2013.8.5 IGU Kyoto Regional Conference

Field work on cultural ecology in Brazilian Amazon Akio Yamashita (Univ. of Tsukuba) Hiroaki Maruyama (Rikkyo Univ.)

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Developing maps using existing digital data and satellite images →to grasp large-scale natural conditions and for a base map for detailed field survey

Mapping the result of qualitative hearing investigation \rightarrow to understand land use and lifestyle of the residents

The purpose of this study is to find out how the residents effectively use spatial differences in natural environment such as the landform and flora and fauna in terms of cultural ecology through the fabrication of the maps.

Location of Maués

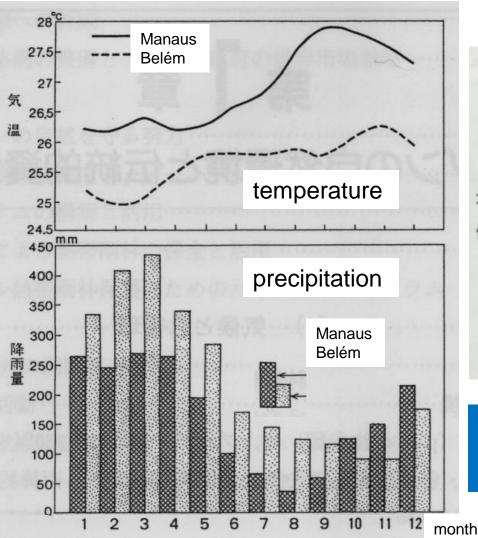


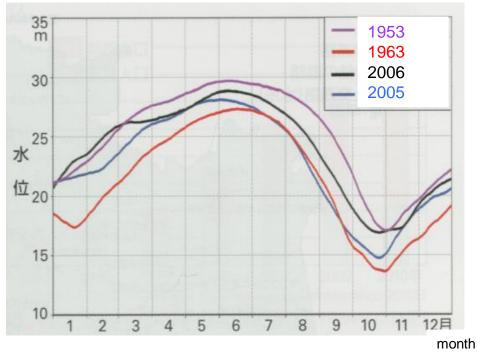


Population characteristics in the major cities in Amazonas state

	Manaus	Itacoatiara	Parintins	Maués
population (2010)	1,802,014	86,839	102,033	52,236
population density (persons/km ²) (2010)	158.06	9.77	17.14	1.31
increase rate of population (%) (1980-2010)	184.5	64.2	98.6	74.0

source: data from IBGE



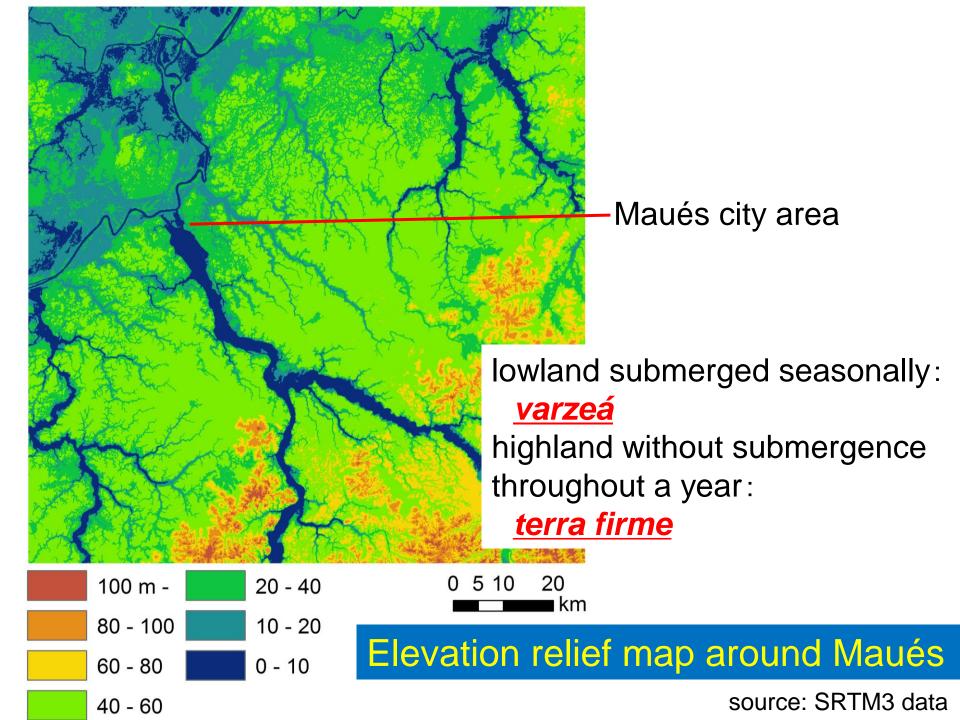


Annual water level fluctuation of the Amazon River

source: Matsumoto (2012)

