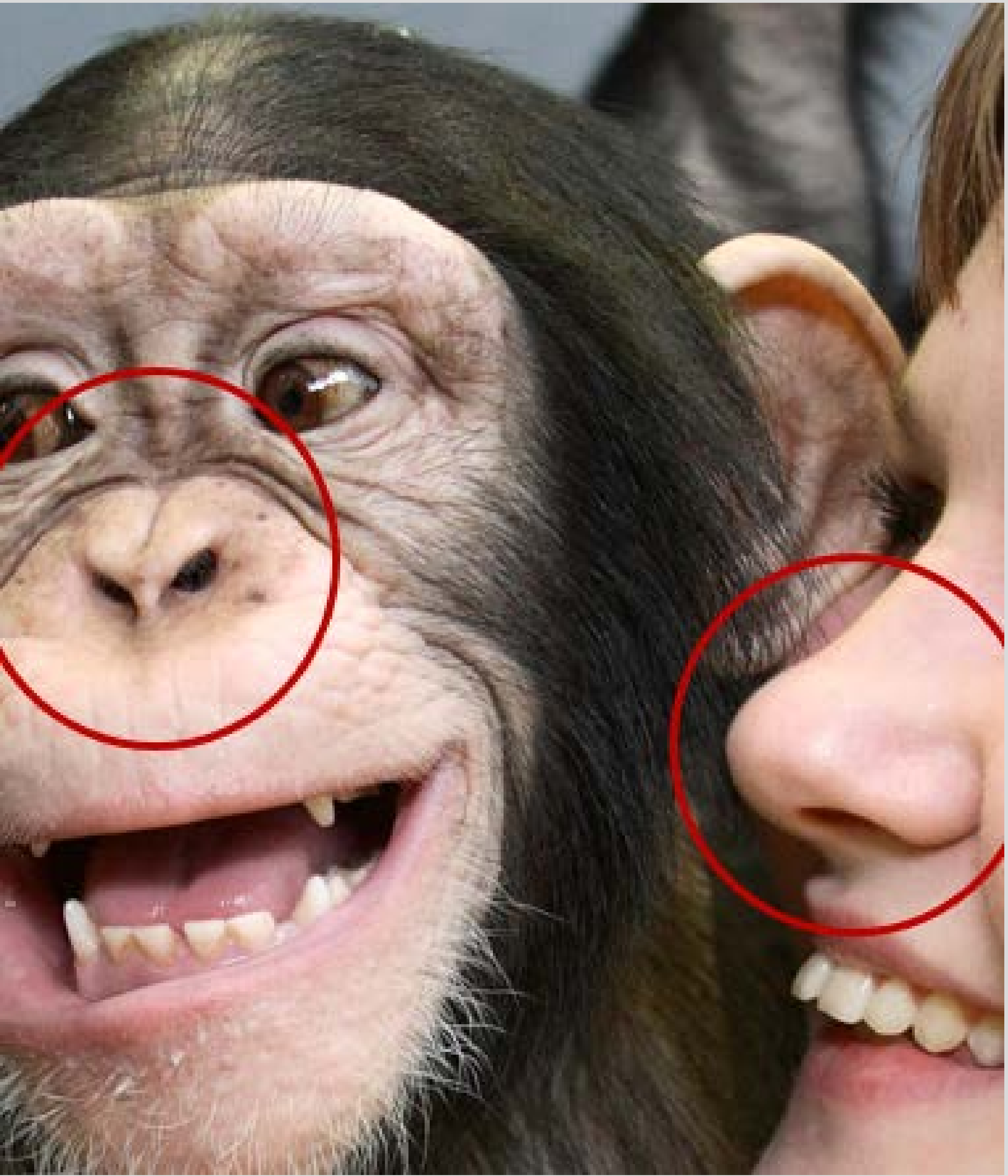
Evolution of the Human Nose



Evolution of mankind has shaped our **faces**, **hands** and **brains** ….

prevailing **climatic conditions**, have shaped our noses in **millions of years …**

AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY 75:517–527 (1988)

Nasal Morphology and the Emergence of *Homo erectus*

ROBERT G. FRANCISCUS AND ERIK TRINKAUS
Department of Anthropology, University of New Mexico, Albuquerque, New Mexico 87131 (R.G.F., E.T.); U.A. 376 du C.N.R.S., Laboratoire d'Anthropologie, Université de Bordeaux I, 33405 Talence, France (E.T.)

