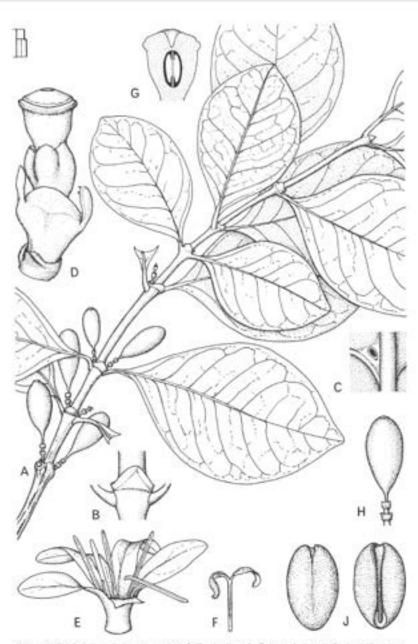
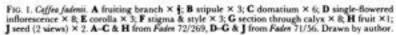
The Royal Botanic Gardens, Kew Recent coffee research

Dr Catherine Kiwuka (Uganda)

Dr Franck Rakotonasolo (Madagascar)







Psilanthus (Rubiaceae) for part 2 of 'Flora Africa': Rubiaceae

BRIDSON

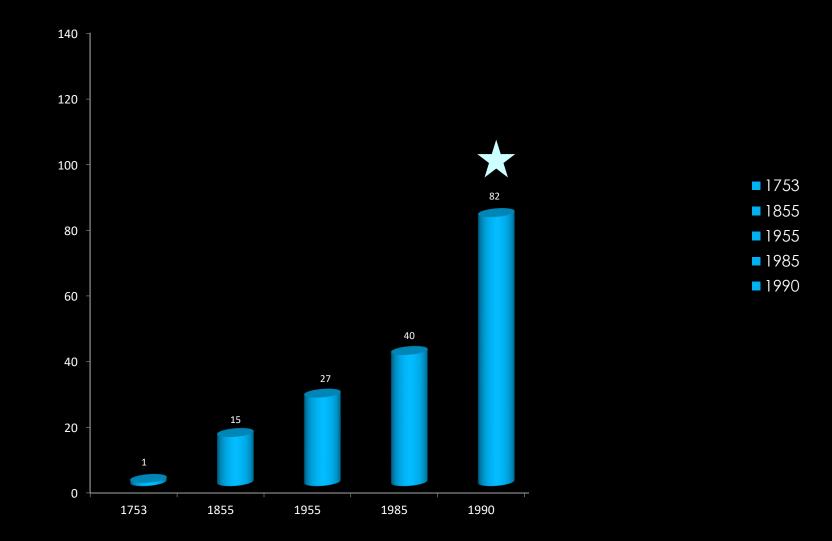
new taxa (seven species and two subsp.) and them African species, including incompletely

he genus Coffee L. for the F.T.E.A. at some of the East African species du Globe 3 (1947)) were in need of equently been misapplied. Not only *Coffee* sensu stricto very much larger of *Coffee* falling outside the definition -4) and three species of the closely 8) were found.

v full formal description of five new tal 11 taxa (probably worth specific considerable economic importance of l in as much detail as possible so as to ald lead to re-collection of both good al for experimental culture. As well as requirements for the description of existing taxa, this paper includes l a character list which will enable it anel with a moderate knowledge of

ccies C. arabica, C. camphora and C. this paper, although they have been list. In addition to cultivated plants, arabica: SE Sudan (Boma Plateau); abit) (fide Friis in Proc. 9 Plenary C. camphora: Sudan, Uganda & Tanosest to C. liberica var. dewerrei (De excelta Chev.): Sudan & Uganda. ng the species in Coffea are generally imperfectly known, definite opinions t only be made with difficulty. Furthinfrageneric taxa in this paper as the s have not been considered. In my bicoffea is artificial, especially with which is much closer to C. camphora

Historical increase in the number of coffee species







Namaroko coffee (Coffea namarokensis)

