FASTFLOOD

Global Validation Suite

THE FASTFLOOD ADVANTAGE

"FastFlood helps decision-makers rapidly understand, anticipate, and respond to flood risk by turning hydrological data into clear, actionable scenarios—from early warning to long-term adaptation planning."

- The FastFlood Global Product Vision

FastFlood is fundamentally changing how we understand water. Our global product delivers amazing overall accuracy, proving that we can do what others simply can't. By combining cutting-edge physical modeling with unprecedented performance, we provide a level of insight that goes far beyond traditional methods.

Global & High-Res

Seamless global high resolution coverage brings local, hyper-accurate hydro-spatial intelligence to any location on Earth.

True Interactivity

Unlock rapid forecasting and full adaptation planning due to our interactivity. Test scenarios instantly and build climate resilience.

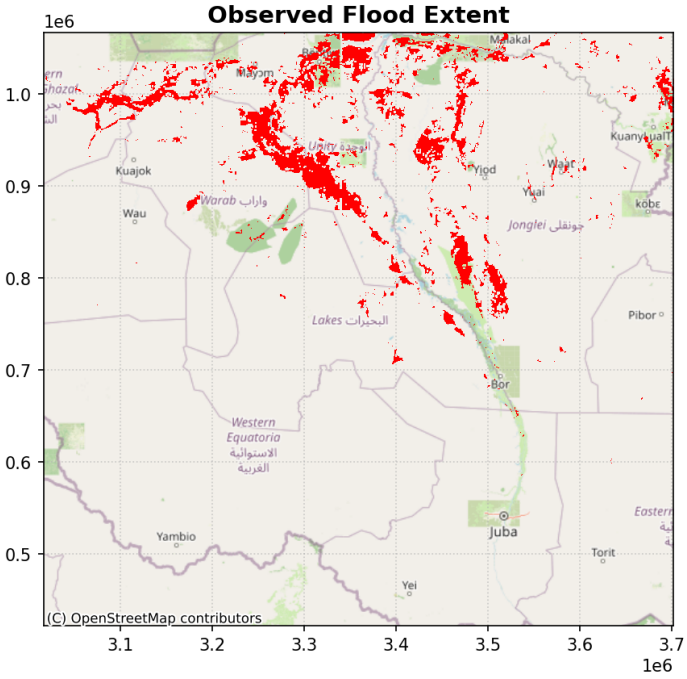
Urban & Flash

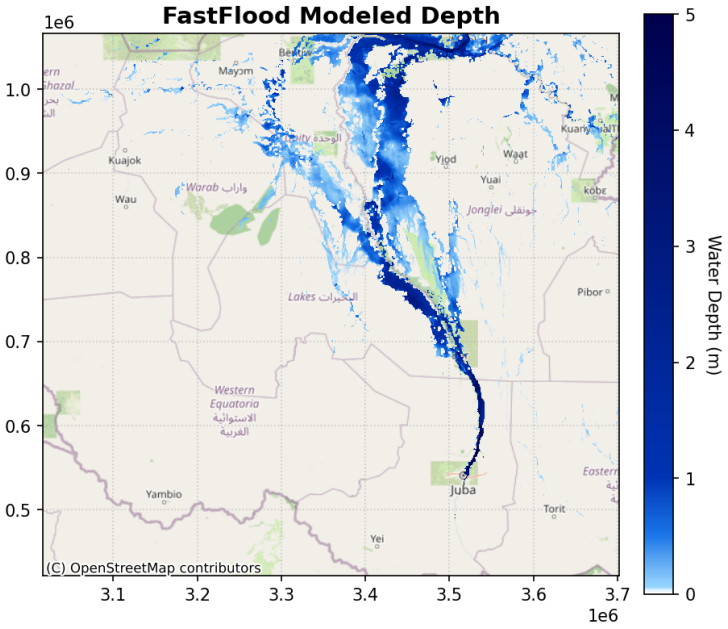
We capture highly dynamic urban and flash floods exactly when they happen, filling the critical gaps where satellite data falls short.

Unrivaled Performance. Global Scale. Actionable Results.

South Sudan - National (2021)

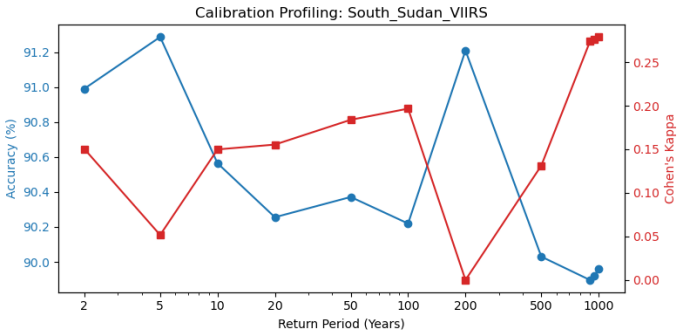
Resolution: high | Return Period: 1000Y

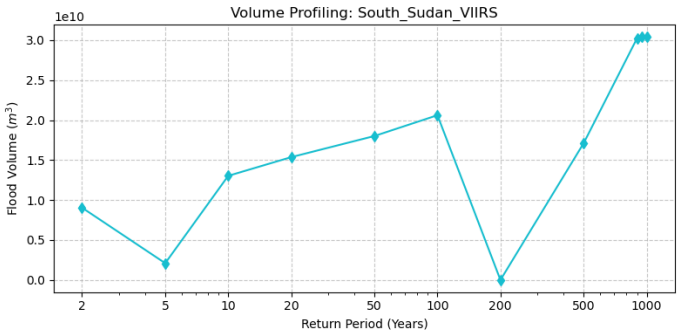




METRIC	VALUE
Kappa Score	0.2789
Accuracy	90.0%
Peak Discharge	42604.29 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	38820.04	27480.97	-11339.07
% of Total	8.8%	6.2%	-2.6%
Total Bounds Area	441611.14 km2		



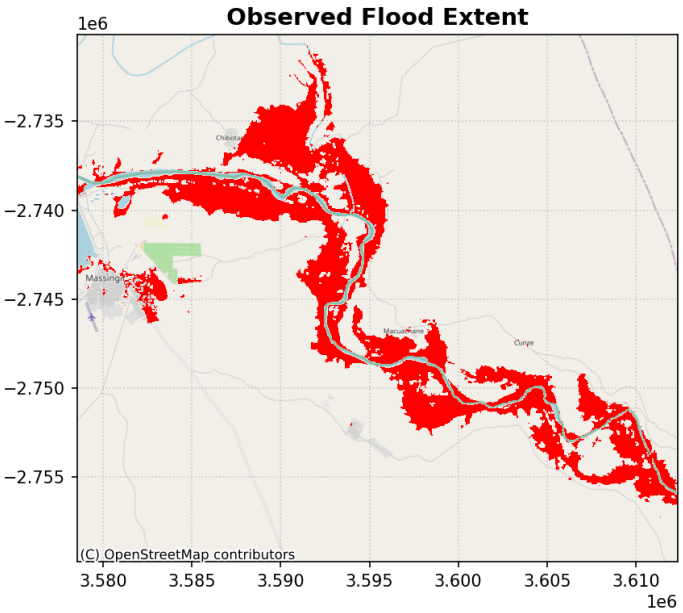


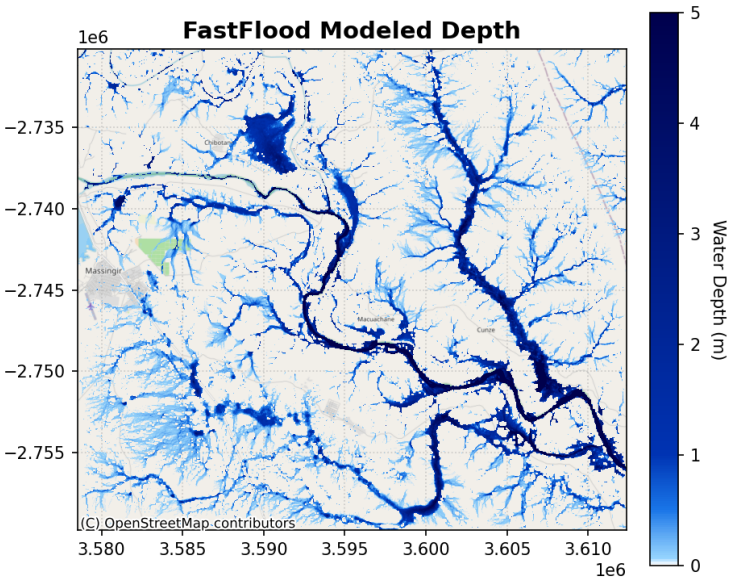

```
> fastflood.exe -key <key> -sim -autohazard 27.098119398 9.537555402 33.252863635 3.790408178 flashfloodfluvialflood 1000 high
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: UNOSAT Satellite Analysis

Mozambique - Massingir (2023)

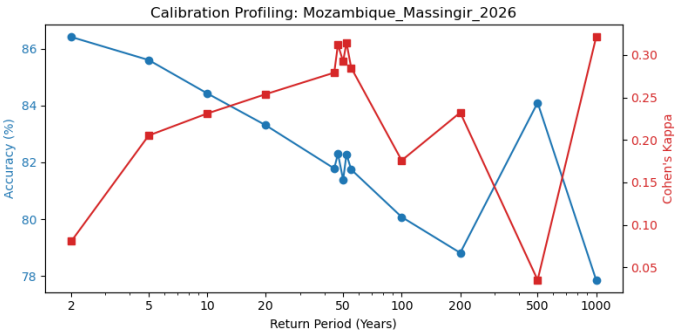
Resolution: 20m | Return Period: 52Y

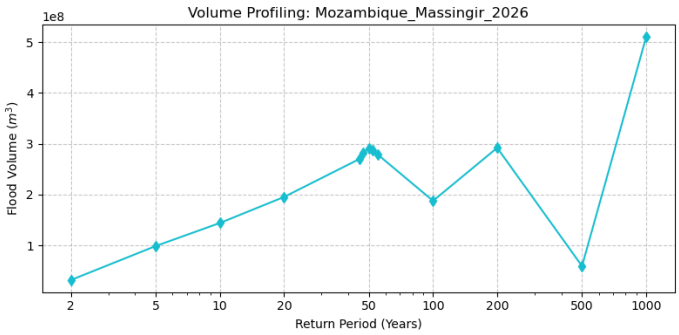




METRIC	VALUE
Kappa Score	0.3145
Accuracy	82.3%
Peak Discharge	7043.82 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	126.94	176.95	+50.02
% of Total	12.7%	17.7%	+5.0%
Total Bounds Area	1002.47 km2		



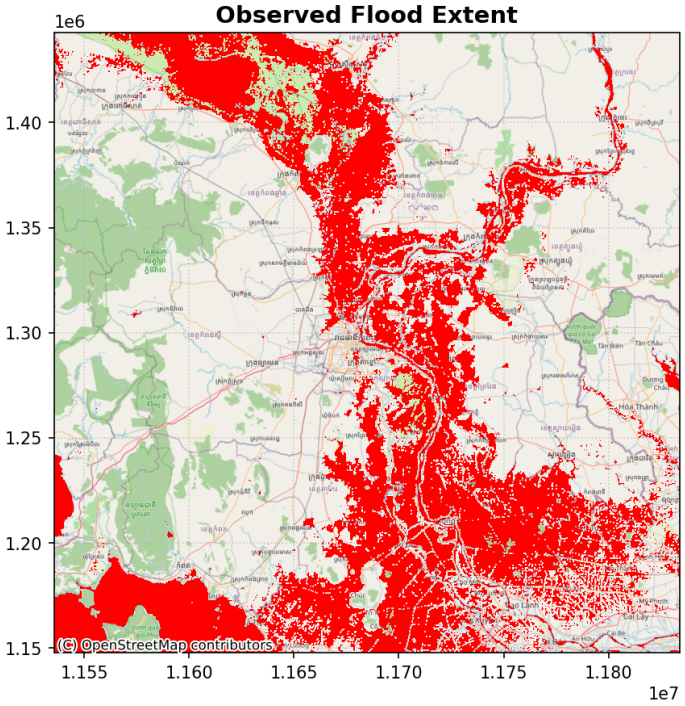


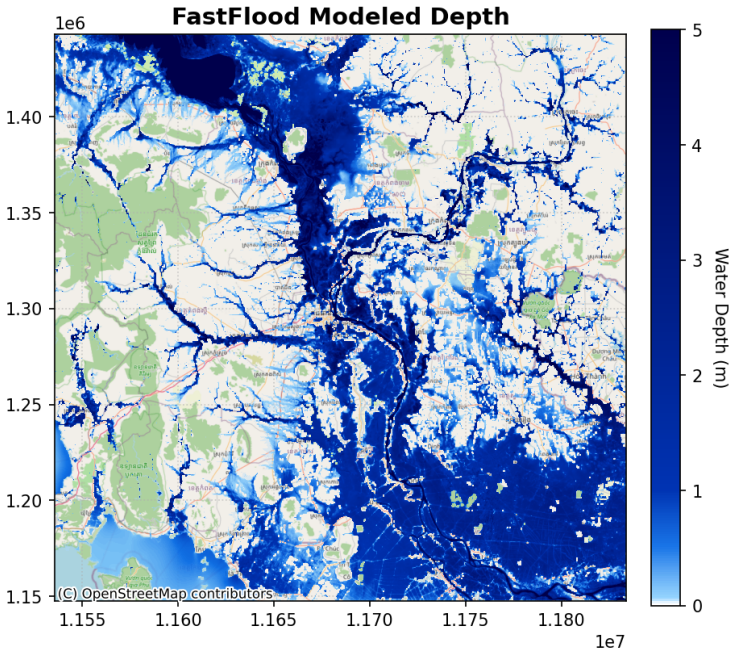

```
> fastflood.exe -key <key> -sim -autohazard 32.146433665 -23.808918808 32.450193556 -24.052233725 flashfloodfluvialflood 52
20m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

Cambodia - Mekong River (2021)

