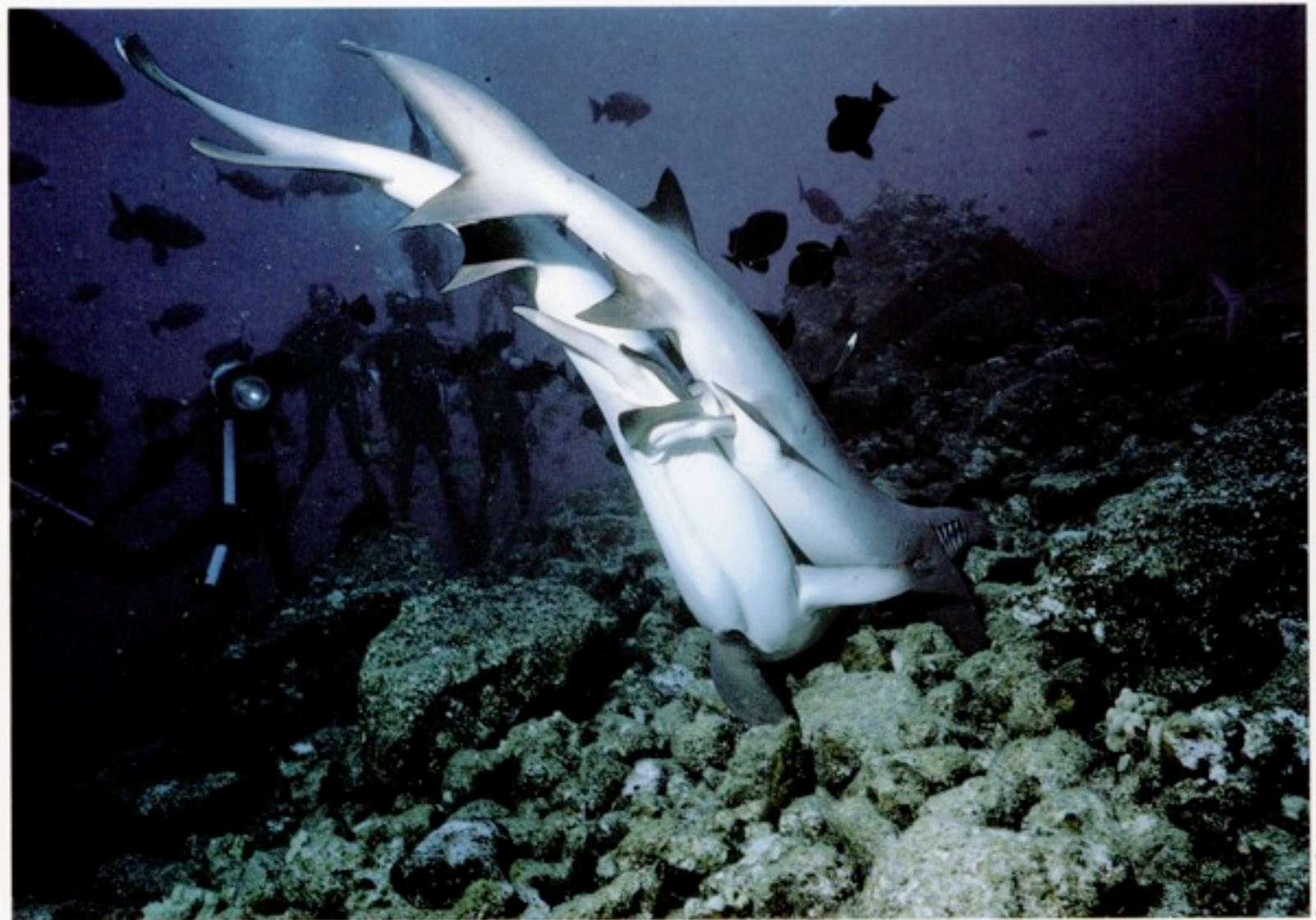
Ways of Fertilization

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Ways of Fertilization

授精方式

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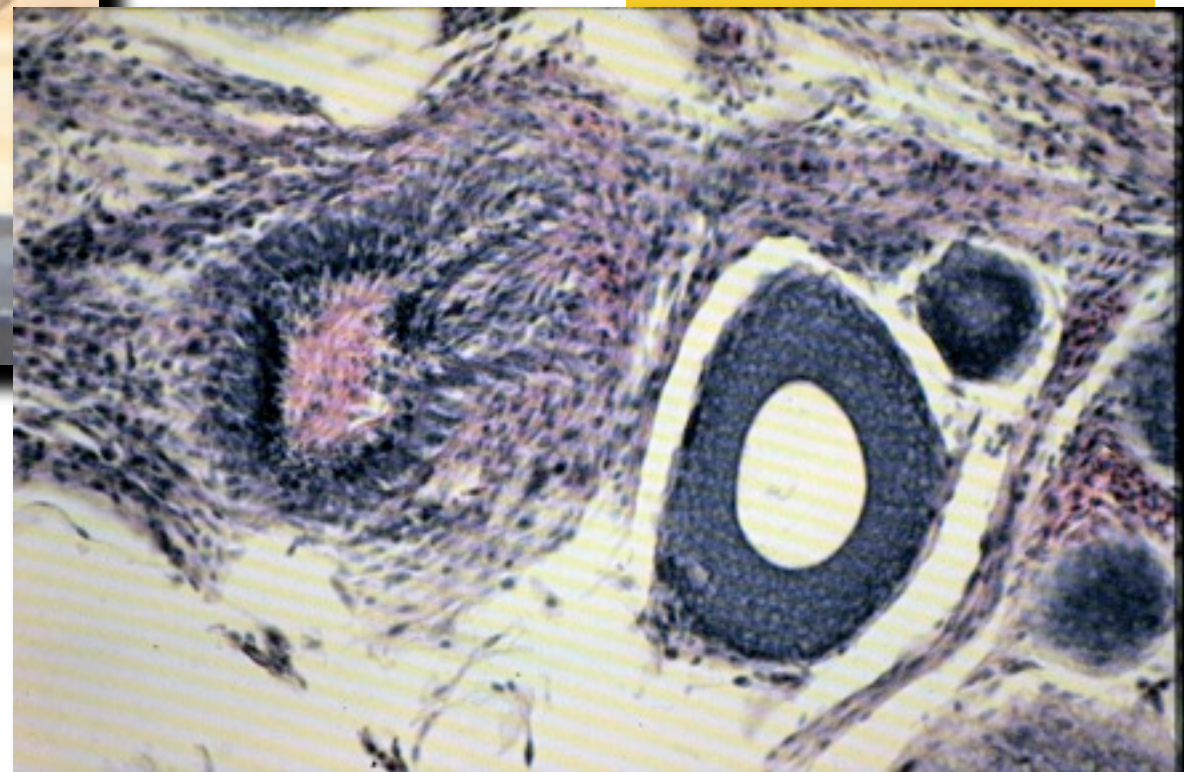


Sperm storage 精子儲藏



Clear Creek gambusia
Gambusia heterochir

清溪大肚魚



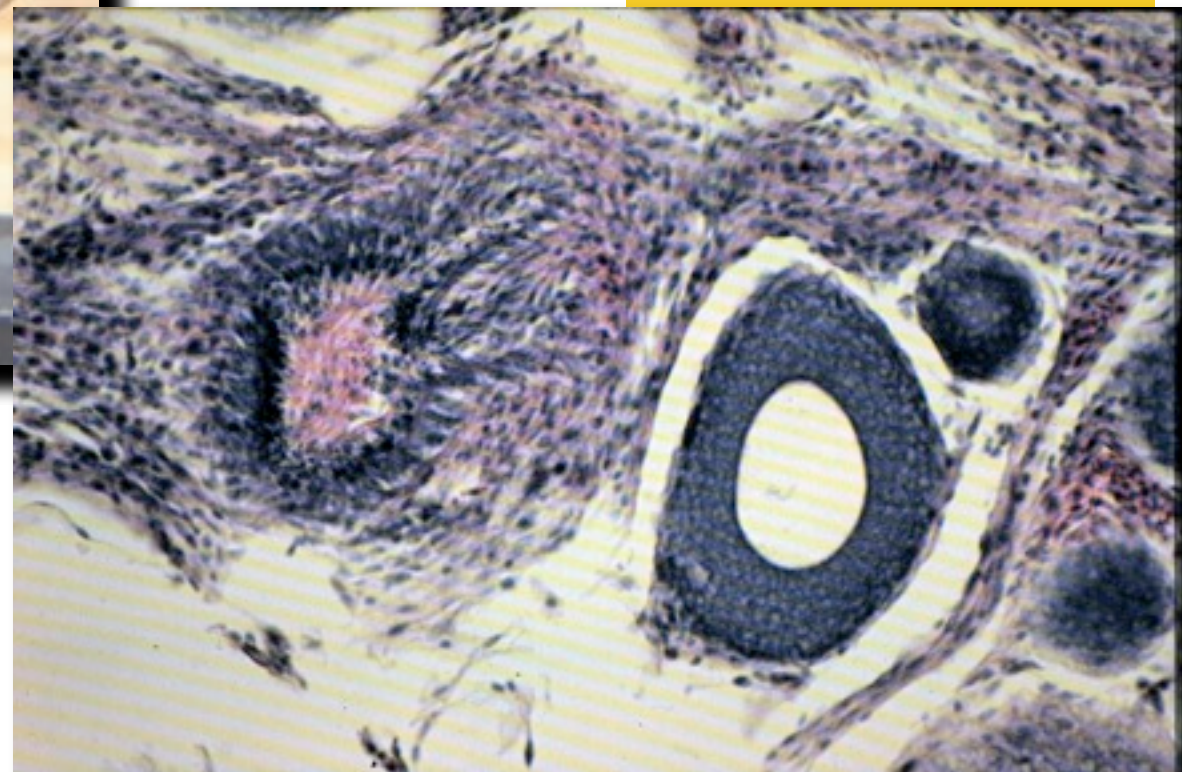
Sperm storage 精子儲藏



Clear Creek gambusia
Gambusia heterochir

清溪大肚魚

商機？



Sperm competition 精子競爭



Richardson's Ground Squirrels
(also known as gophers)

地鼠



Sperm plug
交尾栓

4. 育幼篇

No parental care 無親子照顧



Tierney Thys

Ocean
sunfish
翻車魚

300 M. eggs



Parental care 親子照顧



鯨鯊

300 embryos



10.6 m; 16 ton

1995.7.20



Brood Care



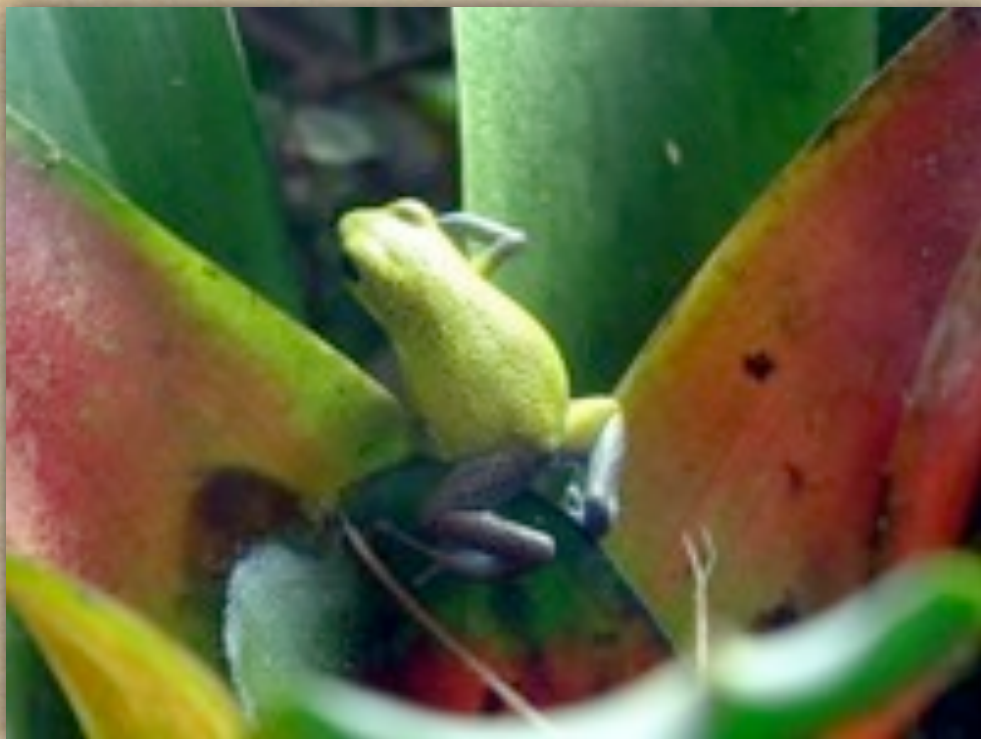
Blue poison dart frog
(*Dendrobates azureus*)