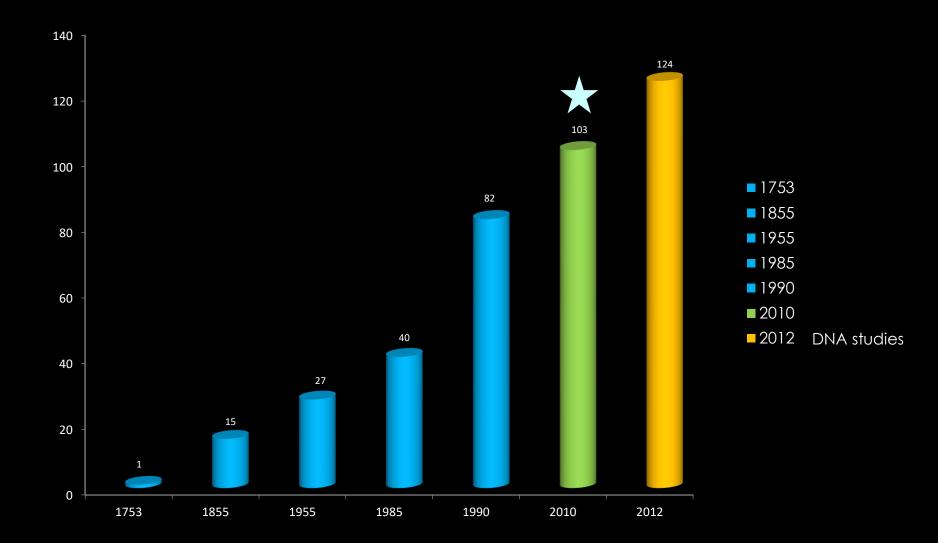


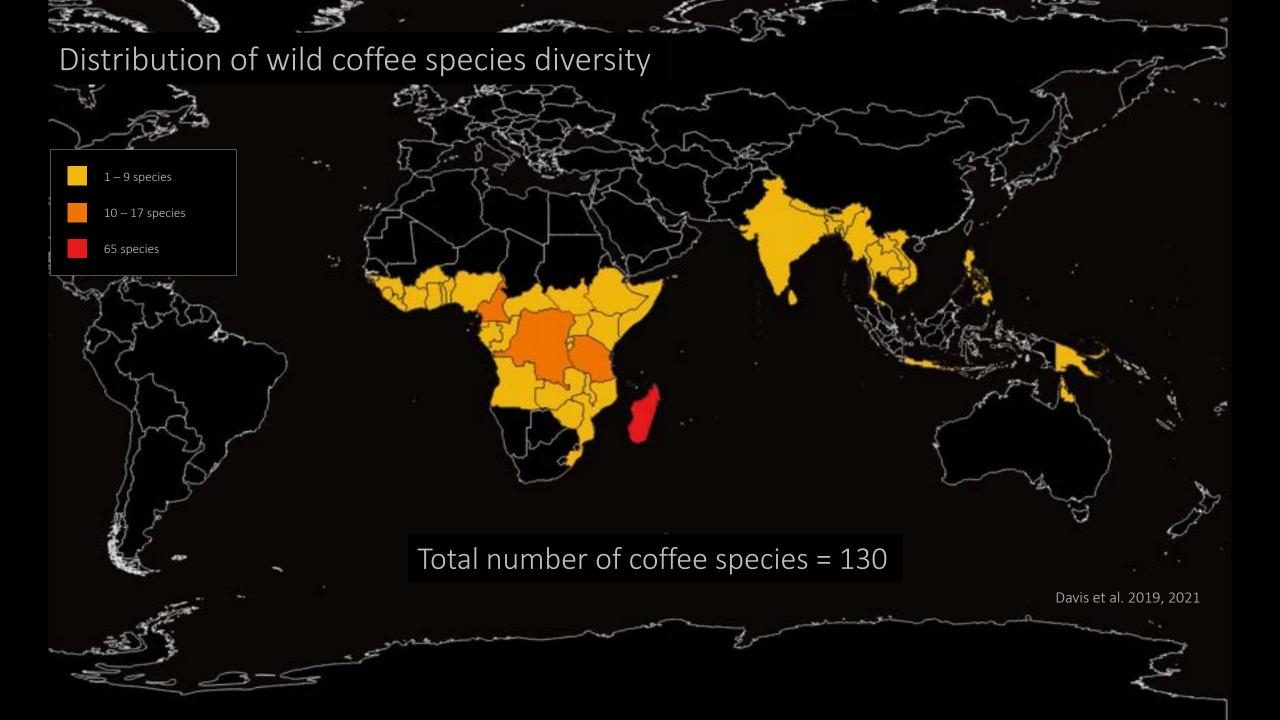
Ambongo coffee The world's largest coffee bean