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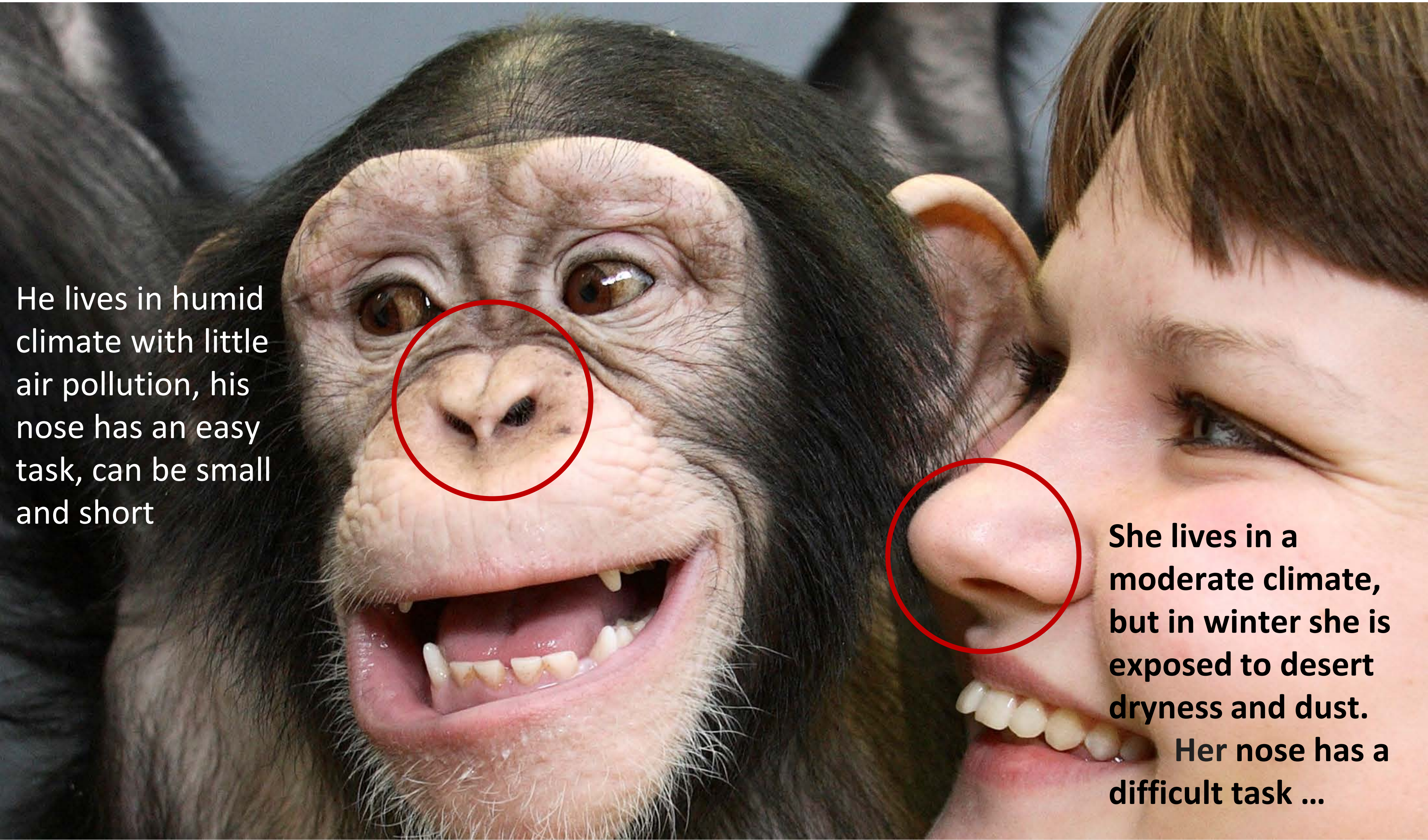

AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY 56:313–319 (1981)

Human Nasal Protrusion, Latitude, and Climate

JAMES W. CAREY AND A. T. STEEGMANN, JR.
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Department of Anthropology, SUNY/Buffalo, Buffalo, New York 14261 (A.T.S.)

