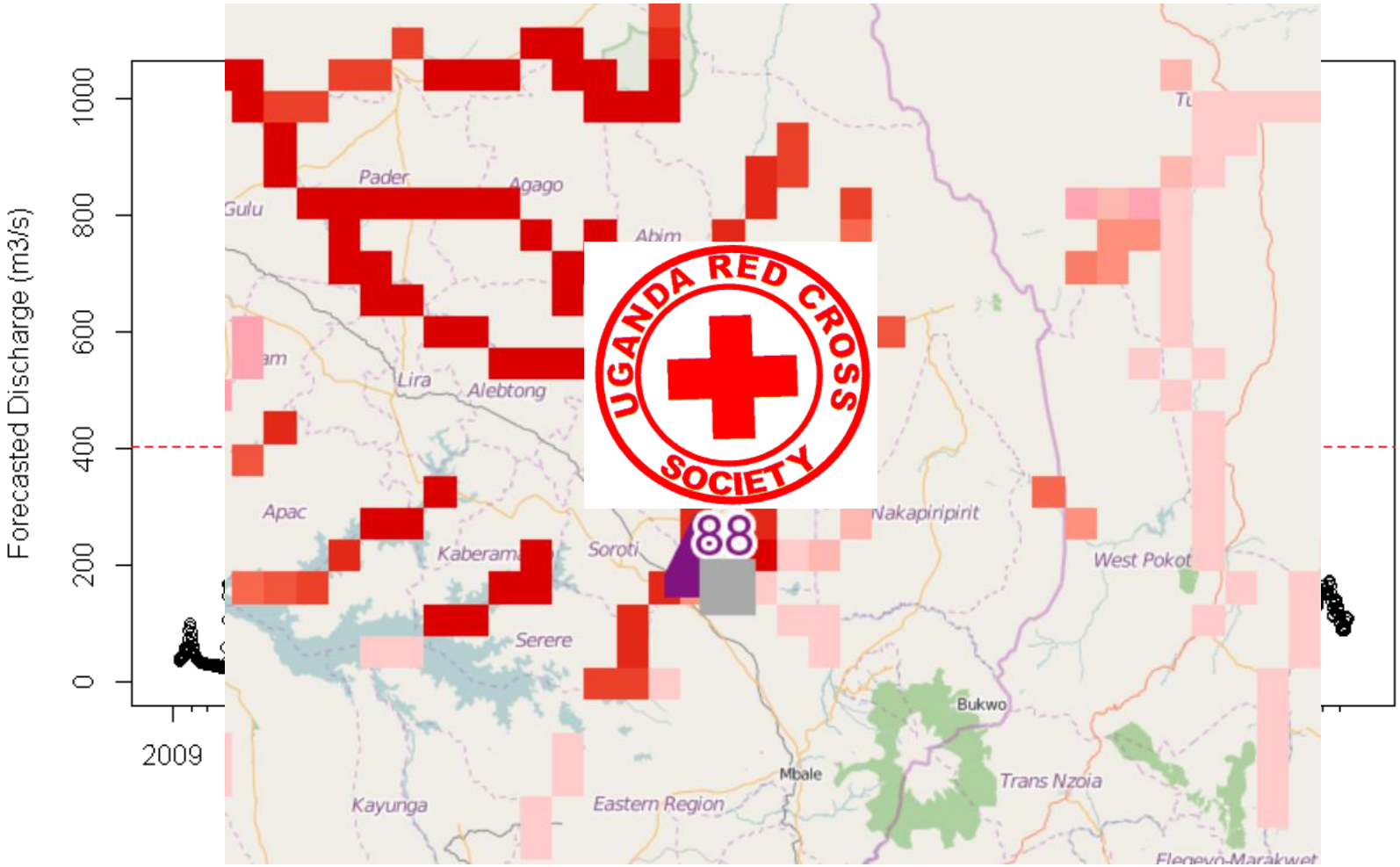
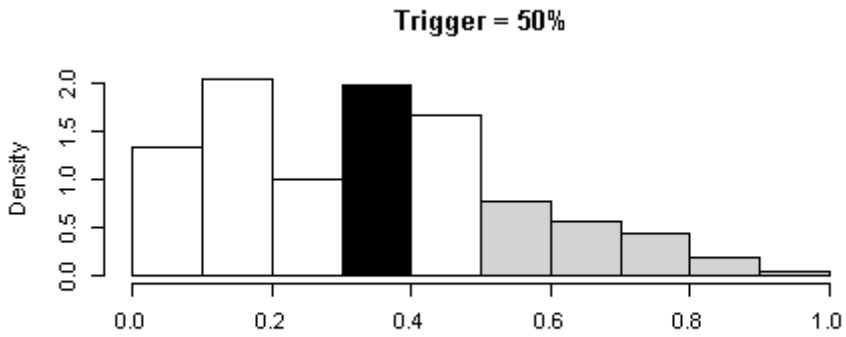
Think globally, act locally???

Is GloFAS relevant locally?