Coffea ambongensis

Coffea arabica

Recent increase in the number of coffee species



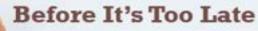


All coffee species have coffee beans



Coffee and climate change

Wake Up and Smell the Coffee



If you're one of those people who needs a cup of coffee to get going in the morning, your world may be changing.

In fact, it already is.

Climate change is threatening coffee crops in virtually every major coffee producing region of the world. Higher temperatures, intense rainfall coupled with long droughts, and more pests and disease — all associated with climate change — have reduced coffee supplies dramatically in recent years.

It ought to be a wake-up call for all of us. Because who wants to be around coffee drinkers who can't get their morning fix?

Find out what you can do at: www.ucsusa.org/CoffeeAndClimate

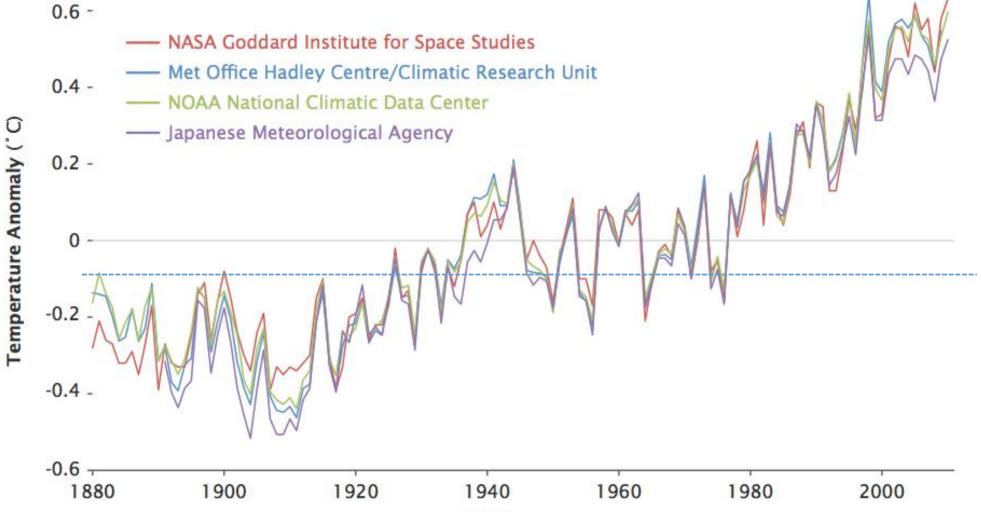


Union of Concerned Scientists



Global Surface Temperatures

Four independent records show nearly identical long-term warming trends.



