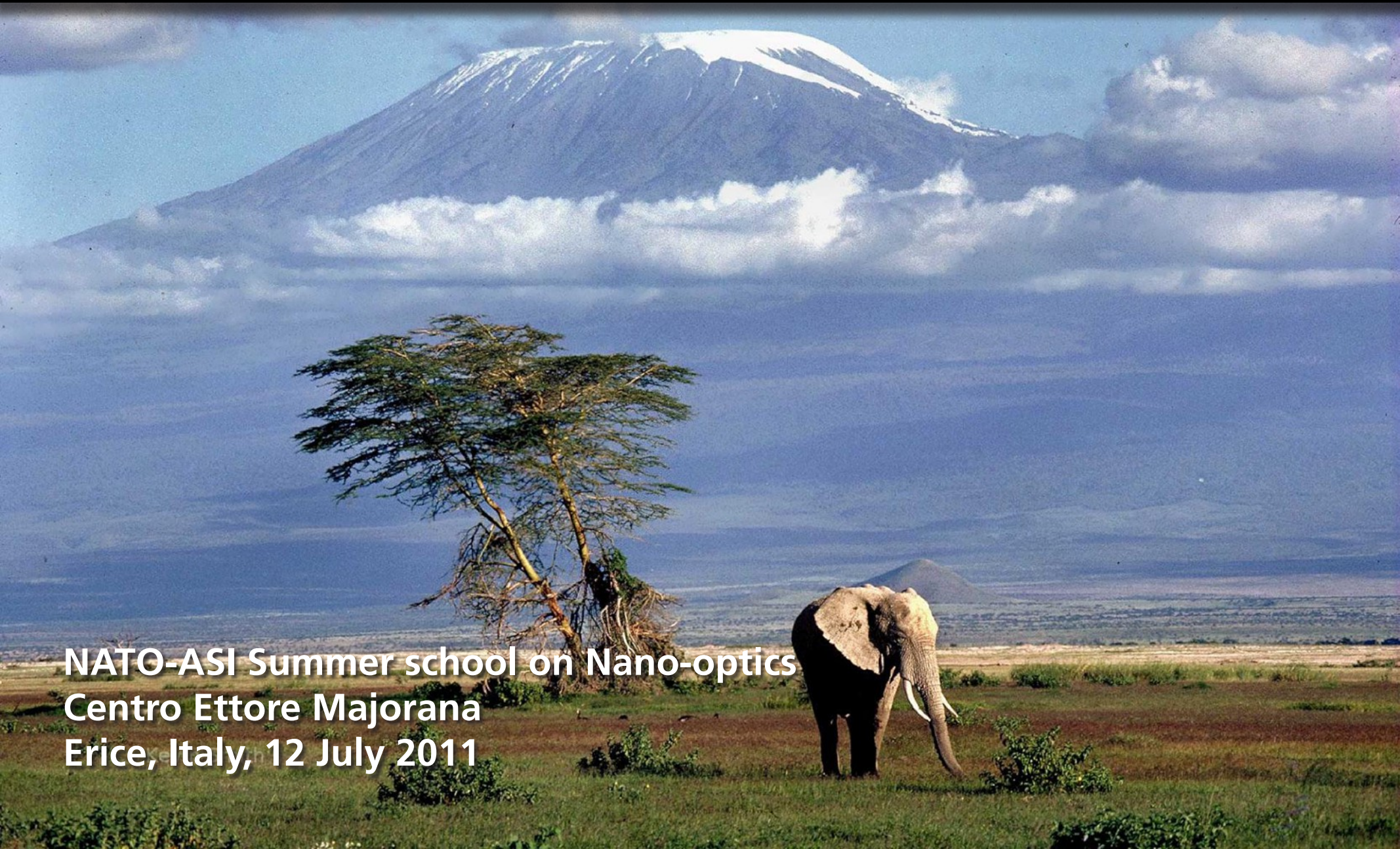


# Kilimanjaro



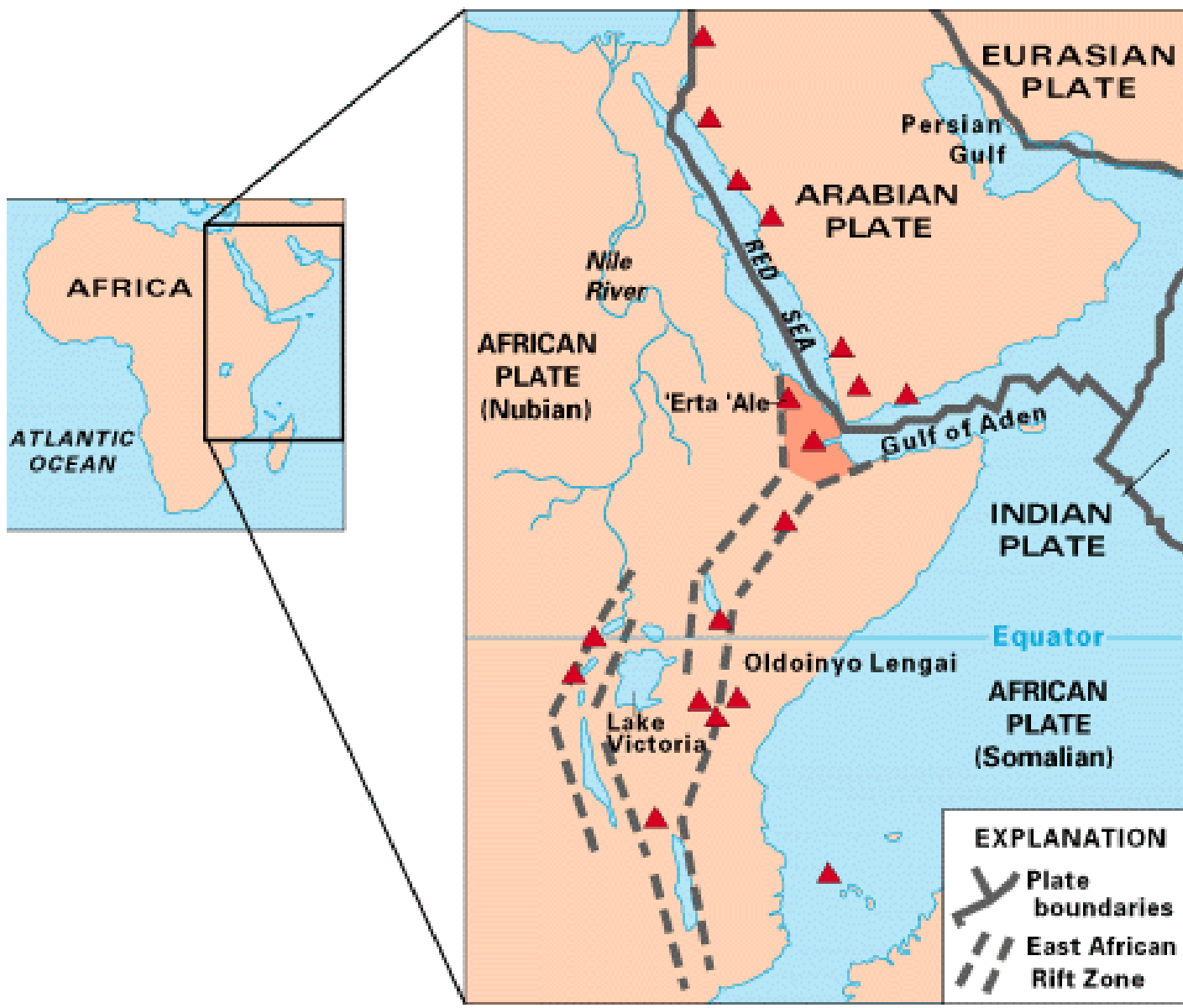
NATO-ASI Summer school on Nano-optics  
Centro Ettore Majorana  
Erice, Italy, 12 July 2011



Eric

Marc



























Look!

A close-up photograph of a person's lower legs and feet. The person is wearing a bright blue, short-sleeved dress and dark-colored, open-toed sandals with multiple straps. They are standing on a sandy beach. In the background, there is a large piece of white driftwood and a wooden pole. The text "WOW! Tires!" is overlaid on the image in a yellow, cursive font.

WOW!  
Tires!







JUTAN  
ORICINA  
ai shika  
cmx200cm











# How big is Kilimanjaro?



# How big is Kilimanjaro?



## Altitude

|         |        |
|---------|--------|
| Kibo    | 5895 m |
| Mawenzi | 5149 m |
| Shira   | 3962 m |



# How big is Kilimanjaro?



## Altitude

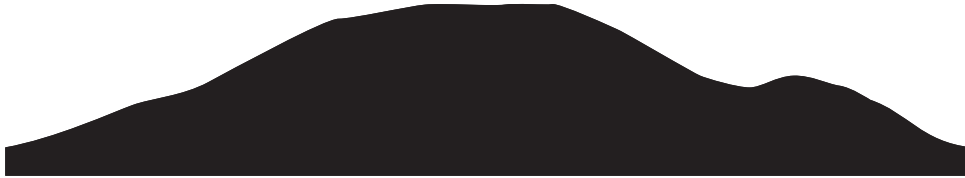
|         |        |
|---------|--------|
| Kibo    | 5895 m |
| Mawenzi | 5149 m |
| Shira   | 3962 m |

## Dimensions

|               |            |
|---------------|------------|
| Base          | 75 x 50 km |
| Reusch crater | 1 km Ø     |
| Crater rim    | 5 km Ø     |

# How big is Kilimanjaro?

Kilimanjaro



# How big is Kilimanjaro?

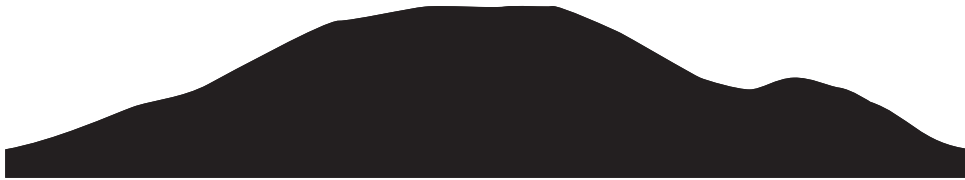
Kilimanjaro

Erice



# How big is Kilimanjaro?

Kilimanjaro



Erice



# How big is Kilimanjaro?

Kilimanjaro



Erice



# How big is Kilimanjaro?

Kilimanjaro



Erice



# How big is Kilimanjaro?

Kilimanjaro

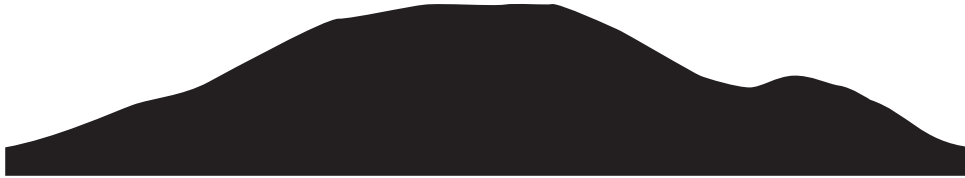


Erice



# How big is Kilimanjaro?

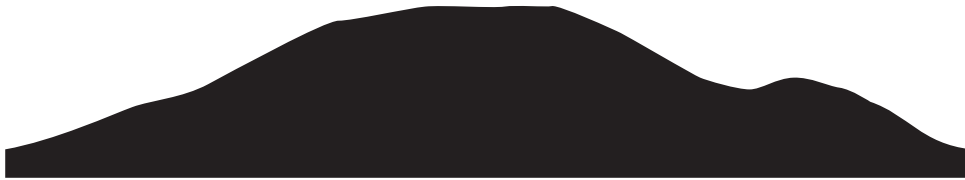
Kilimanjaro





# How big is Kilimanjaro?

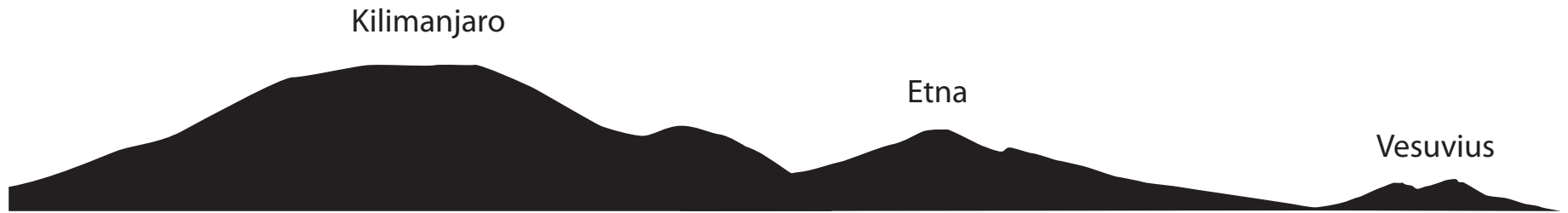
Kilimanjaro



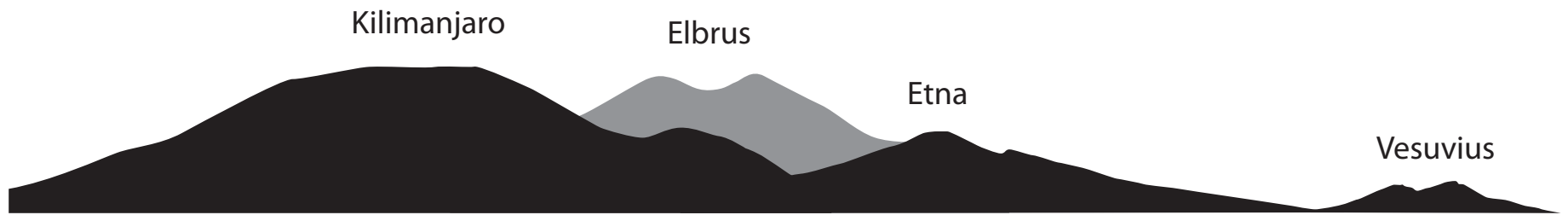
Vesuvius



# How big is Kilimanjaro?



# How big is Kilimanjaro?



# How big is Kilimanjaro?



# How big is Kilimanjaro?

height above sea level



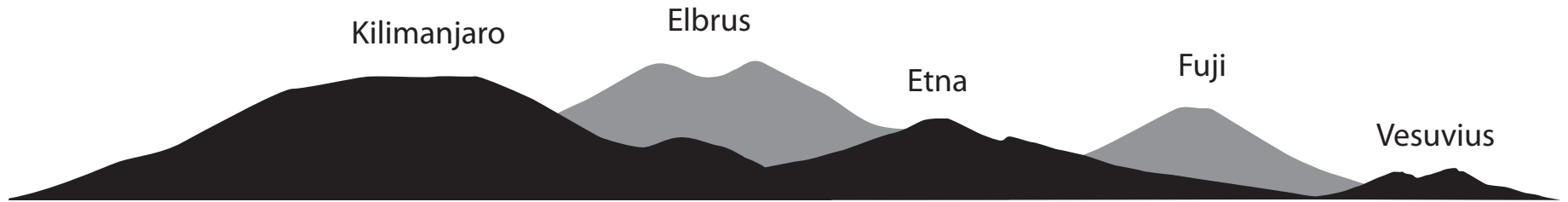
# How big is Kilimanjaro?

height above base



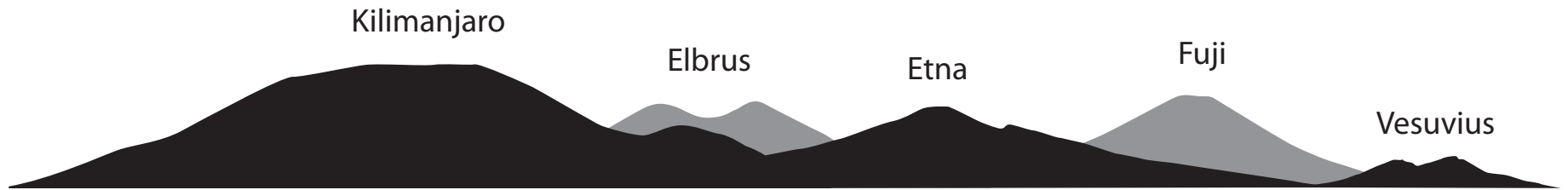
# How big is Kilimanjaro?