Blue jean frog (*D. pumilio*)



毒箭蛙



Bromeliad

觀賞鳳梨



Paternal care 雄性育幼

半線天竺鯛 (*Apogon semilineatus*)

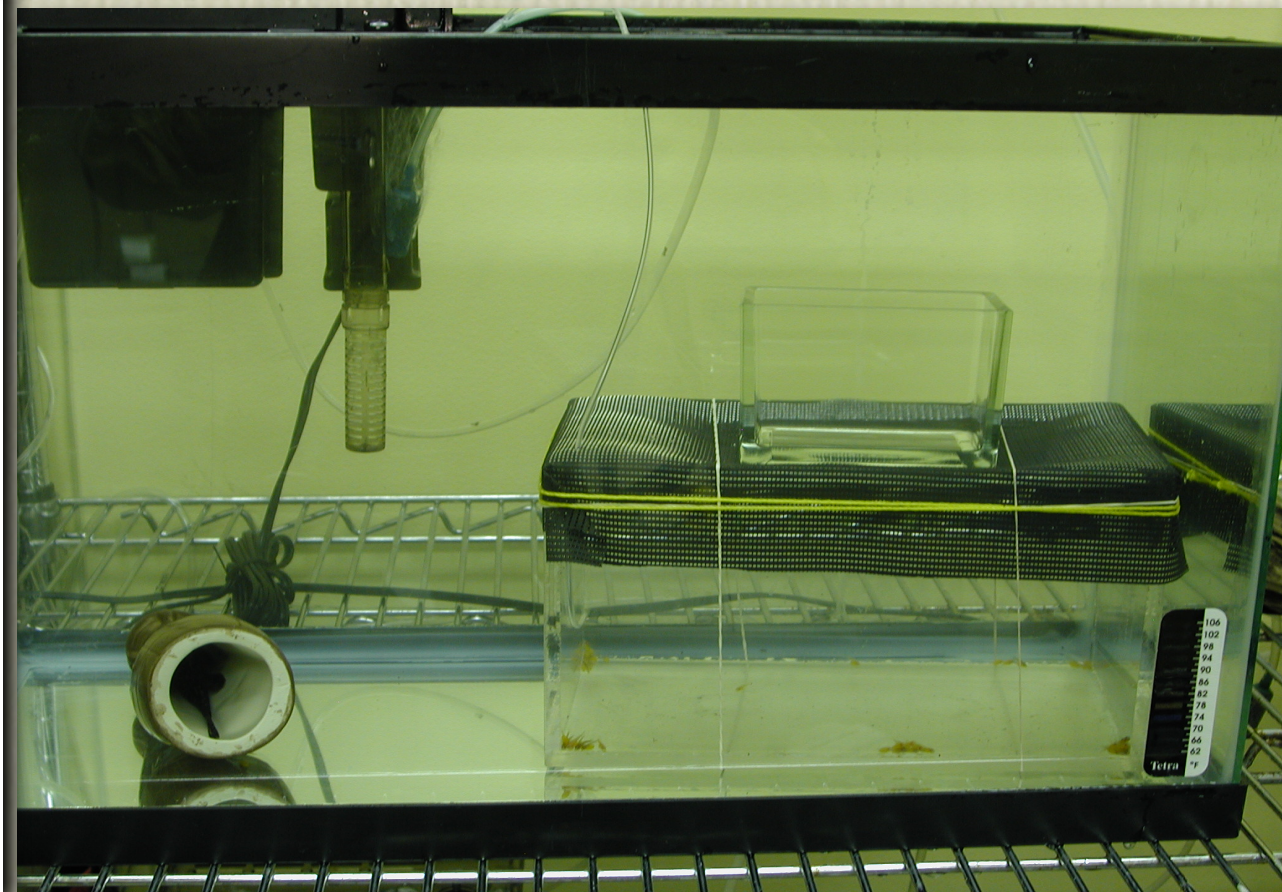
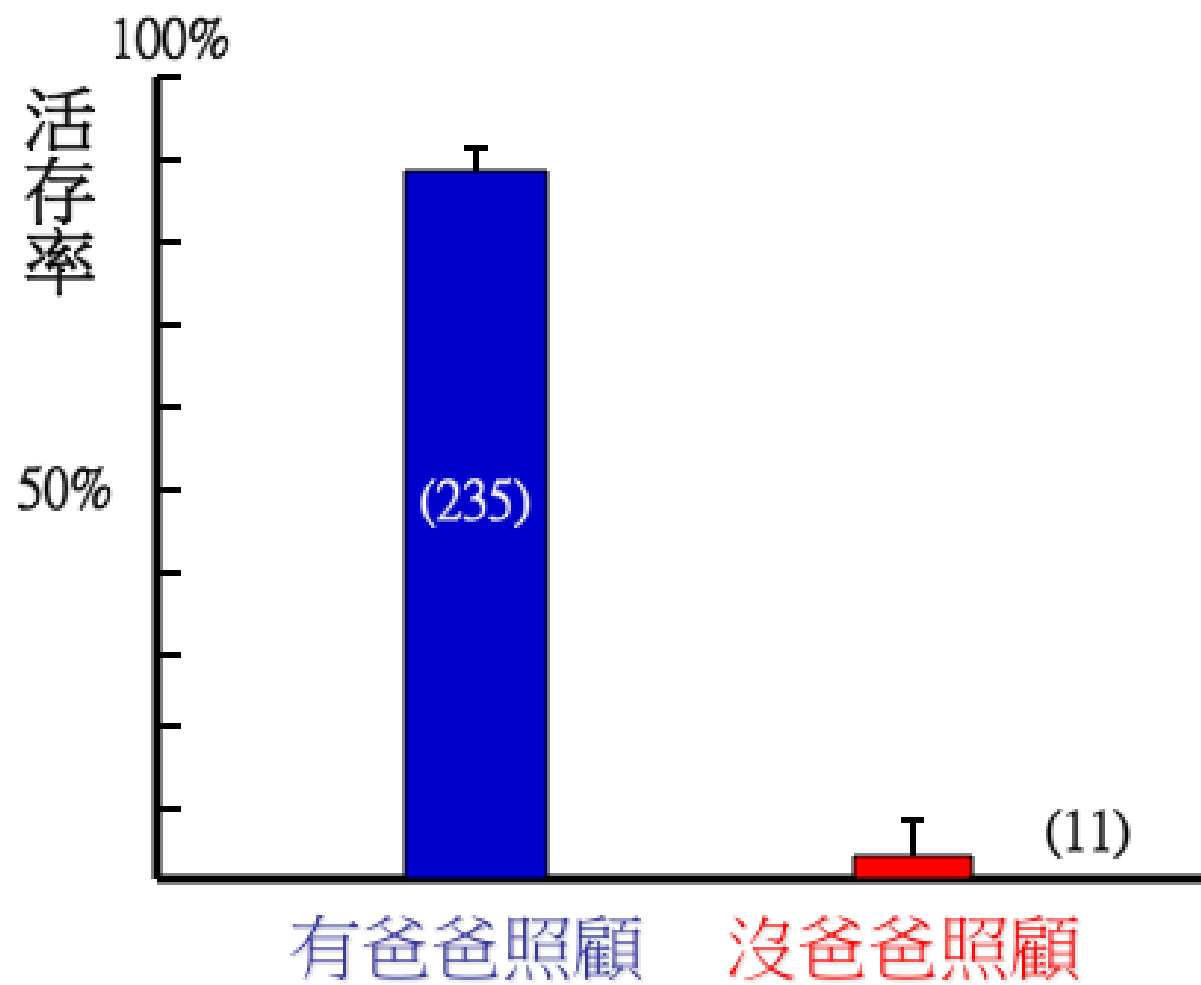
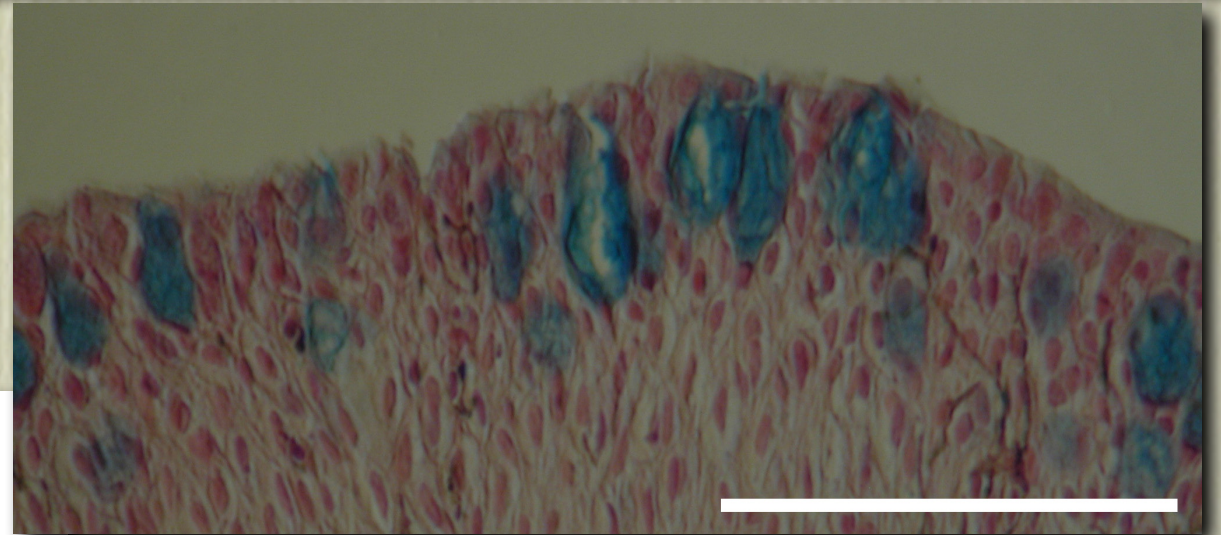
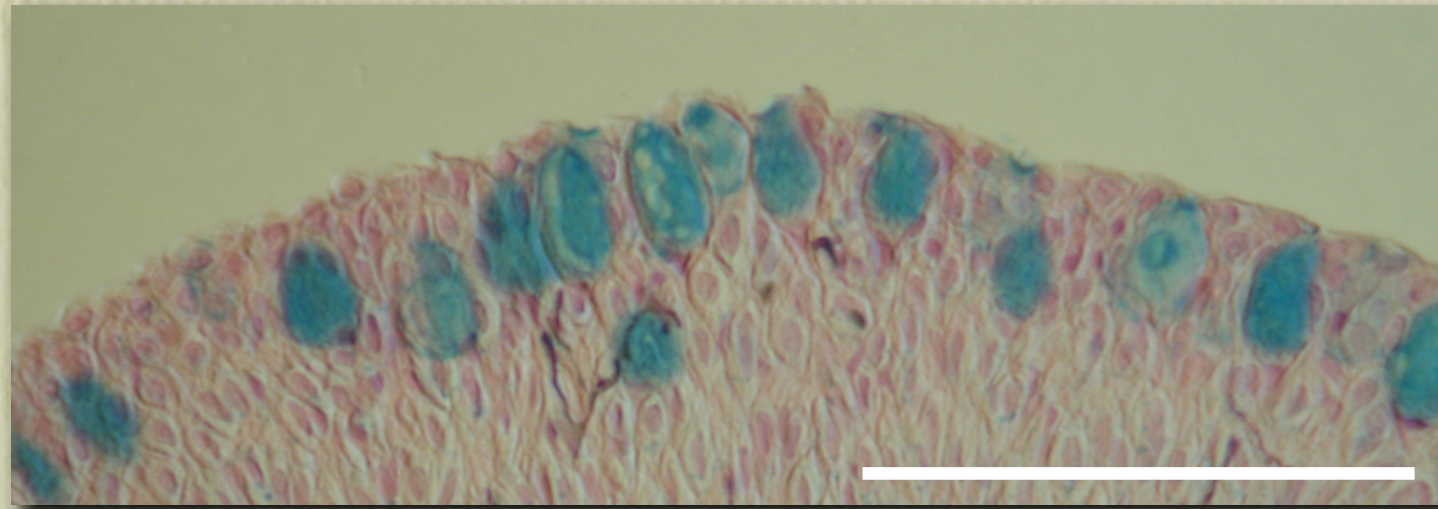