Quote: «A strong, statistically significant cline [biological gradient] on **increasing nose protrusion**, with **decreasing absolute humidity** and with increasing latitude, was found».

Hot + dry continental desert climate (low absolute humidity)	Cold + dry arctic climate (low absolute humidity)
	

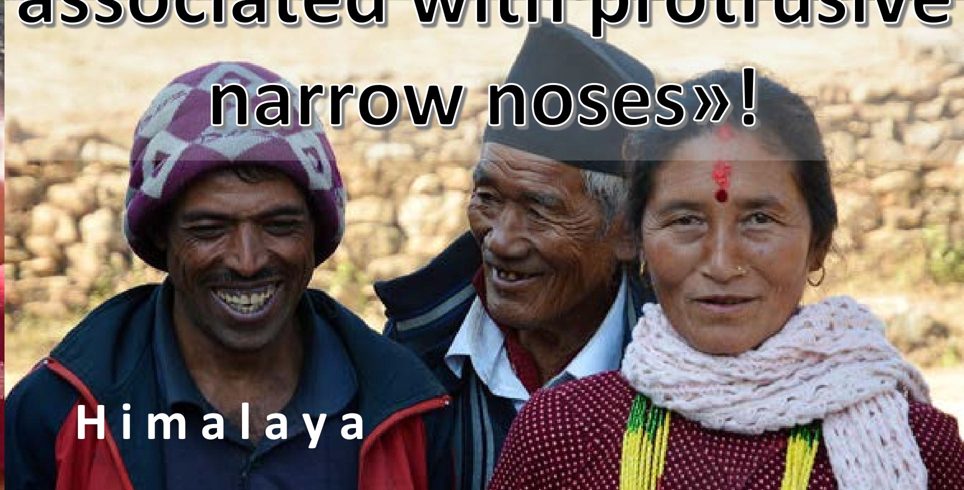
Quote: «There is a classical bio-geographical gradient that progresses from

low profile, relatively **wide noses** where seasonal **absolute humidity is high**

to

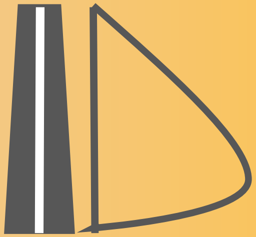
protrusive, relative narrow ones where the **air contains little moisture**».

«dry conditions are associated with protrusive narrow noses»!



Desert, hot-dry
climate
high pollution (dust)

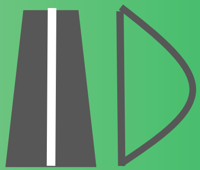
big noses
narrow, tight
prominent



front- /
side-
view nose

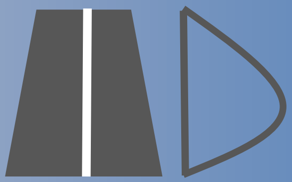
Tropical, humid-warm
climate
little air pollution

small noses
median wide
little prominent



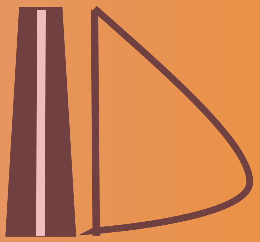
Arctic, cold-dry
climate
minor air pollution

big noses
wide, broad
prominent



Dominant task:
filtration and clearing
of dust/pollution

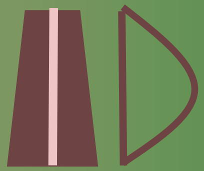
big noses
narrow, tight
prominent



front- / side- view nose

Dominant task:
no urgent needs!
easy job

small noses
median wide
little prominent



Dominant task:
humidification and
heating = conditioning

big noses
wide, broad
prominent