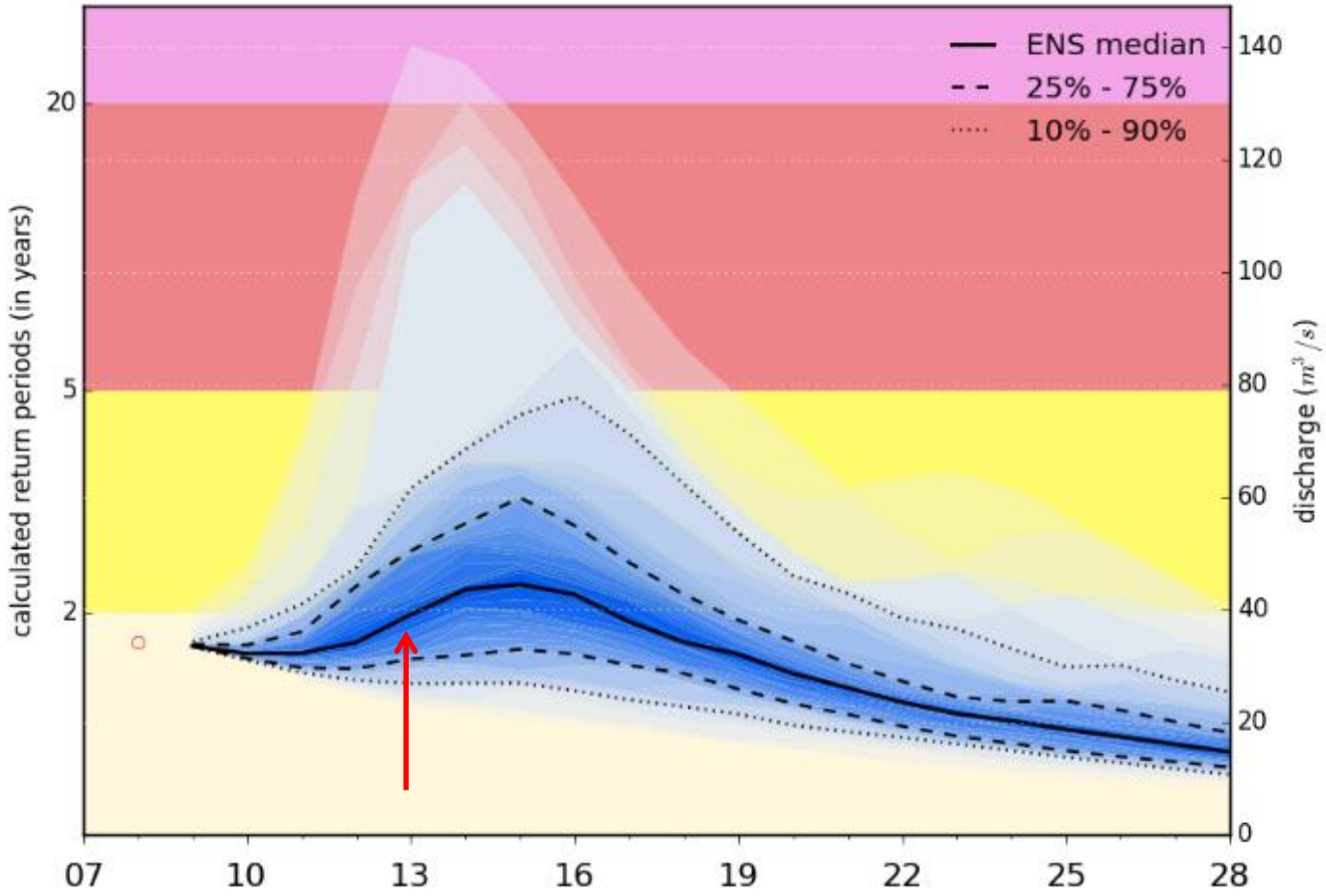
HOW relevant is it?



RED CROSS/RED CRESCENT
CLIMATE CENTRE

International Federation
of Red Cross and Red Crescent Societies

The Netherlands Red Cross


ENS median
25% - 75%
10% - 90%
calculated return periods (in years)
20
5
2
discharge (m^3/s)
140
120
100
80
60
40
20
0
07
10
13
16
19
22
25
28