花海馬(雄)

Hippocampus sindonis



異型鈎吻鯰



雙親育幼 Biparental care



Penguin Page

Thierry Aubin,
U. Paris-Sud

國王企鵝



The Penguin Page



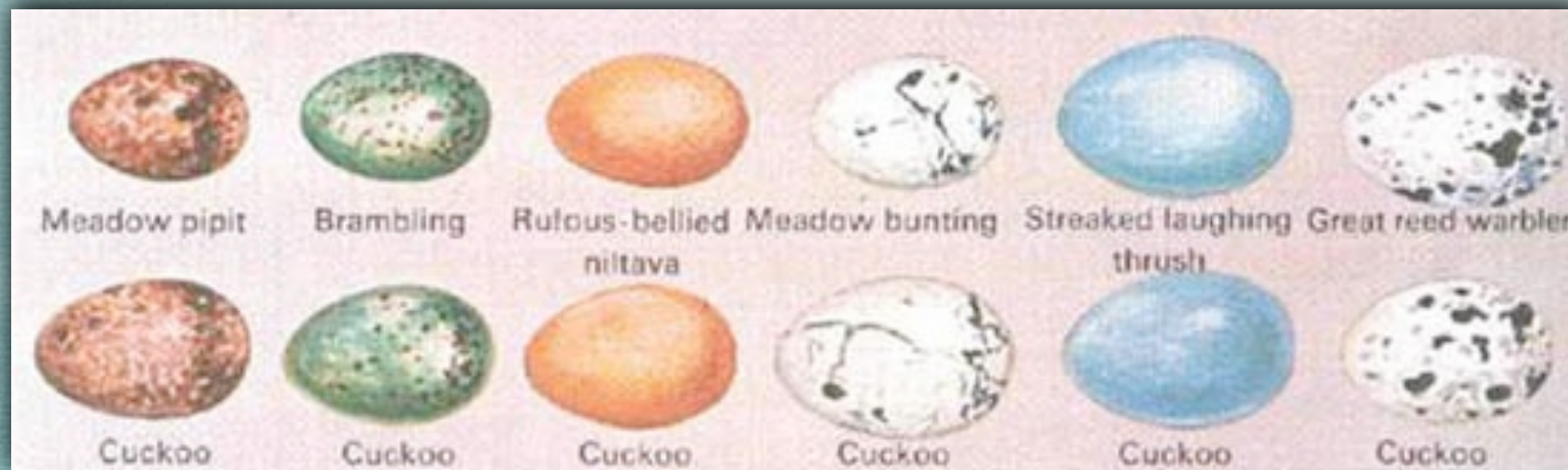
The Penguin Page

Brood Parasitism 孵卵寄生

Reed warbler



杜鵑



Infanticide 弑嬰

Plains zebra
Equus burchelli



Prairie Dog
(Cynomys ludovicianus)



Tibetan Macaque Monkey *Macaca mulatta*



黑尾土撥鼠

Embryo Cannibalism 胚胎殘食

Sandtiger Shark
(*Carcharias taurus*)

沙虎鯊



Fire Salamander

Salamandra salamandra

火蜥蜴



Kin Selection and Delayed Reproduction

親擇與延遲生殖



Carrion crows (*Corvus corone*) 小嘴鴉

Kin Selection and Delayed Reproduction

親擇與延遲生殖



Carrion crows (*Corvus corone*) 小嘴鴉

Altruism 利他

Take Home Message

Take Home Message

High Diversities of Reproductive
Strategies

Take Home Message

High Diversities of Reproductive
Strategies

生殖策略多元化

Take Home Message

High Diversities of Reproductive
Strategies

生殖策略多元化

Reproduction Is the Driving
Force of Evolution

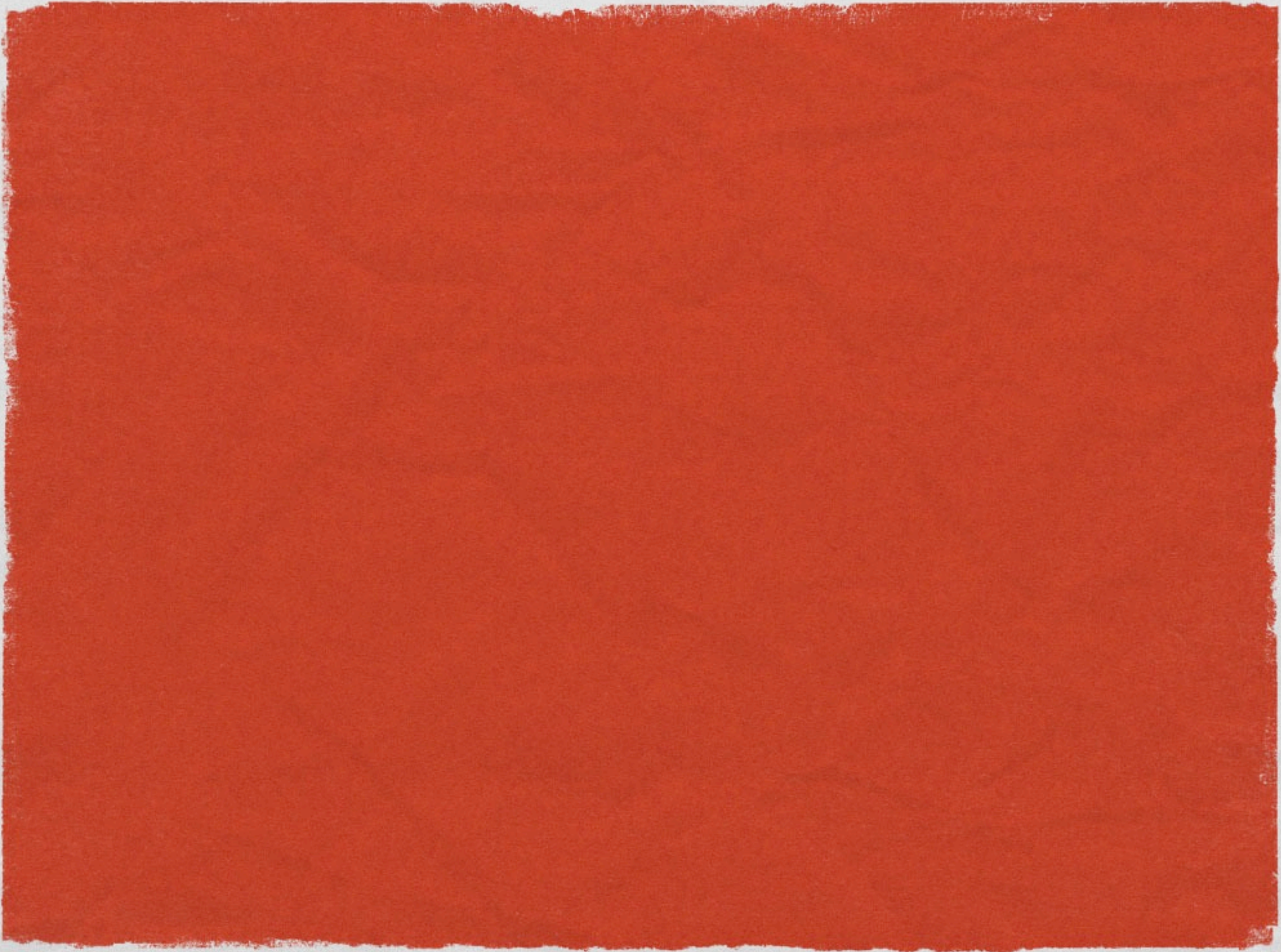
Take Home Message

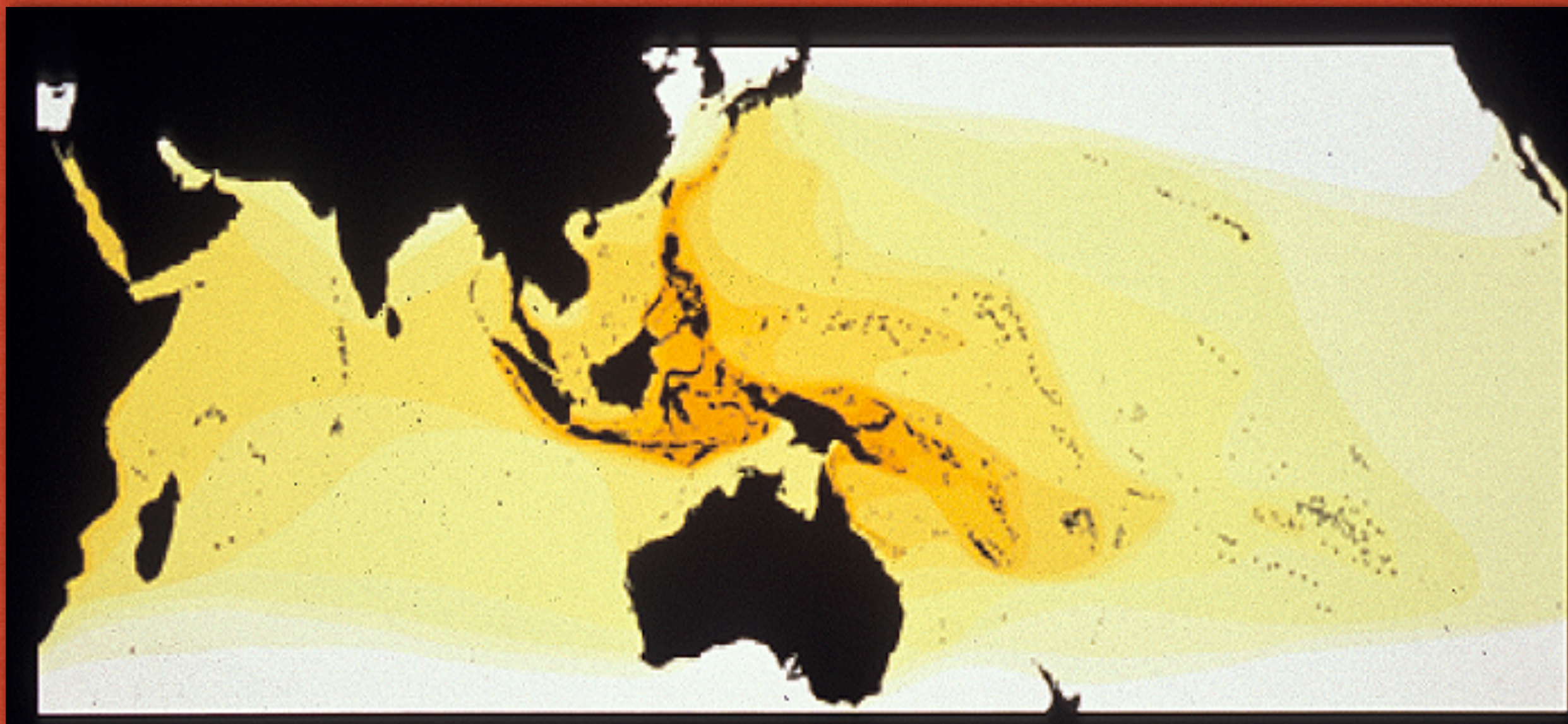
High Diversities of Reproductive
Strategies