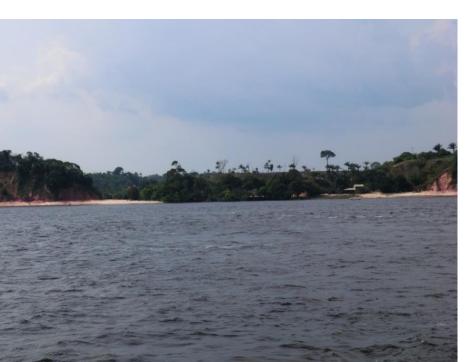
Annual change of temperature and precipitation

source: Nishizawa et al. (2005)



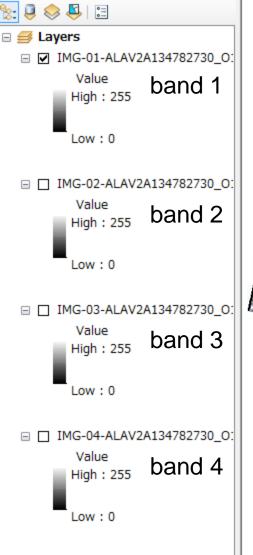


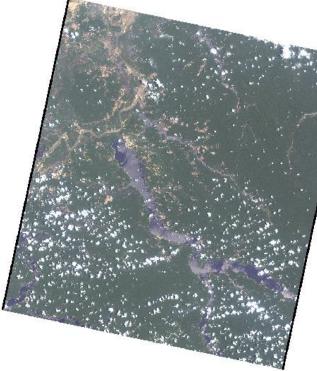






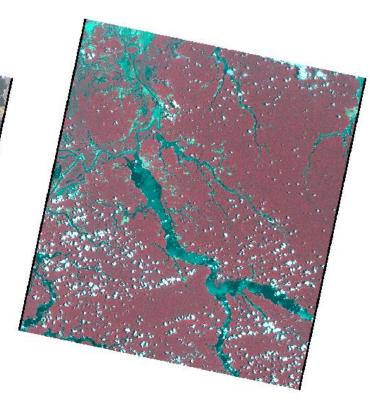
Satellite images (ALOS AVNIR-2)