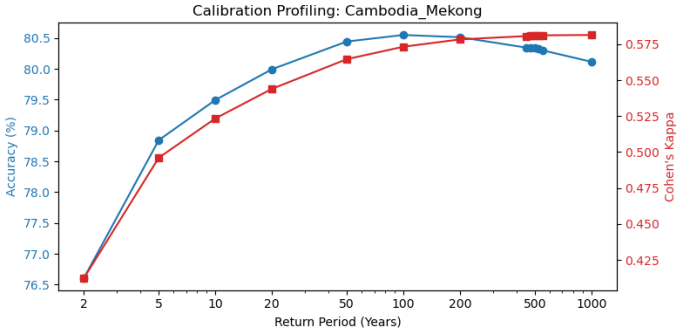
Resolution: medium | Return Period: 500Y

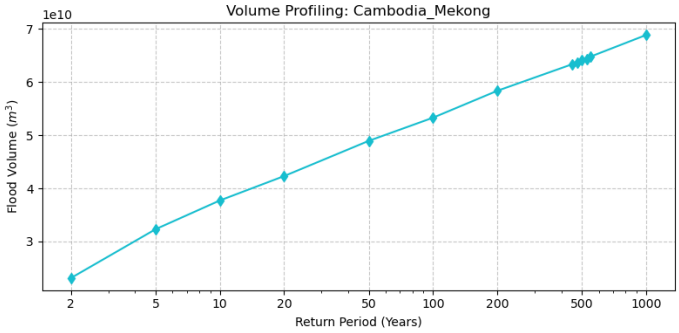




METRIC	VALUE
Kappa Score	0.5812
Accuracy	80.3%
Peak Discharge	97895.65 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	30019.19	35595.76	+5576.57
% of Total	34.1%	40.4%	+6.3%
Total Bounds Area	88045.93 km2		



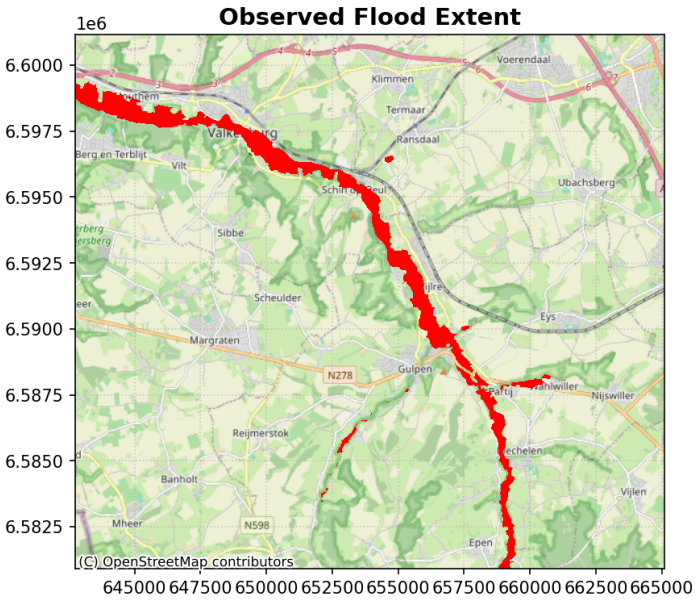


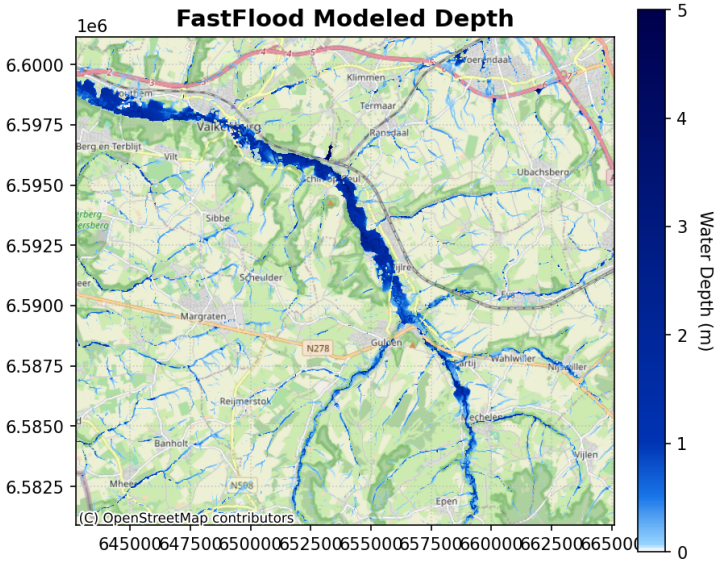

```
> fastflood.exe -key <key> -sim -autohazard 103.626906571 12.853017355 106.305272543 10.254748196 flashfloodfluvialflood 500
medium -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Colorado Flood Observatory

Netherlands - Limburg (2021)

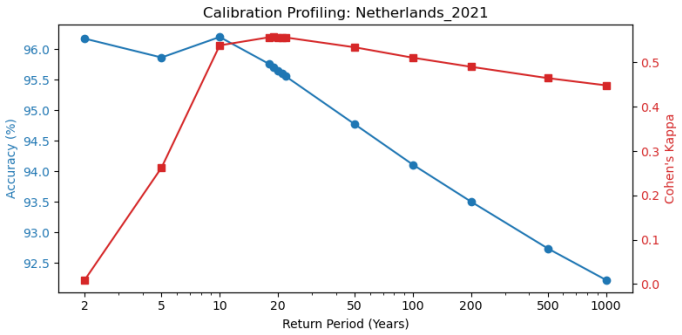
Resolution: 10m | Return Period: 19Y

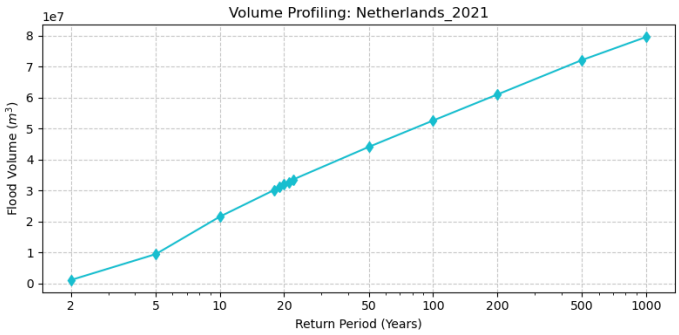




METRIC	VALUE
Kappa Score	0.5574
Accuracy	95.7%
Peak Discharge	206.67 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	17.02	29.02	+12.00
% of Total	3.8%	6.4%	+2.7%
Total Bounds Area	452.49 km2		



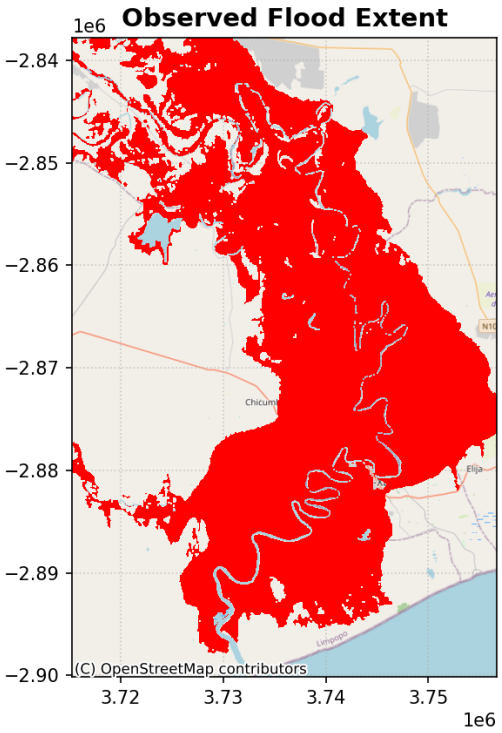


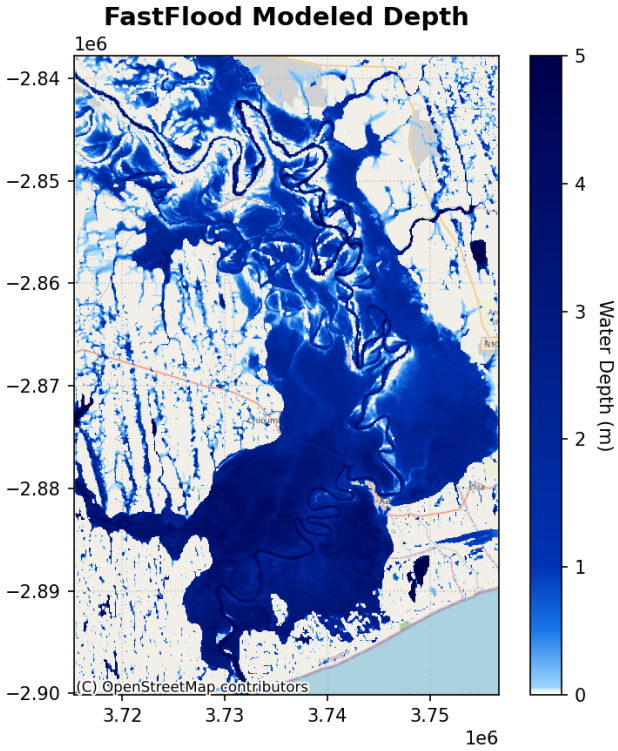

```
> fastflood.exe -key <key> -sim -autohazard 5.774017874 50.886011489 5.974619844 50.771123284 flashfloodfluvialflood 19 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Custom Satellite Analysis

Mozambique - Xai-Xai (2023)

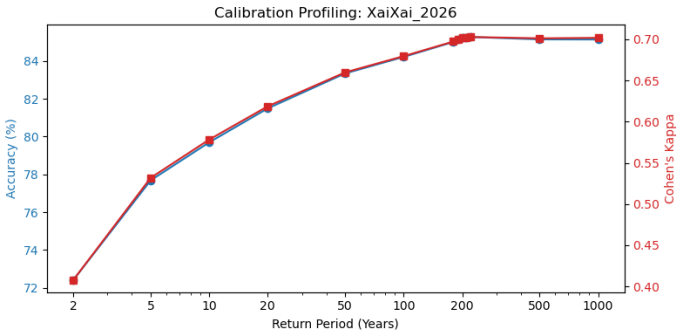
Resolution: 80m | Return Period: 220Y

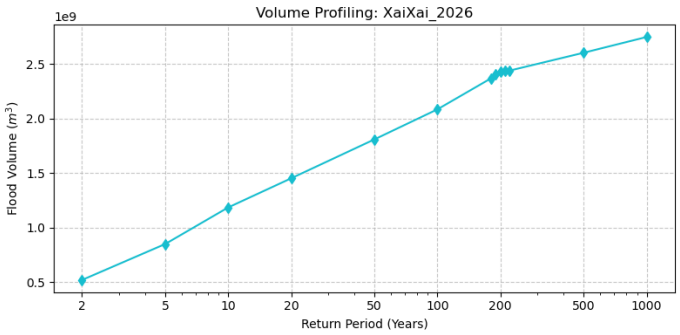




METRIC	VALUE
Kappa Score	0.7029
Accuracy	85.3%
Peak Discharge	35776.84 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	1128.40	1209.67	+81.26
% of Total	43.7%	46.8%	+3.1%
Total Bounds Area	2584.03 km2		