height above base



# How big is Kilimanjaro?

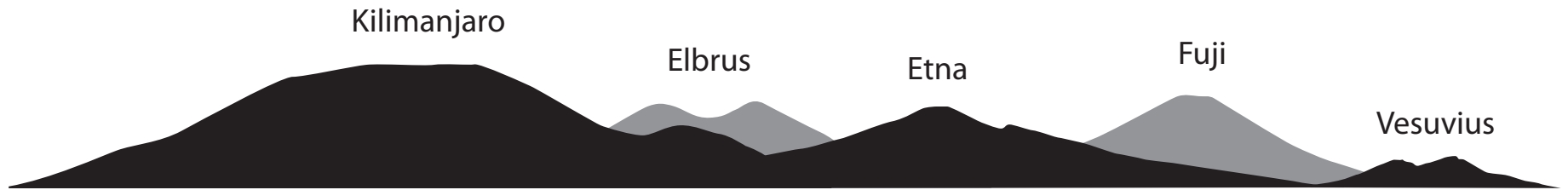
height above base





# How big is Kilimanjaro?

height above “base camp”



# How big is Kilimanjaro?

height above “base camp”



# How big is Kilimanjaro?

height above “base camp”



# How big is Kilimanjaro?

height above “base camp”



# How big is Kilimanjaro?

height above “base camp”



# How big is Kilimanjaro?

height above “base camp”



# How big is Kilimanjaro?



# How big is Kilimanjaro?





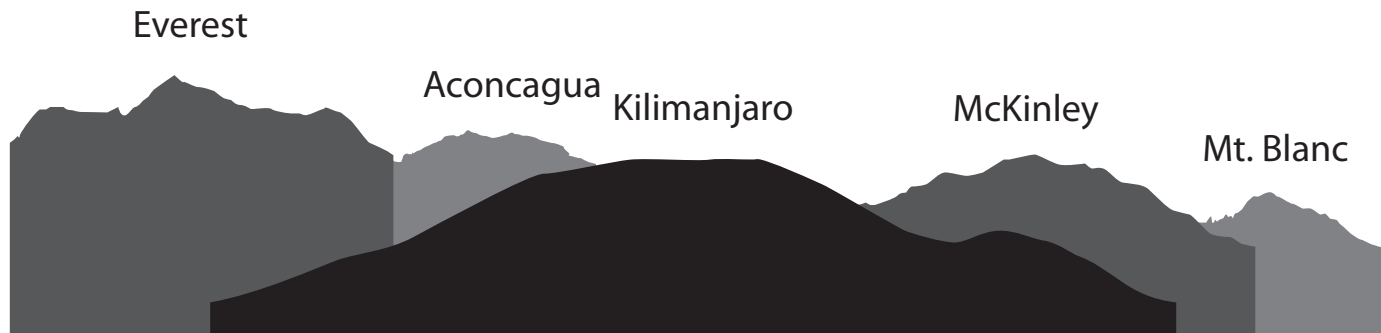
# How big is Kilimanjaro?



# How big is Kilimanjaro?



# How big is Kilimanjaro?



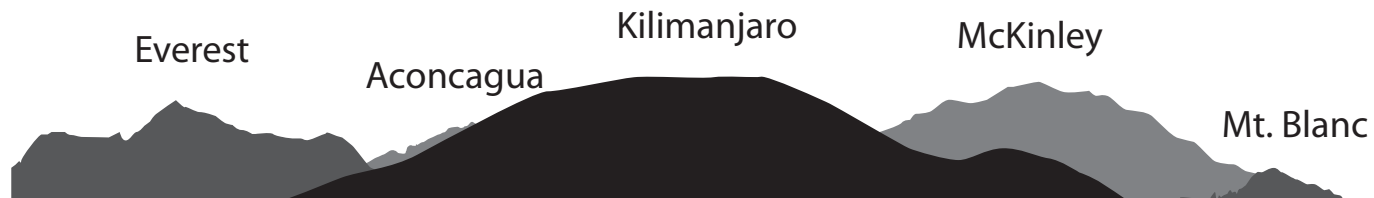
# How big is Kilimanjaro?

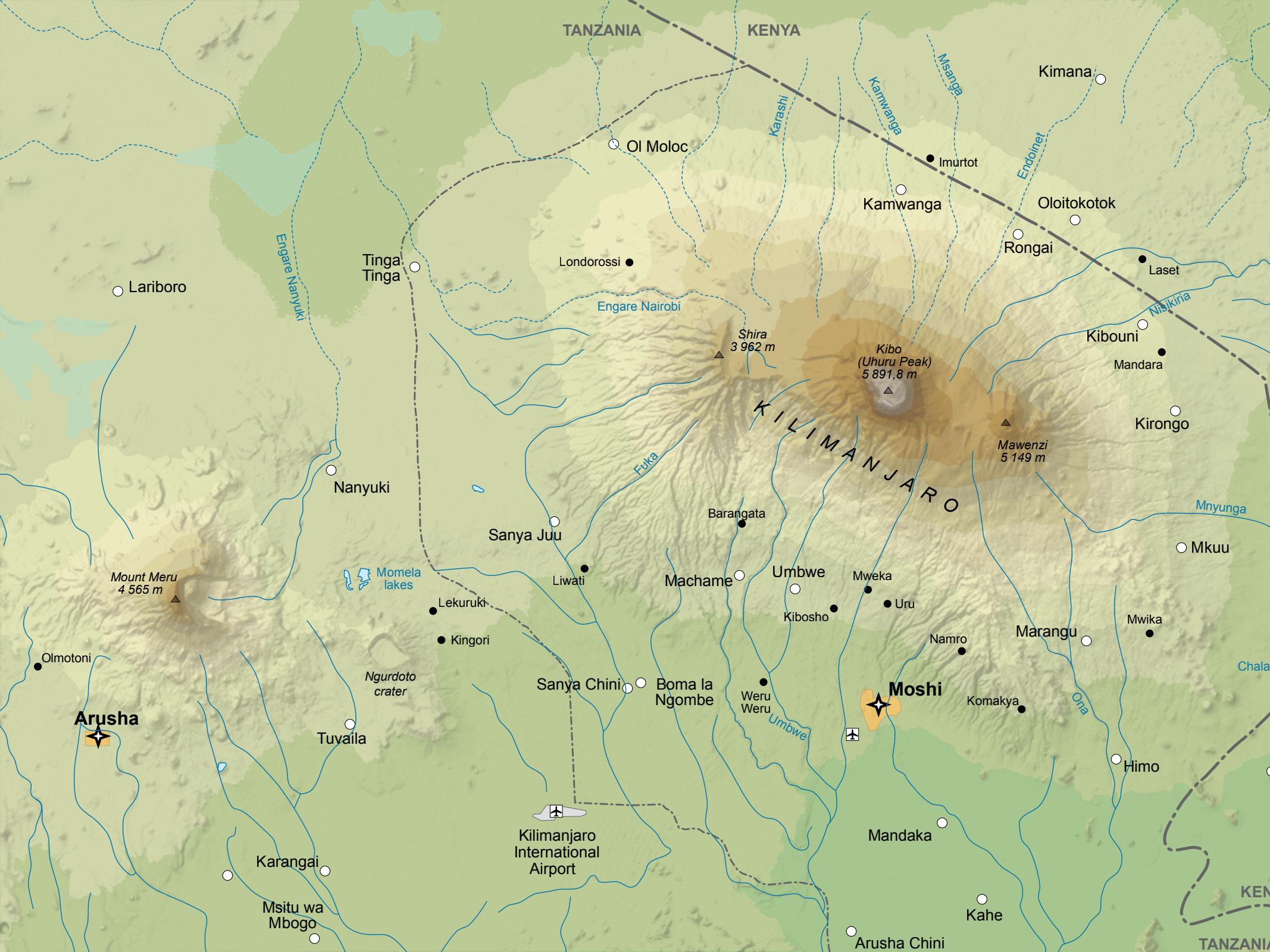
height above base



# How big is Kilimanjaro?

height above “base camp”