RED CROSS/RED CRESCENT
CLIMATE CENTRE

International Federation
of Red Cross and Red Crescent Societies

The Netherlands Red Cross

RED CROSS/RED CRESCENT
CLIMATE CENTRE

International Federation
of Red Cross and Red Crescent Societies

The Netherlands Red Cross

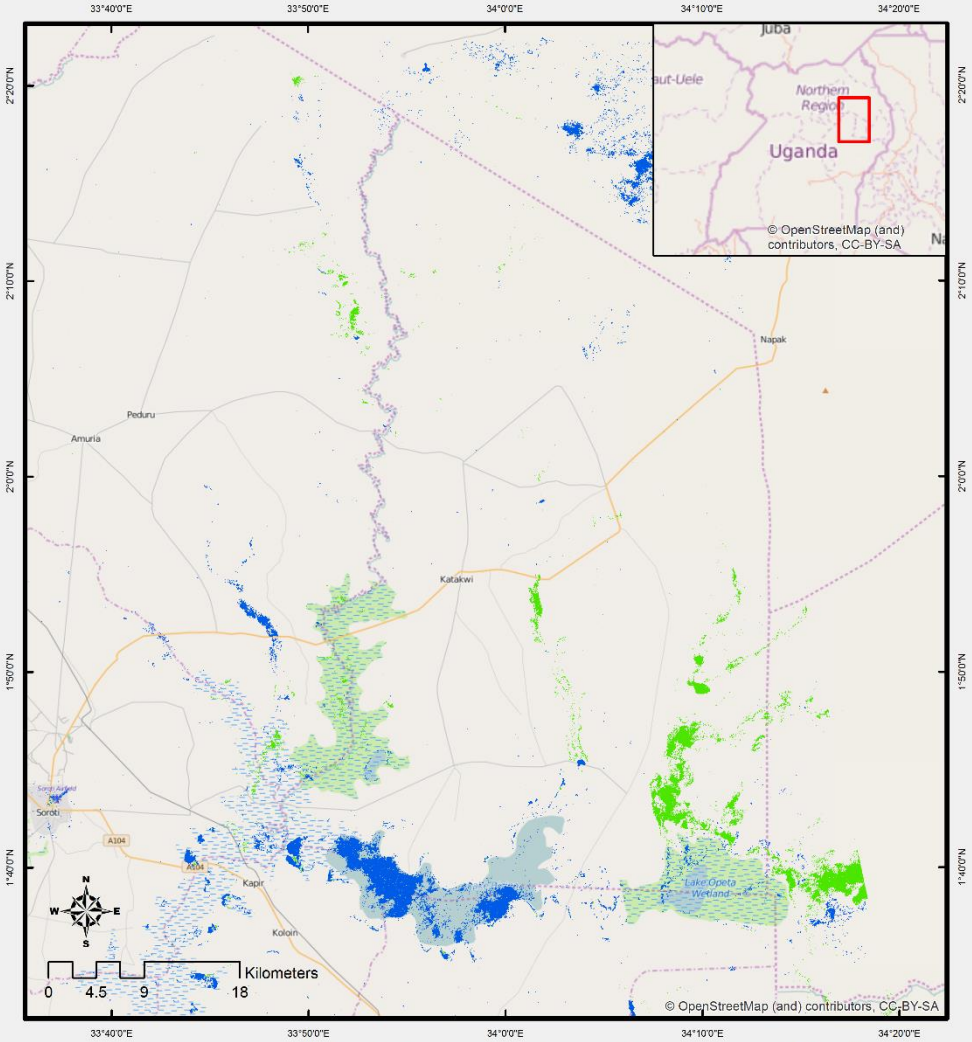
RED CROSS/RED CRESCENT
CLIMATE CENTRE

International Federation
of Red Cross and Red Crescent Societies

The Netherlands Red Cross

Was it right?

Uganda Flood Map - Overview
November 19th, 2015

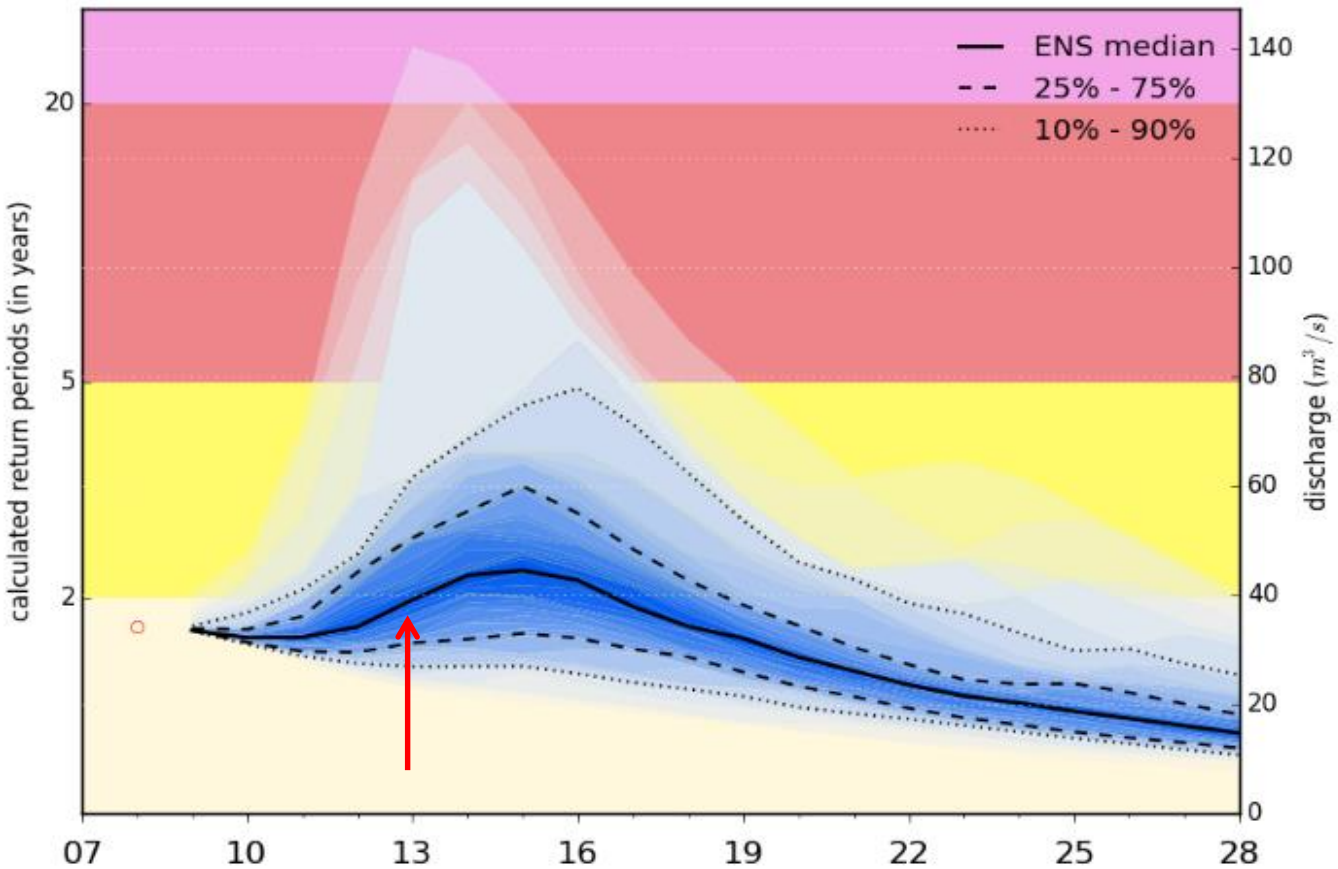


Legend

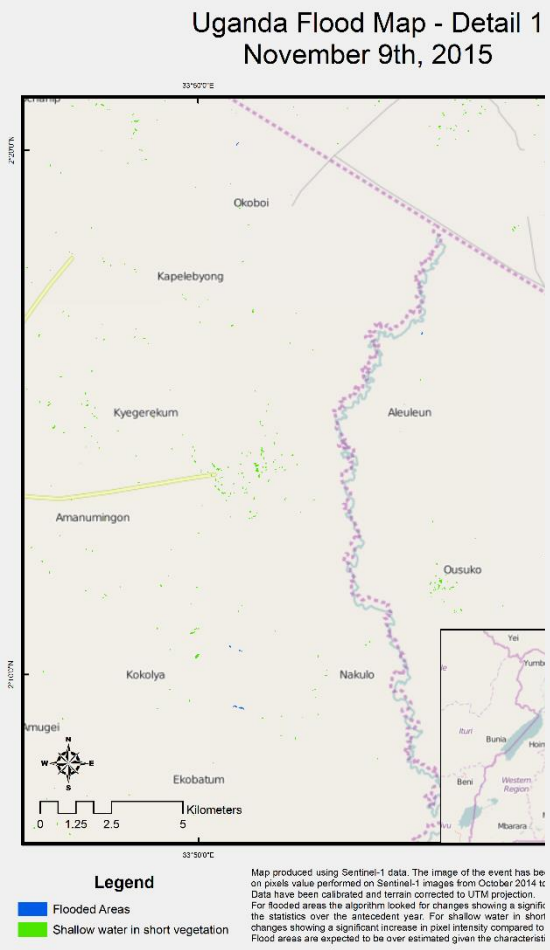
- Flooded Areas
- Shallow water in short vegetation