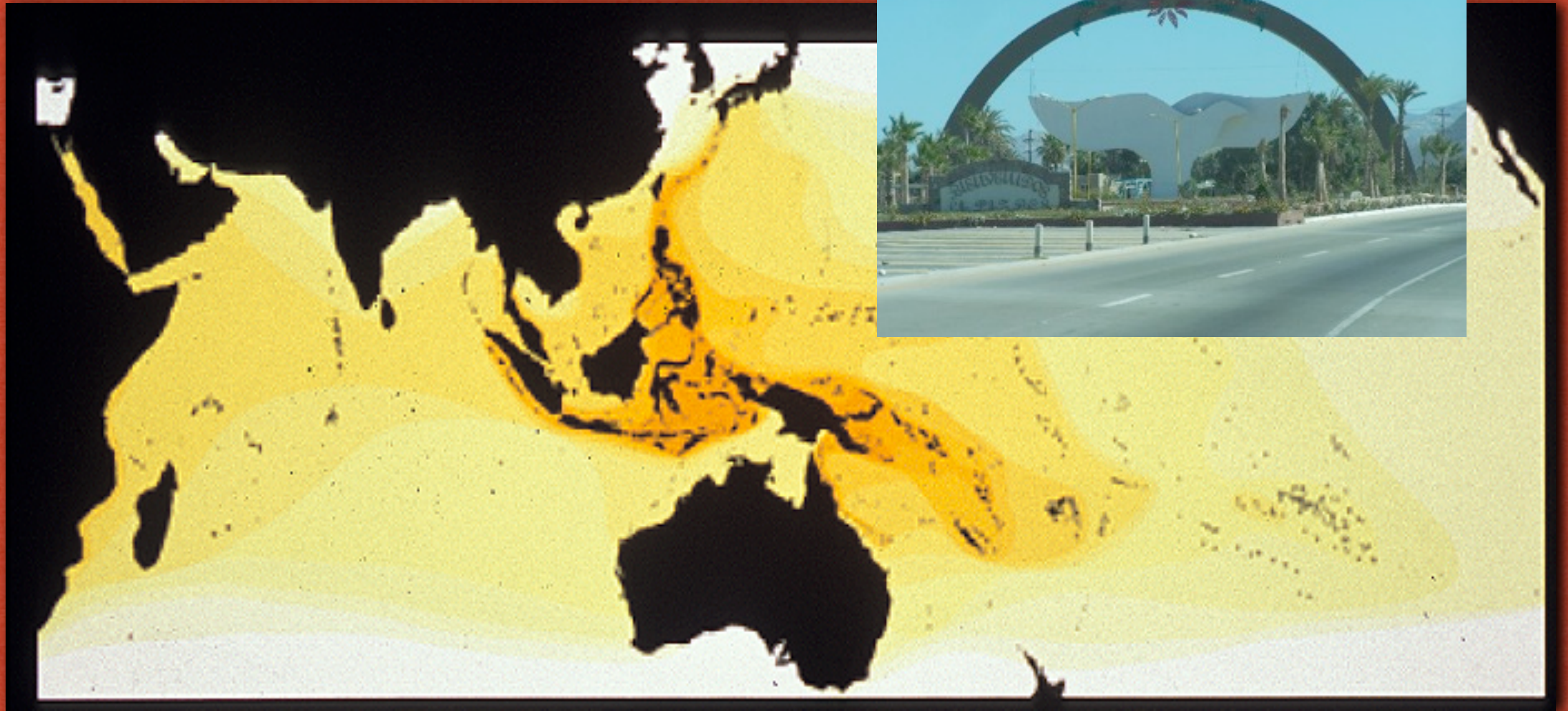
生殖策略多元化

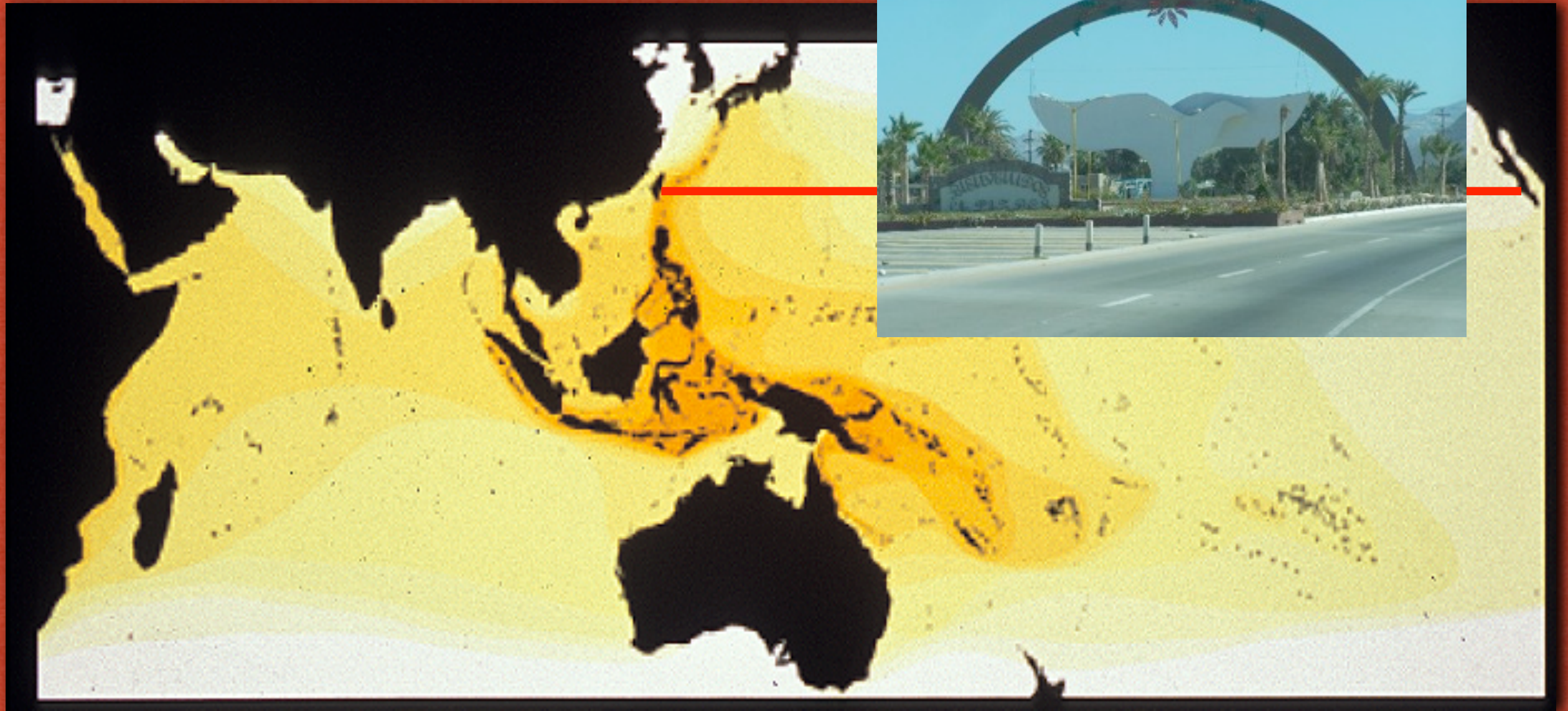
Reproduction Is the Driving
Force of Evolution