TANZANIA

KENYA

Kimana

Oi Moloc

Imurrot

Kamwanga

Oloitokotok

Rongai

Lariboro

Tinga Tinga

Londorossi

Engare Nairobi

Shira  
3 962 m

Kibo  
(Uhuru Peak)  
5 891,8 m

Laset

Kibouni

Mandara

Kirongo

Mawenzi  
5 149 m

Nanyuki

Sanya Juu

Barangata

Fuka

Machame

Umbwe

Mweka

Uru

Mount Meru  
4 565 m

Momela lakes

Lekuruki

Liwati

Kingori

Boma la Ngombe

Weru Weru

Kibosho

Namro

Marangu

Mwika

Mnyunga

Mkuu

Olmotoni

Arusha

Tuvaïla

Ngurdoto crater

Sanya Chini

Moshi

Komakya

Chala

Ora

Himo

Kilimanjaro International Airport

Mandaka

Karangai

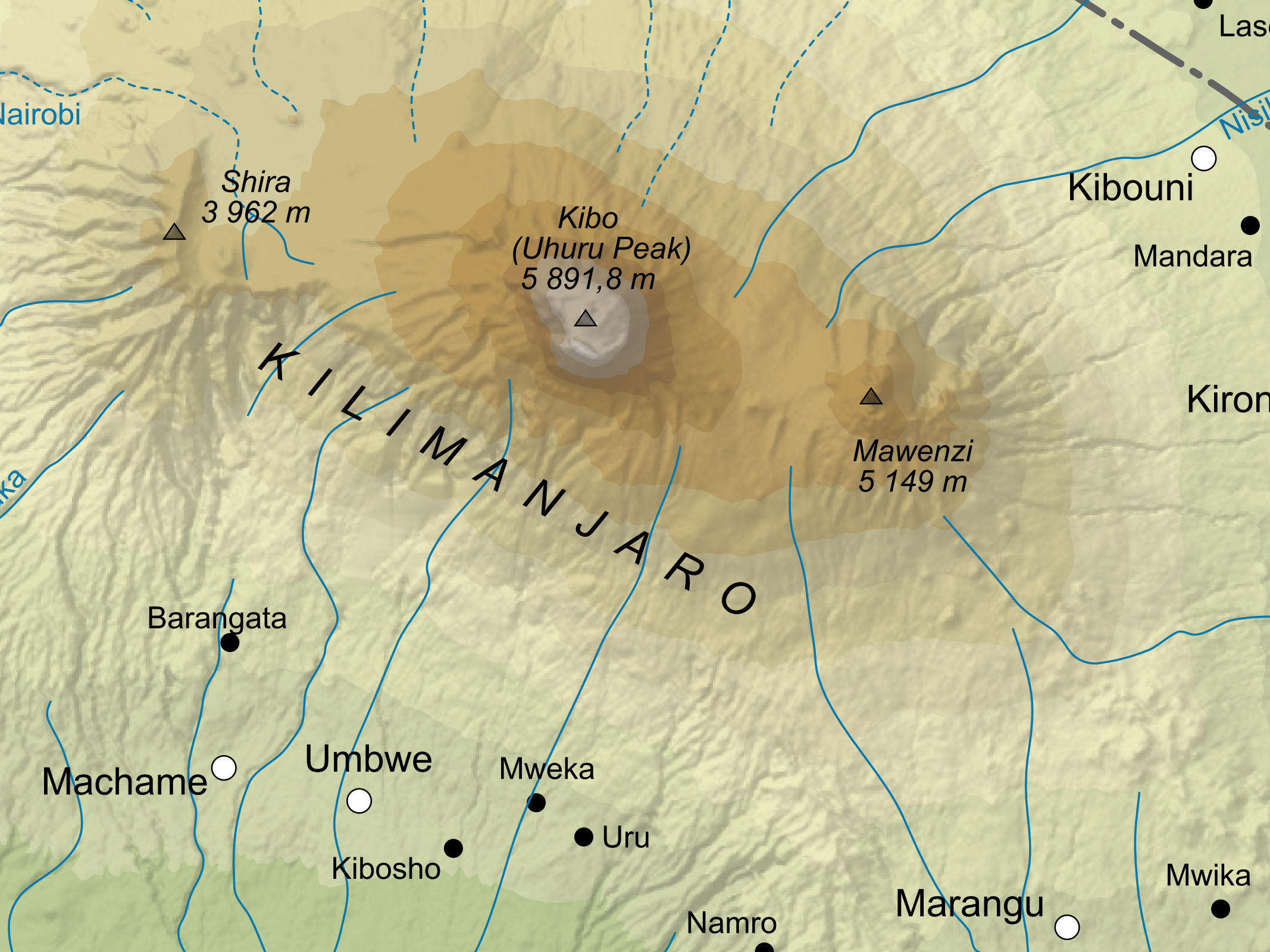
Kahe

Msitu wa Mbogo

Arusha Chini

TANZANIA

KENYA



Nairobi

Shira  
3 962 m

Kibo  
(Uhuru Peak)  
5 891,8 m

Mawenzi  
5 149 m

KILIMANJARO

Barangata

Machame

Umbwe

Mweka

Uru

Kibosho

Namro

Marangu

Mwika

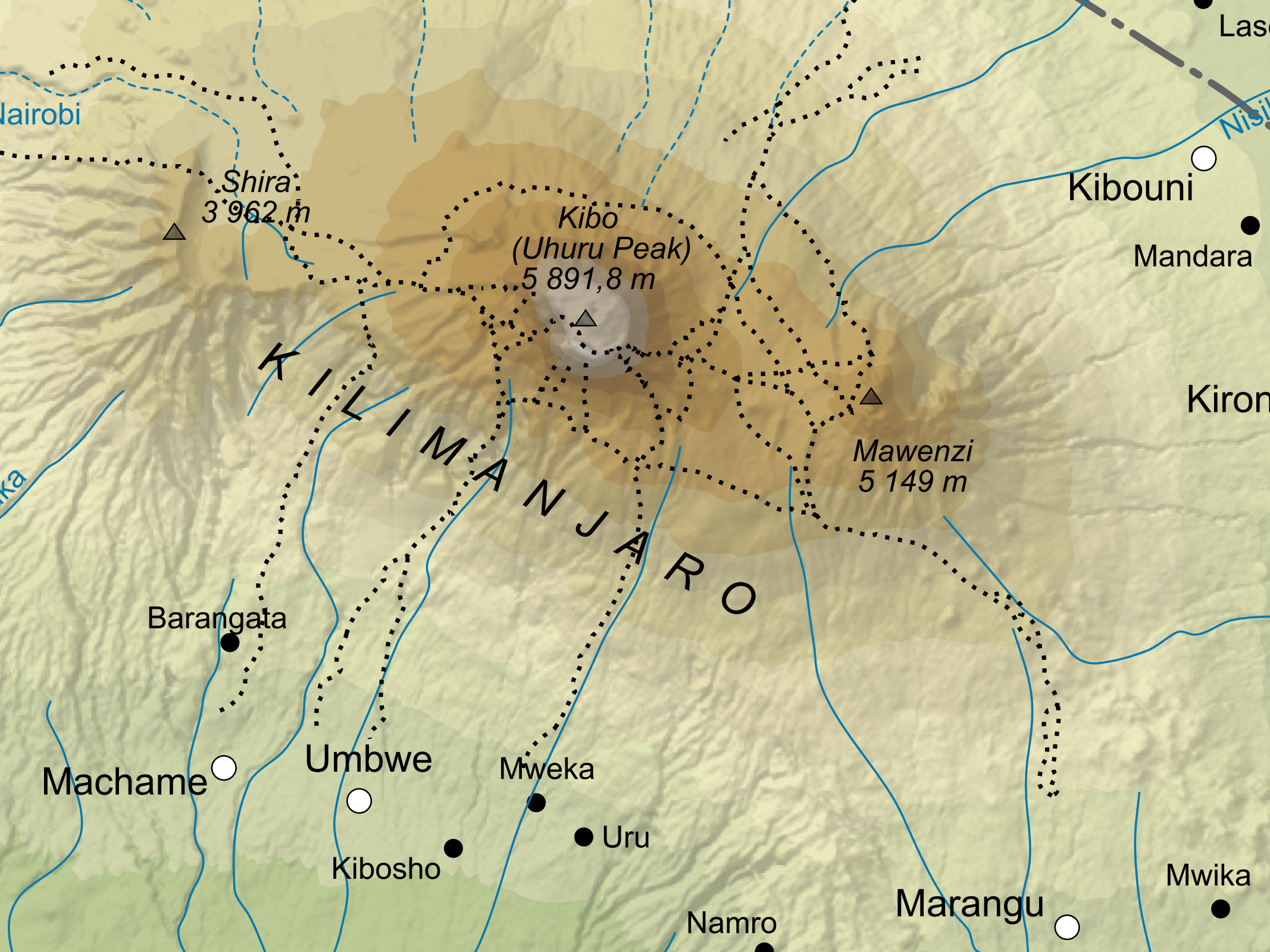
Kibouni

Mandara

Kiron

Las

Nisi



Shira  
3 962 m

Kibo  
(Uhuru Peak)  
5 891,8 m

Mawenzi  
5 149 m

KILIMANJARO

Barangata

Machame

Umbwe

Mweka

Uru

Kibosho

Namro

Marangu

Mwika

Kibouni

Mandara

Kiron

Nairobi

Las

Nisi



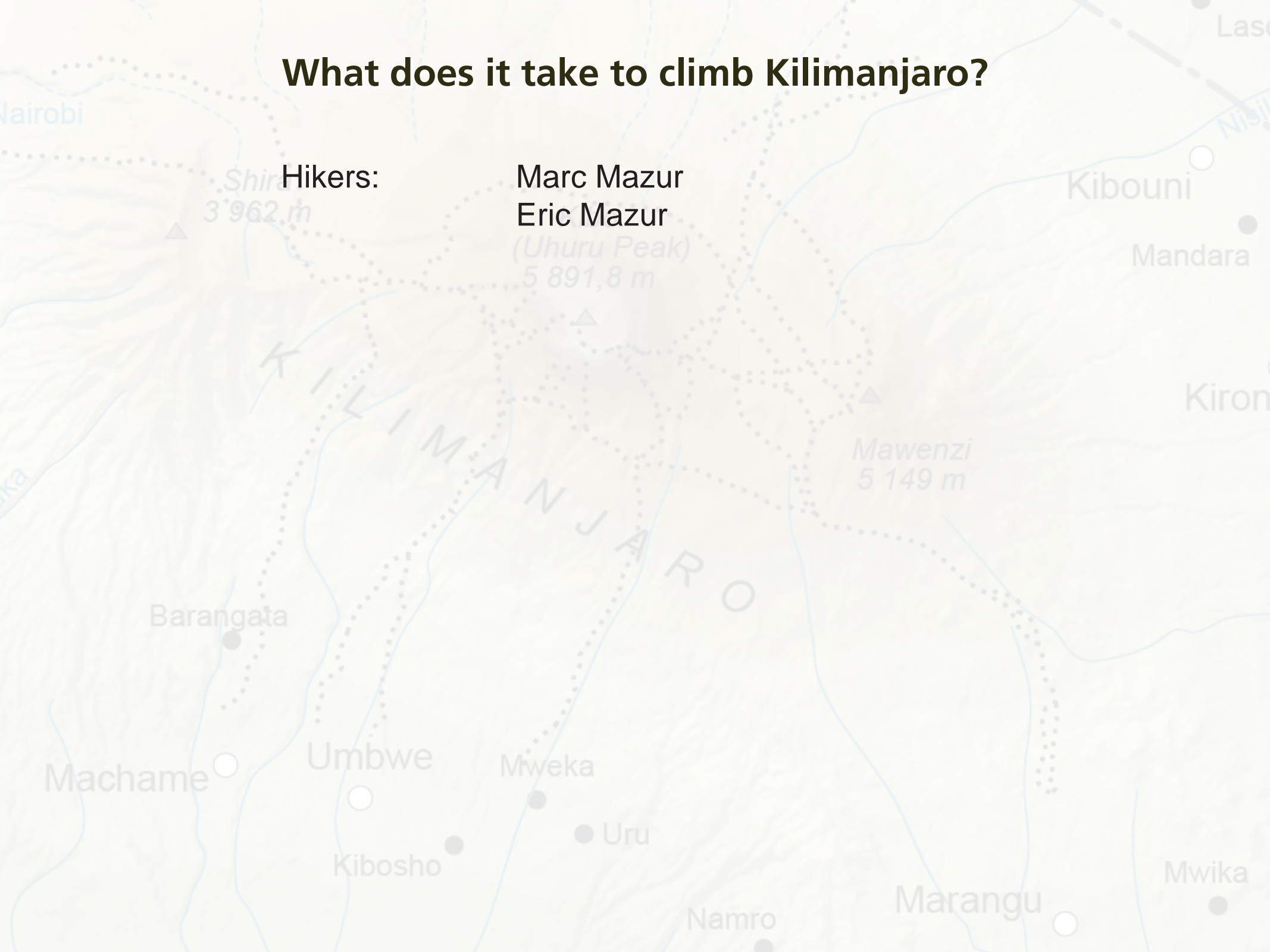
# What does it take to climb Kilimanjaro?



# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur  
Eric Mazur



# What does it take to climb Kilimanjaro?

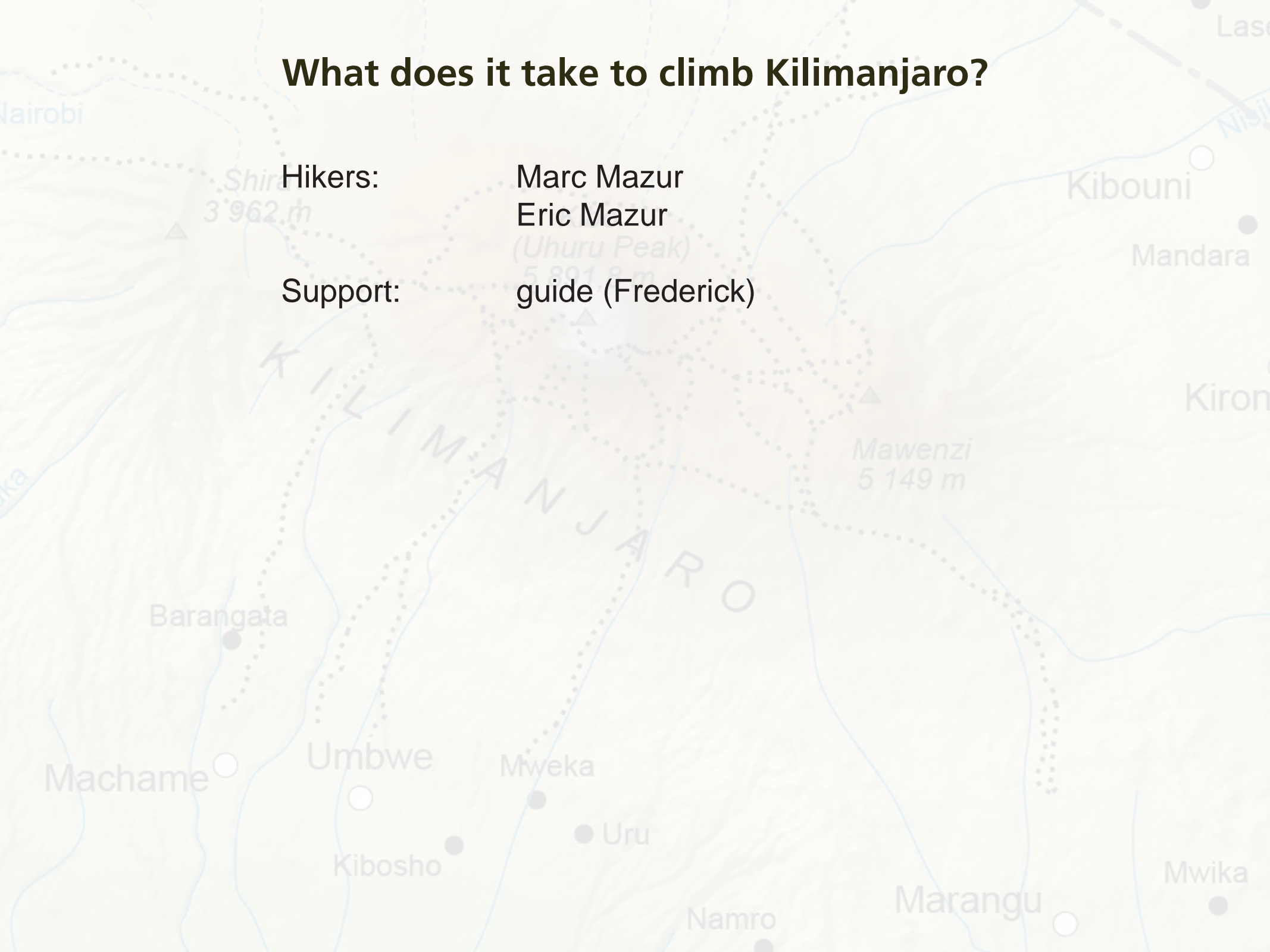
Hikers:

Marc Mazur

Eric Mazur

Support:

guide (Frederick)



# What does it take to climb Kilimanjaro?

Hikers:

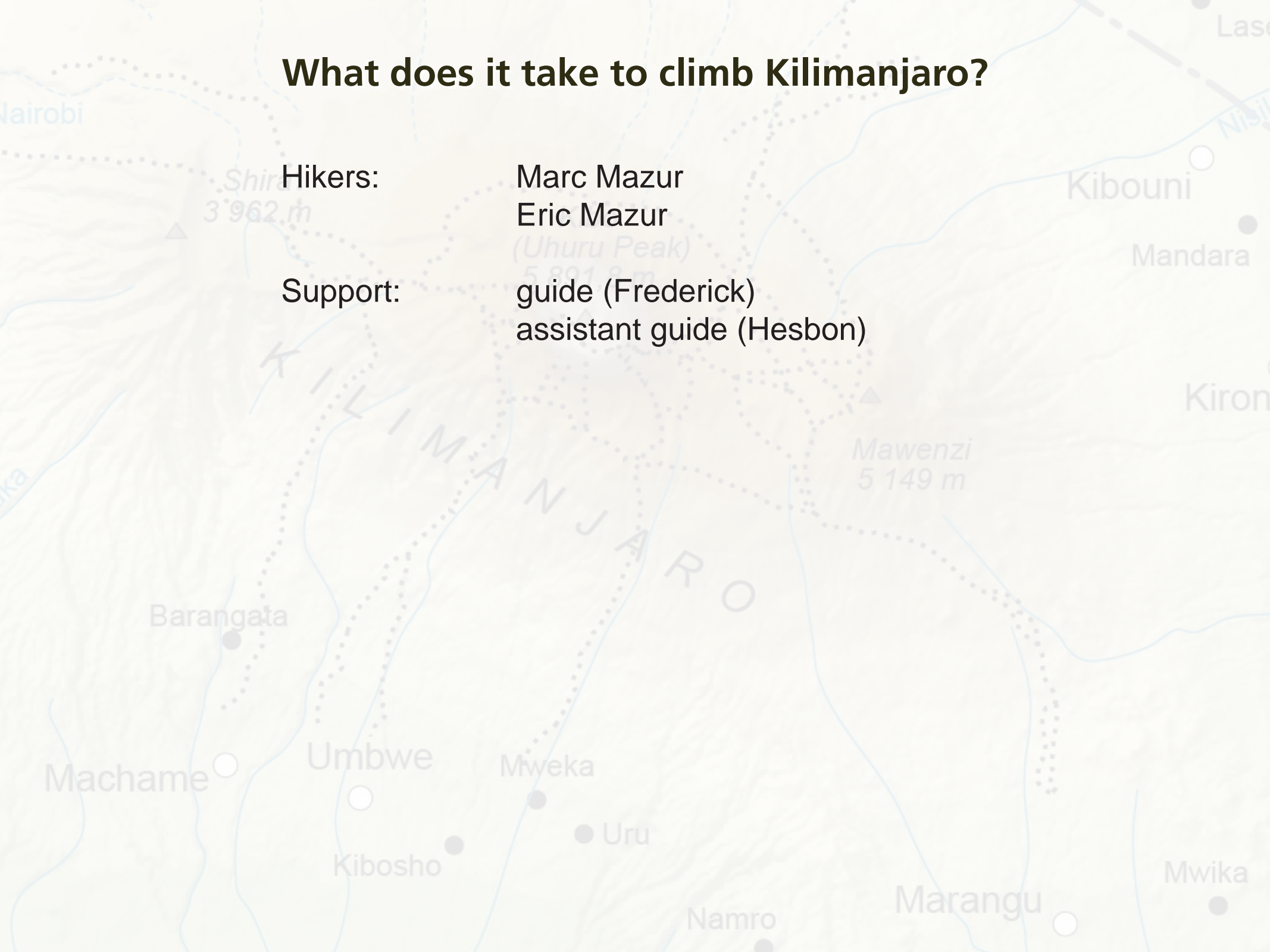
Marc Mazur

Eric Mazur

Support:

guide (Frederick)

assistant guide (Hesbon)



# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur

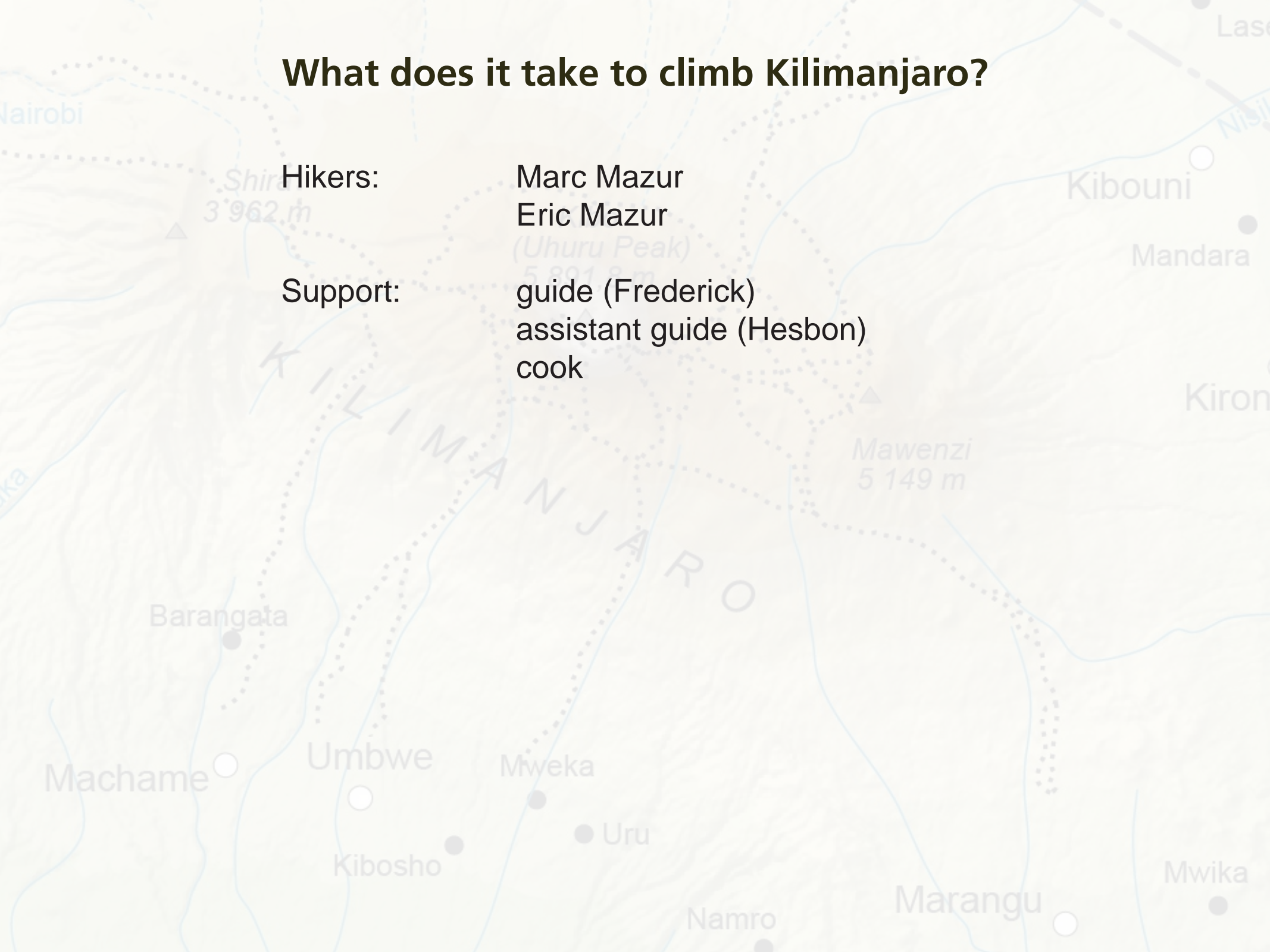
Eric Mazur

Support:

guide (Frederick)

assistant guide (Hesbon)

cook



# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur

Eric Mazur

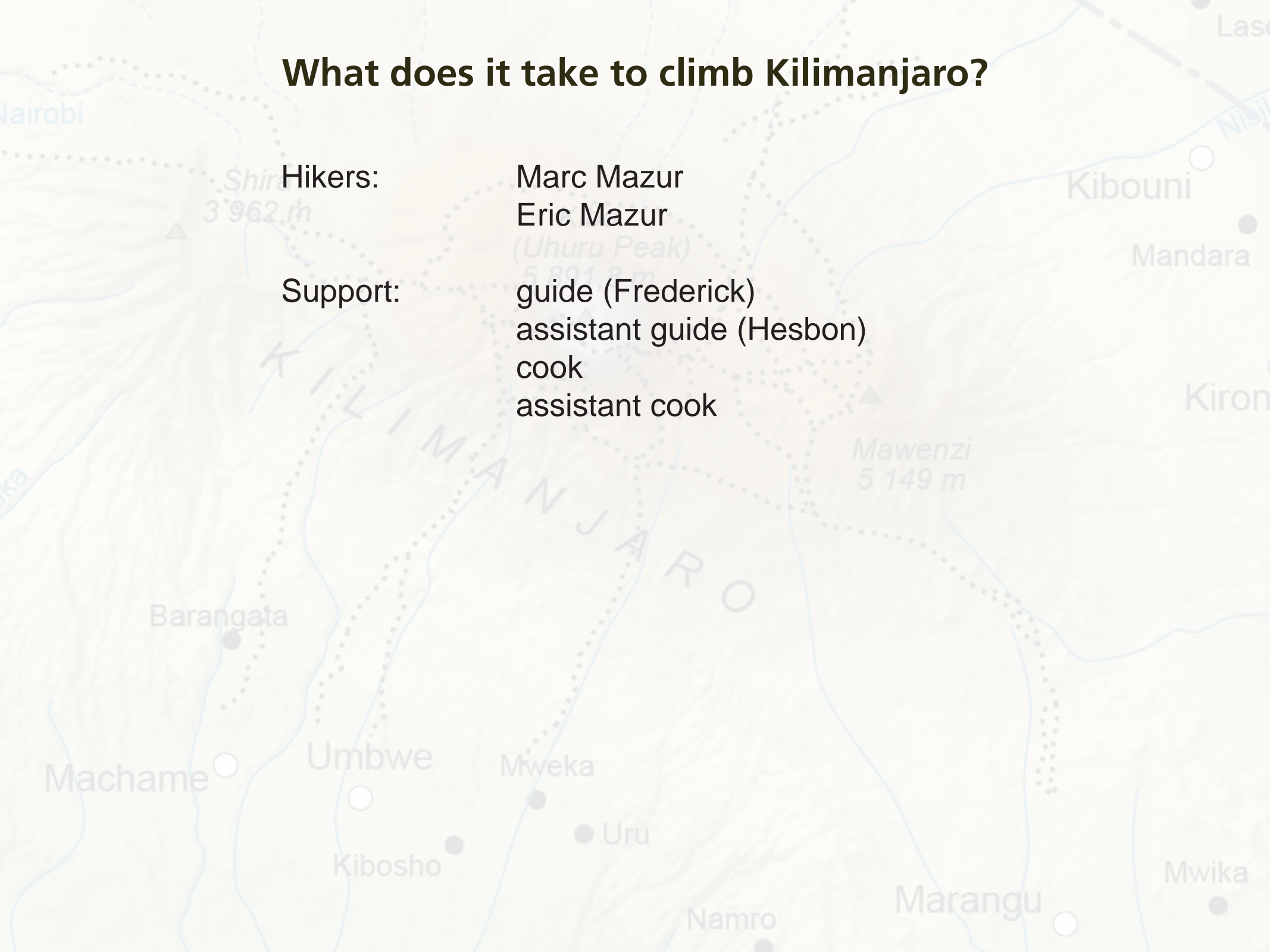
Support:

guide (Frederick)

assistant guide (Hesbon)

cook

assistant cook



# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur

Eric Mazur

Support:

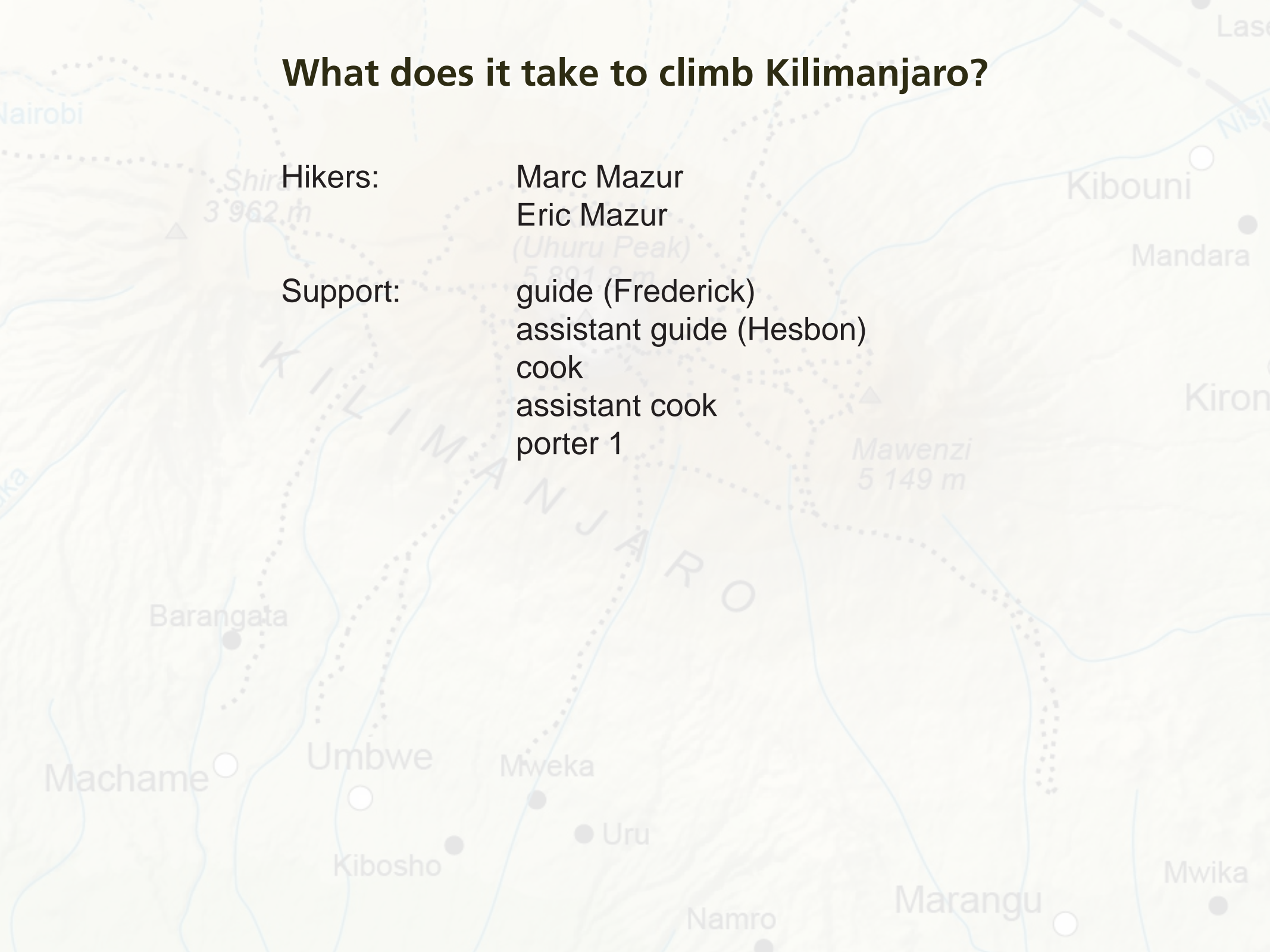
guide (Frederick)

assistant guide (Hesbon)

cook

assistant cook

porter 1



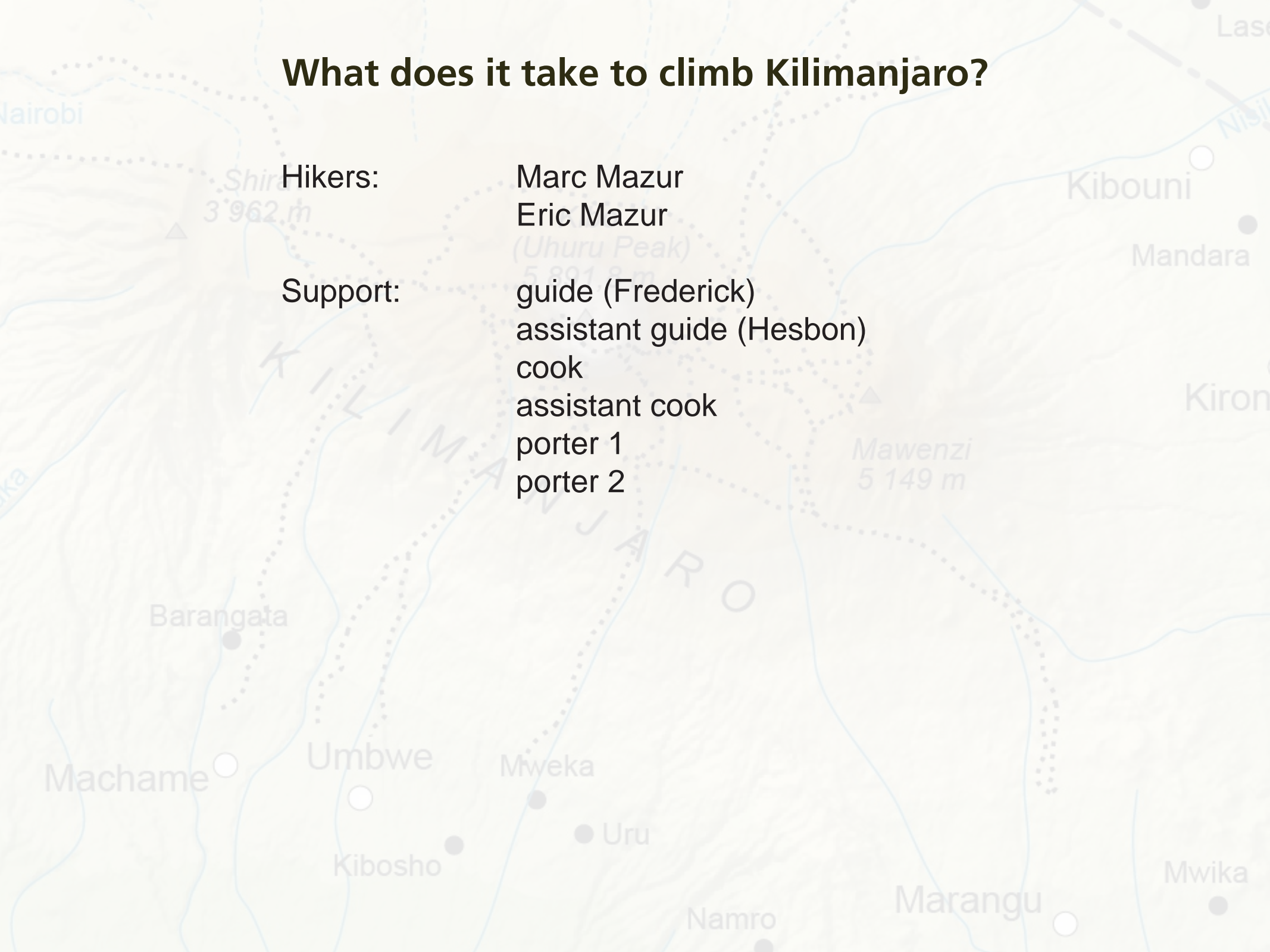
# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur  
Eric Mazur

Support:

guide (Frederick)  
assistant guide (Hesbon)  
cook  
assistant cook  
porter 1  
porter 2





# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur

Eric Mazur

Support:

guide (Frederick)

assistant guide (Hesbon)