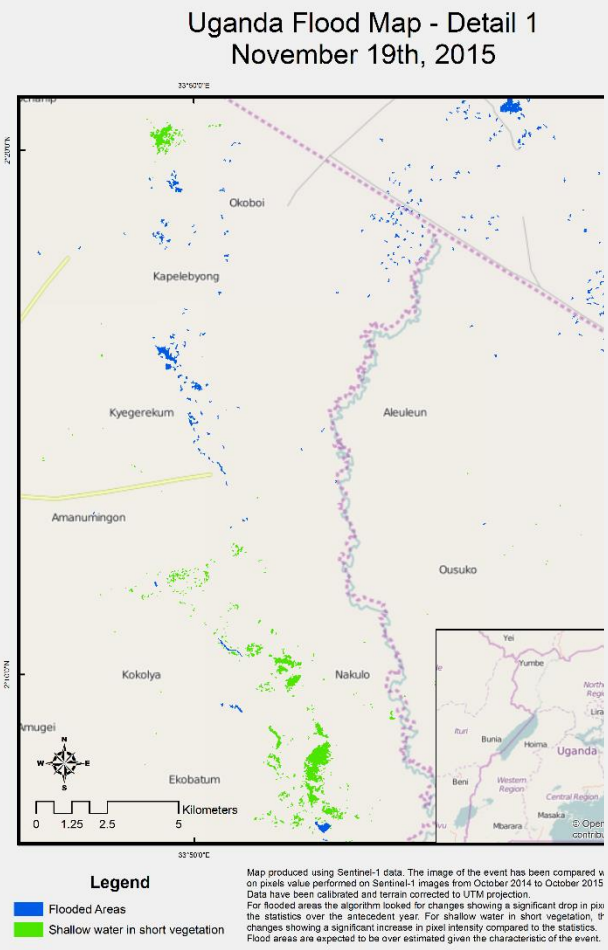
Map produced using Sentinel-1 data. The image of the event has been compared with a statistical analysis on pixels value performed on Sentinel-1 images from October 2014 to October 2015.
Data have been calibrated and terrain corrected to UTM projection.
For flooded areas the algorithm looked for changes showing a significant drop in pixel intensity compared to the statistics over the antecedent year. For shallow water in short vegetation, the algorithm looked for changes showing a significant increase in pixel intensity compared to the statistics.
Flood areas are expected to be over estimated given the characteristic of the event.