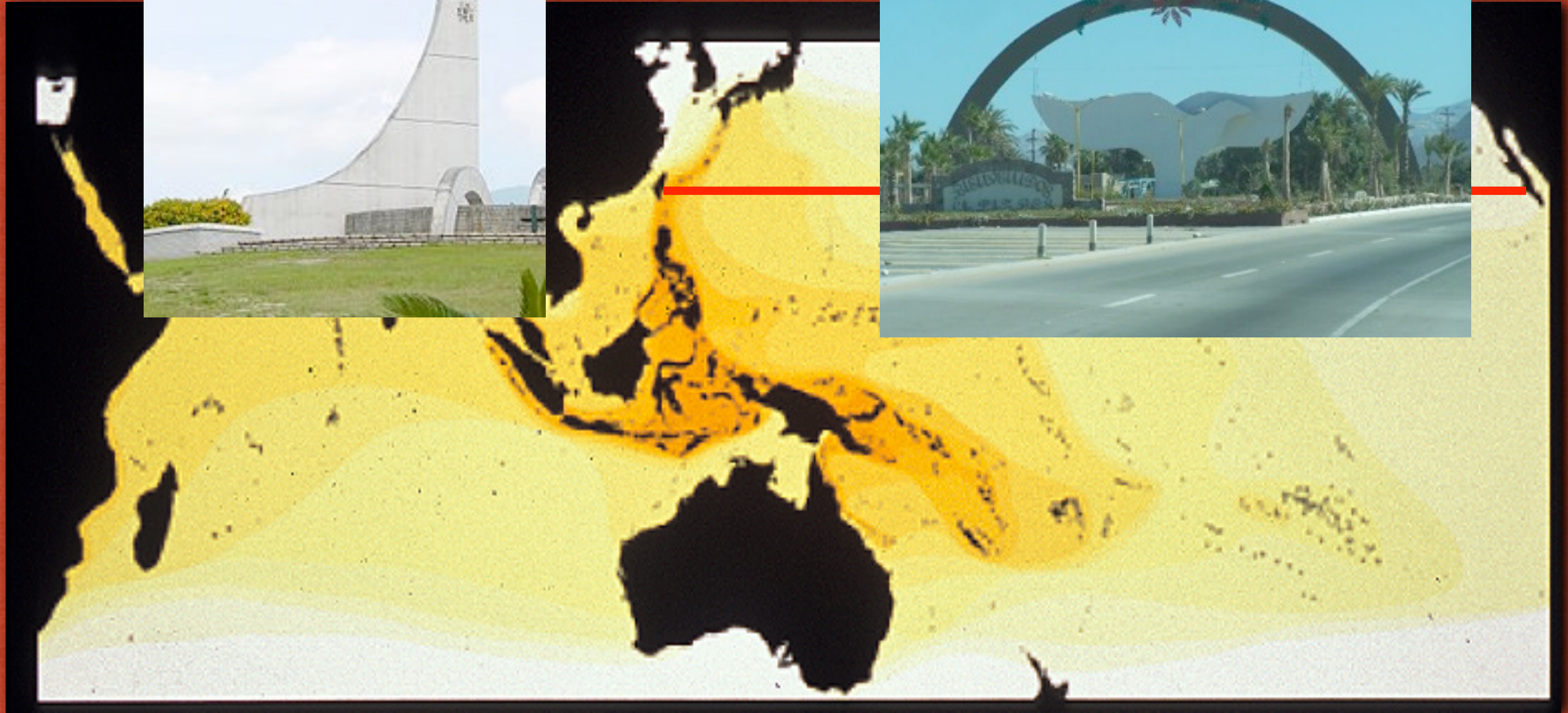
生殖是演化的原動力







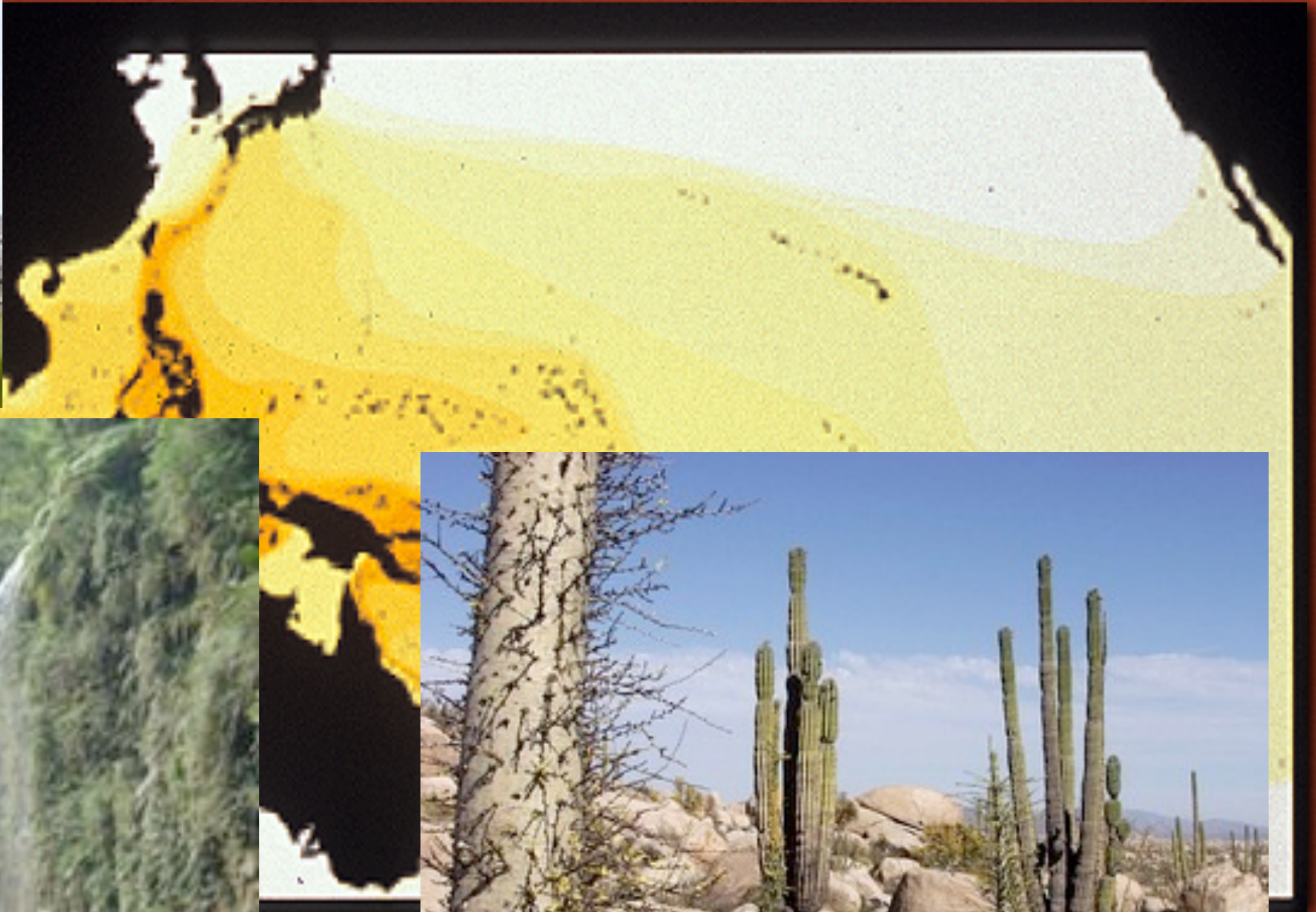




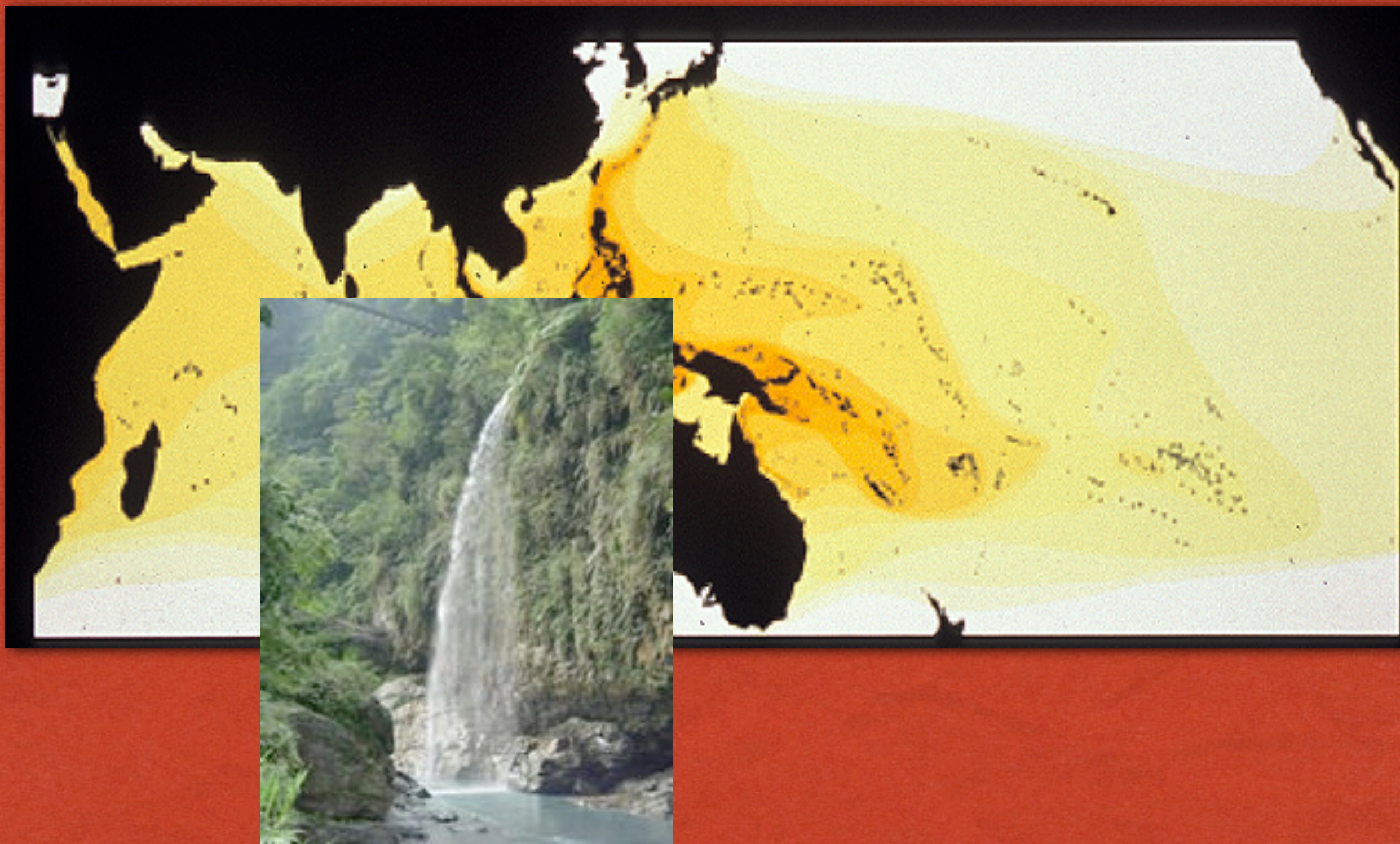


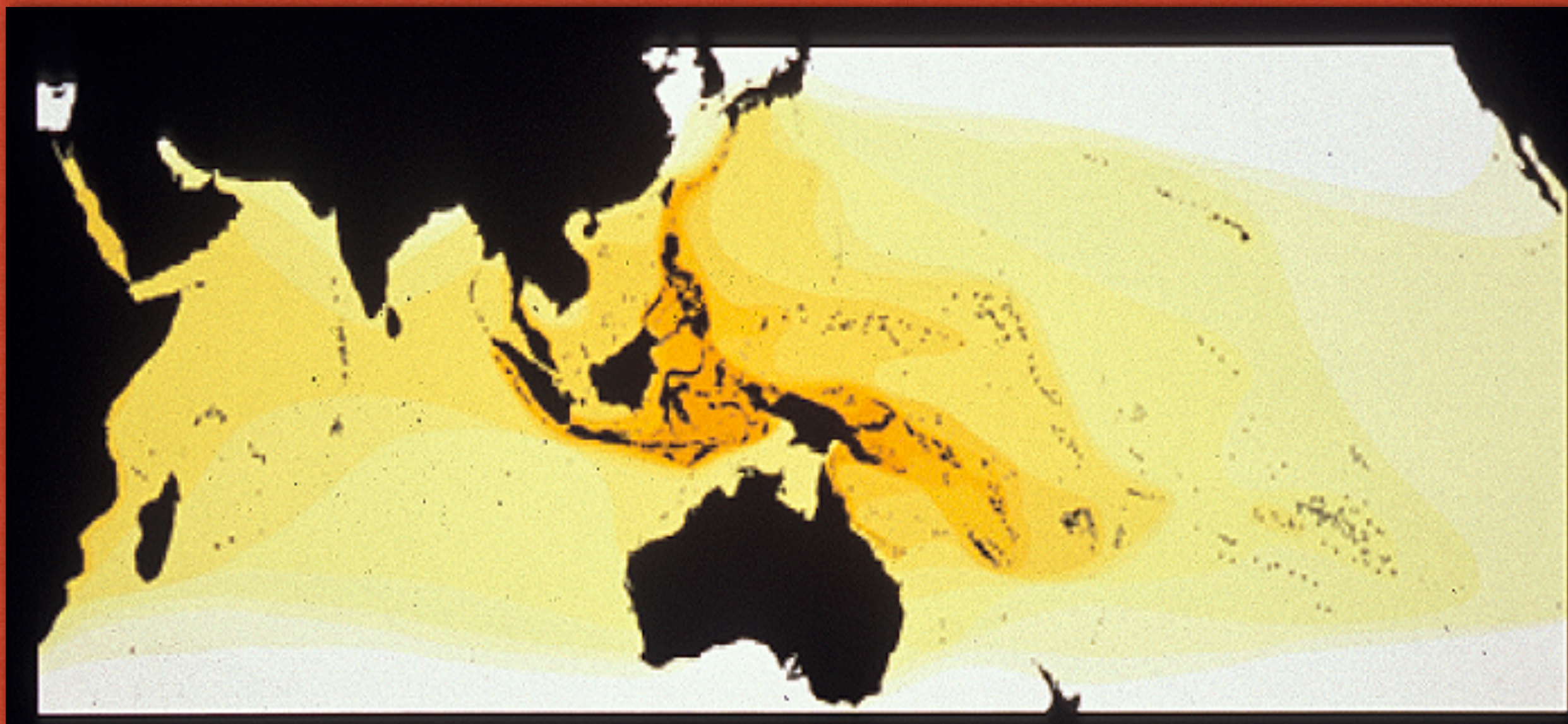




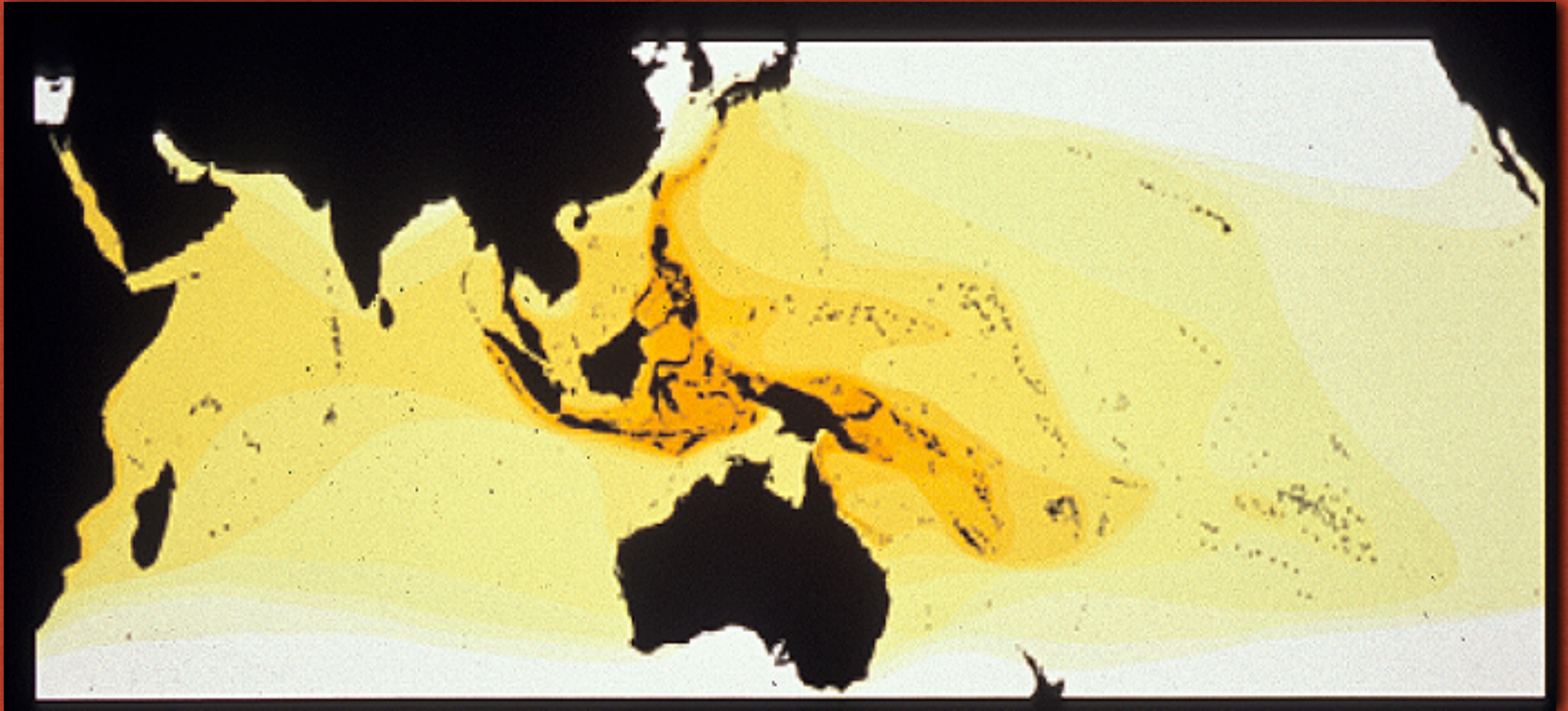






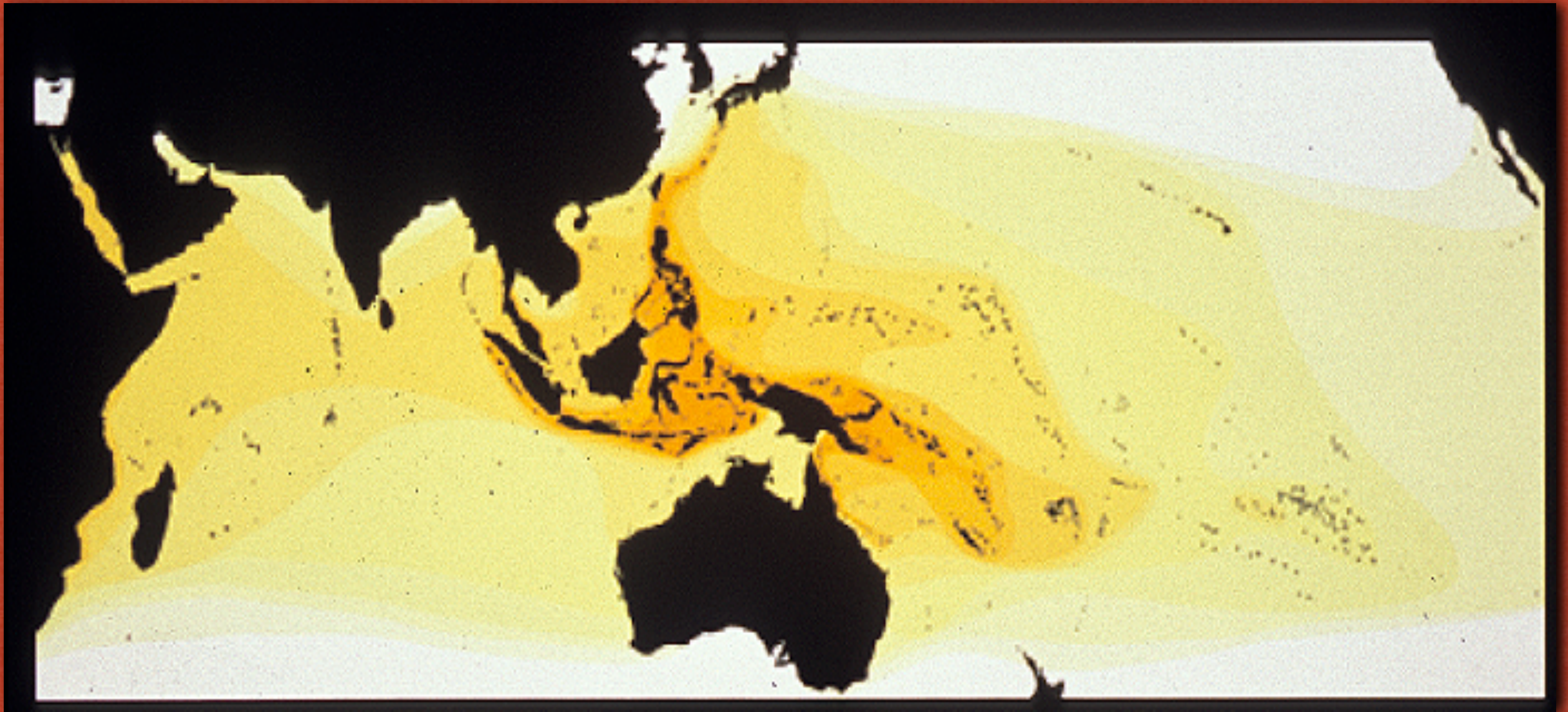