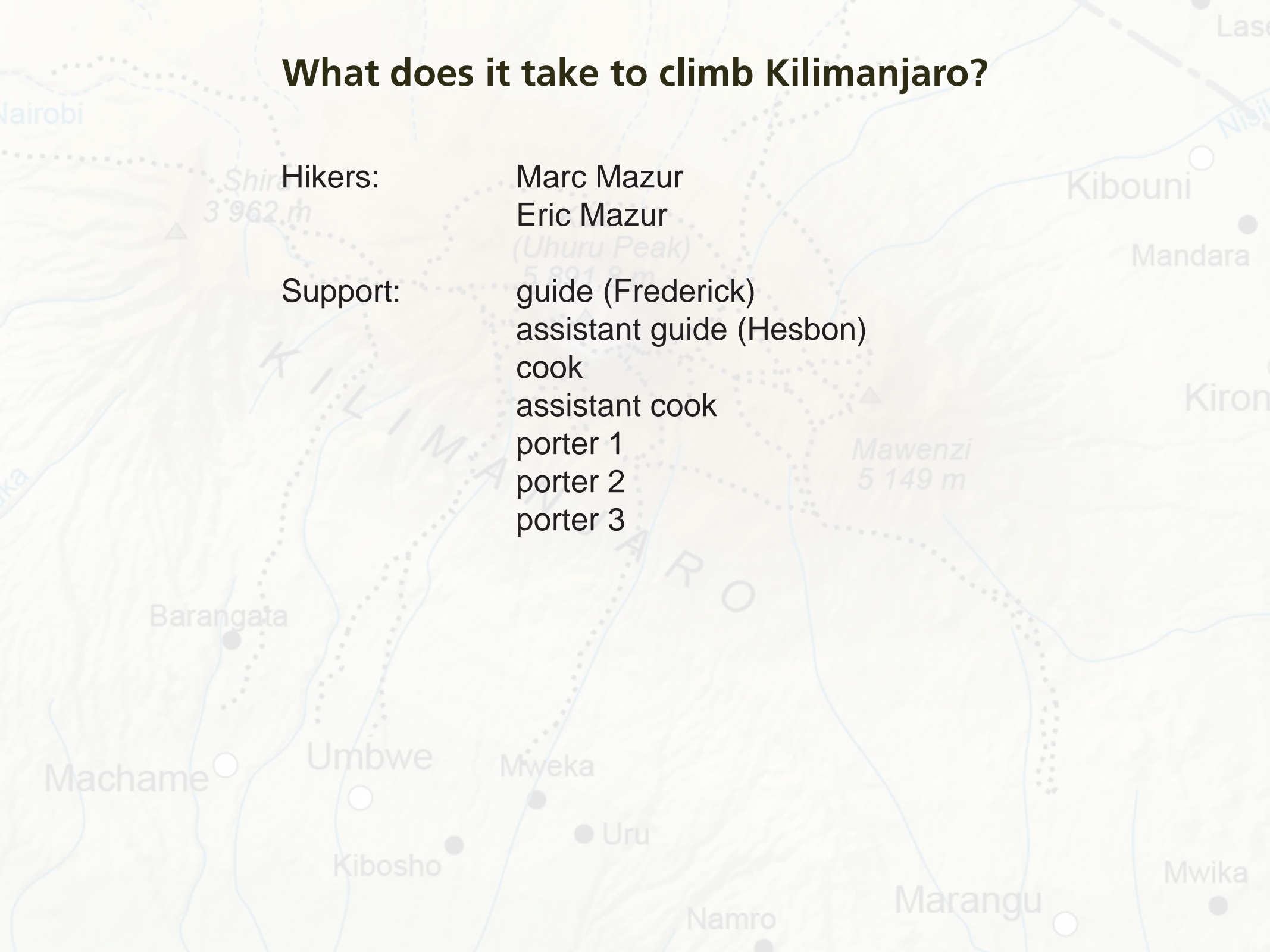
cook

assistant cook

porter 1

porter 2

porter 3



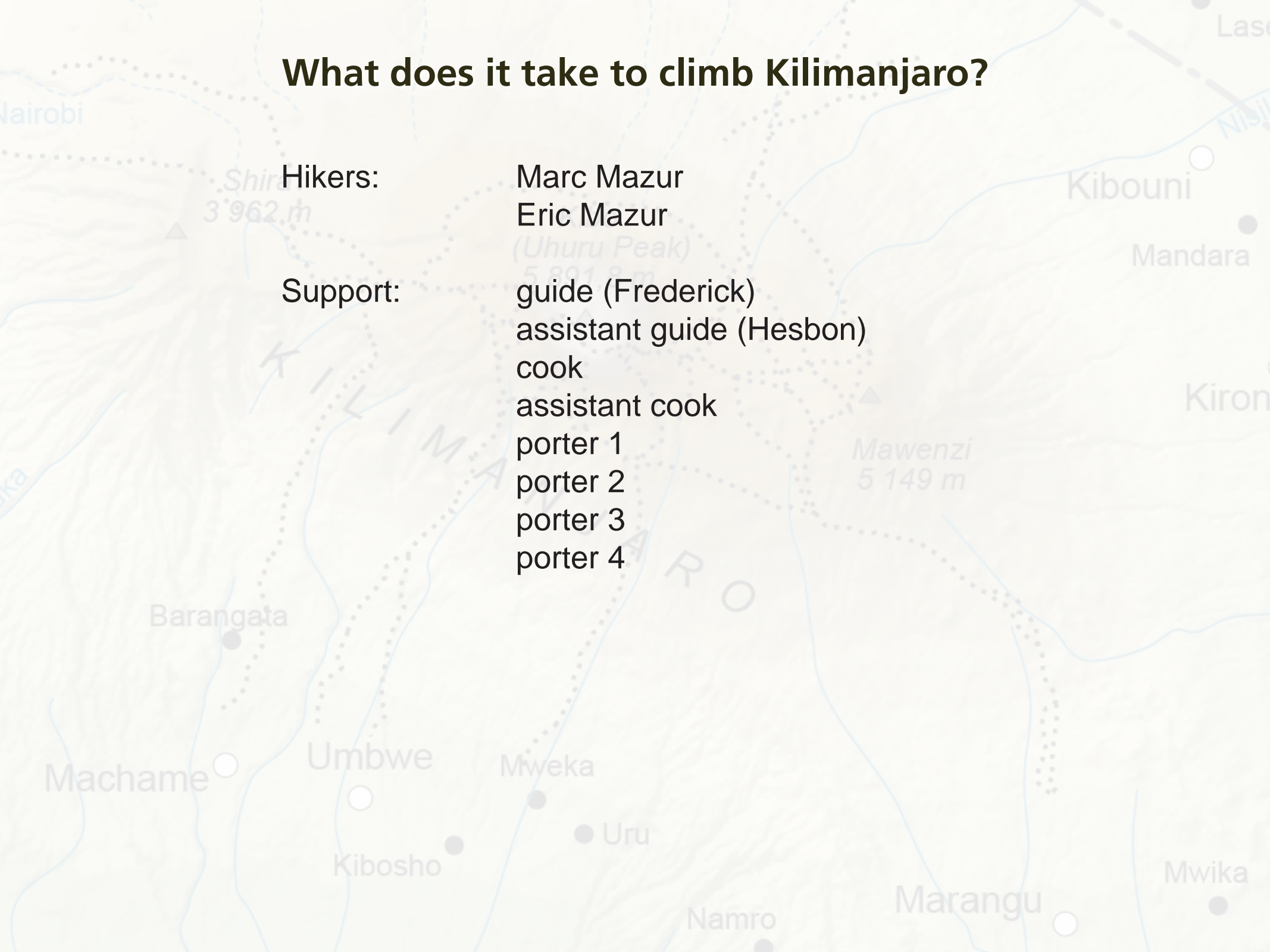
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Support:

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assistant guide (Hesbon)  
cook  
assistant cook  
porter 1  
porter 2  
porter 3  
porter 4



# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur

Eric Mazur

Support:

guide (Frederick)

assistant guide (Hesbon)

cook

assistant cook

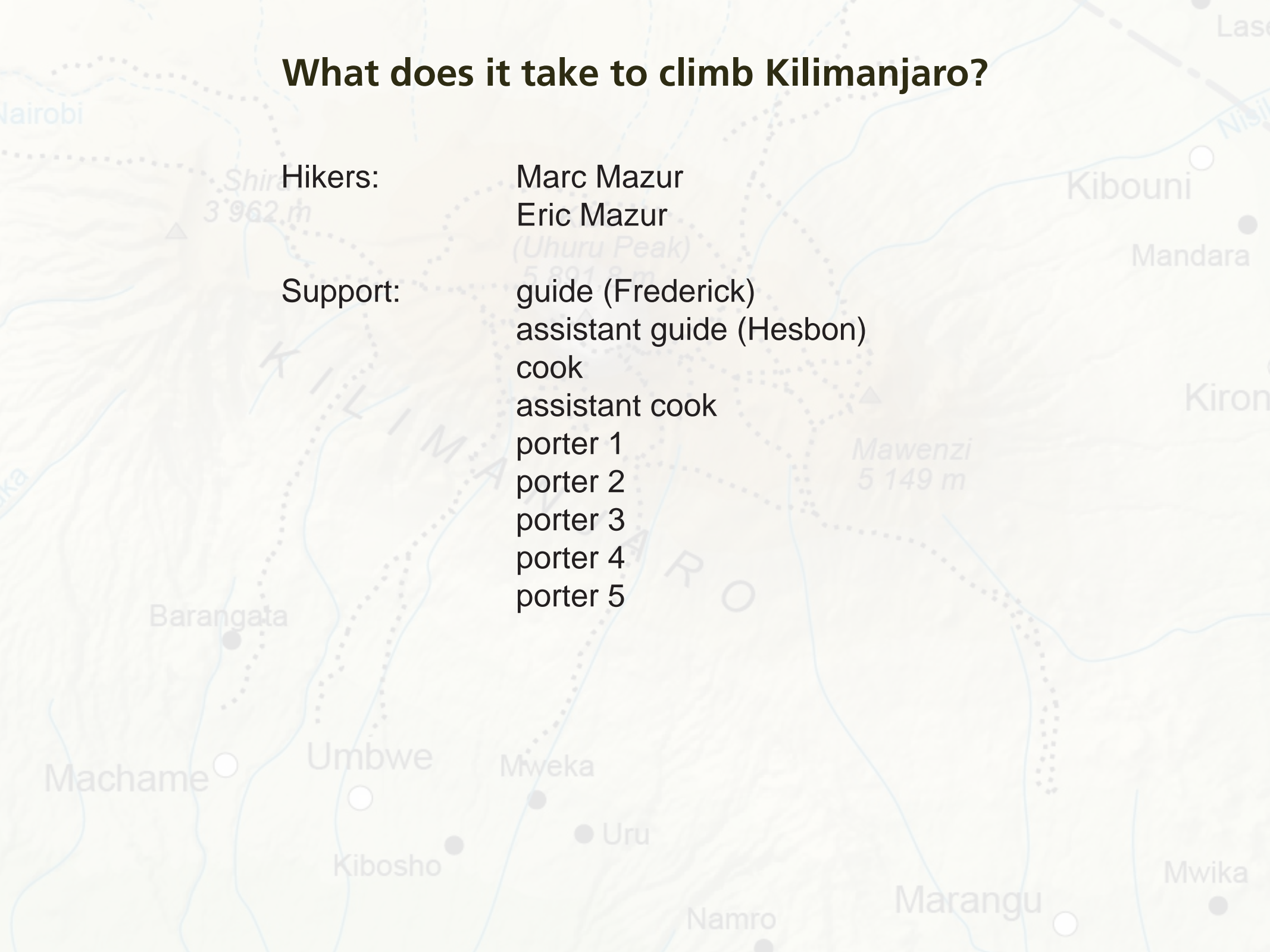
porter 1

porter 2

porter 3

porter 4

porter 5



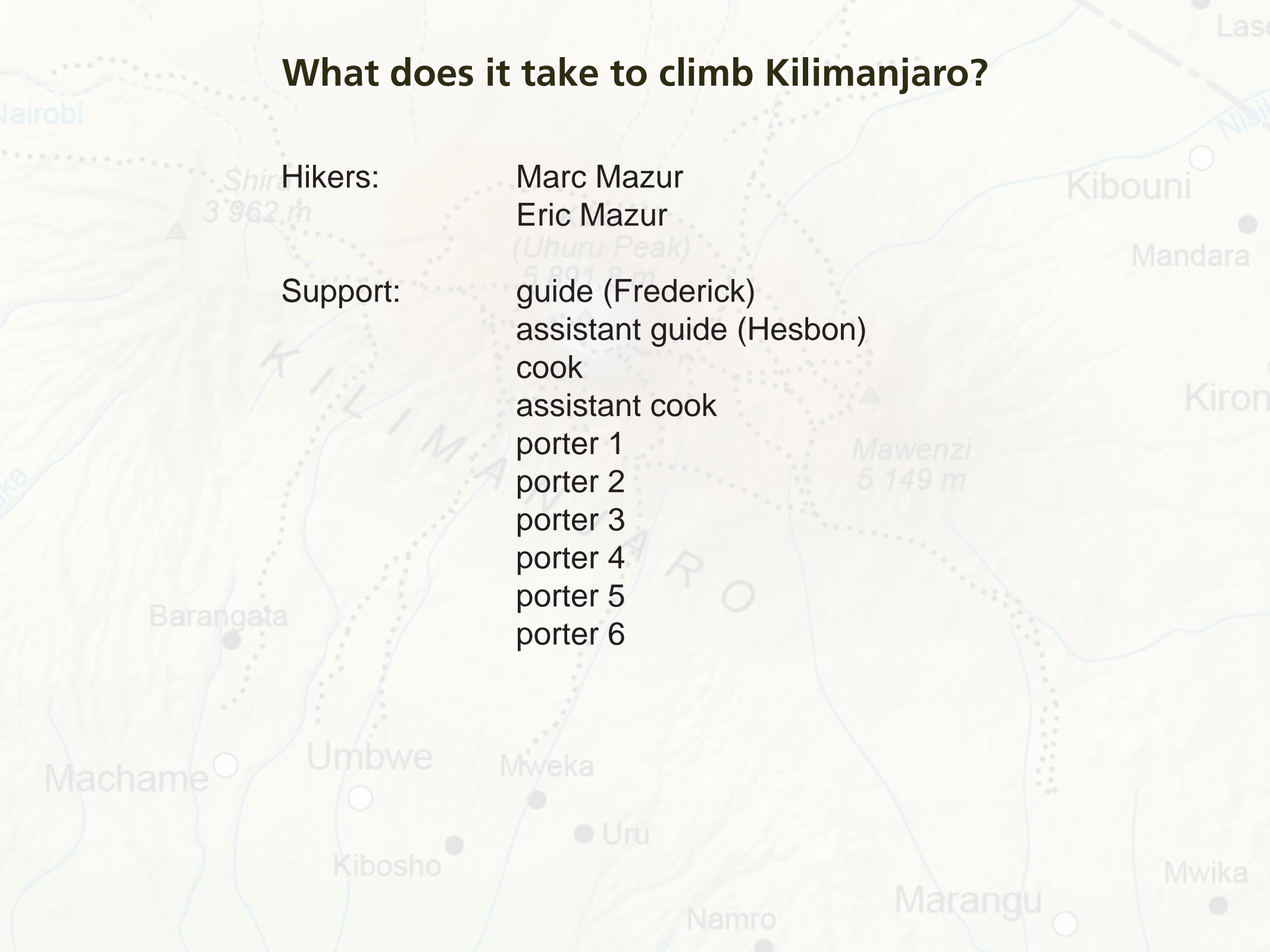
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Support:

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cook  
assistant cook  
porter 1  
porter 2  
porter 3  
porter 4  
porter 5  
porter 6



# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur

Eric Mazur

Support:

guide (Frederick)

assistant guide (Hesbon)

cook

assistant cook

porter 1

porter 2

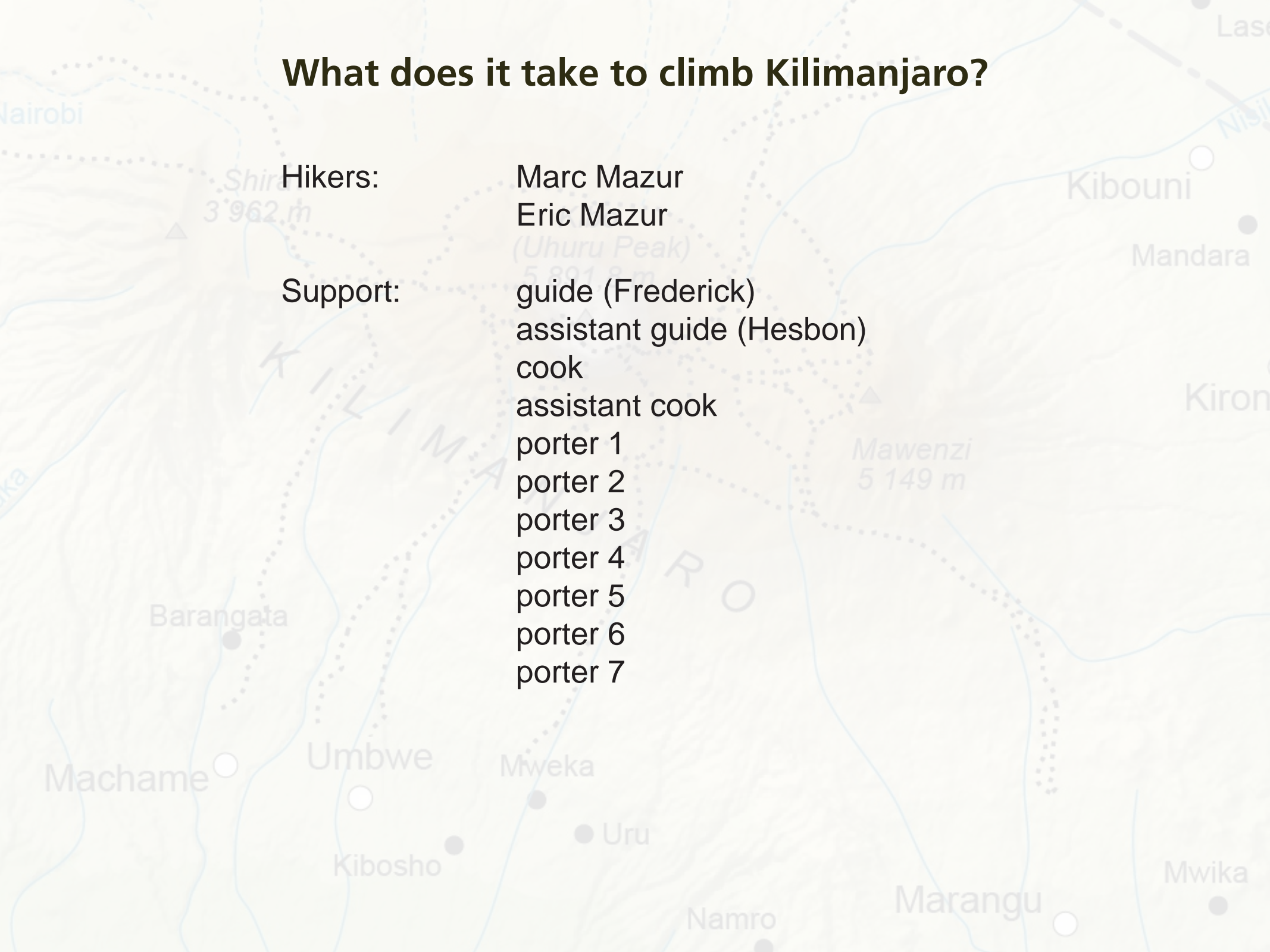
porter 3

porter 4

porter 5

porter 6

porter 7



# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur

Eric Mazur

Support:

guide (Frederick)

assistant guide (Hesbon)