Year



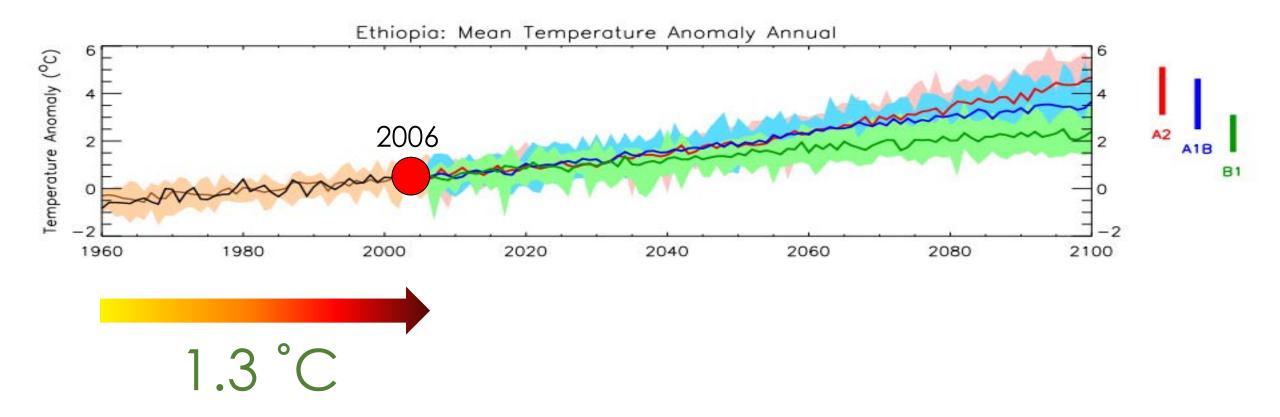
Ethiopia and coffee

There are 15,000,000 coffee farmers

Coffee provides 25-30% of export earnings

The world's 5th largest exporter

UNDP Climate Change Profile for Ethiopia



That's an 0.28°C increase per decade

Financed by the SCIP Fund



NORWIGIAN MINISTRY OF FOREIGN APPARTS - Contraction



Coffee Farming and Climate Change in Ethiopia Impacts, Forecasts, Resilience and Opportunities

Summary





ECFF

Coffe Atlas Ethiopi

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of

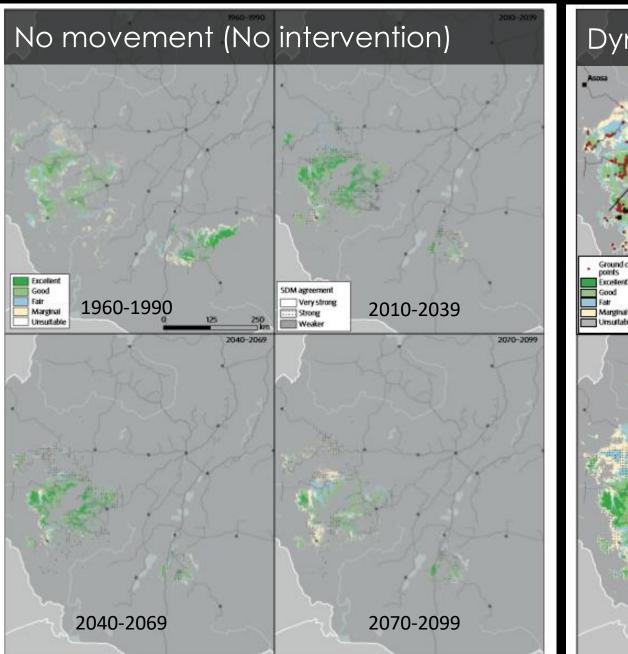
Ethiopia is the birth-place of coffee, the home of wild Arabica coffee (Coffee analica), and the largest coffee producer in Africa. Coffee drinking is an important part of Ethiopian culture and society. Ethiopian coffee is renowned for its wide diversity of flavour profiles, including the celebrated coffees of Gesha, Harar, Limu and Yingachelle, and for its association with forest-based farming systems.

The Coffee Atlas of Ethiopia maps the coffee landscape of Ethiopia, showing where coffee is (and could be) farmed, and the location of wild Arabico coffee forests. The maps include the main coffee growing origins, coffee towns and coffee delivery centres, as well as other useful features. The maps are accompanied by introductory test on geography, coffee use and consumption, botany, the coffee growing climate and environment, coffee farming, harvesting and processing, and an overview of the main coffee areas. The Coffee Atlas of Ethiopis is an essential resource for anyone working with, or interested in, coffee, and serves as a key geographical reference for Ethiopia.