2.5/10,000

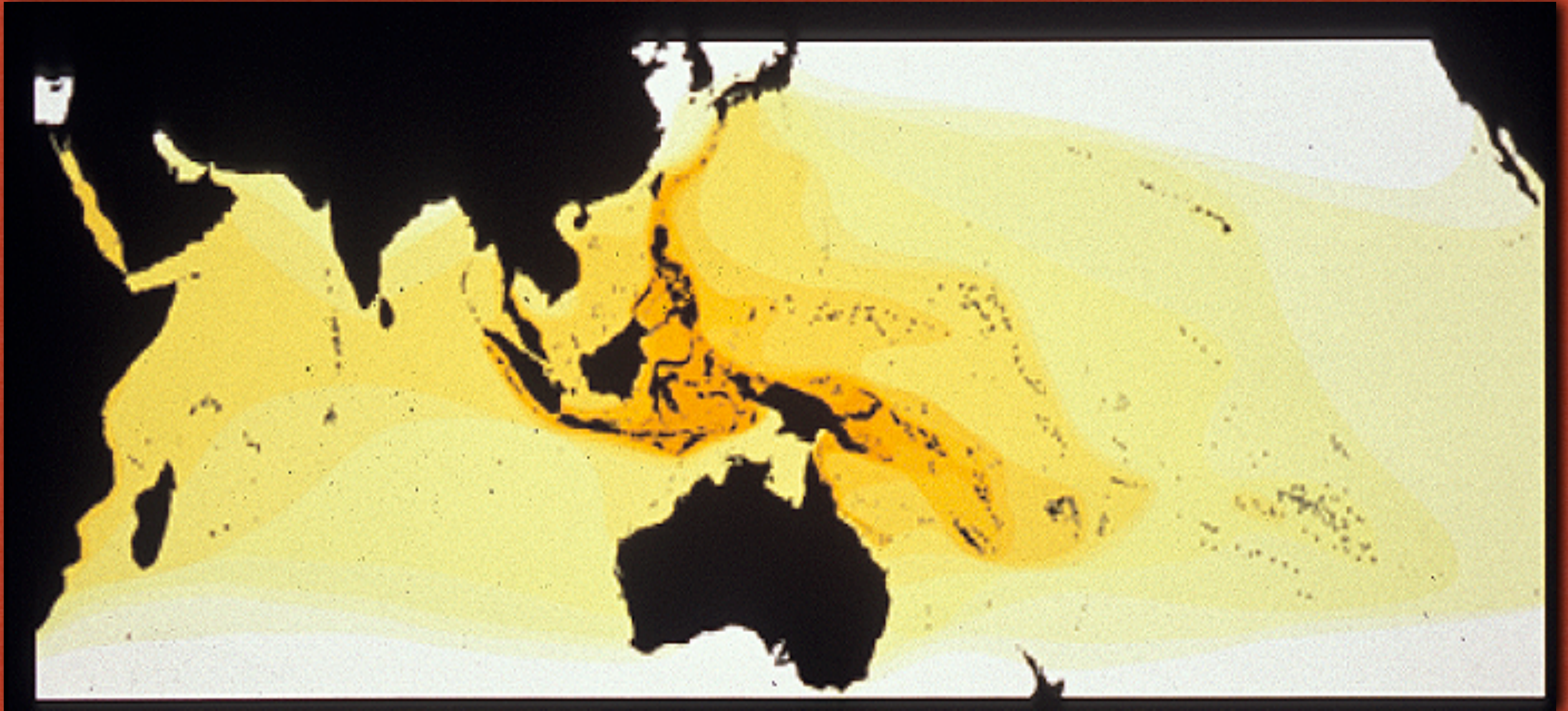


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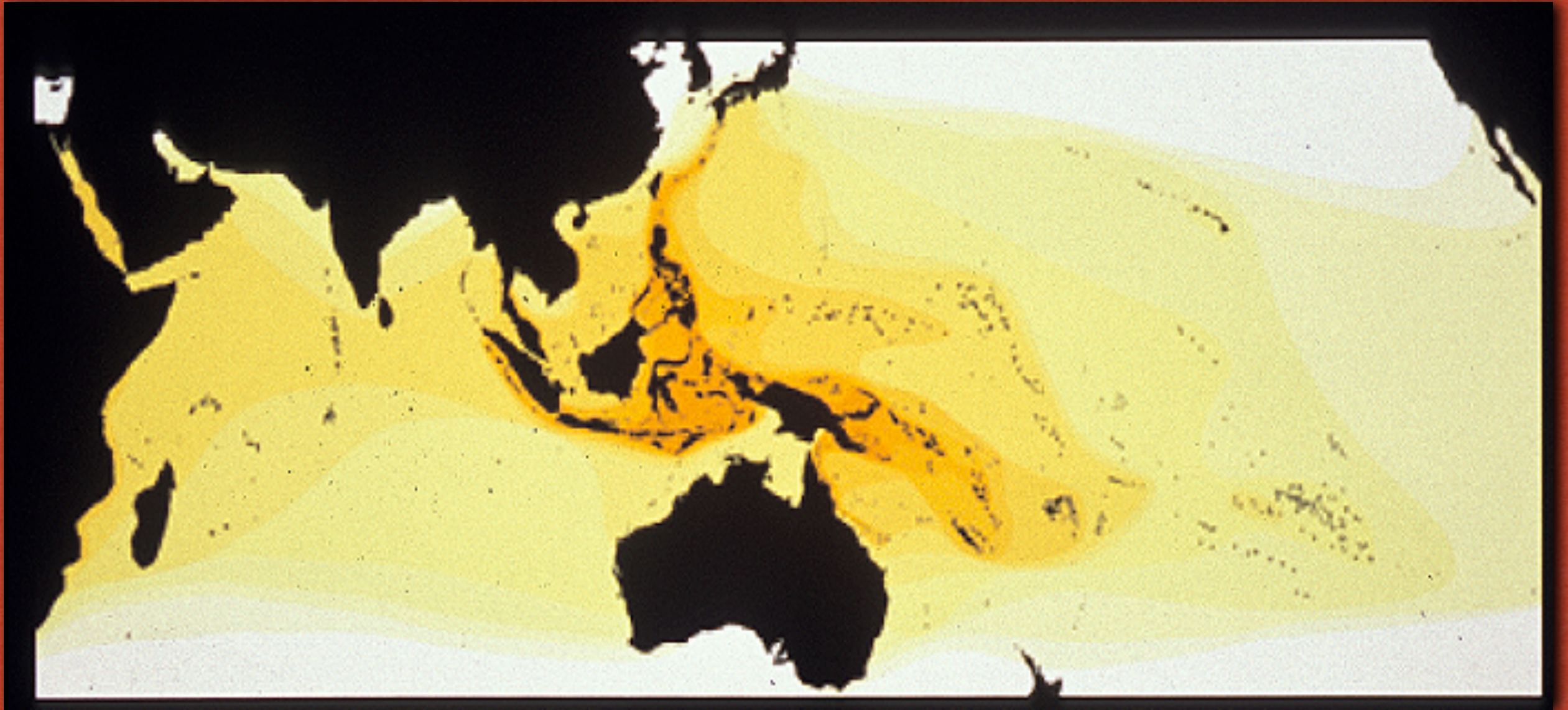
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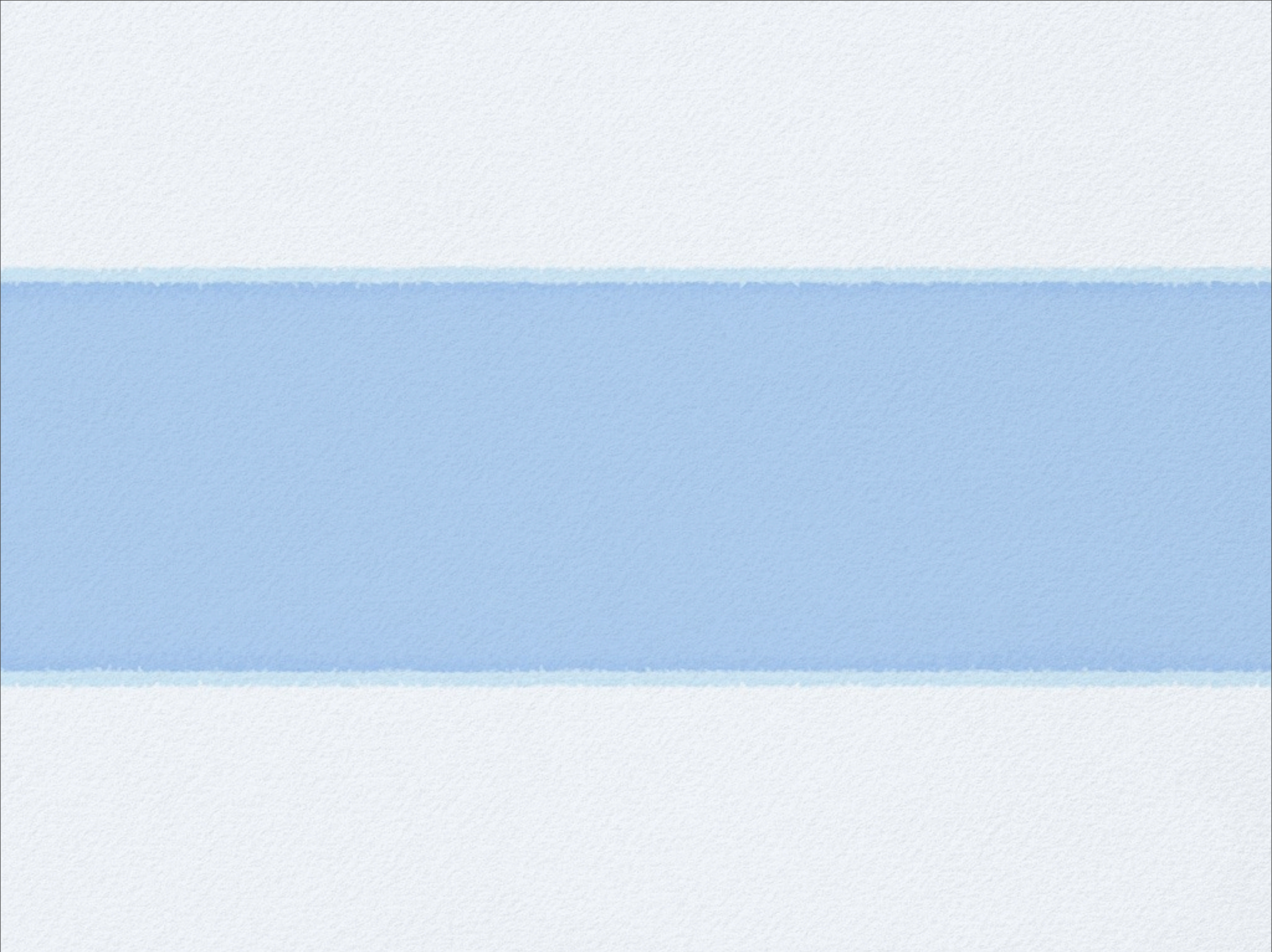
2.5/10,000 **Ilha Formosa** 1/10



2.5/10,000 **Ilha Formosa** 1/10



台灣的良心與責任



逢冬令進補 獵殺山羌案例頻傳



2008/11/14 報導記者：曾如成



深組 8 股
250.83
+2.29

避免殃及動物 進補可用中藥材

[《更多圖片》](#)

冬季進補很多，
現受傷的保育
牠送到集集特
都是被捕獸夾

左前腳受傷的
始進行包紮換



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No Reproduction, No Evolution