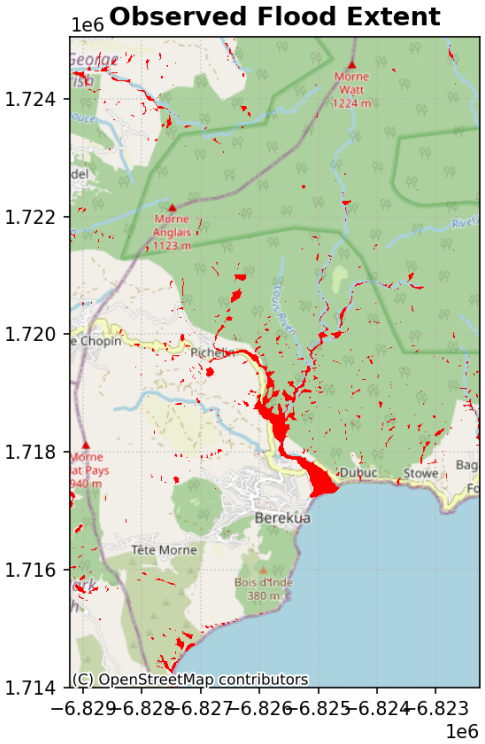


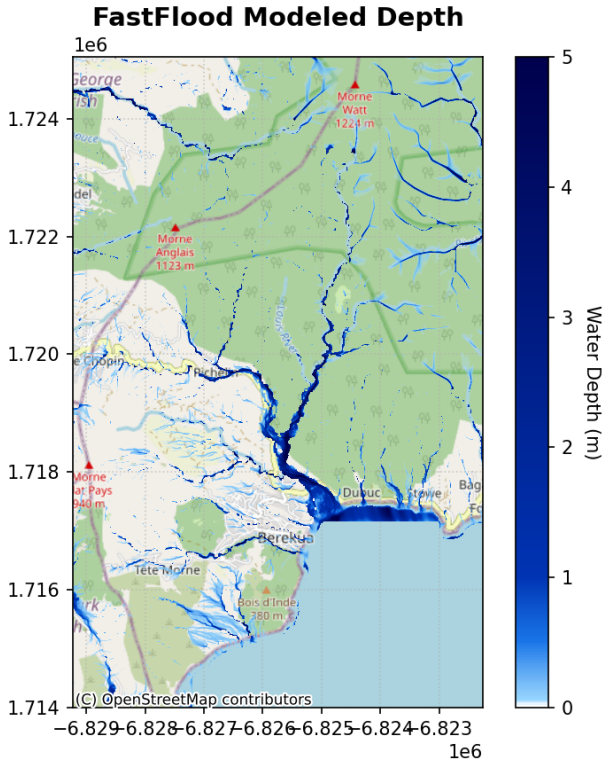

```
> fastflood.exe -key <key> -sim -autohazard 33.374922948 -24.690555799 33.74701099 -25.198360318 flashfloodfluvialflood 220
80m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

Dominica - Hurricane Maria (2017)

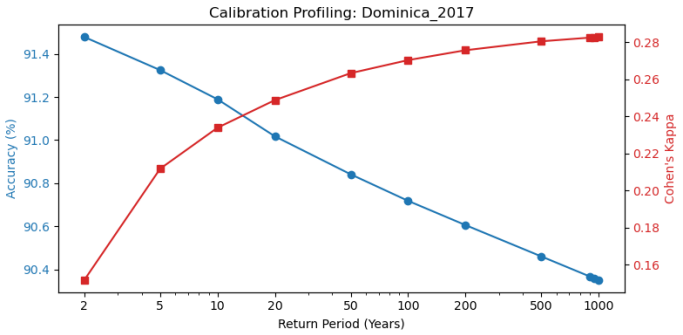
Resolution: 5m | Return Period: 1000Y

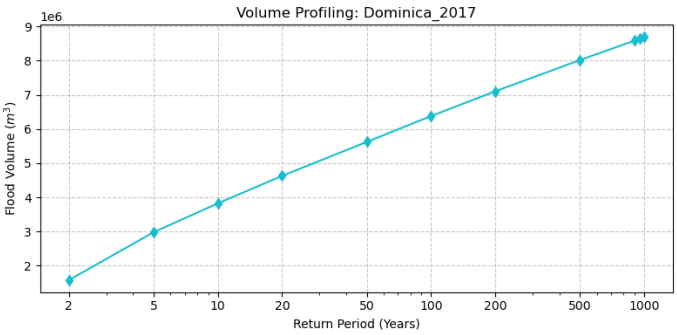




METRIC	VALUE
Kappa Score	0.2828
Accuracy	90.4%
Peak Discharge	753.15 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	6.48	4.69	-1.80
% of Total	8.4%	6.1%	-2.3%
Total Bounds Area	77.17 km2		



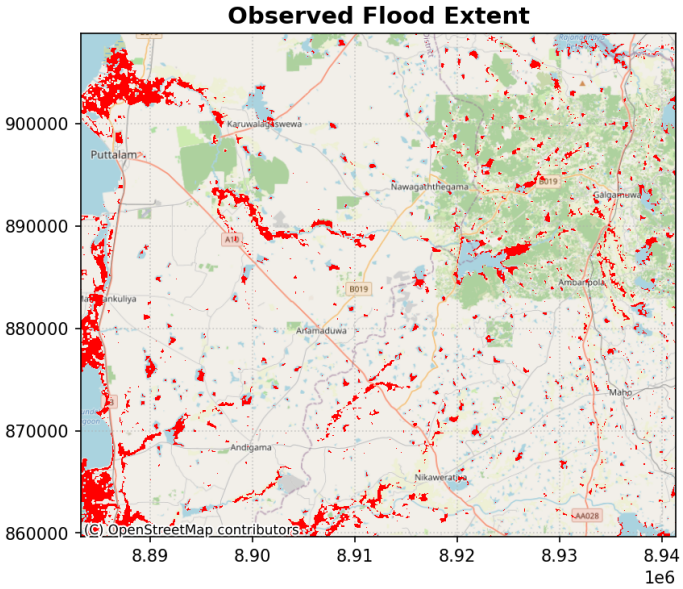


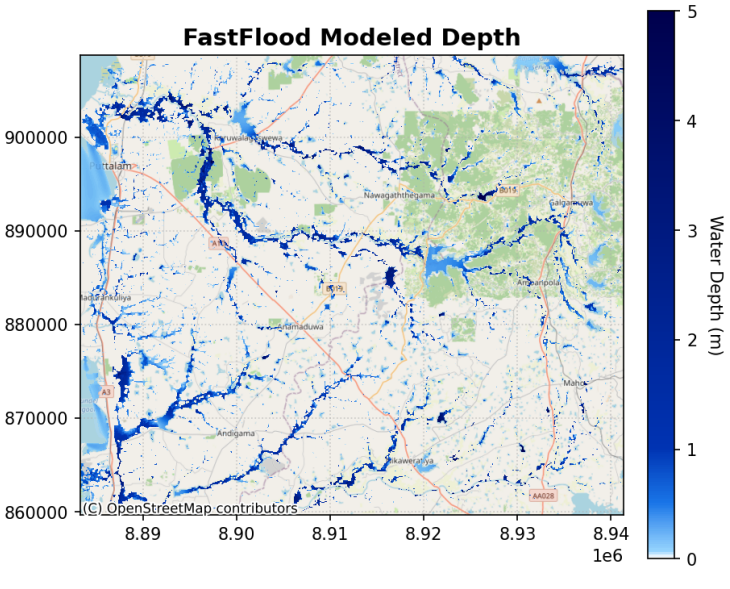

```
> fastflood.exe -key <key> -sim -autohazard -61.347963316 15.310894975 -61.285351301 15.214945776 flashfloodfluvialflood 1000
5m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Twente University Satellite mapping

Sri Lanka - Western Province (2025)

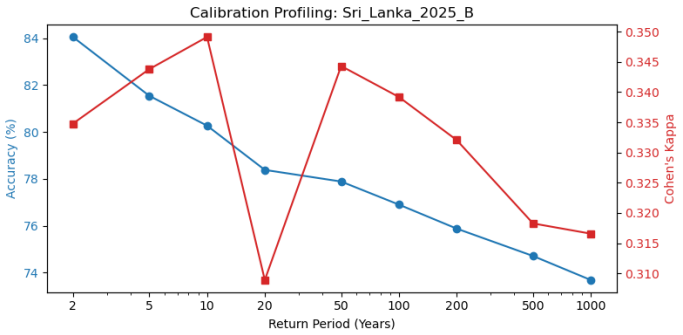
Resolution: 40m | Return Period: 2Y

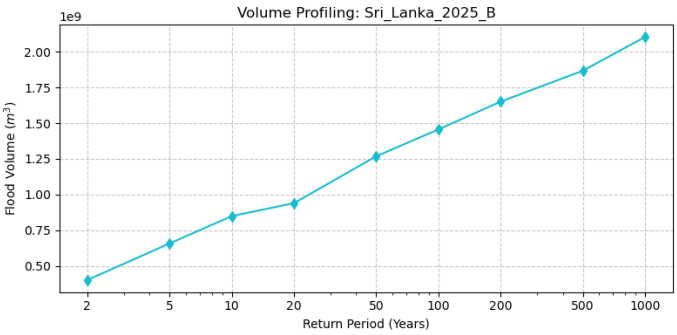




METRIC	VALUE
Kappa Score	0.3348
Accuracy	84.1%
Peak Discharge	417.37 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	405.82	390.61	-15.21
% of Total	14.2%	13.7%	-0.5%
Total Bounds Area	2859.27 km2		



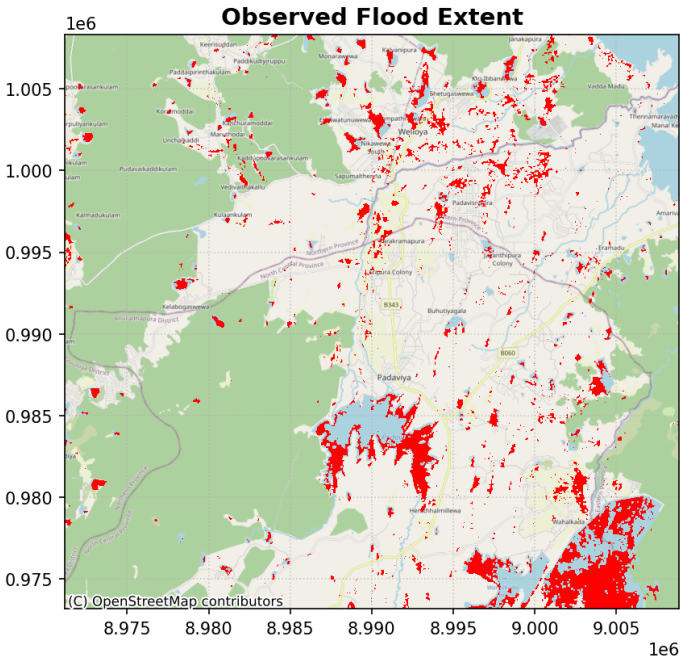


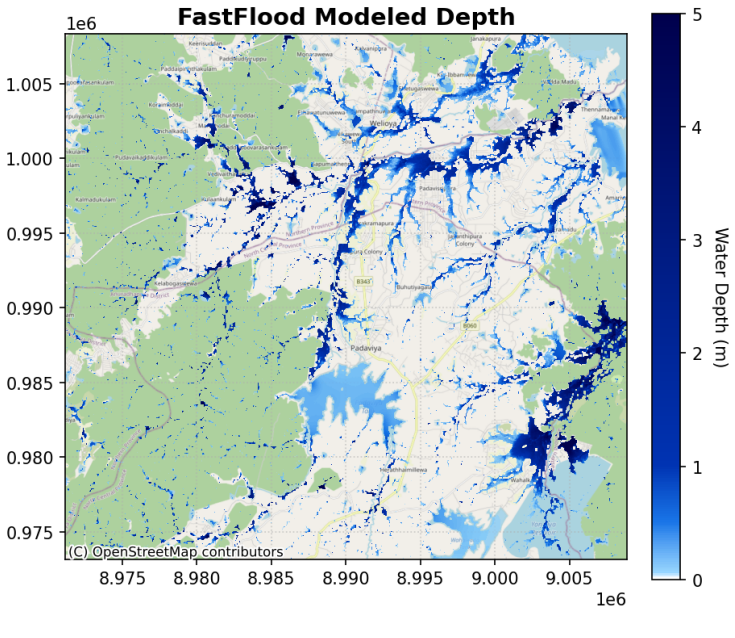

```
> fastflood.exe -key <key> -sim -autohazard 79.799313923 8.136545474 80.321523216 7.698921054 flashfloodfluvialflood 2 40m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: UNOSAT merged satellite analysis

Sri Lanka - Northern Province (2025)

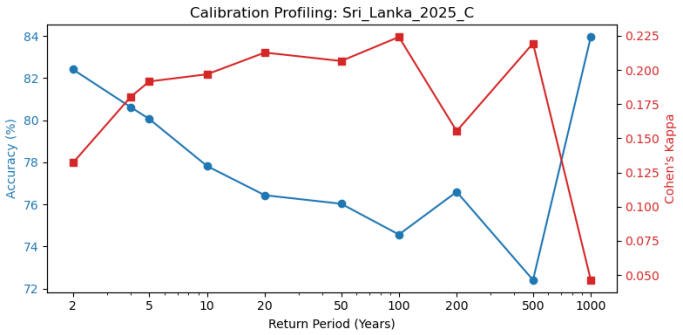
Resolution: 20m | Return Period: 5Y

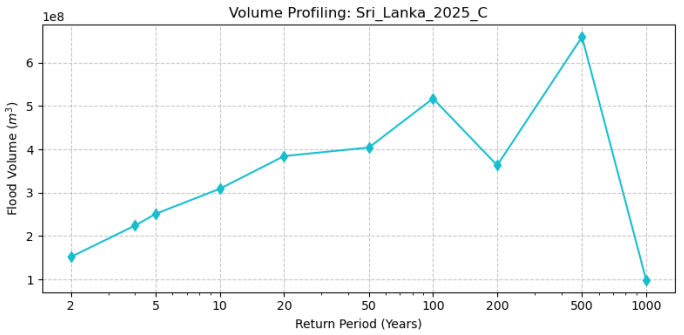




METRIC	VALUE
Kappa Score	0.1916
Accuracy	80.1%
Peak Discharge	817.84 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	163.78	216.83	+53.04
% of Total	12.4%	16.4%	+4.0%
Total Bounds Area	1325.71 km2		



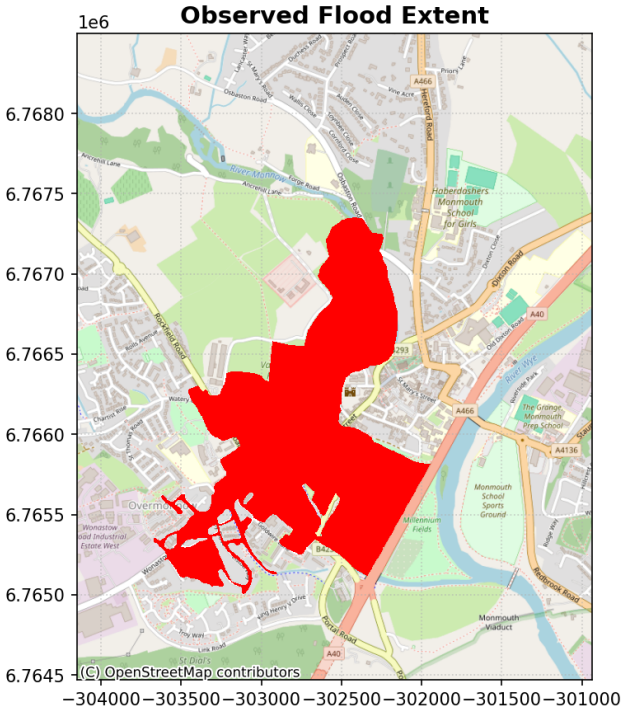


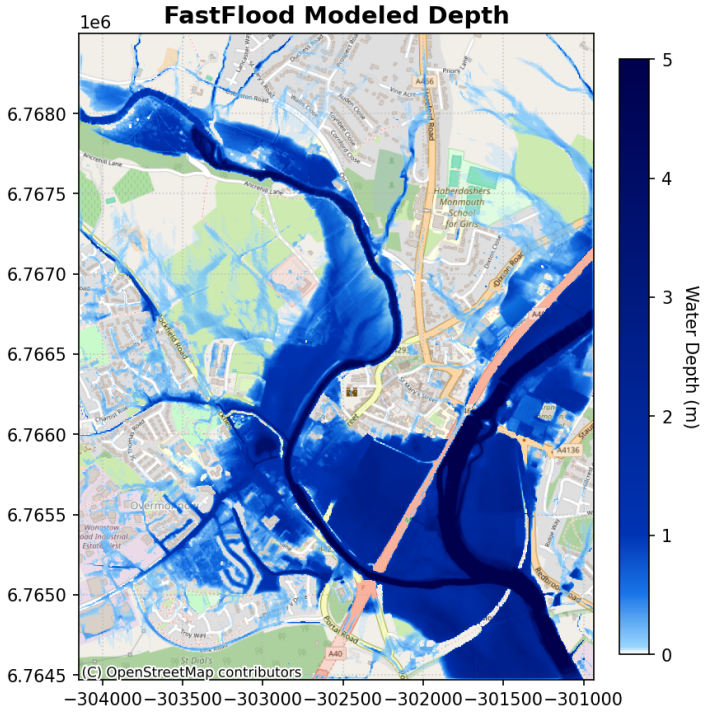