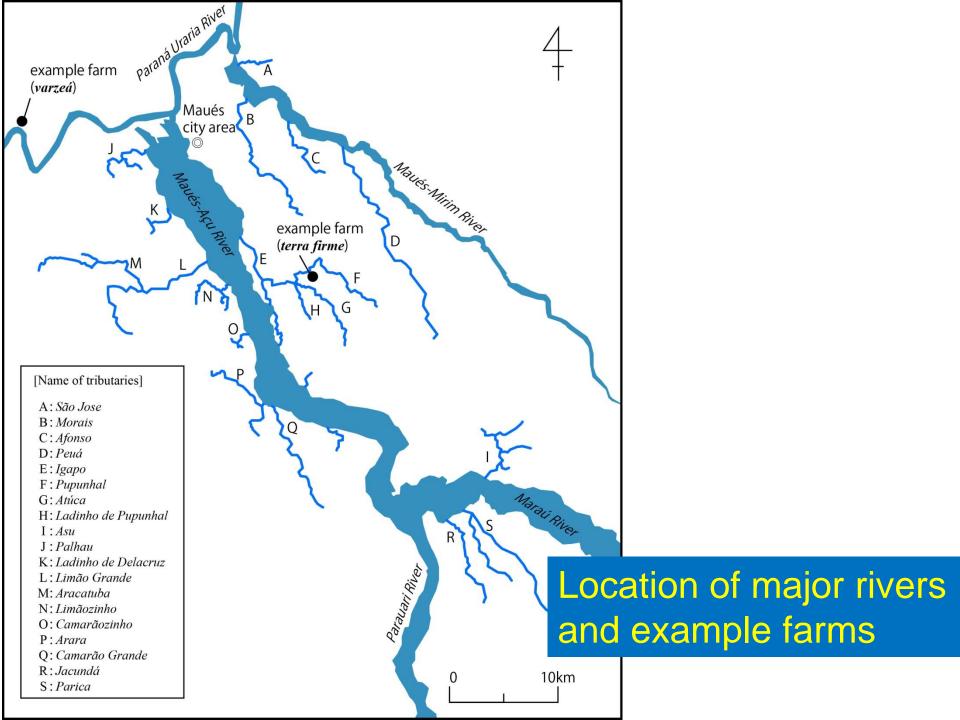
true color image

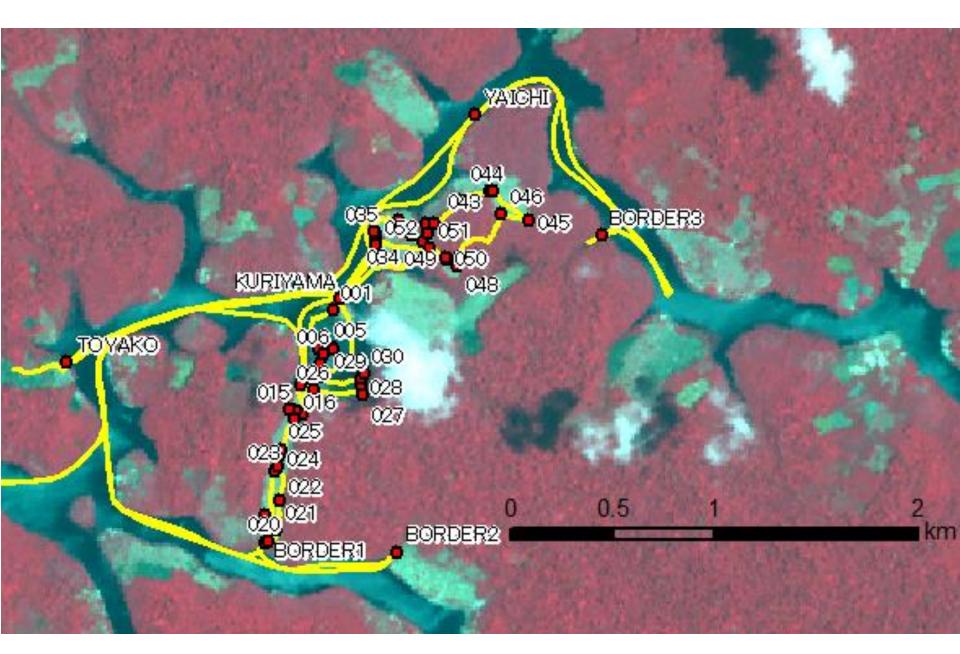
band 3: Red band 2: Green band 1: Blue

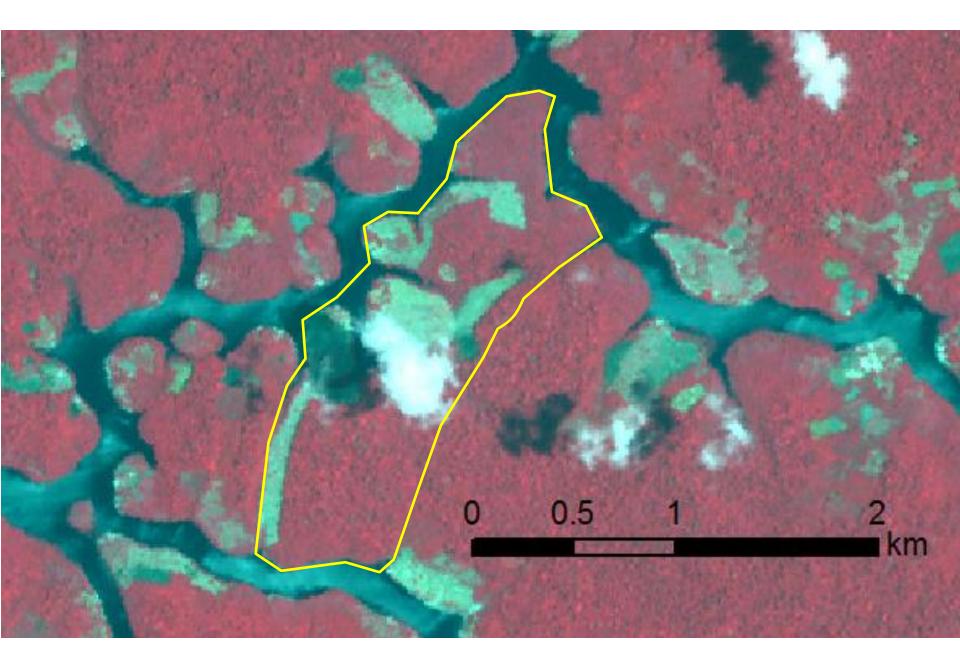


false color image

band 4: Red band 3: Green band 2: Blue





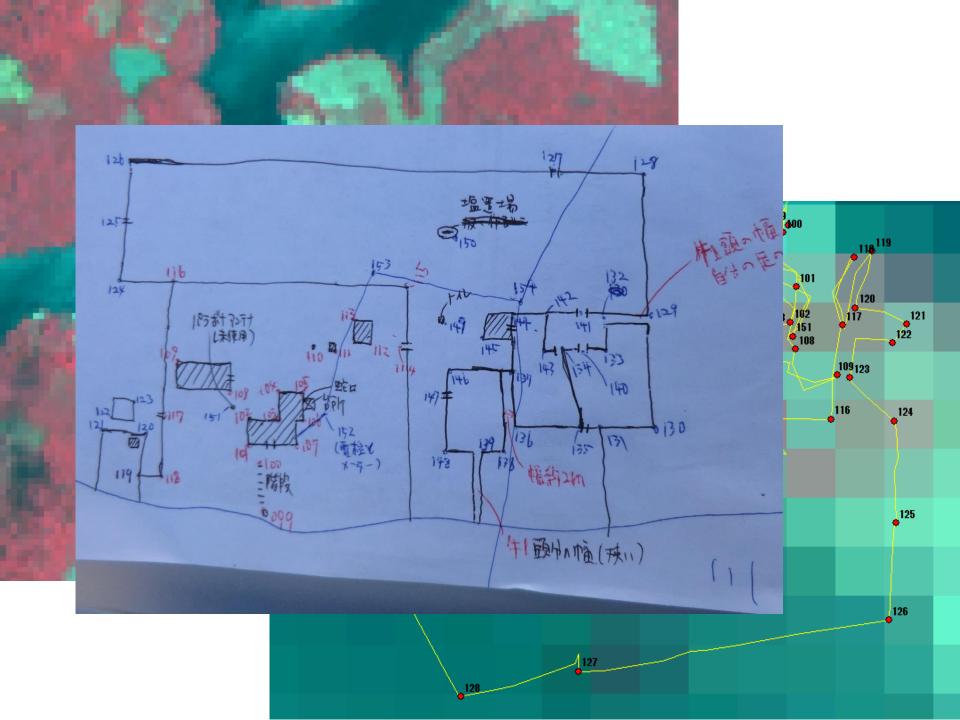


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074 柄、ここFY t(東方向は、前2物なやと乗の違い本研. (細に、画印西方向へ.) 2010.44にジャフまく. 075 本网へゲート / 506 杯風のがあ (の3の谷を主を谷焼まで、. 07 杯(ト) こうび(1)ナ かってのマンジョナル(日) 4+が 系らしてしまったので、火気いた(別のがけへ)(の分か)(た) 018 南東元島のた為、ここから t C(1) に半円状た 017. 01	「たいない」と
 180 井田 (宏湯の絵) 節西, 20東方向へ. 180 井田 (宏湯の絵) 節西, 20東方向へ. 181 田田 (梁湯の絵) 節西, 20東方向へ. 182 イベ⁰の木 (おいは (ビウガ に コ に ビ いう). 巨木 新20m, 1m³ = 900 レアル、 たきょ 20000 レアレ くらいだろう. 183 1田間前に (火気いた 打 いいいゆしっ出た、(近いかかかがそたれい)) 186 (ハビア、火日の月-田(のちゃっと(ろ(根))を歩く.) オタマーン・シャンドウ(他))を歩く. 184 (回の 阪えすの線にですた.) メロの身 相応りちゃっと(ろ(他))を歩く.) オタマーン・シャンドウ(他))を歩く. 185 (シロア、火日の月-田(のちゃっと(ろ(他))を歩く.) オタマーン・シャンドウ(他))を歩く. 186 (シロア、人名のな にってた.) エンセンの オ麦尼. 185 (シロア、(ホース)) レステ、(ホース)、(ホース)、(ホース)、(ホース)、(ホース). 186 (赤ドら、いろに、(ホース)、このちに Pepunkal の支流か ひろ、(小気)、(ホース). 187 (小気、(雨(h)))) シー(物)、埃に (ホース)、(ホース). 189 (四面動)) シー(物)、埃に (ホース)、(ホース)、(ホース). 	一日の大学の人名

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 The example farm owns lands in both "terra firme" and "varzea" and conduct transhumance, releasing cattle in wild meadows in fertile "varzea" during dry-season and in high land "terra firme" during rainy season.

• The timing of intentional burn to develop meadows is different depending upon the areas. At the intentional burn, more than ten types of trees for foods or medications were saved and left intentionally.

 In the fields in "terra firme" without having flooding through a whole year, subsistence farming such as manioc using traditional burn agriculture and guarana cultivation as cash crops are conducted.