cook

assistant cook

porter 1

porter 2

porter 3

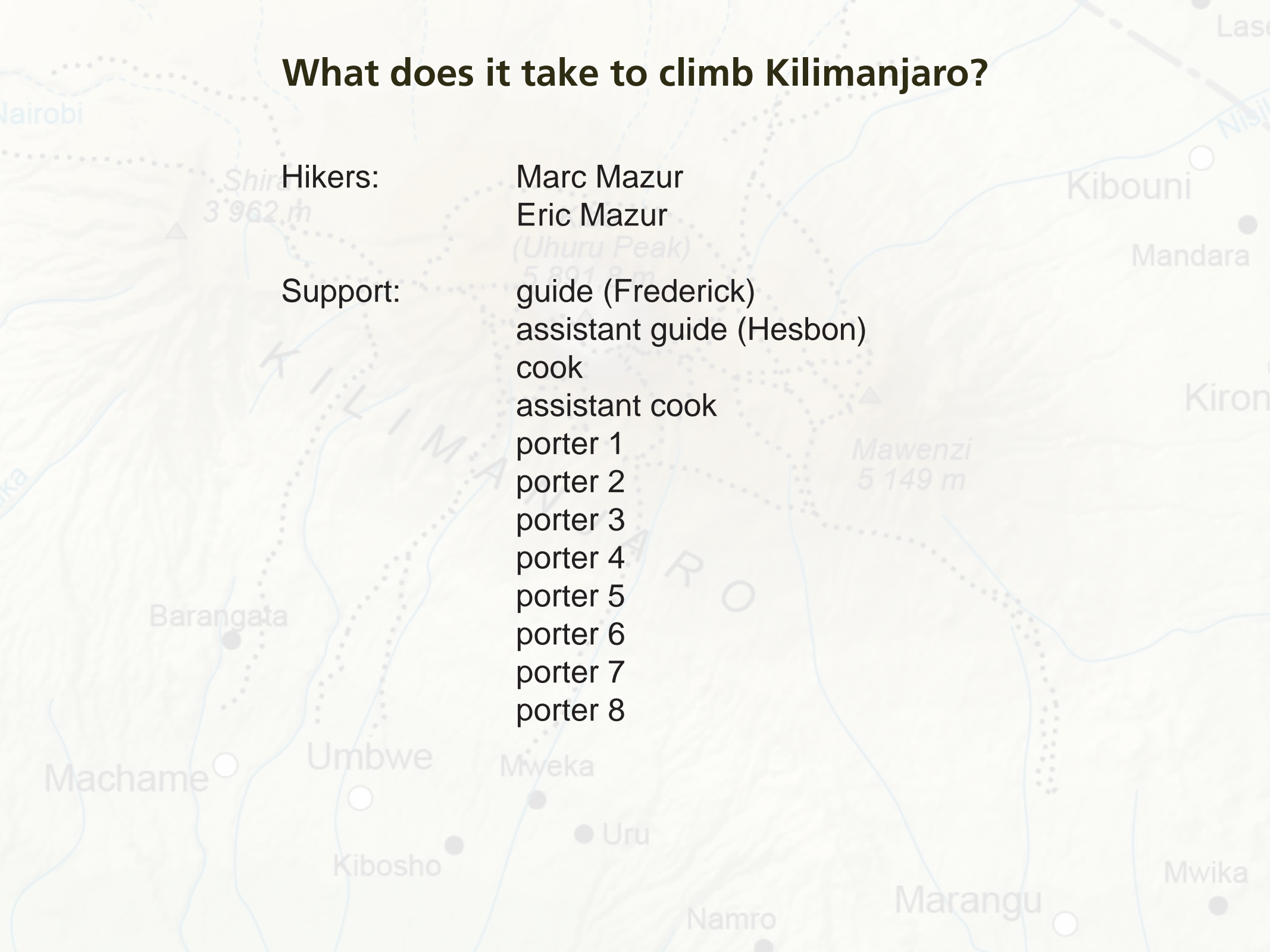
porter 4

porter 5

porter 6

porter 7

porter 8



# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur

Eric Mazur

Support:

guide (Frederick)

assistant guide (Hesbon)

cook

assistant cook

porter 1

porter 2

porter 3

porter 4

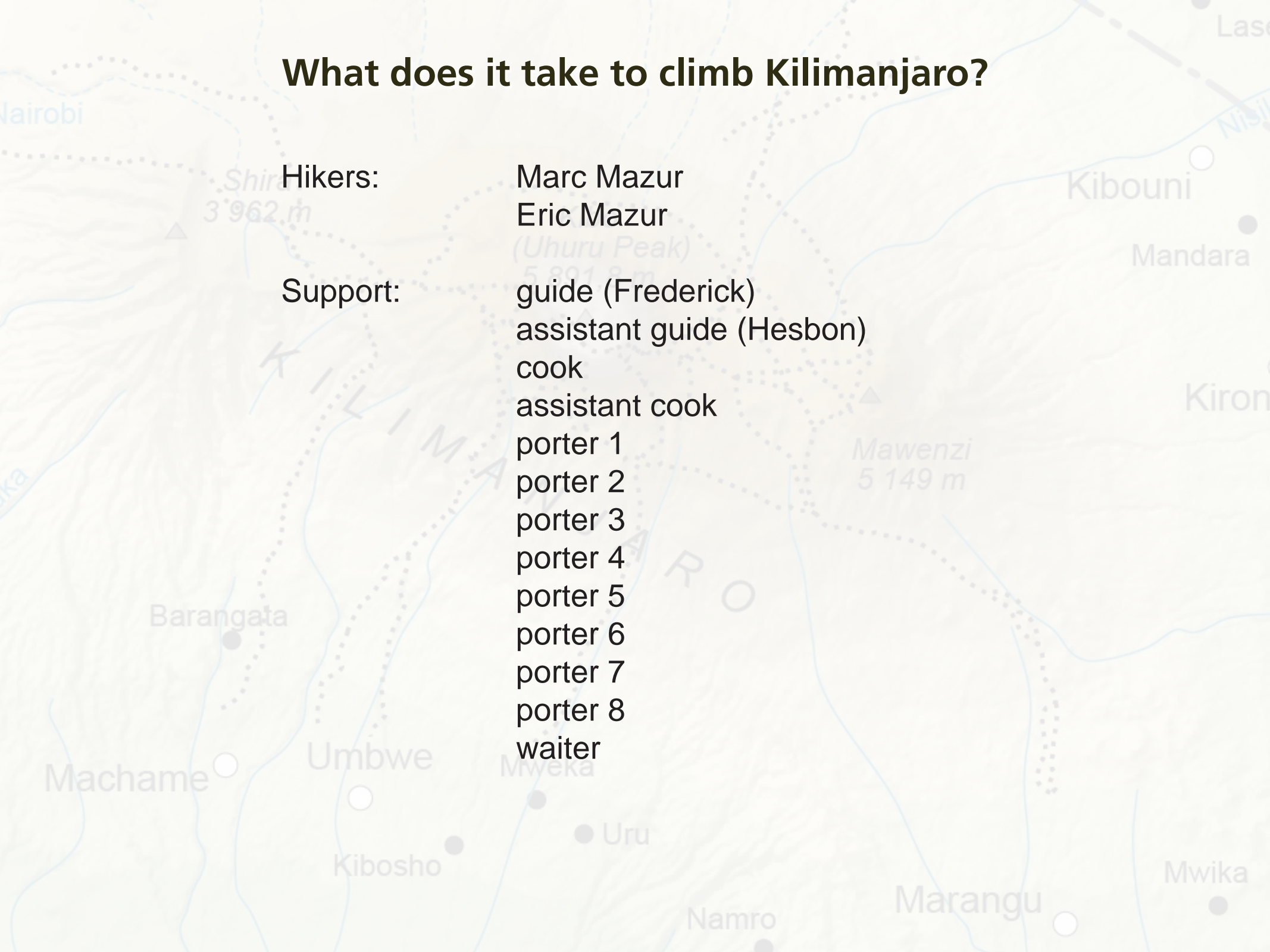
porter 5

porter 6

porter 7

porter 8

waiter



# What does it take to climb Kilimanjaro?

Hikers:

Marc Mazur

Eric Mazur

Support:

guide (Frederick)

assistant guide (Hesbon)

cook

assistant cook

porter 1

porter 2

porter 3

porter 4

porter 5

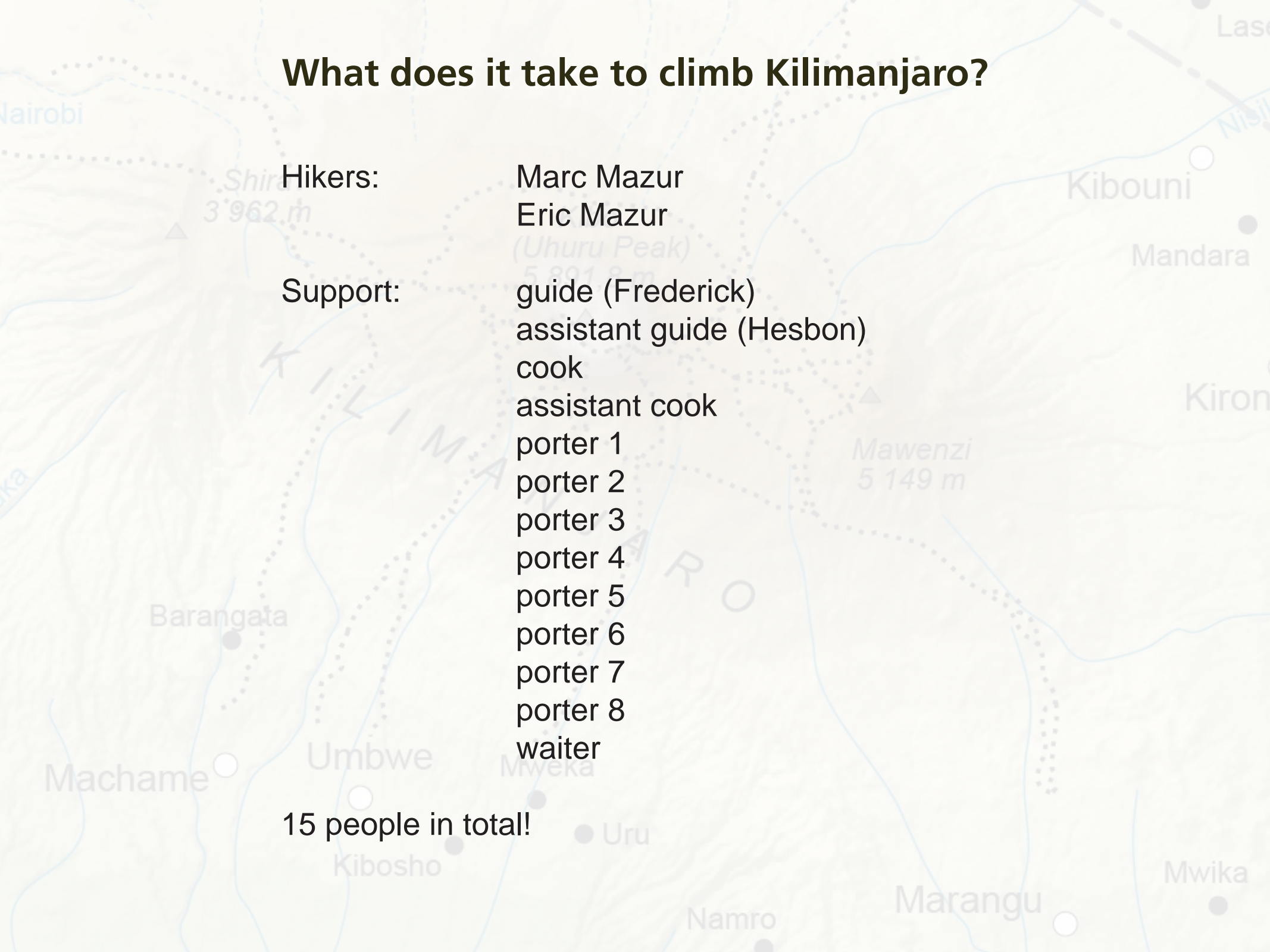
porter 6

porter 7

porter 8

waiter

15 people in total!





# Why so many?



# Why so many?

Need to bring: clothing for 4 climate zones/7days



# Why so many?

Need to bring: clothing for 4 climate zones/7days  
food for seven days



# Why so many?

Need to bring: clothing for 4 climate zones/7days

food for seven days

water for three days (4 liter/person-day)



# Why so many?

Need to bring: clothing for 4 climate zones/7days

food for seven days

water for three days (4 liter/person-day)

tents



# Why so many?

Need to bring: clothing for 4 climate zones/7days

food for seven days

water for three days (4 liter/person-day)

tents

mattress pads



# Why so many?

- Need to bring:
- clothing for 4 climate zones/7days
  - food for seven days
  - water for three days (4 liter/person-day)
  - tents
  - mattress pads
  - utensils for cooking/eating



# Why so many?

- Need to bring:
- clothing for 4 climate zones/7days
  - food for seven days
  - water for three days (4 liter/person-day)
  - tents
  - mattress pads
  - utensils for cooking/eating
  - table/chairs





# Why so many?

- Need to bring:
- clothing for 4 climate zones/7days
  - food for seven days
  - water for three days (4 liter/person-day)
  - tents
  - mattress pads
  - utensils for cooking/eating
  - table/chairs
  - toilet