```
> fastflood.exe -key <key> -sim -autohazard 80.589484579 9.020635931 80.927965164 8.708438655 flashfloodfluvialflood 5 20m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: UNOSAT merged satellite analysis

United Kingdom - River Severn (2024)

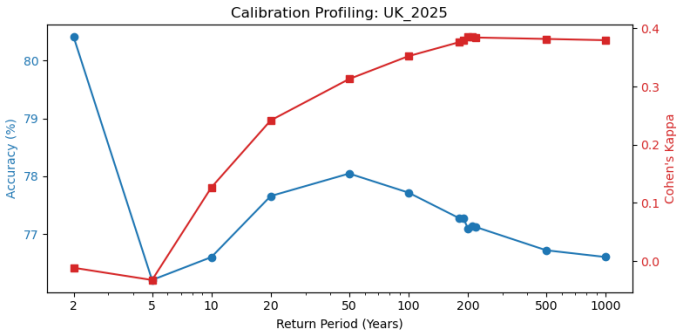
Resolution: 5m | Return Period: 210Y

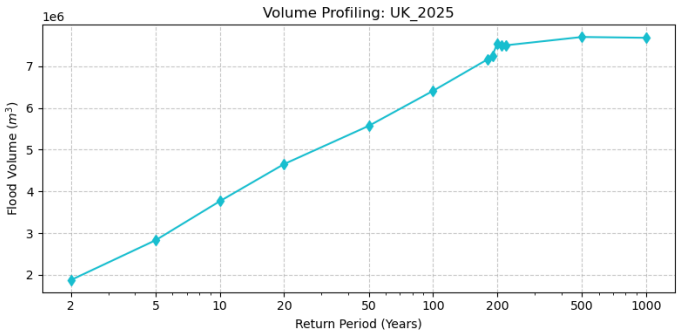




METRIC	VALUE
Kappa Score	0.3850
Accuracy	77.1%
Peak Discharge	2119.71 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	1.70	4.22	+2.52
% of Total	13.1%	32.6%	+19.5%
Total Bounds Area	12.94 km2		



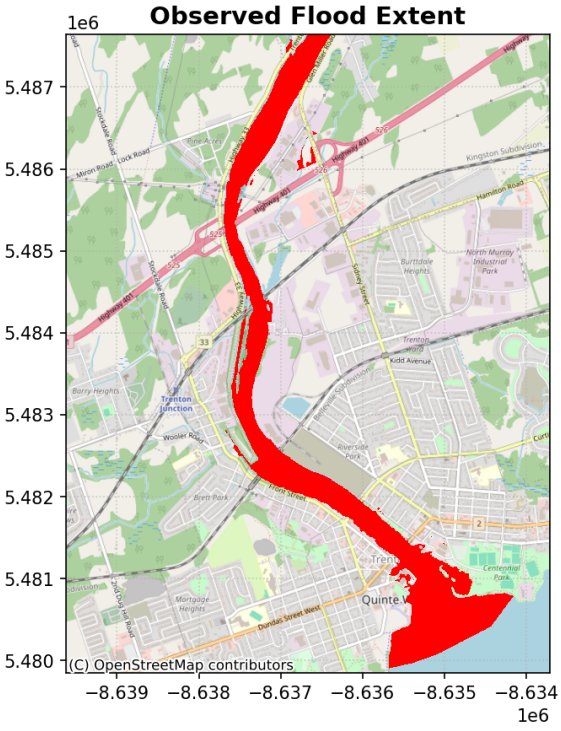


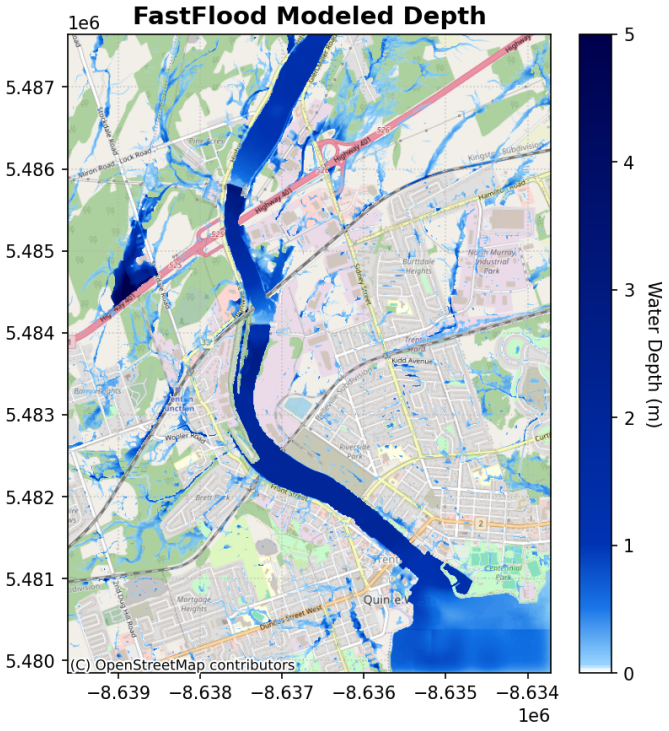

```
> fastflood.exe -key <key> -sim -autohazard -2.732195687 51.82475009 -2.703303572 51.802411003 flashfloodfluvialflood 210 5m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Custom Satellite Analysis

Canada - Belleville, ON

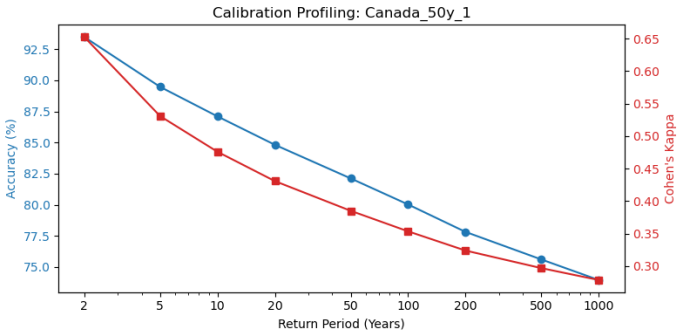
Resolution: 5m | Return Period: 2Y

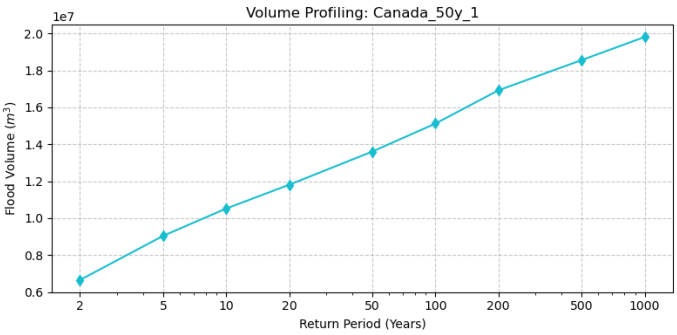




METRIC	VALUE
Kappa Score	0.6524
Accuracy	93.5%
Peak Discharge	417.07 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	3.52	6.03	+2.51
% of Total	7.6%	13.1%	+5.5%
Total Bounds Area	46.04 km2		



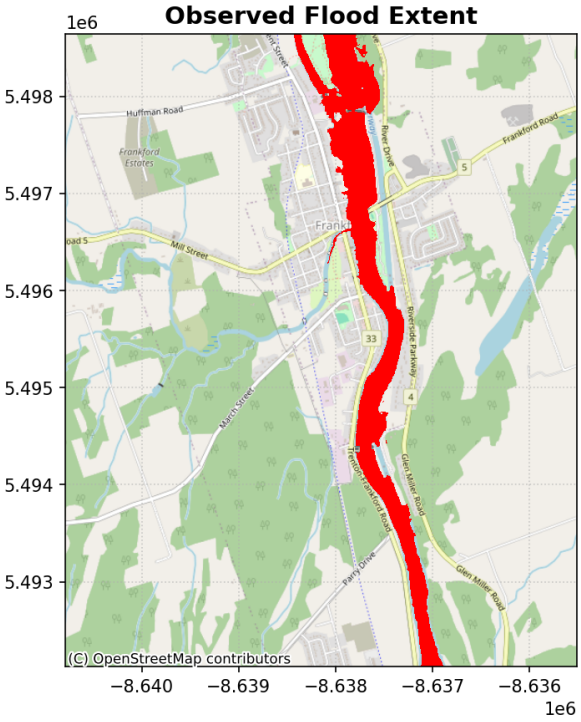


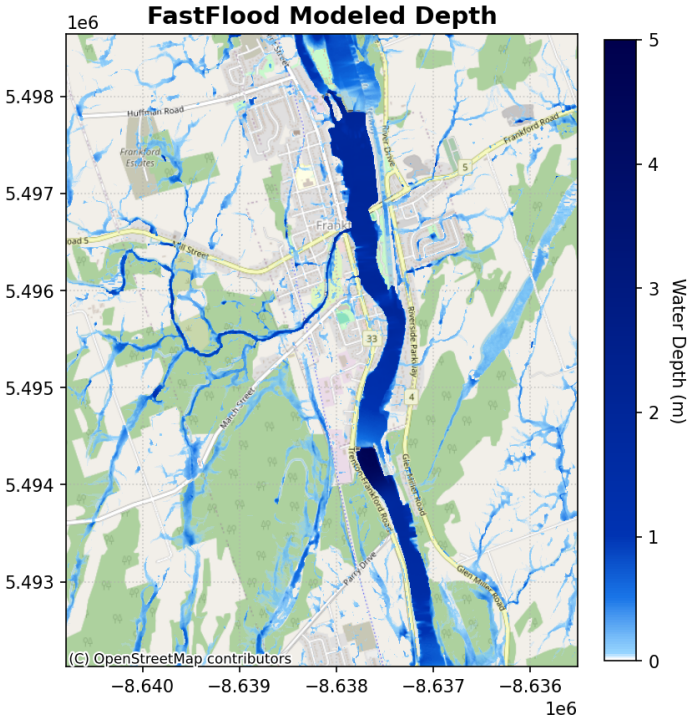

```
> fastflood.exe -key <key> -sim -autohazard -77.611028555 44.143290784 -77.557955421 44.093007163 flashfloodfluvialflood 2 5m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Canada National Historic Flood Inventory

Canada - Belleville, ON

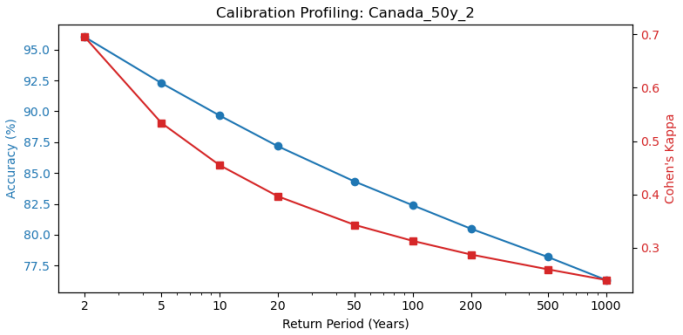
Resolution: 5m | Return Period: 2Y

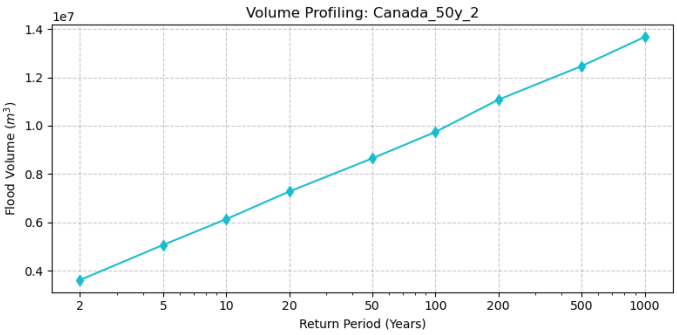




METRIC	VALUE
Kappa Score	0.6951
Accuracy	96.0%
Peak Discharge	403.35 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	1.86	2.94	+1.08
% of Total	5.4%	8.6%	+3.2%
Total Bounds Area	34.37 km2		