逢冬令進補 獵殺山羌案例頻傳

2008/11/14 報導記者：曾如成



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左前腳受傷的，始進行包紮換。

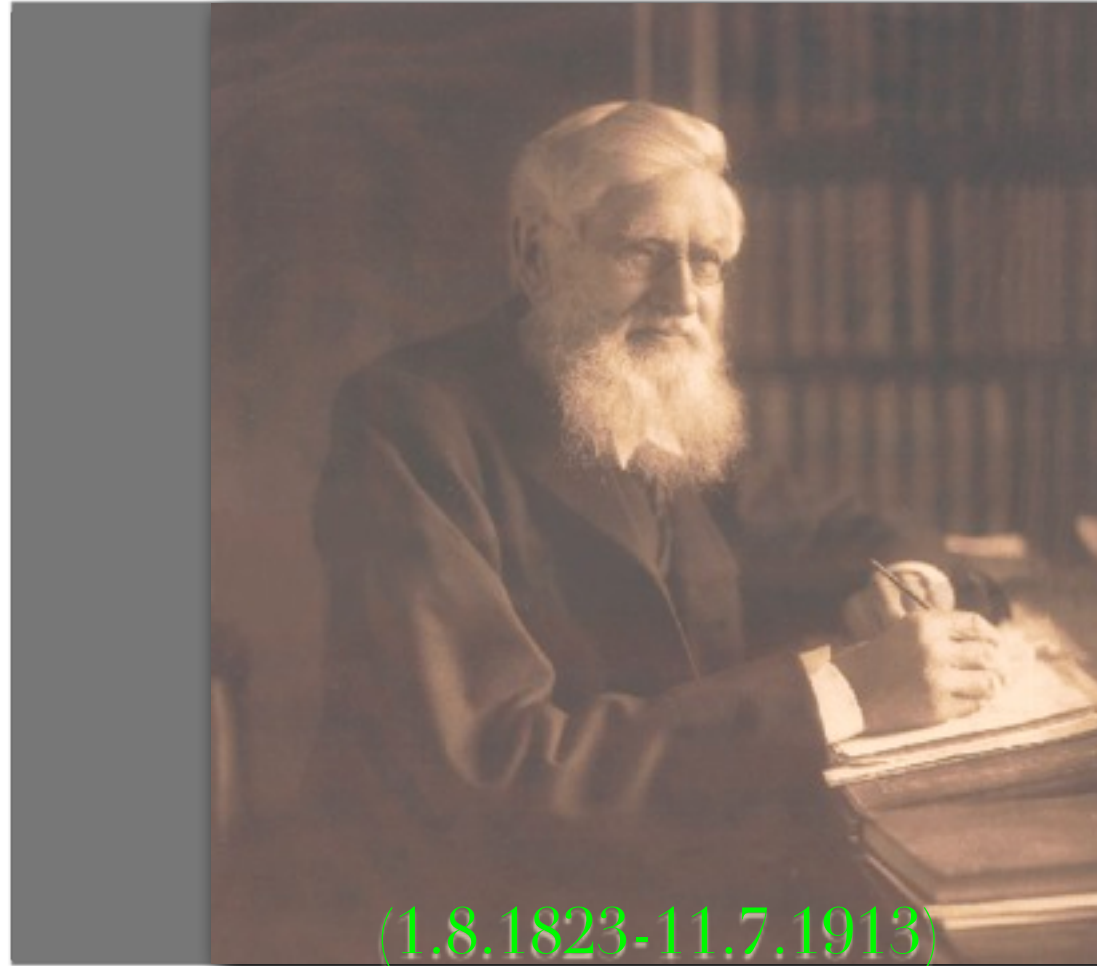


No Reproduction, No Evolution

沒有生殖就沒有演化

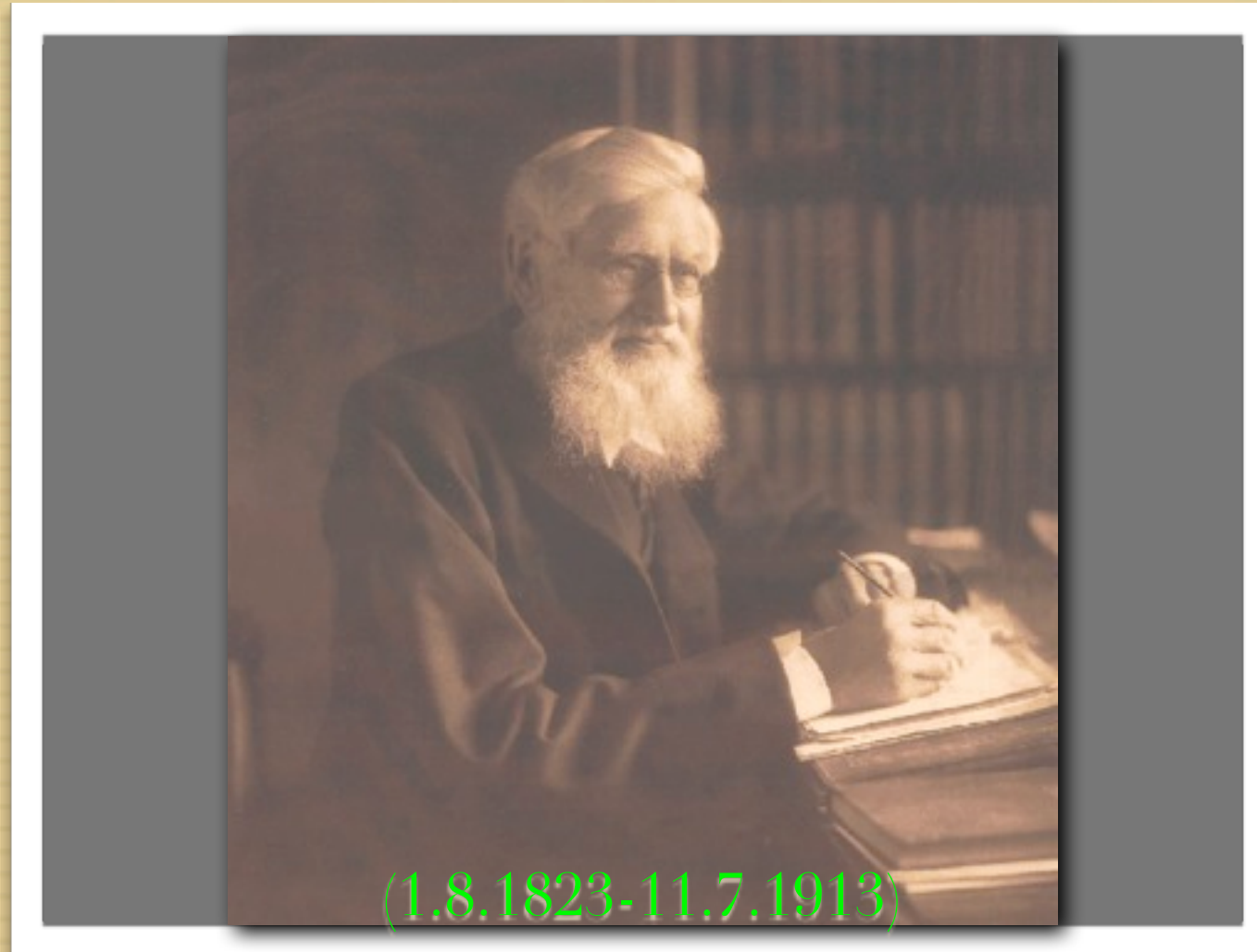


Alfred Russel Wallace

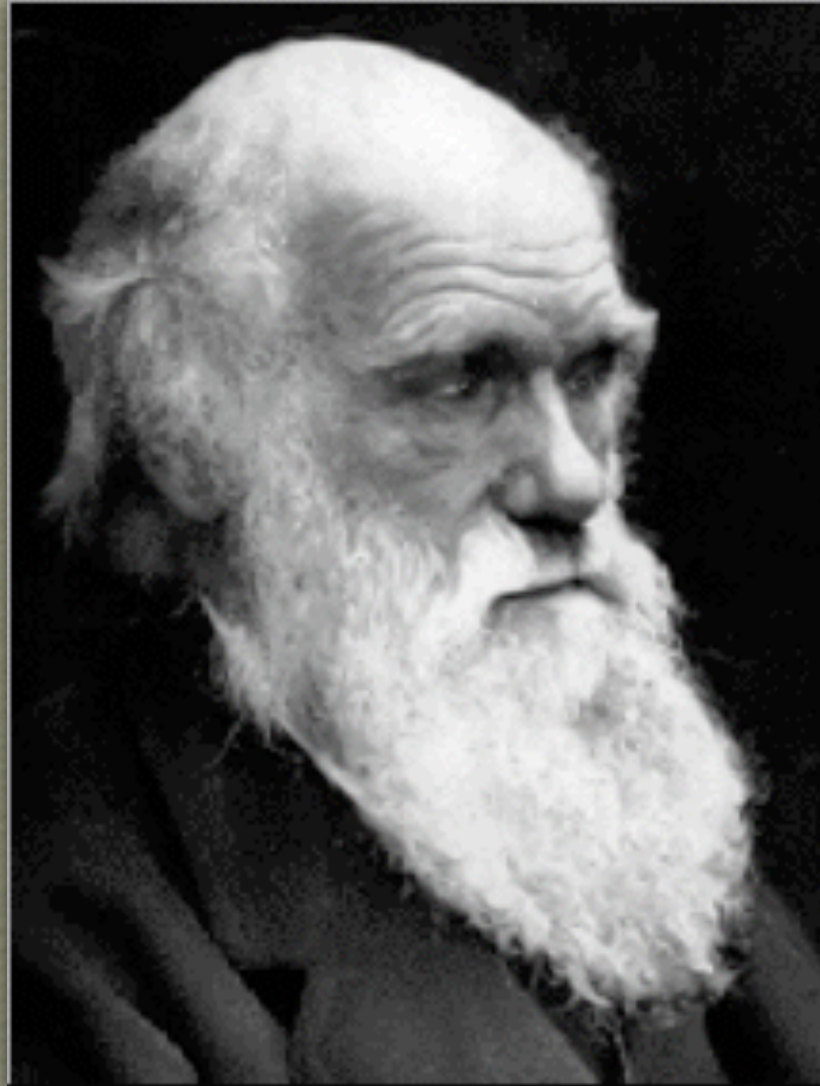


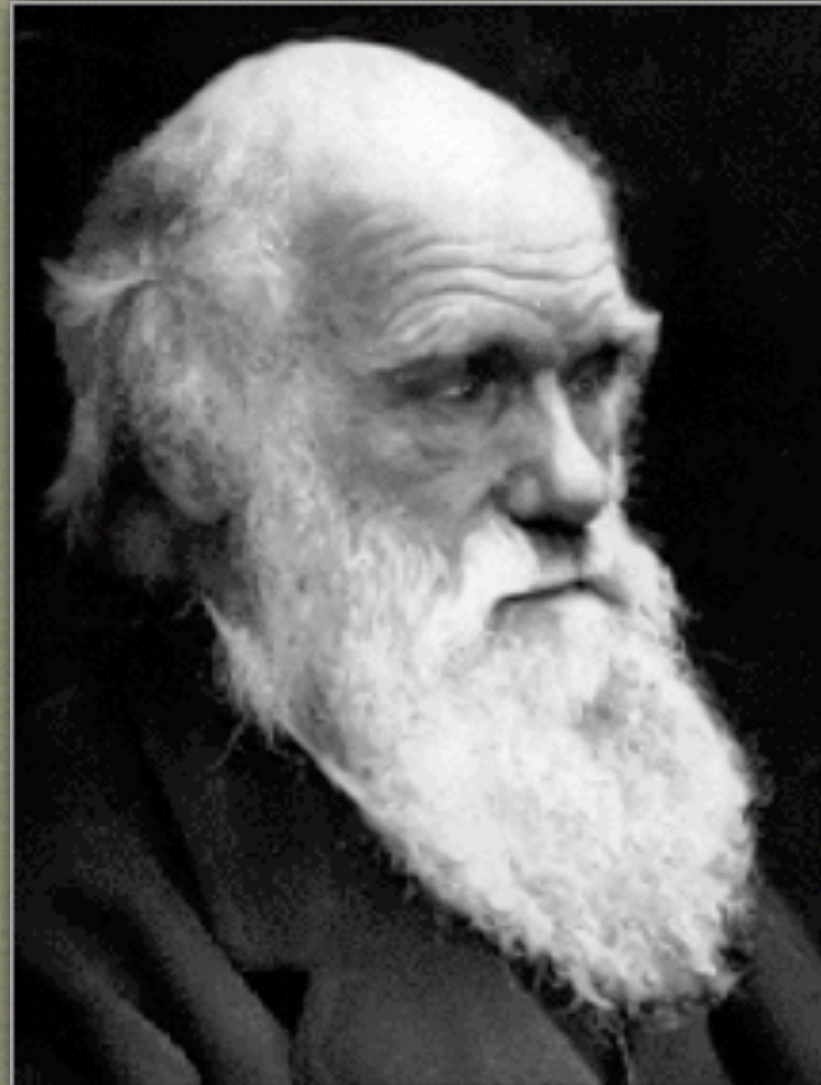
(1.8.1823-11.7.1913)

Alfred Russel Wallace



現今的每一種植物或動物，都是構成地球歷史這一巨著的每一個單字。當物種逐一滅亡後，我們就再也無法解讀這一巨著了。未來的世代在評價我們的時候，會譴責我們是利令智昏的一代，因為當我們有能力保護牠們時，卻卑鄙的令牠們滅絕。

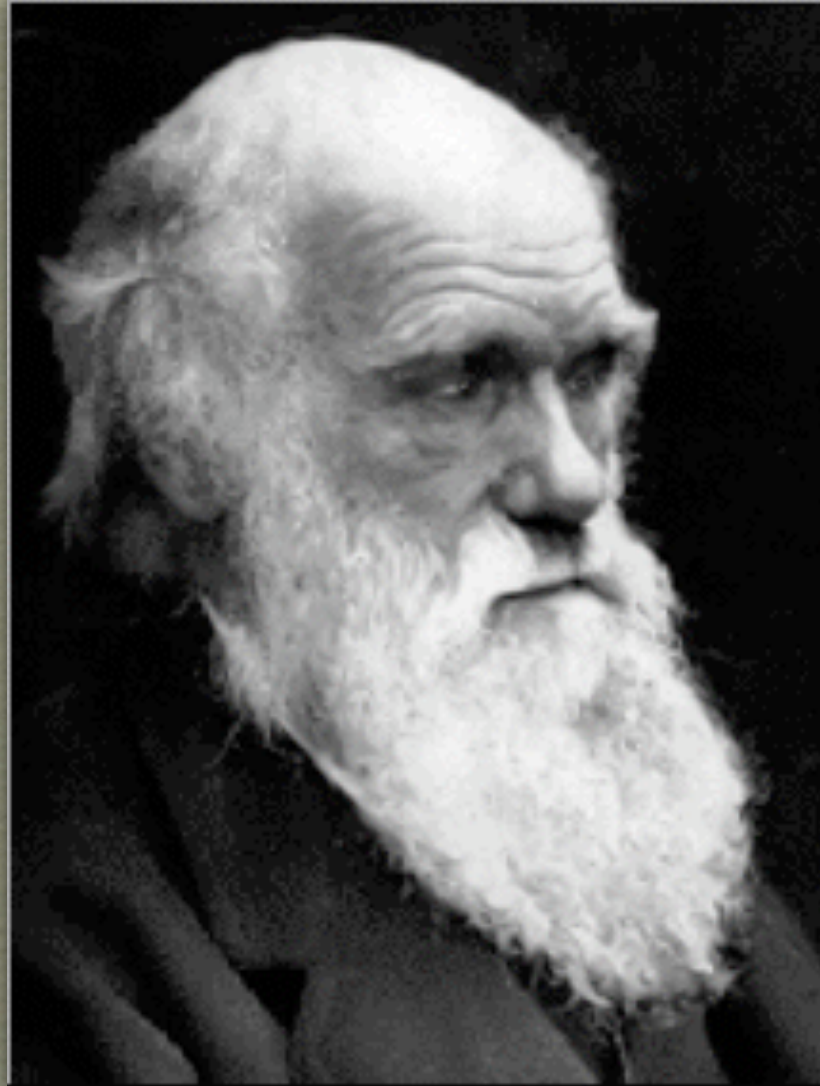




“....from so simple a beginning endless forms most beautiful and most wonderful have been, and are being evolved.”

---- the last sentence of “The Origin of Species”, Charles Darwin. 1859.

從如此簡單的一個起始，最
美麗和最美妙的各種形式，
仍然持續的在演化中。
(物種原始論)



***“....from so simple a beginning endless forms most
beautiful and most wonderful have been,
and are being evolved.”***

---- the last sentence of “The Origin of Species”, Charles Darwin. 1859.

達爾文到底寫了幾本書呢？

達爾文到底寫了幾本書呢？

25

達爾文到底寫了幾本書呢？

25

1839 late May

The three volume narrative of the Beagle voyage "Journal of Researches into the Natural History and Geology of the Countries Visited During the Voyage of H.M.S. Beagle"

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1839 late May

The three volume narrative of the Beagle voyage "Journal of Researches into the Natural History and Geology of the Countries Visited During the Voyage of H.M.S. Beagle"

1859 November 22

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1871 early March

"The Descent of Man and Selection in Relation to Sex"

1872 August

"The Expression of the Emotions in Man and Animals"

1887 August

"The Autobiography of Charles Darwin"