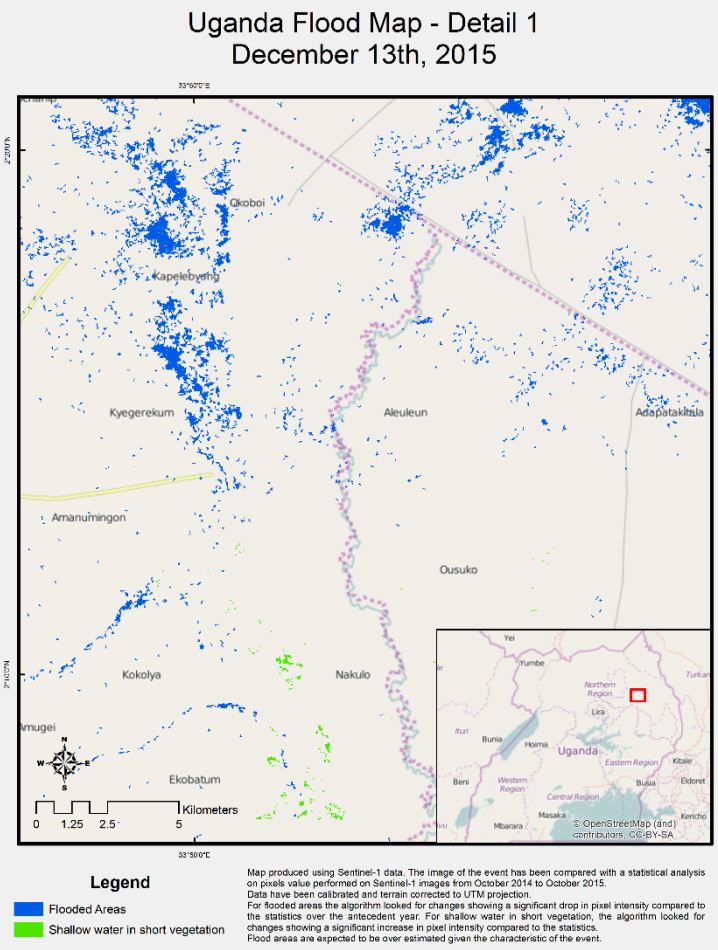
Kapelebyong



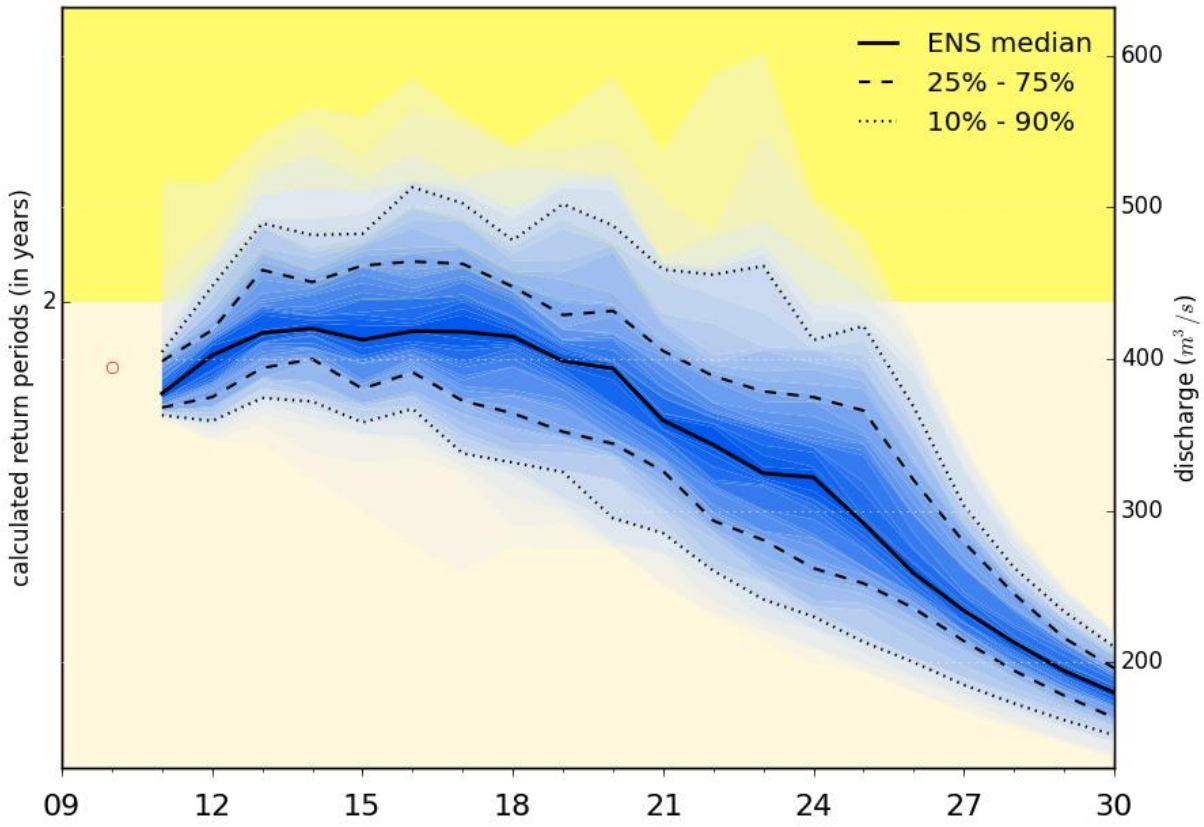
Kapelebyong



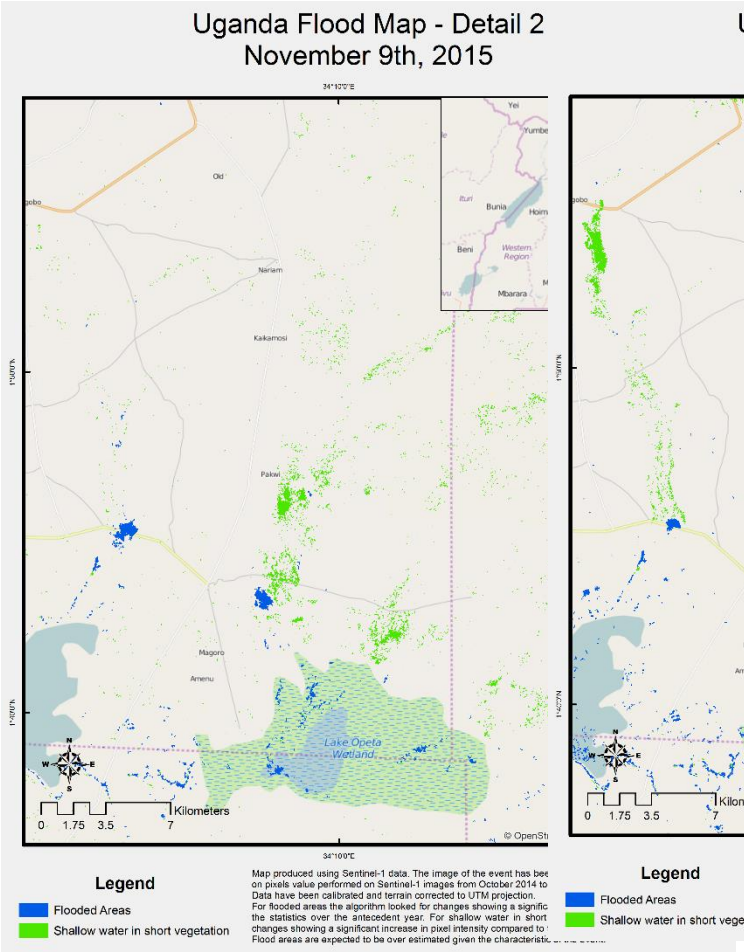


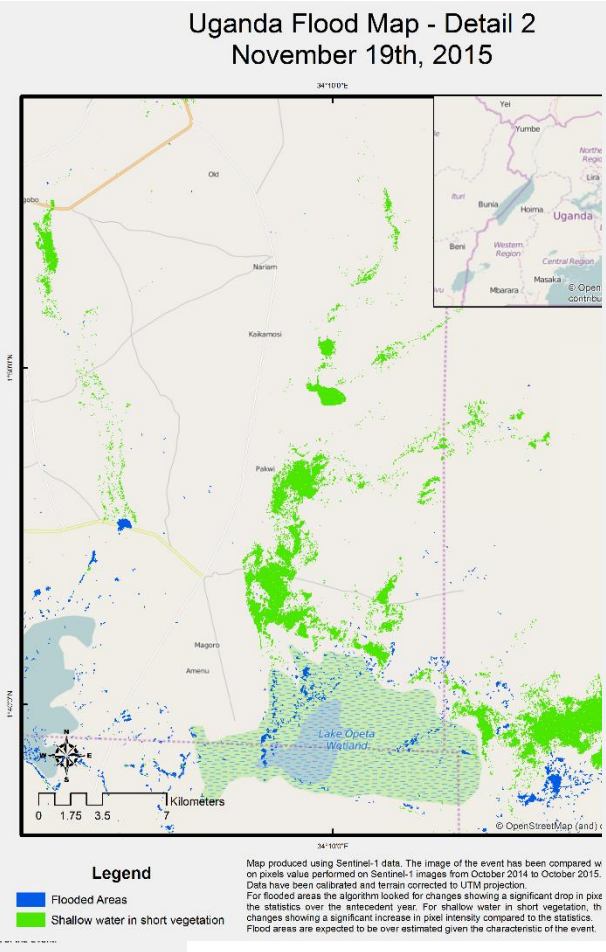