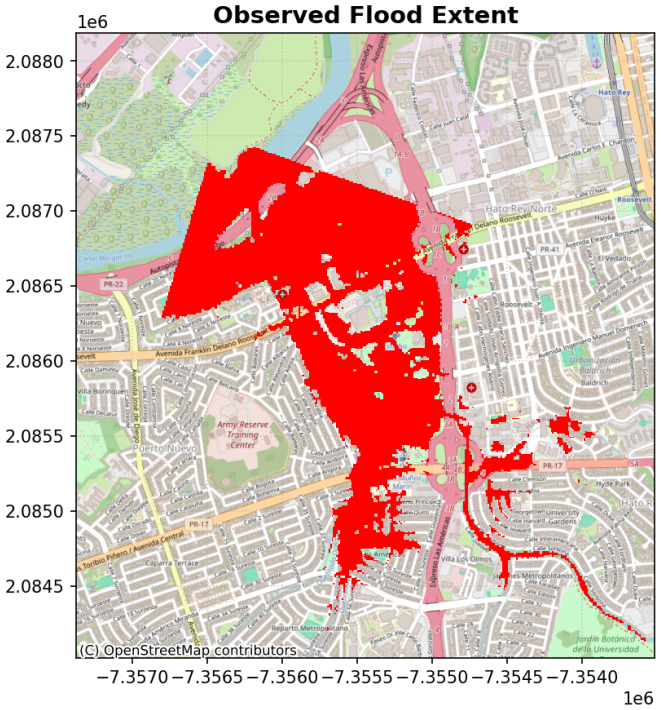


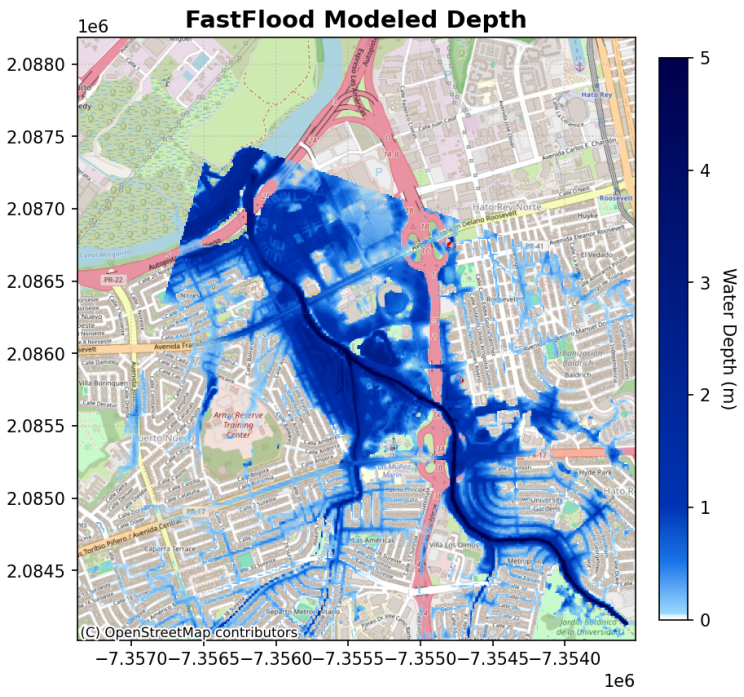

```
> fastflood.exe -key <key> -sim -autohazard -77.621498758 44.214150747 -77.574081956 44.172128366 flashfloodfluvialflood 2 5m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Canada National Historic Flood Inventory

Puerto Rico - Hurricane Maria (2017)

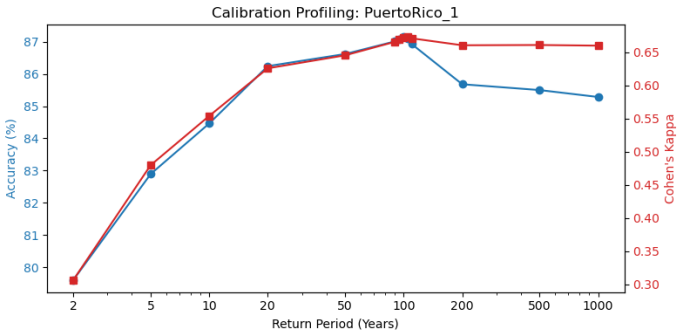
Resolution: 10m | Return Period: 105Y

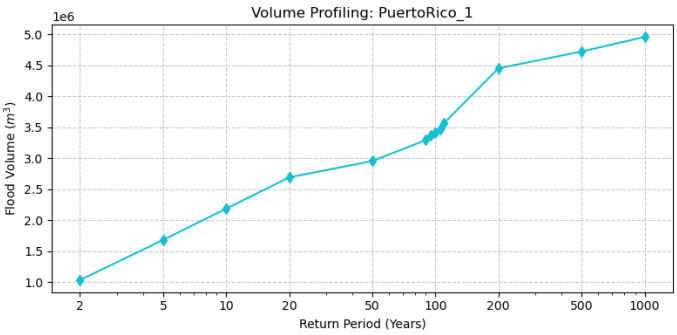




METRIC	VALUE
Kappa Score	0.6733
Accuracy	87.1%
Peak Discharge	199.23 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	2.71	2.97	+0.26
% of Total	25.8%	28.3%	+2.5%
Total Bounds Area	10.50 km2		



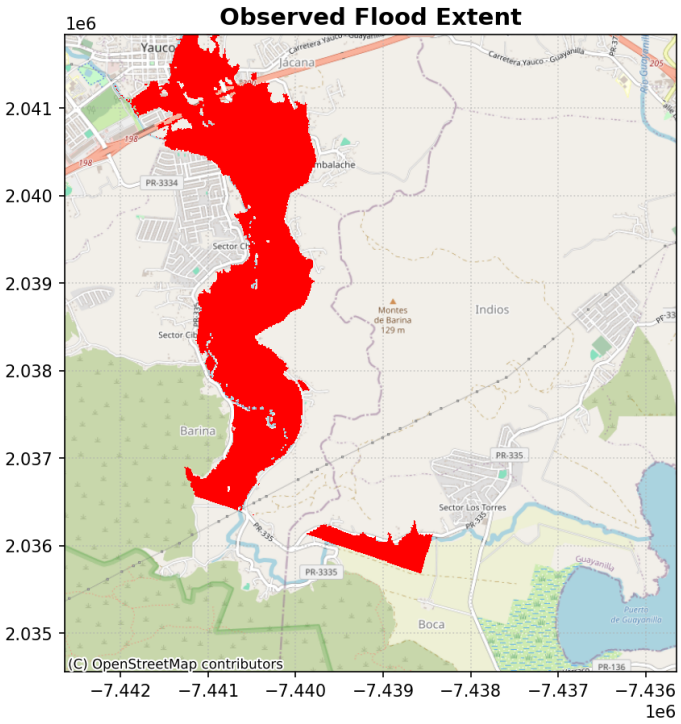


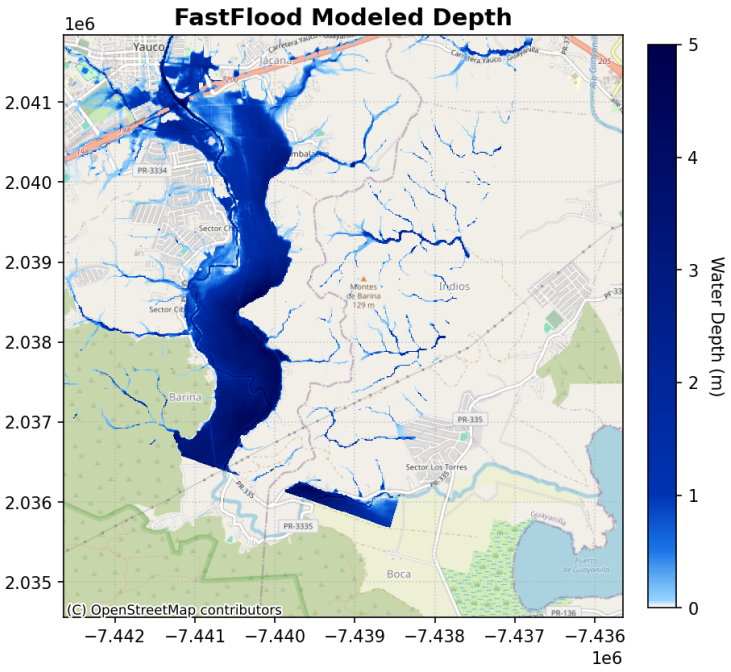

```
> fastflood.exe -key <key> -sim -autohazard -66.092414417 18.432078843 -66.057687696 18.396557827 flashfloodfluvialflood 105
10m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

Puerto Rico - Hurricane Maria (2017)

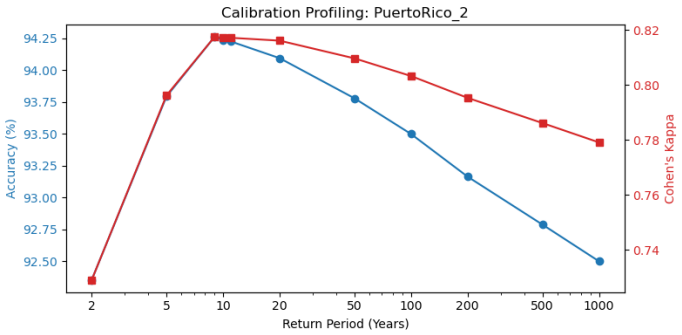
Resolution: 10m | Return Period: 9Y

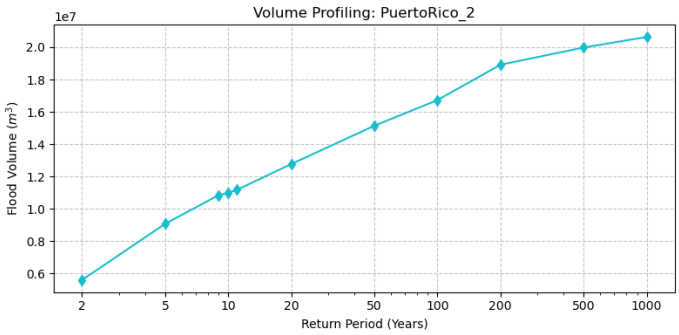




METRIC	VALUE
Kappa Score	0.8175
Accuracy	94.3%
Peak Discharge	463.08 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	5.25	5.65	+0.41
% of Total	18.8%	20.3%	+1.5%
Total Bounds Area	27.91 km2		



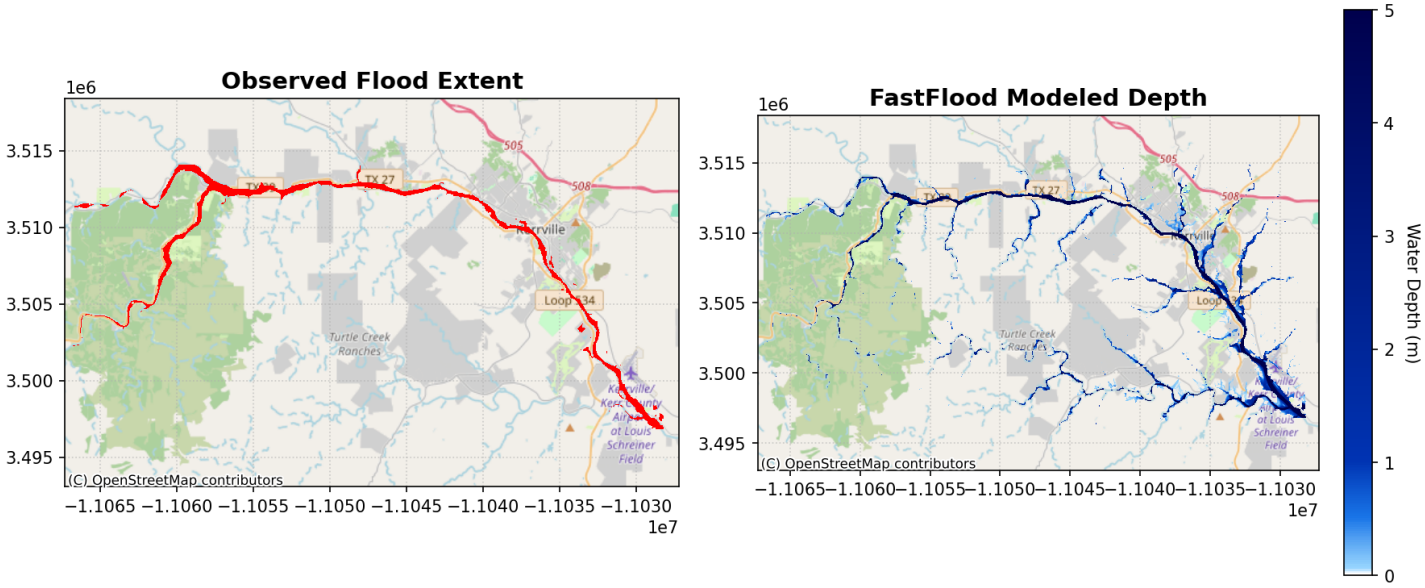



```
> fastflood.exe -key <key> -sim -autohazard -66.858354801 18.03664966 -66.795530175 17.974466914 flashfloodfluvialflood 9 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

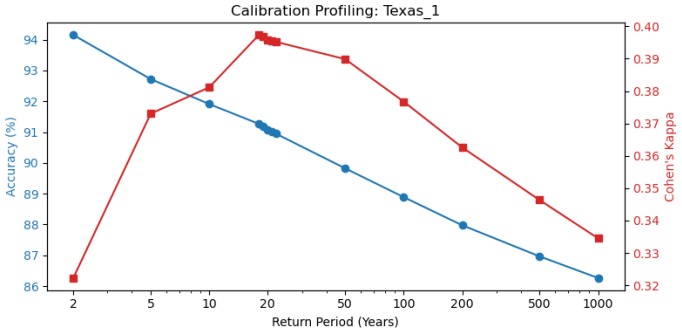
USA - Texas (2024)

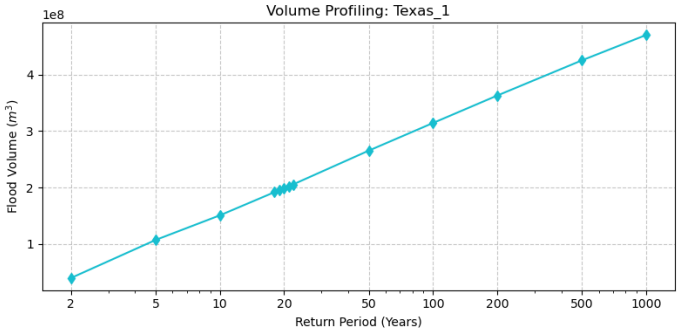
Resolution: 10m | Return Period: 18Y



METRIC	VALUE
Kappa Score	0.3973
Accuracy	91.3%
Peak Discharge	3060.67 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	30.58	79.29	+48.71
% of Total	4.3%	11.2%	+6.9%
Total Bounds Area	711.09 km2		



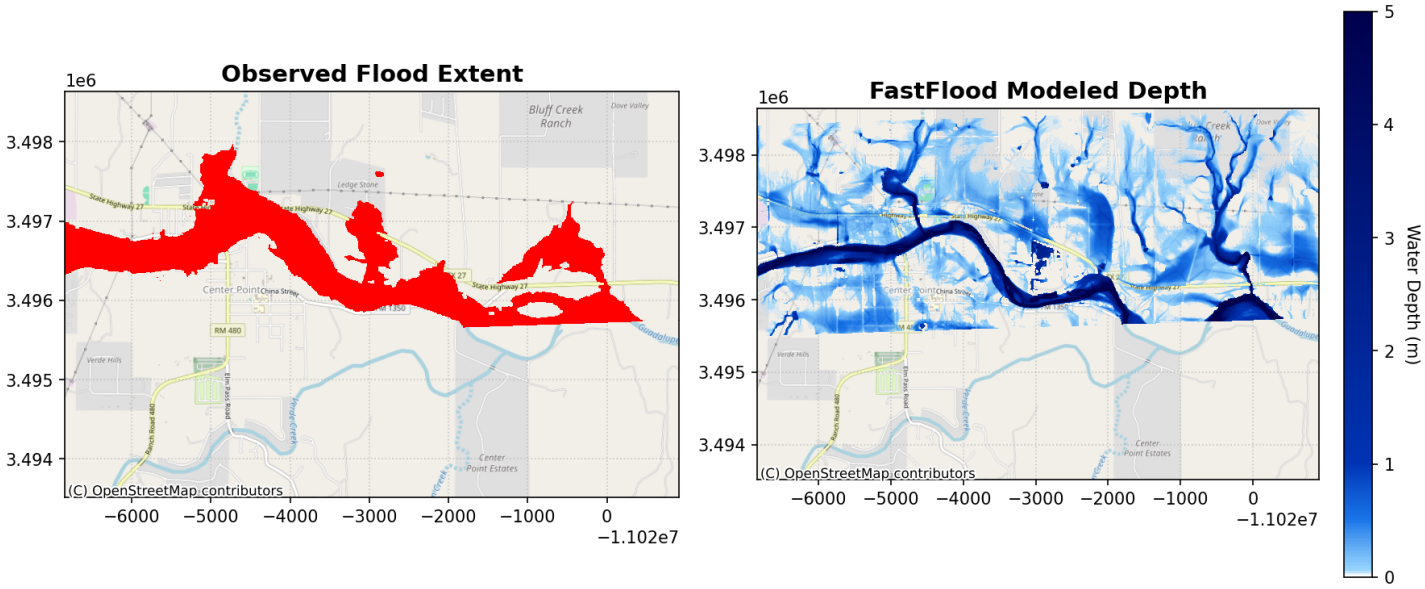