# Team Mazur



# Frederick





Hesbon

Frederick



Hesbon

Frederick



Peter

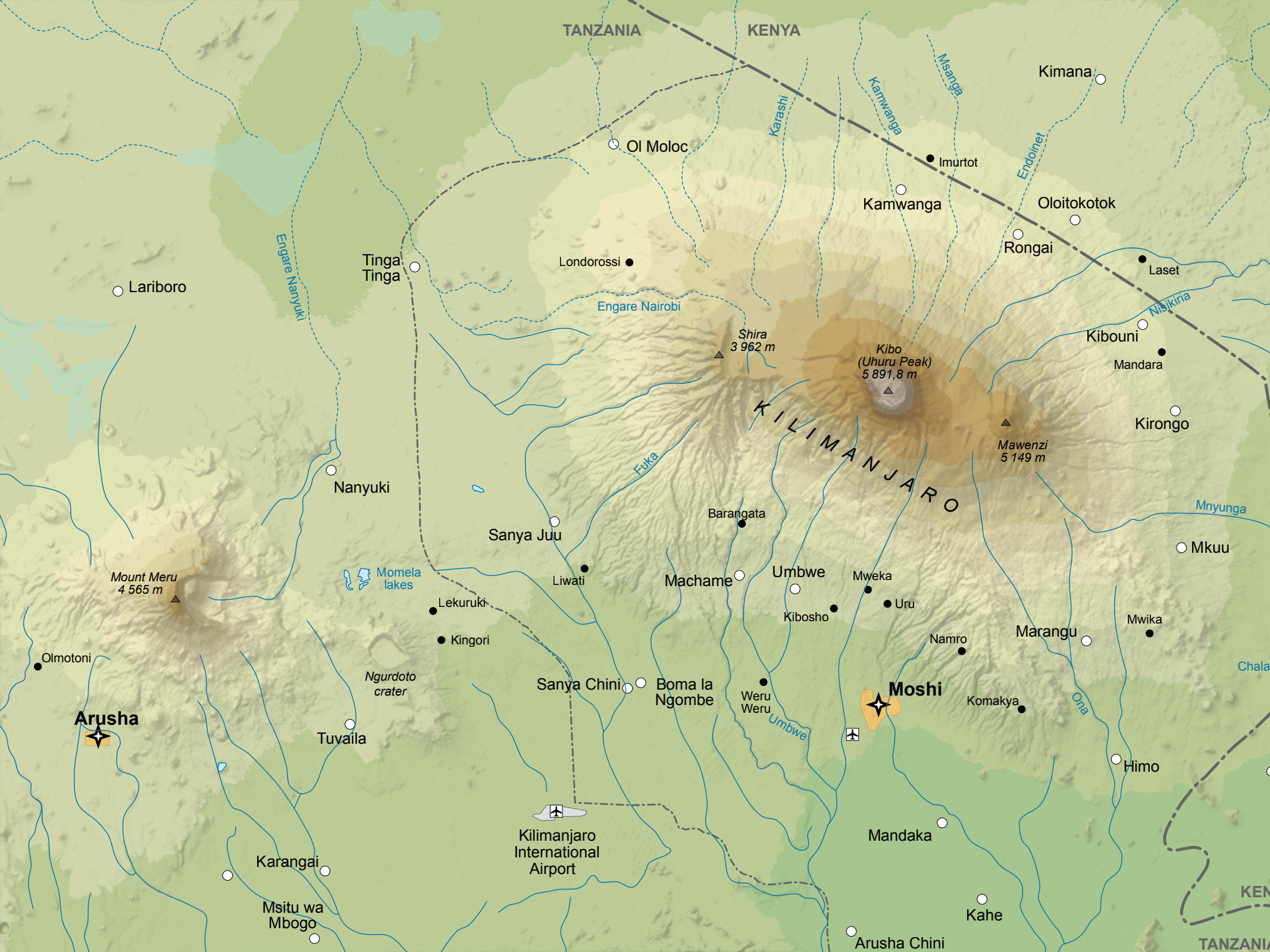


Andrea

Frederick

Hesbon

Peter



TANZANIA

KENYA

Kimana

Oi Moloc

Imurtot

Kamwanga

Oloitokotok

Rongai

Lariboro

Tinga Tinga

Londorossi

Engare Nairobi

Shira  
3 962 m

Kibo  
(Uhuru Peak)  
5 891,8 m

Laset

Kibouni

Mandara

Kirongo

Mawenzi  
5 149 m

Nanyuki

Sanya Juu

Barangata

Machame

Umbwe

Mwaka

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Mount Meru  
4 565 m

Momela lakes

Lekuruki

Liwati

Kingori

Kibosho

Kibosho

Namro

Marangu

Mwika

Olmotoni

Ngurdoto crater

Sanya Chini

Boma la Ngombe

Weru Weru

Umbwe

Moshi

Komakya

Arusha

Tuvaïla

Kilimanjaro International Airport

Airplane icon

Himo

Karangai

Mandaka

Kahe

Msitu wa Mbogo

Arusha Chini

KEN

TANZANIA







831

It's the best of the best of SUBU

www.teamkillington.com



## DAY 1

**Start:** Marangu gate (1905 m)

**End:** Mandara huts (2723 m)

**Distance:** 8.8 km

**Altitude gain:** 818 m

**Rainforest zone**

Mandara huts

Marangu gate





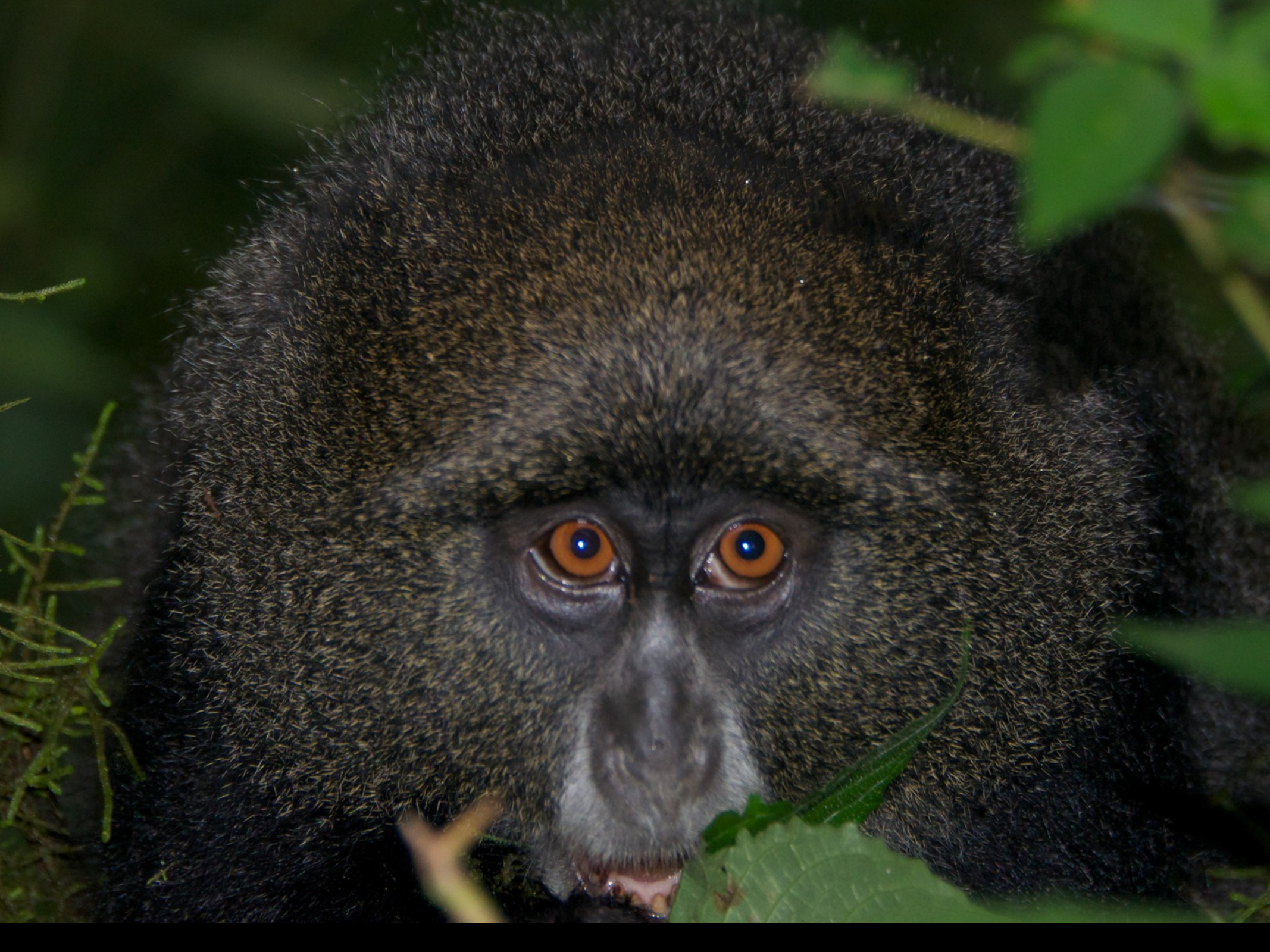


































A man with dark hair and a goatee, wearing a black zip-up jacket and a red and black watch, is sitting at a table covered with a green and black plaid cloth. He is smiling broadly and holding a small piece of popcorn in his right hand. In front of him is a large metal tray filled with popcorn. To the right of the tray is a smaller metal bowl containing a light-colored granular substance, possibly quinoa. Behind the bowl is a can of Kalunga coffee and a bottle of red hot sauce. The background is a wall of horizontal wooden planks.

I'M STILL SMILING!

## DAY 2

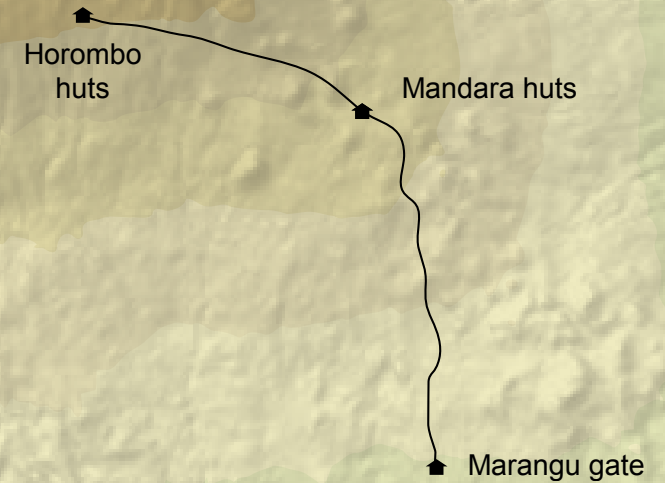
**Start:** Mandara huts (2723 m)

**End:** Horombo huts (3721 m)

**Distance:** 12.5 km

**Altitude gain:** 998 m

**Moorland zone**





Hesbon





























1000

750

500

250

ALTIMAX

10000 ft

18:12

SUUNTO









HOROMBO  
ALT. 3780 M. - 12340 FT.

FNP/KNP/HOR/BLD/44



HOROMBO  
ALT. 3780 M. - 12340 FT.

TNP/KNP/HOR/BLD/44

I'M STILL SMILING!





## DAY 3

**Start:** Horombo huts (3721 m)

**End:** Mawenzi hut (4535 m)

**Distance:** 8 km

**Altitude gain:** 814 m

**Moorland zone**



## DAY 3

**Start:** Mawenzi hut (4535 m)

**End:** Horombo huts (3721 m)

**Distance:** 16 km

**Altitude gain:** 0

**Moorland zone**

Horombo  
huts

Mandara huts

Marangu gate







ZEBRA ROCKS →





Hesbon

Frederick





*That was all the rain!*





# Mawenzi "Hut"

(4535 m)









I'M STILL SMILING!

## DAY 4

**Start:** Horombo huts (3721 m)

**End:** School hut (4717 m)

**Distance:** 11 km

**Altitude gain:** 996 m

**High desert zone**

School hut

Horombo huts

Mandara huts

Marangu gate













LAST WATER POINT



















THE SADDLE

THE SADDLE AREA







School "Hut"  
(4717 m)

77 (RUSTED) 12/1/1998

TK 15

*We'll sleep outside!*







WERE STILL SMILING!



## DAY 5

**Start: School hut (4717 m)**

**End: Williams point (5174 m)**

**Distance: 4 km**

**Altitude gain: 457 m**

**Arctic zone**



## DAY 5

**Start:** Williams point (5174 m)

**End:** School hut (4717 m)

**Distance:** 8 km

**Altitude gain:** 0

**Arctic zone**

School hut

Horombo huts

Mandara huts

Marangu gate



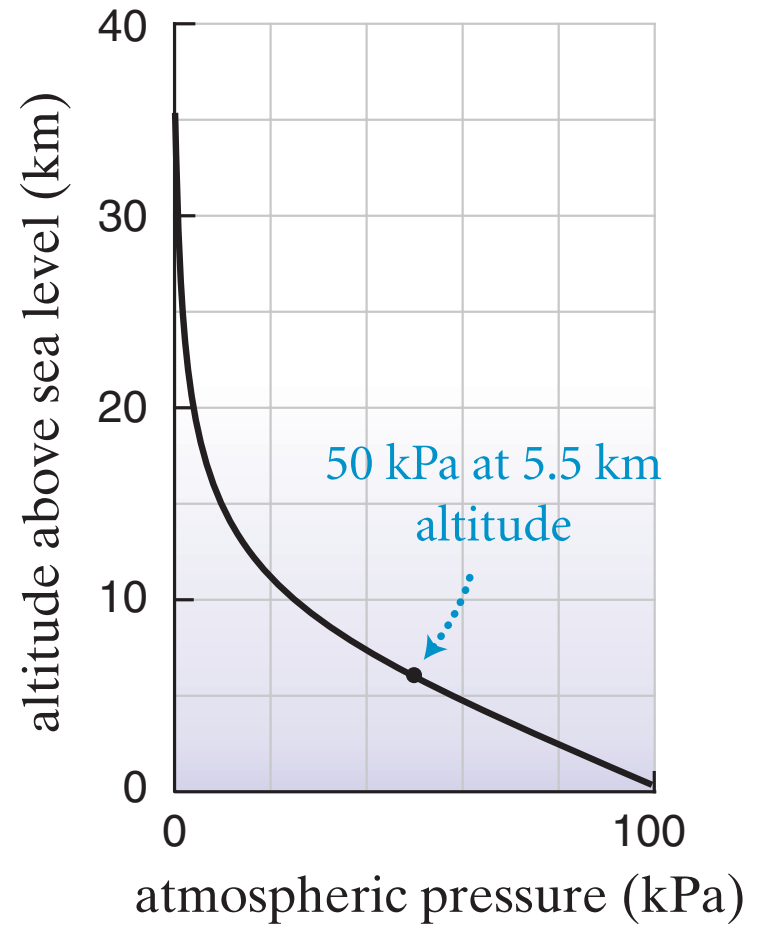




5174 m



5174 m









I'M STILL  
SMILING!



I'M STILL  
SMILING!

(sort of)



## DAY 6

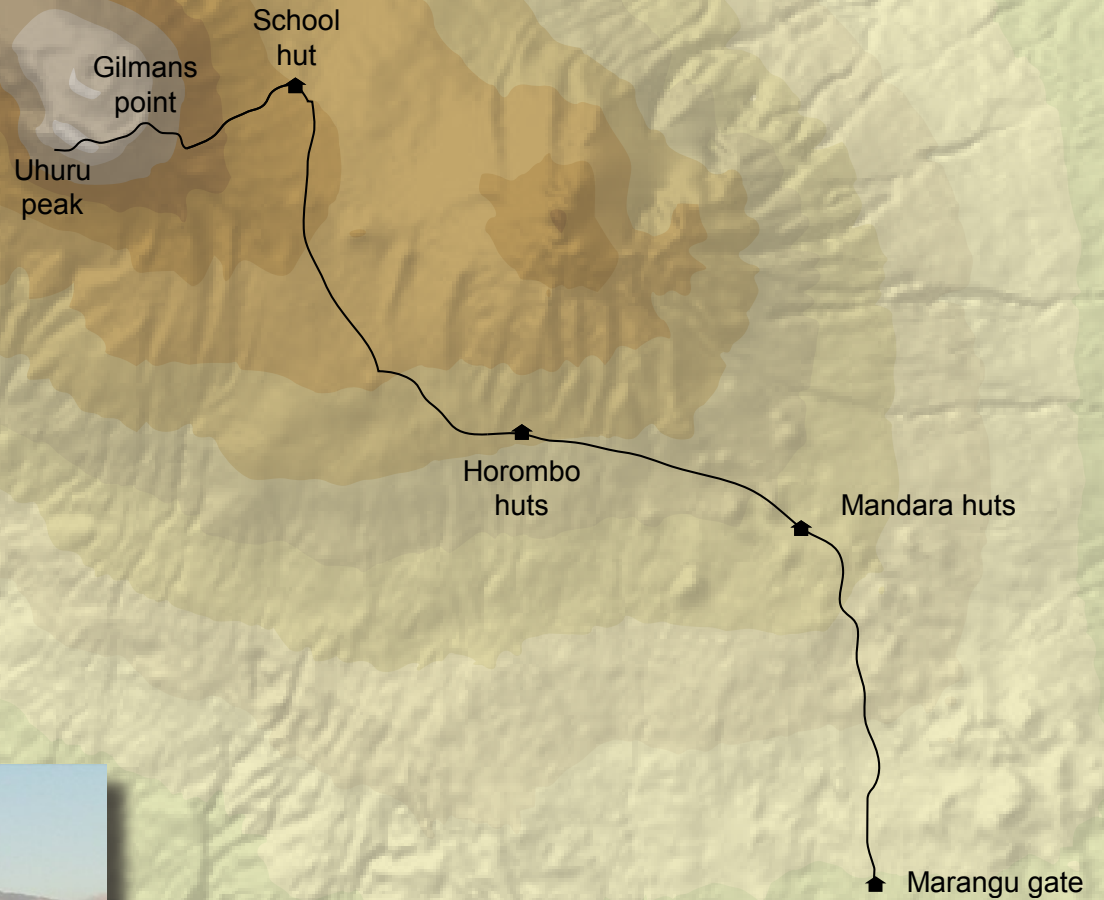
**Start:** School hut (4717 m)

**End:** Uhuru peak (5895 m)

**Distance:** 6 km

**Altitude gain:** 1178 m

**Arctic zone**



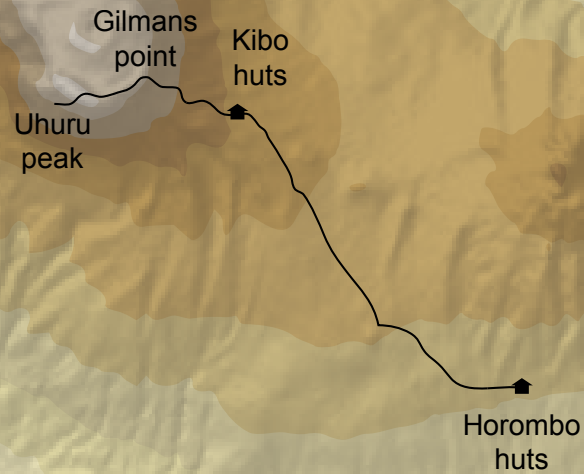
## DAY 6

**Start:** Uhuru peak (5895 m)

**End:** Horombo huts (3721 m)

**Distance:** 16 km

**Altitude gain:** -2174 m







YOU ARE NOW AT **ADLER MATO**  
**LMAN'S POINT, 5681 MSL.**

**TANZANIA**  
**WELCOME AND CONGRATULATIONS**













I am going  
to make it!