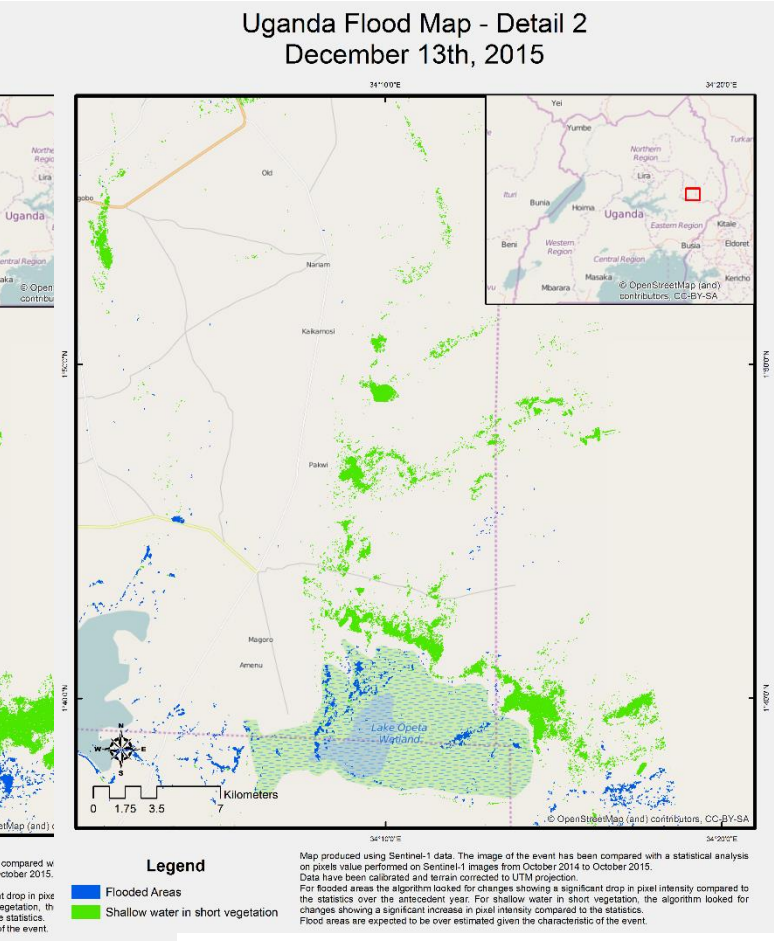
Magoro


ENS median
25% - 75%
10% - 90%
calculated return periods (in years)
2
discharge (m^3/s)
600
500
400
300
200
09
12
15
18
21
24
27
30