```
> fastflood.exe -key <key> -sim -autohazard -99.419179715 30.115433068 -99.059185526 29.918427849 flashfloodfluvialflood 18
10m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

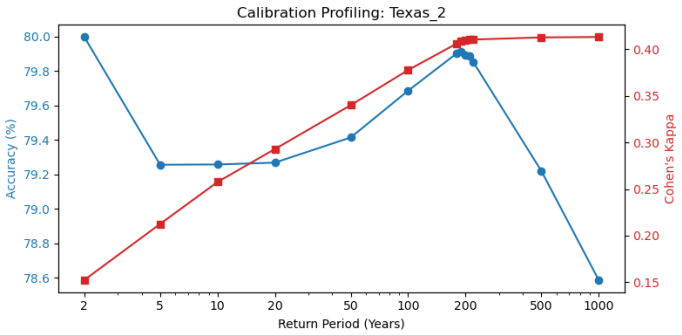
USA - Texas (2024)

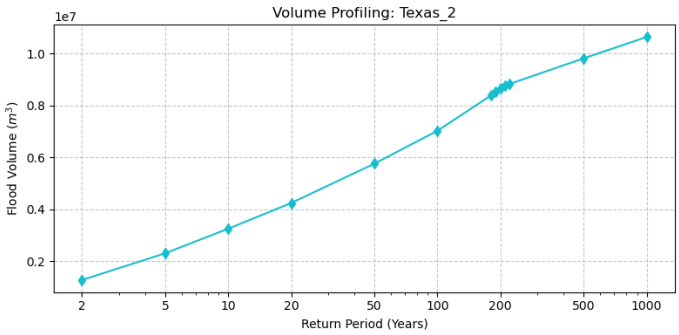
Resolution: 5m | Return Period: 210Y



METRIC	VALUE
Kappa Score	0.4104
Accuracy	79.9%
Peak Discharge	1940.80 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	4.67	5.23	+0.56
% of Total	20.5%	23.0%	+2.5%
Total Bounds Area	22.73 km2		



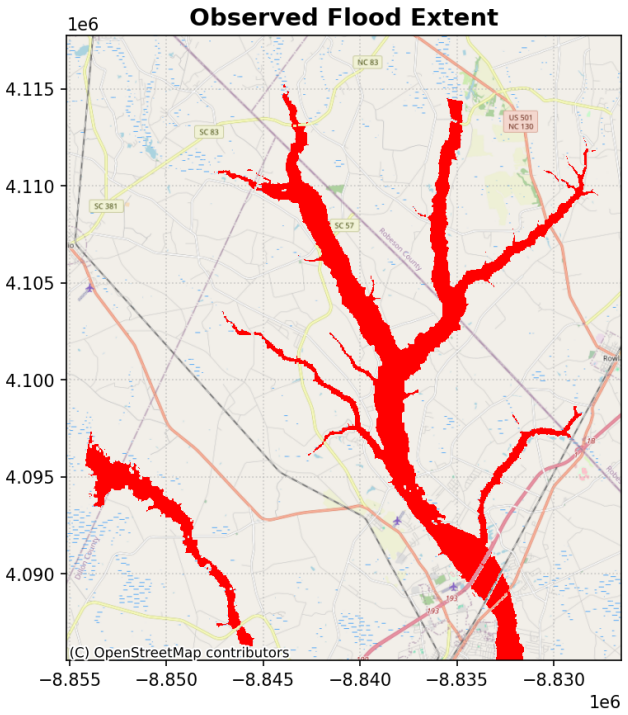


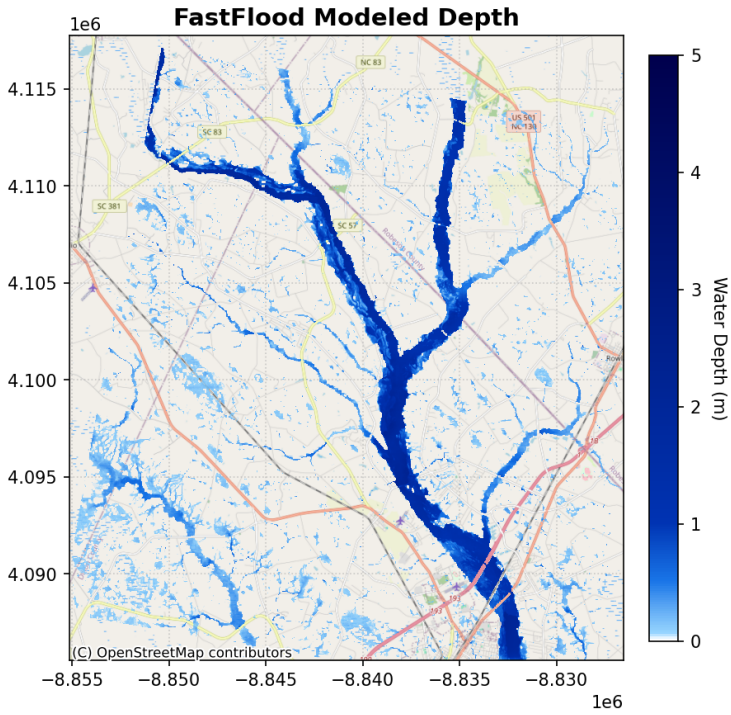

```
> fastflood.exe -key <key> -sim -autohazard -99.055835217 29.961780467 -98.986058748 29.921915422 flashfloodfluvialflood 210
5m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

USA - Hurricane Matthew (2016)

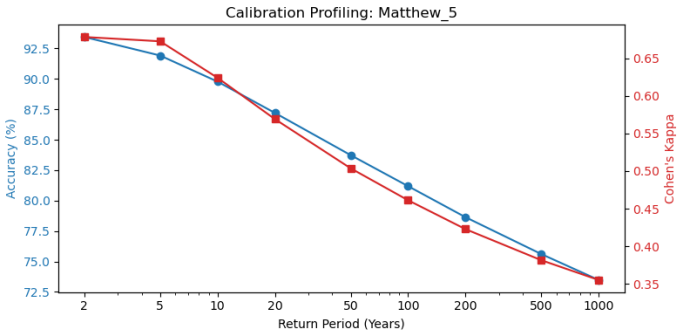
Resolution: 10m | Return Period: 2Y

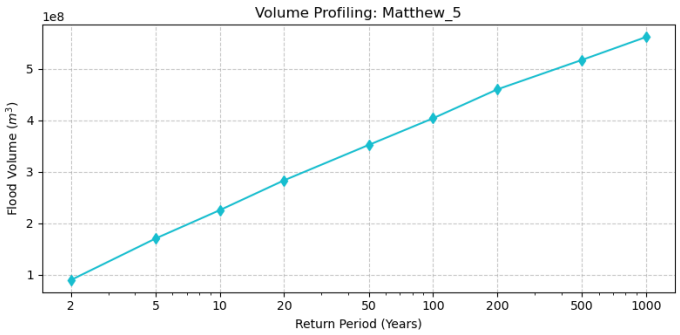




METRIC	VALUE
Kappa Score	0.6787
Accuracy	93.4%
Peak Discharge	449.52 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	92.46	85.01	-7.44
% of Total	12.0%	11.1%	-1.0%
Total Bounds Area	769.26 km2		



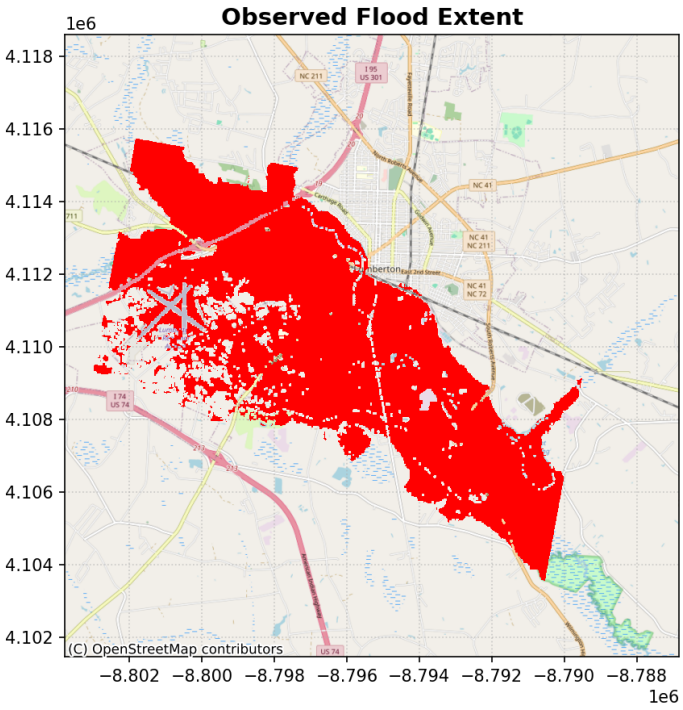


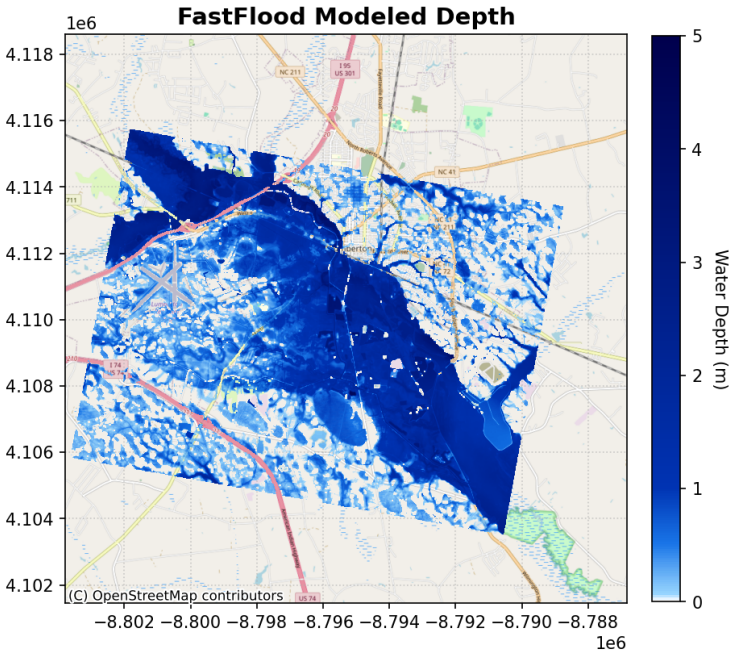

```
> fastflood.exe -key <key> -sim -autohazard -79.547238431 34.659953324 -79.29012266 34.421448797 flashfloodfluvialflood 2 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

USA - Hurricane Matthew (2016)

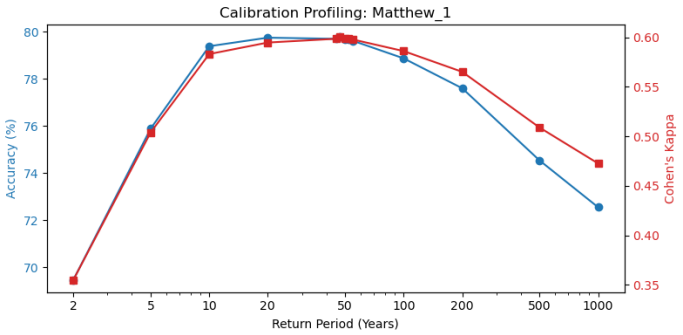
Resolution: 10m | Return Period: 47Y

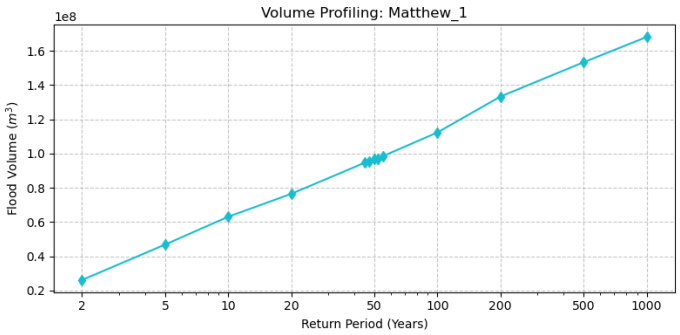




METRIC	VALUE
Kappa Score	0.6004
Accuracy	79.8%
Peak Discharge	7289.86 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	61.25	76.03	+14.77
% of Total	45.4%	56.4%	+11.0%
Total Bounds Area	134.82 km2		