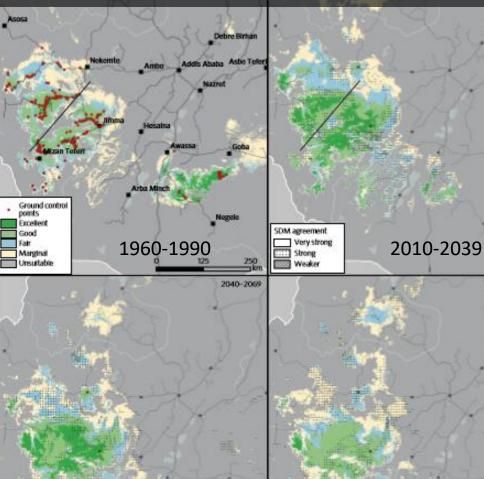


Coffee Atlas of Ethiopia

Aaron P. Davis, Tim Wil Zoloka Kebebow Challa, Jenny Williams, Susana Baona, Tadesse Woldemartam Gole and Autin Most



Dynamic landscape (Intervention)



2040-2069

2070-2099

2070-2099



The environmental impact of Coffee

Coffee farming and deforestation

Intensive coffee farming with no tree shade

Mainstreaming biodiversity conservation and climate resilience in Ethiopia



Yayu Biosphere Reserve

At Yayu, coffee generates up to 70% of the cash income for over 90% of the population

Image: Emily Garthwaite Union Hand-Roasted Coffee

Forest-based coffee farming

Image: Emily Garthwaite Union Hand-Roasted Coffee





Steven Macatonia and Jeremy Torz — Co-founders Union Hand-Roasted Coffee (London)



UNION DIRECT TRADE

A means we wink together with collean formers in long-term velationships, improving both the quality of softee and livelihoids.

READ HORE ABOUT THE TATU MIDJICT AND LATEST UPDATES ON

www.unioneosited.com/W/U www.lew.org/science/projects

PRESERVING WILD ARABICA AND IMPROVING LIVELIHOODS

The Years Farmer Reserve in Oblingin is new of the last and must important sampling places for the conservation of weld Auditors coffie.

Wild coffee forests and surrounding feedball areas are pairs of a califies fearing system that leaveling isolationals and centure conservation. We see working with the construction all Taps to improve the pairty of that coffee, which iso factors. Direct Transis means that better prices are paid to the Former. If the coffee is worth mean, the roloue of the forest date increases, providing an indextiles for the presentation.





THE TATU PROJECT

Working together with the Repet Betanic Genders, Kass, the Derwin Initiative, and Incel partners, our give is to:

traprove the long-term holdwork
of coffice formers of Yaya

Protect the local sector of the formal, which is home to hundreds of plant and unimal species, and important returns populations of Arabica coffee



UNION

HAND-ROASTED COFFEE



146–154% increase for processed (green) coffee prices

20–30% increase in household income

Image: Emily Garthwaite Union Hand-Roasted Coffee



Total kg of green coffee purchased

Total £ of green coffee purchased

195,560 kg (195 metric tonnes)

\$1,031,010 (2014-2018)

Image: Alan Schaller Union Hand-Roasted Coffee

Benefits of a forest-based farming

- Sequestering carbon (trees and soil)
- Providing ecosystem services (pollination, water recycling, soil preservation)
- Ameliorating climate (lowering temperatures)
- Preserving biodiversity
- Providing societal benefits (firewood, honey, building materials)

Image: Emily Garthwaite Union Hand-Roasted Coffee

Consumer choice and its importance

10000

ALL THIS DIVIDEND

TOO

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THE PROFES COMES SHOK TO HOLE

SPEEDIER

Co-operative Shopping 4 16.84

BARGAINS

FAMILY

10.00