Peter Frederick Hesbon



Marc

We're going to make it!









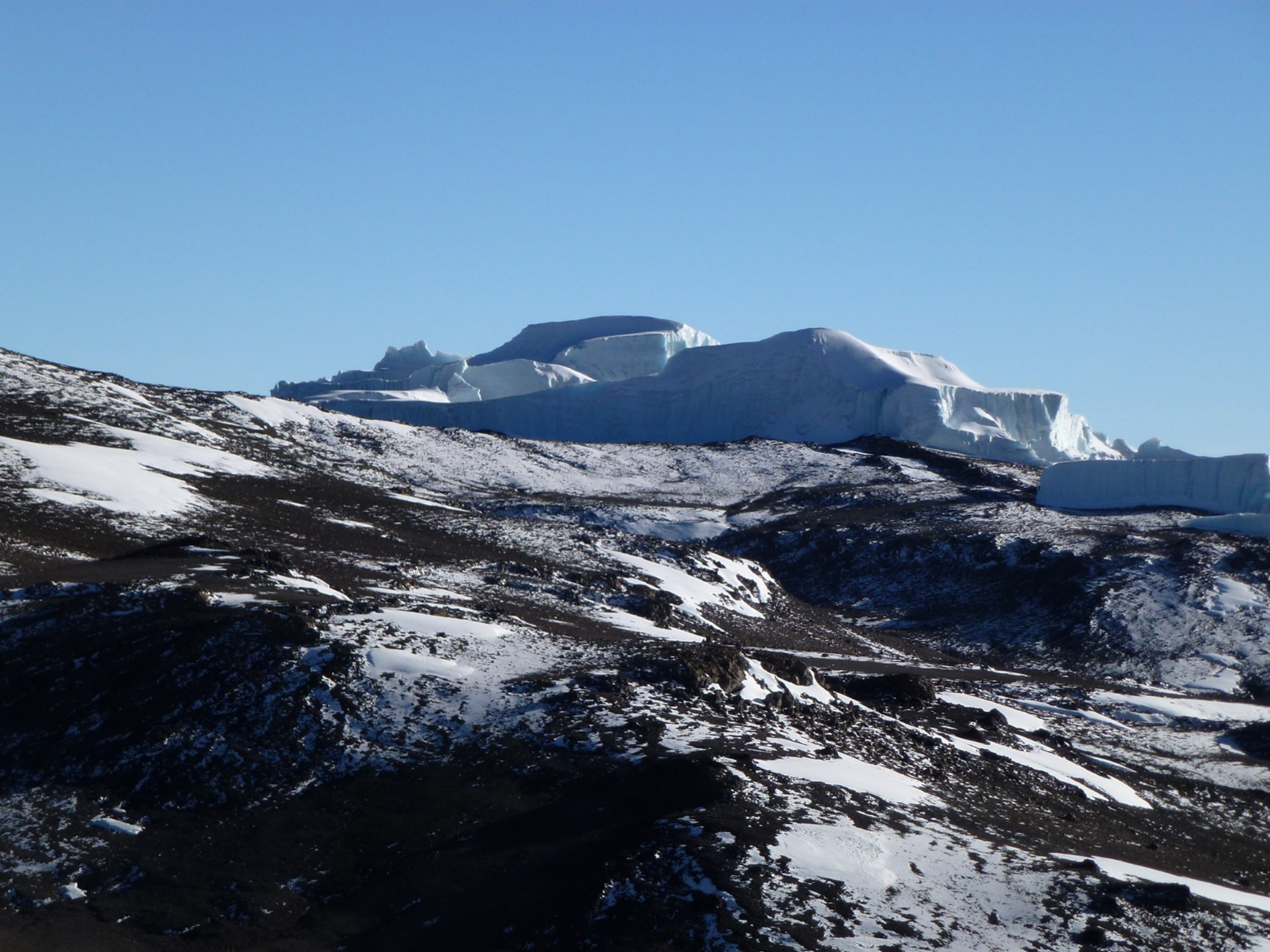
CONGRATULATIONS  
YOU ARE NOW AT

UHURU PEAK, TANZANIA, 5895M. AMSL

AFRICA'S HIGHEST POINT  
WORLD'S HIGHEST FREE-STANDING MOUNTAIN













*This one next?*

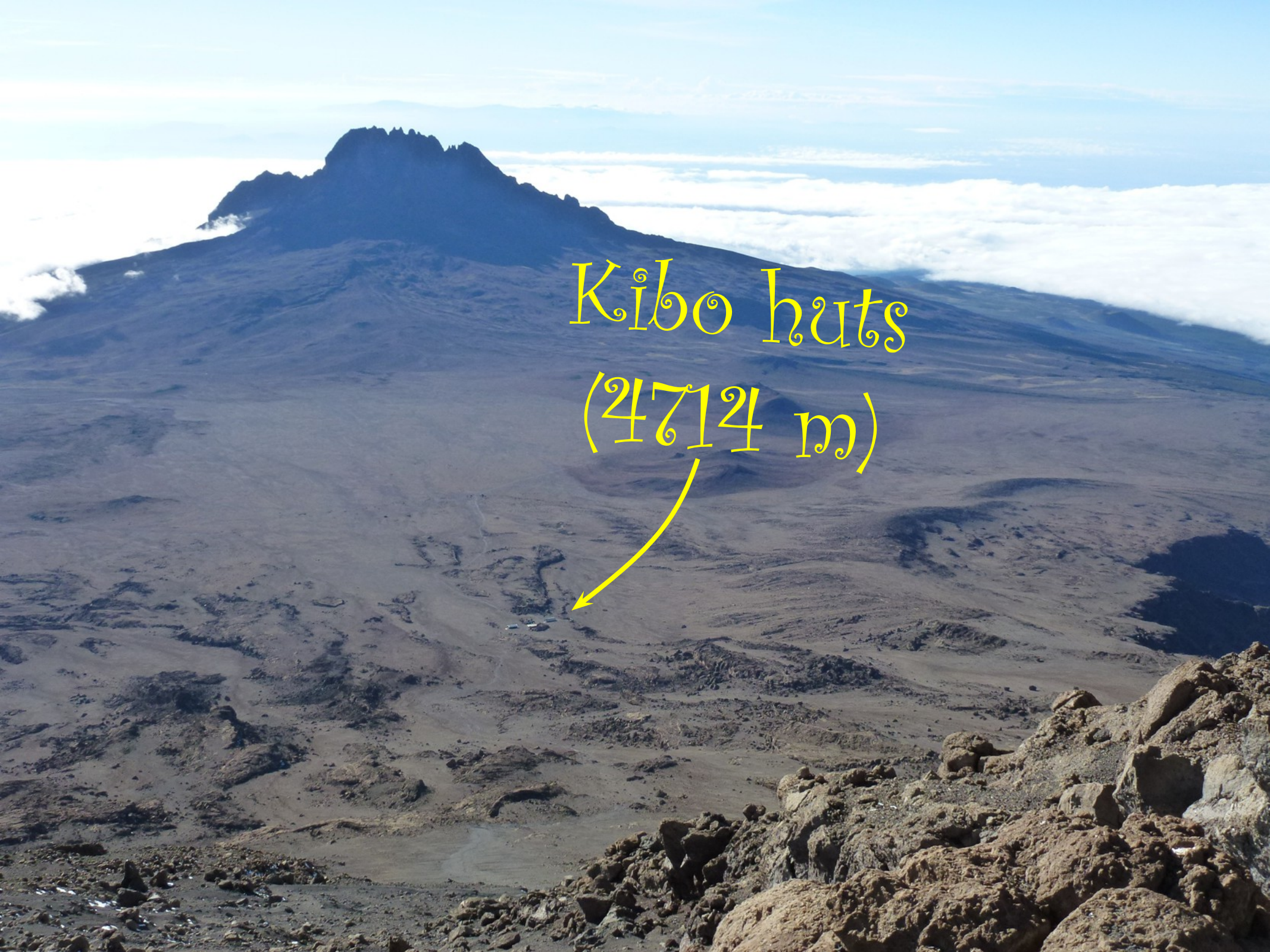








Kibo huts  
(4714 m)







hi, my name is  
Kristine. I'm cold,  
tired, and I smell.

BUT I ~~FUCKING~~  
want to get to  
the top.

Good Luck to all!





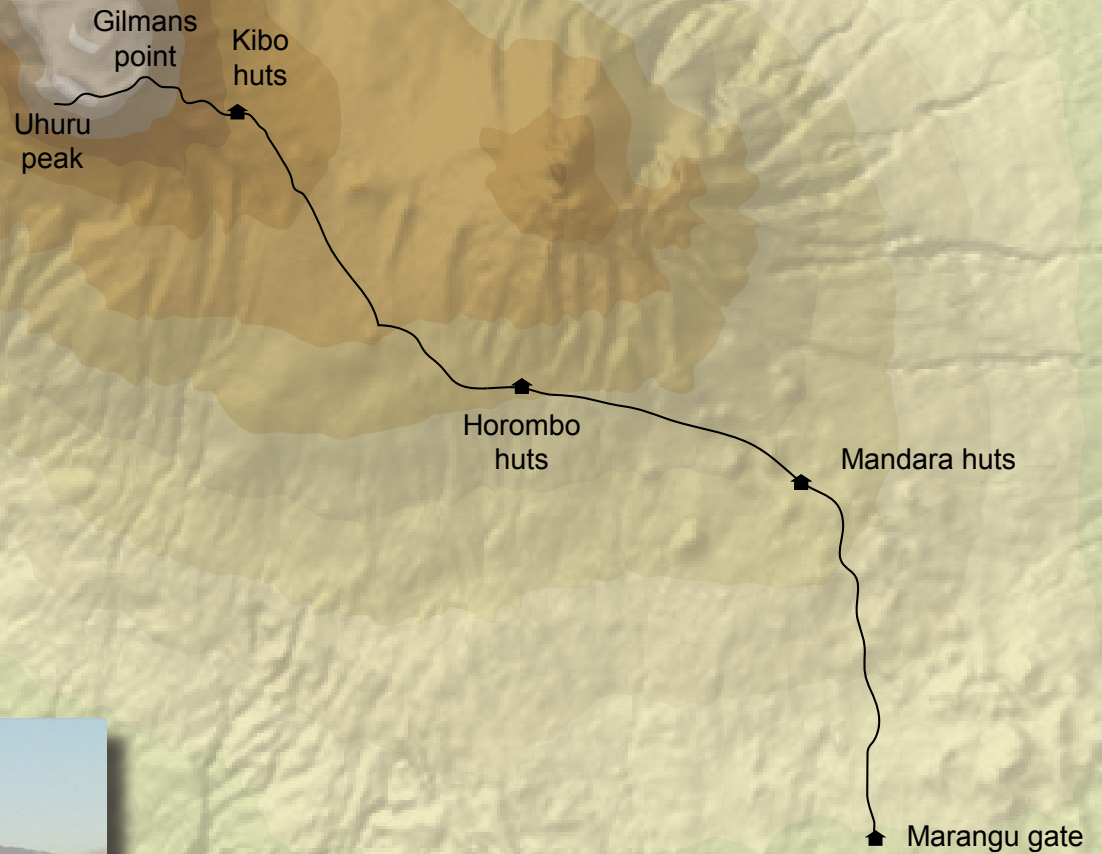
## DAY 7

**Start:** Horombo huts (3721 m)

**End:** Marangu gate (1905)

**Distance:** 21 km

**Altitude gain:** -1816 m





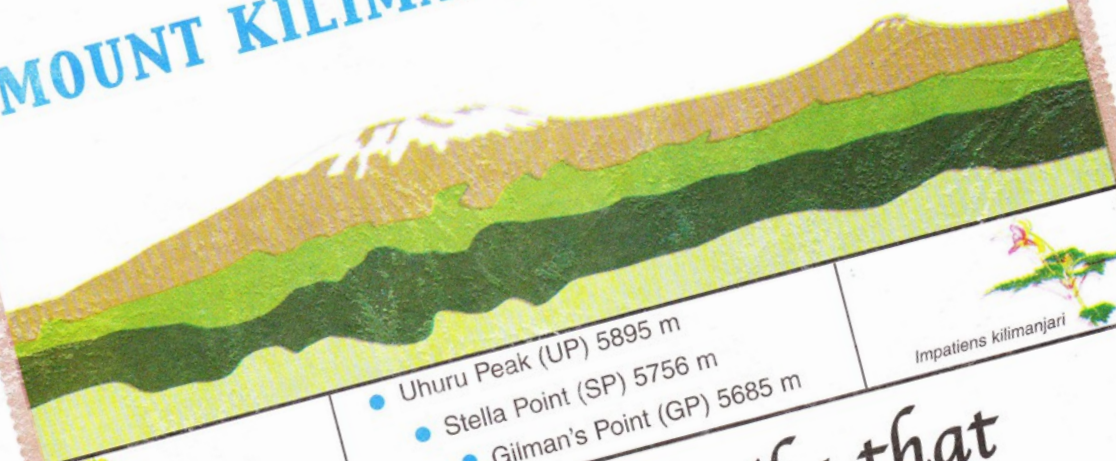








# MOUNT KILIMANJARO-TANZANIA



- Uhuru Peak (UP) 5895 m
- Stella Point (SP) 5756 m
- Gilman's Point (GP) 5685 m



Senecio kilimanjari



Impatiens kilimanjari

This is to certify that

Mr / Mrs / Miss Eric Mazur  
has successfully climbed Mt. Kilimanjaro the Highest in  
Africa to **Uhuru Peak 5895m** amsl

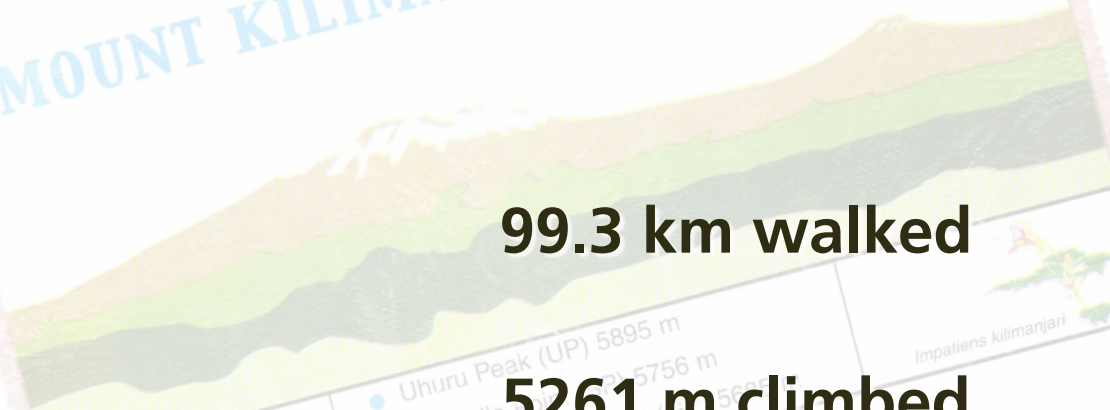
Date 14/5/2011 Time 6:32 Am Age 56 YRS OLD

Frederick Achedo  
CHIEF PARK WARDEN  
Kilimanjaro National Park

[Signature]  
DIRECTOR GENERAL  
Tanzania National Parks



# MOUNT KILIMANJARO-TANZANIA



**99.3 km walked**

**5261 m climbed**

- Uhuru Peak (UP) 5895 m
- Stella Point 5756 m
- Gilman's Point 5675 m



Senecio kilimanjari



Impatiens kilimanjari

This is to certify that

Mr / Mrs / Miss Eric Mazur  
has successfully climbed Mt. Kilimanjaro the Highest in  
Africa to **Uhuru Peak 5895m amsl**

Date 14/5/2011 Time 6:32 Am Age 56 YRS OLD

Eric Mazur  
CHIEF PARK WARDEN  
Kilimanjaro National Park

[Signature]  
DIRECTOR GENERAL  
Tanzania National Parks





*I did it!*



<http://mazurkilitrek.blogspot.com>