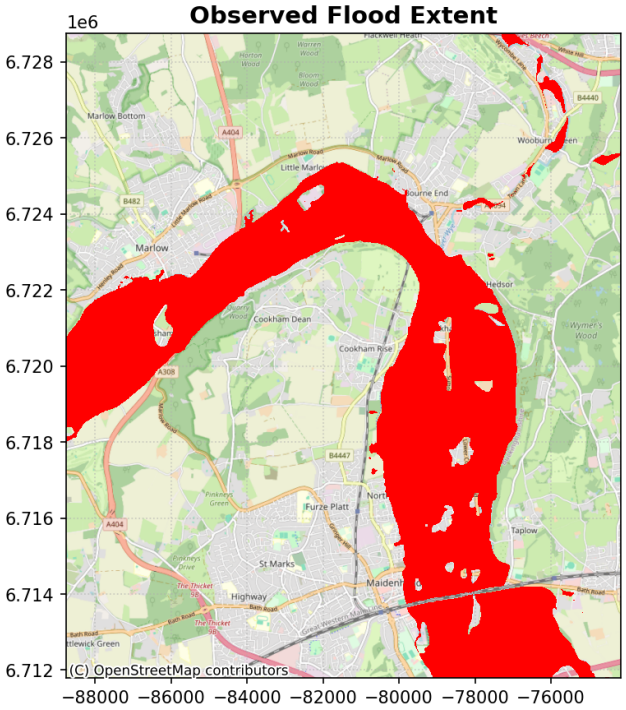


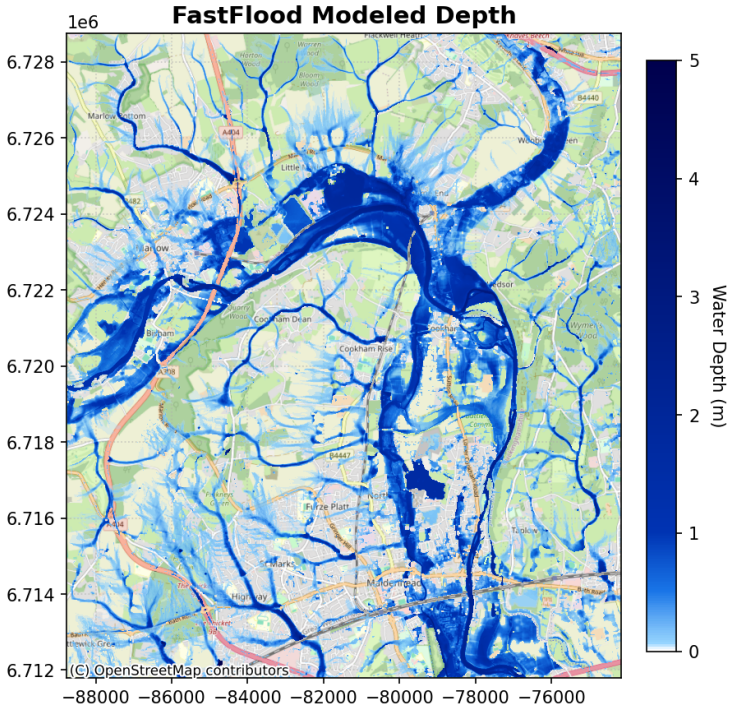

```
> fastflood.exe -key <key> -sim -autohazard -79.085658596 34.666081793 -78.933466601 34.539406329 flashfloodfluvialflood 47
10m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

United Kingdom - River Thames

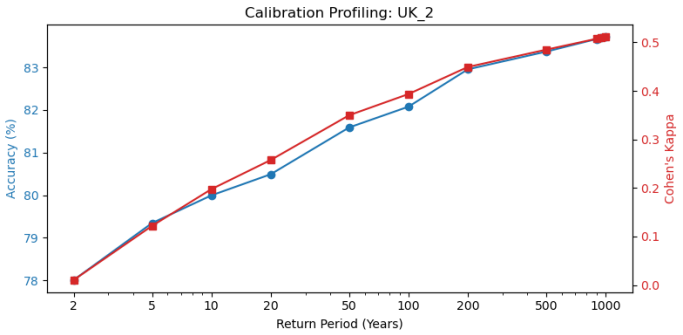
Resolution: 10m | Return Period: 1000Y

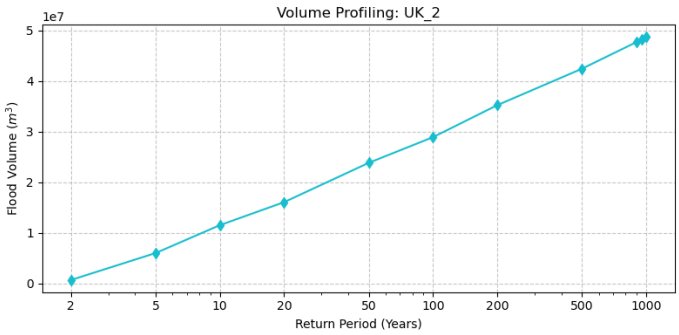




METRIC	VALUE
Kappa Score	0.5112
Accuracy	83.7%
Peak Discharge	1628.54 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	54.74	49.84	-4.90
% of Total	22.1%	20.1%	-2.0%
Total Bounds Area	247.74 km2		



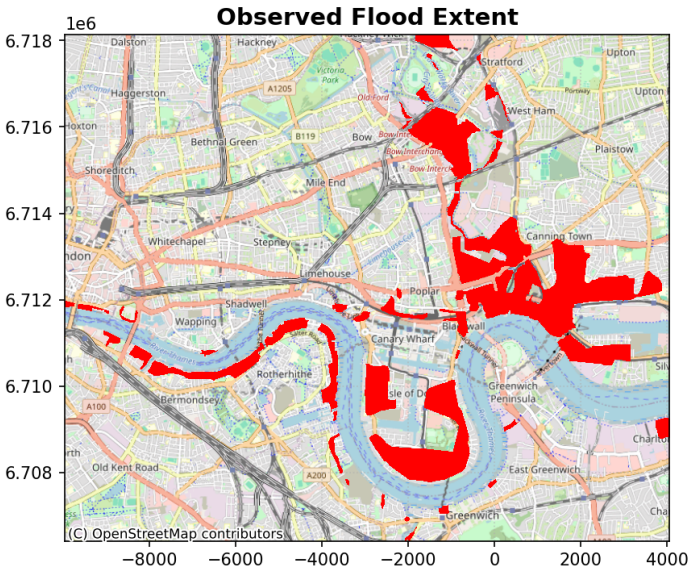


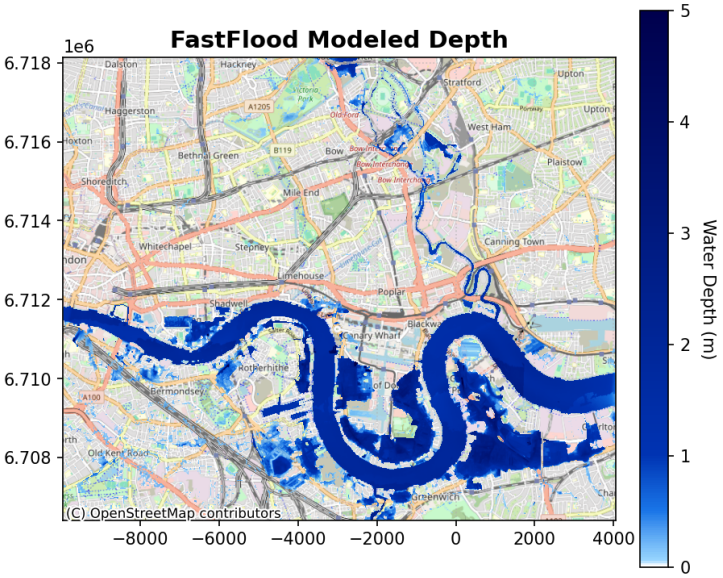

```
> fastflood.exe -key <key> -sim -autohazard -0.797347927 51.603530869 -0.6661806 51.508721594 flashfloodfluvialflood 1000 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United Kingdom National Historic Flood Extents

United Kingdom - London

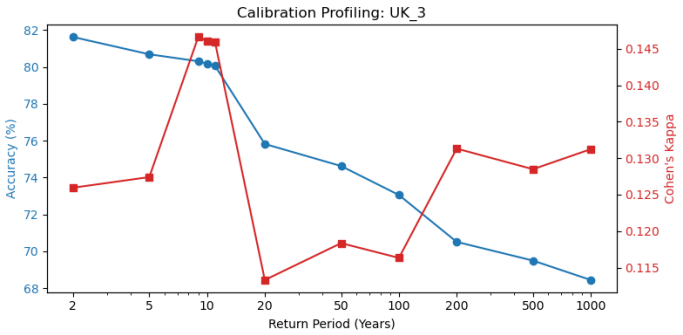
Resolution: 10m | Return Period: 9Y

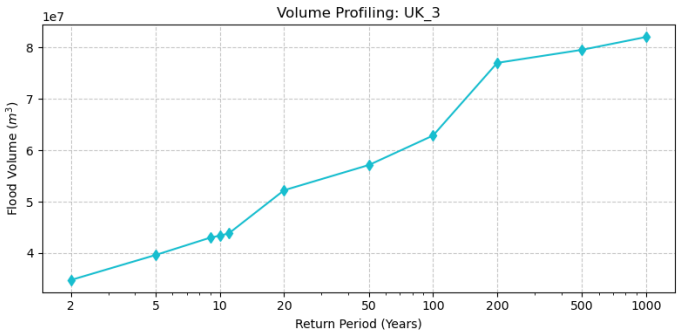




METRIC	VALUE
Kappa Score	0.1466
Accuracy	80.3%
Peak Discharge	1981.05 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	14.94	28.04	+13.10
% of Total	9.1%	17.1%	+8.0%
Total Bounds Area	164.08 km2		



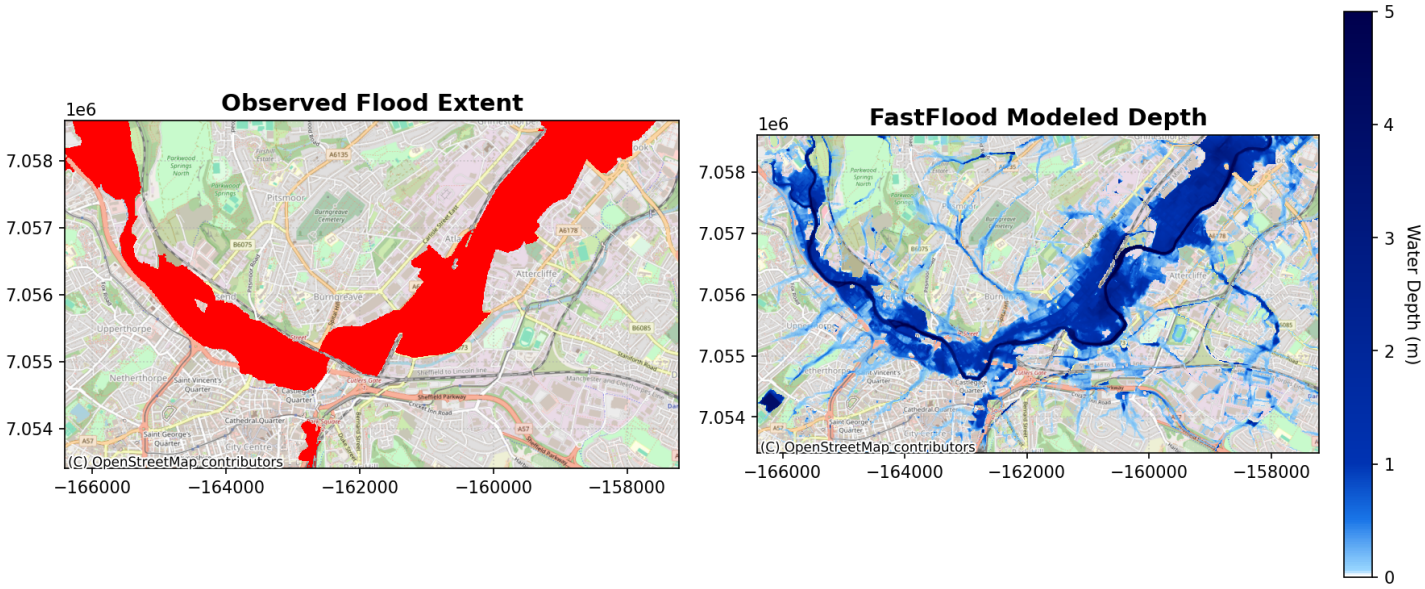



```
> fastflood.exe -key <key> -sim -autohazard -0.089384058 51.544236517 0.036446971 51.478793135 flashfloodfluvialflood 9 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United Kingdom National Historic Flood Extents

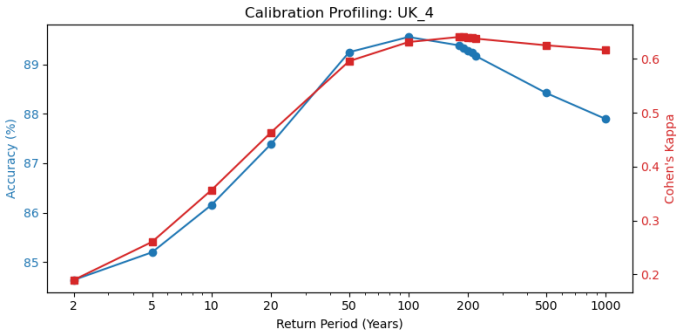
United Kingdom - Sheffield

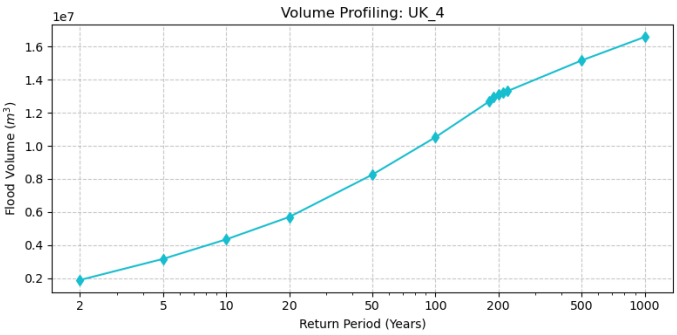
Resolution: 10m | Return Period: 180Y



METRIC	VALUE
Kappa Score	0.6404
Accuracy	89.4%
Peak Discharge	481.53 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	8.32	8.87	+0.55
% of Total	17.4%	18.6%	+1.2%
Total Bounds Area	47.78 km2		



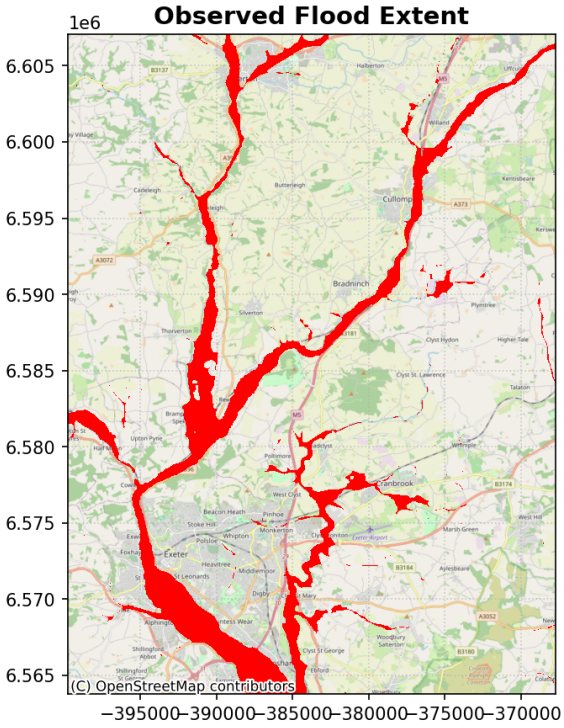


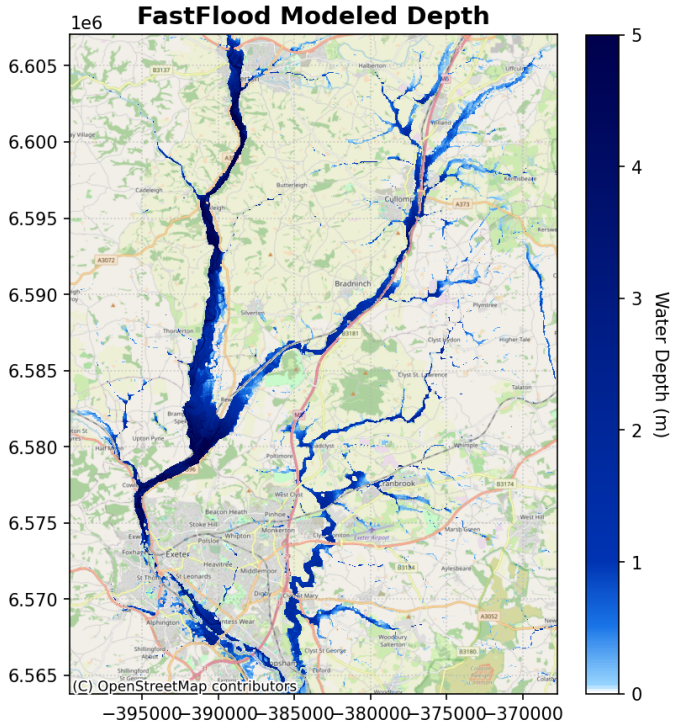