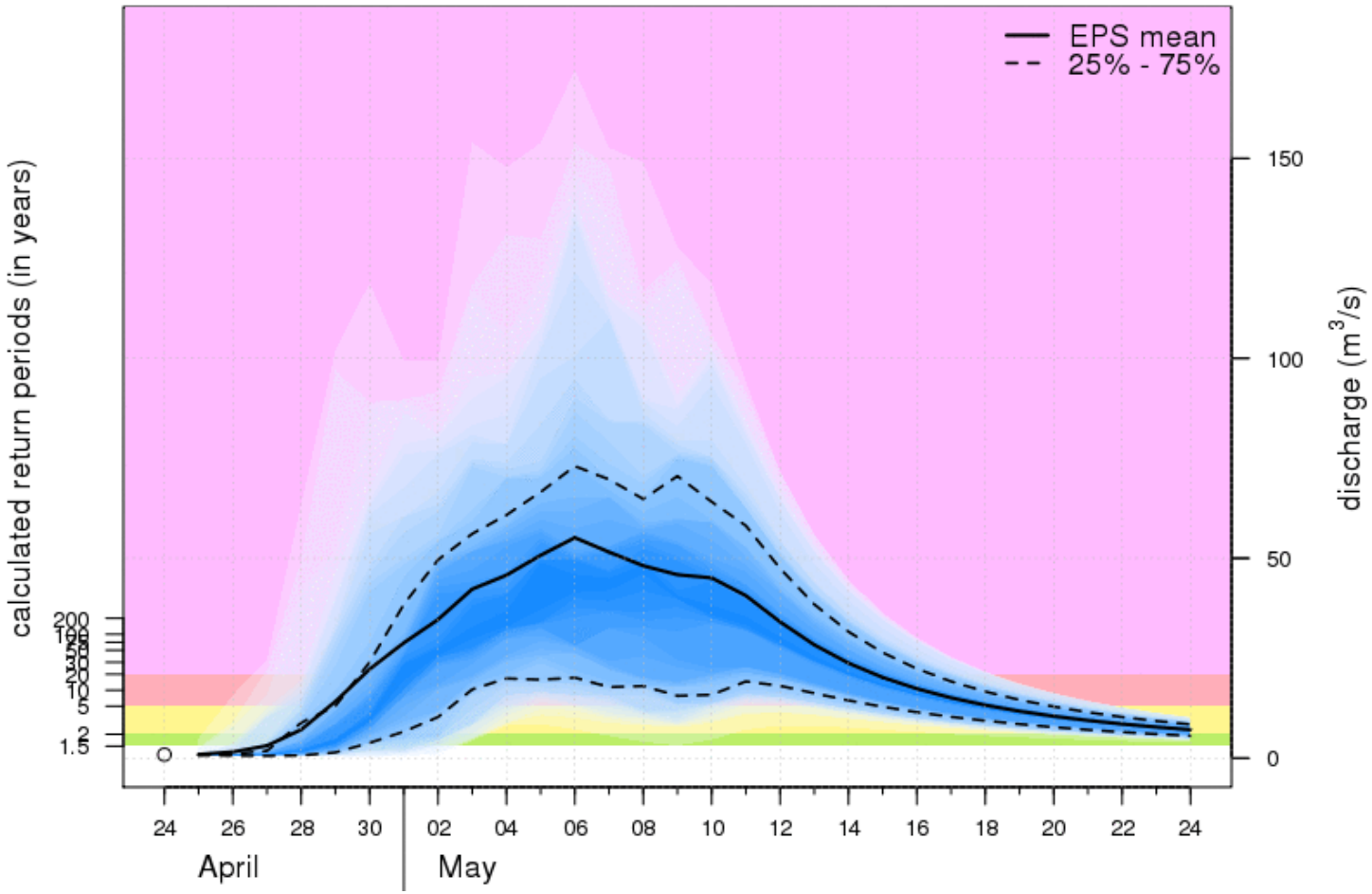
Magoro


Uganda Flood Map - Detail 2
November 9th, 2015
Lake Opeta Wetland
Kilometers
0 1.75 3.5 7
Legend
Flooded Areas
Shallow water in short vegetation
Map produced using Sentinel-1 data. The image of the event has bee
on pixels value performed on Sentinel-1 images from October 2014 to
Data have been calibrated and terrain corrected to UTM projection.
For flooded areas the algorithm looked for changes showing a signific
the statistics over the antecedent year. For shallow water in short
changes showing a significant increase in pixel intensity compared to
Flood areas are expected to be over estimated given the characteristic


Uganda Flood Map - Detail 2
November 19th, 2015
Lake Opeta Wetland
Kilometers
0 1.75 3.5 7
Legend
Flooded Areas
Shallow water in short vegetation
Map produced using Sentinel-1 data. The image of the event has been compared w
on pixels value performed on Sentinel-1 images from October 2014 to October 2015.
Data have been calibrated and terrain corrected to UTM projection.
For flooded areas the algorithm looked for changes showing a significant drop in pixe
the statistics over the antecedent year. For shallow water in short vegetation, th
changes showing a significant increase in pixel intensity compared to the statistics.
Flood areas are expected to be over estimated given the characteristic of the event.


Uganda Flood Map - Detail 2
December 13th, 2015
Lake Opeta Wetland
Kilometers
0 1.75 3.5 7
© OpenStreetMap (and) contributors, CC-BY-SA
Legend
Flooded Areas
Shallow water in short vegetation
Map produced using Sentinel-1 data. The image of the event has been compared with a statistical analysis
on pixels value performed on Sentinel-1 images from October 2014 to October 2015.
Data have been calibrated and terrain corrected to UTM projection.
For flooded areas the algorithm looked for changes showing a significant drop in pixel intensity compared to
the statistics over the antecedent year. For shallow water in short vegetation, the algorithm looked for
changes showing a significant increase in pixel intensity compared to the statistics.
Flood areas are expected to be over estimated given the characteristic of the event.

Kapelebyong

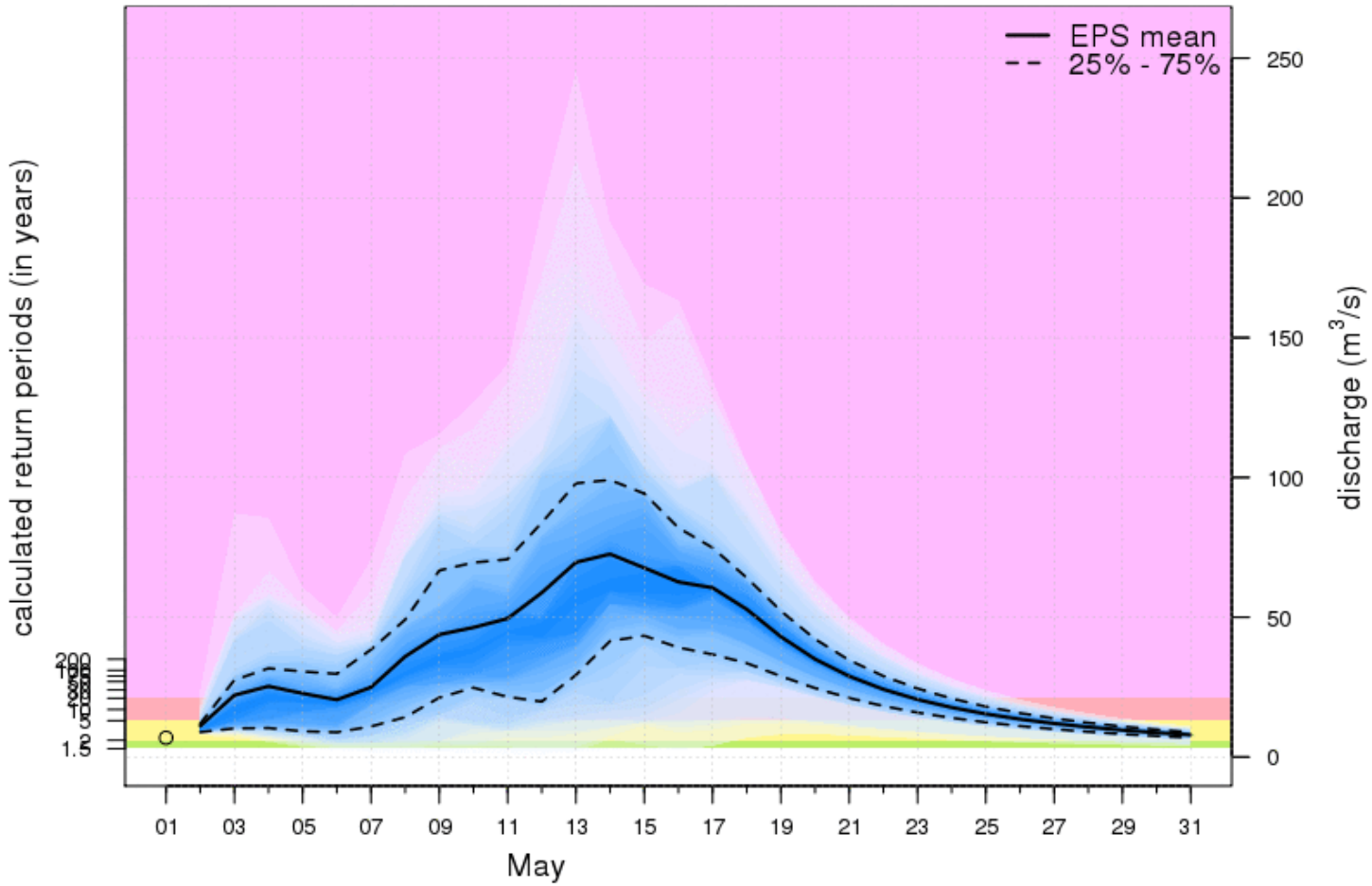


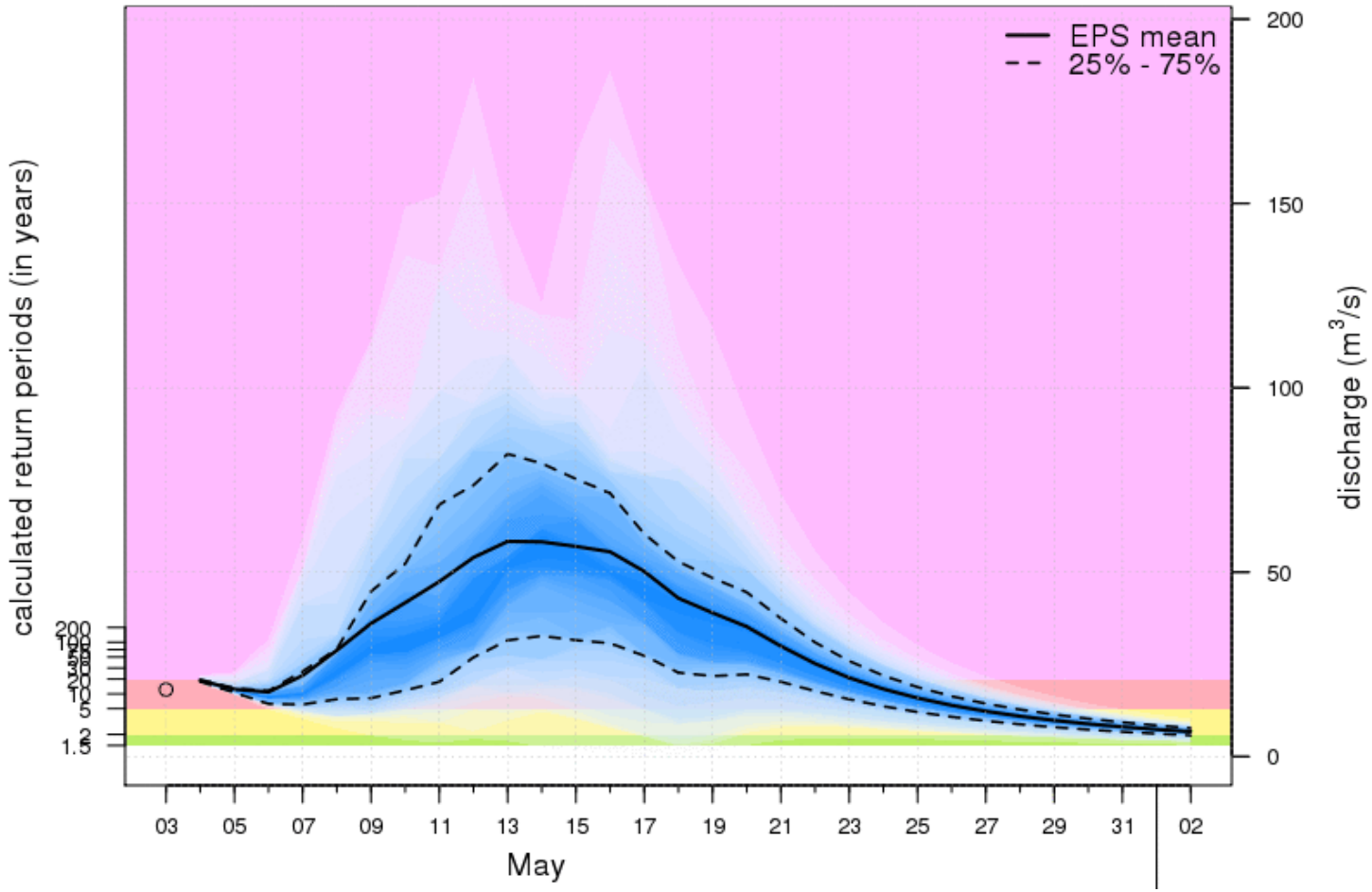
What would you do?

Kapelebyong

Kapelebyong

Was it right?


EPS mean
25% - 75%
calculated return periods (in years)
discharge (m3/s)
250
200
150
100
50
0
01
03
05
07
09
11
13
15
17
19
21
23
25
27
29
31
May


EPS mean
25% - 75%
calculated return periods (in years)
discharge (m³/s)
200
150
100
50
0
200
100
50
30
20
10
5
2
1.5
03
05
07
09
11
13
15
17
19
21
23
25
27
29
31
02
May

Can we improve local relevance?

- Return times
- Calibration with local data
- Learning