```
> fastflood.exe -key <key> -sim -autohazard -1.494894659 53.40680607 -1.412367222 53.37898765 flashfloodfluvialflood 180 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United Kingdom National Historic Flood Extents

United Kingdom - Devon

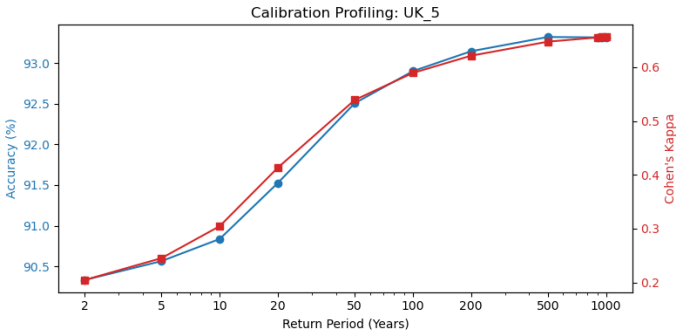
Resolution: 10m | Return Period: 1000Y

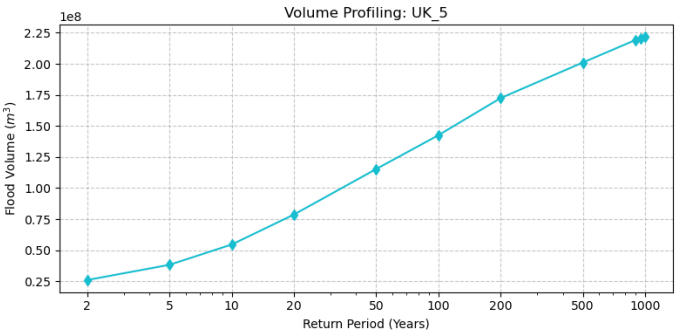




METRIC	VALUE
Kappa Score	0.6563
Accuracy	93.3%
Peak Discharge	1054.56 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	152.30	150.26	-2.05
% of Total	11.0%	10.8%	-0.1%
Total Bounds Area	1385.17 km2		



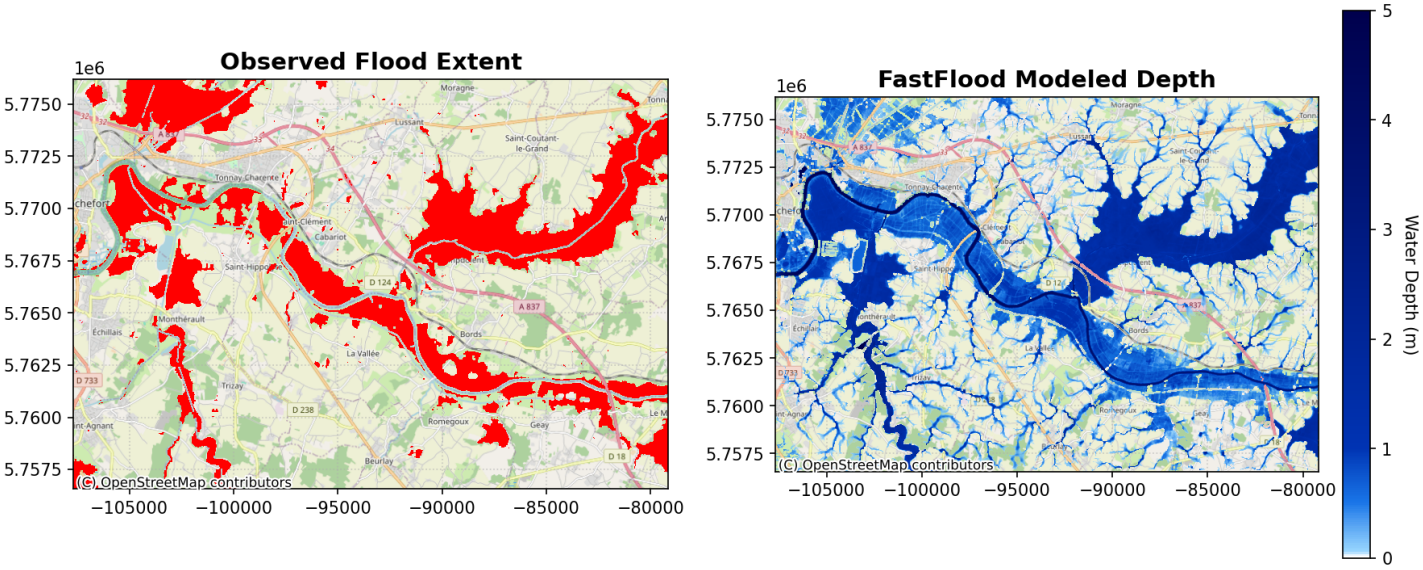



```
> fastflood.exe -key <key> -sim -autohazard -3.590853981 50.919482199 -3.303555399 50.673614565 flashfloodfluvialflood 1000
10m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United Kingdom National Historic Flood Extents

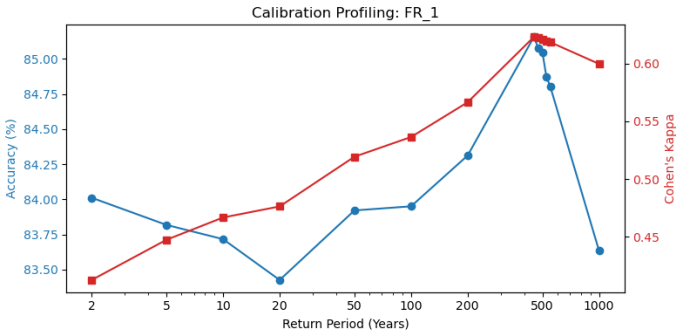
France - Charente-Maritime (2023)

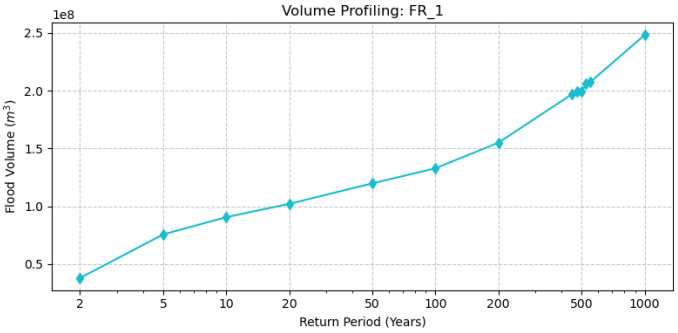
Resolution: 10m | Return Period: 450Y



METRIC	VALUE
Kappa Score	0.6233
Accuracy	85.2%
Peak Discharge	5426.54 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	122.19	174.27	+52.08
% of Total	21.9%	31.2%	+9.3%
Total Bounds Area	558.99 km2		



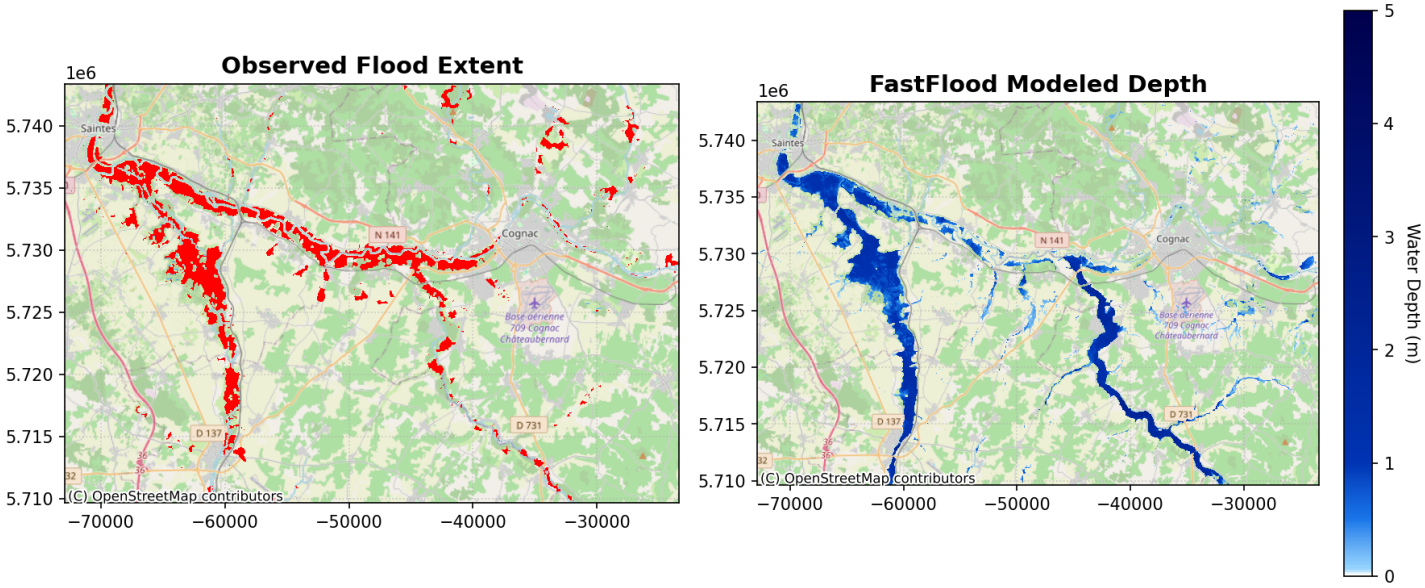



```
> fastflood.exe -key <key> -sim -autohazard -0.967302579 45.973922016 -0.711129129 45.851372932 flashfloodfluvialflood 450 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

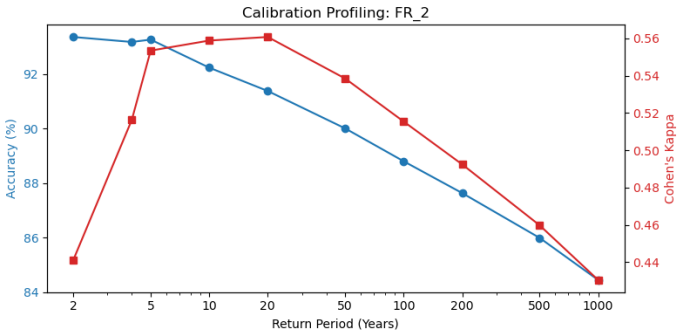
France - Gironde (2023)

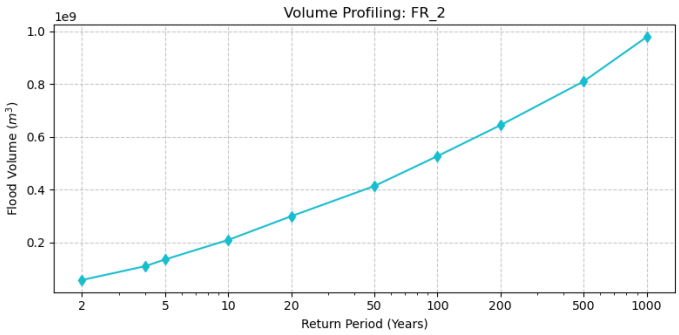
Resolution: 10m | Return Period: 5Y



METRIC	VALUE
Kappa Score	0.5534
Accuracy	93.3%
Peak Discharge	1144.41 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	136.64	137.70	+1.05
% of Total	8.2%	8.2%	+0.1%
Total Bounds Area	1671.53 km2		



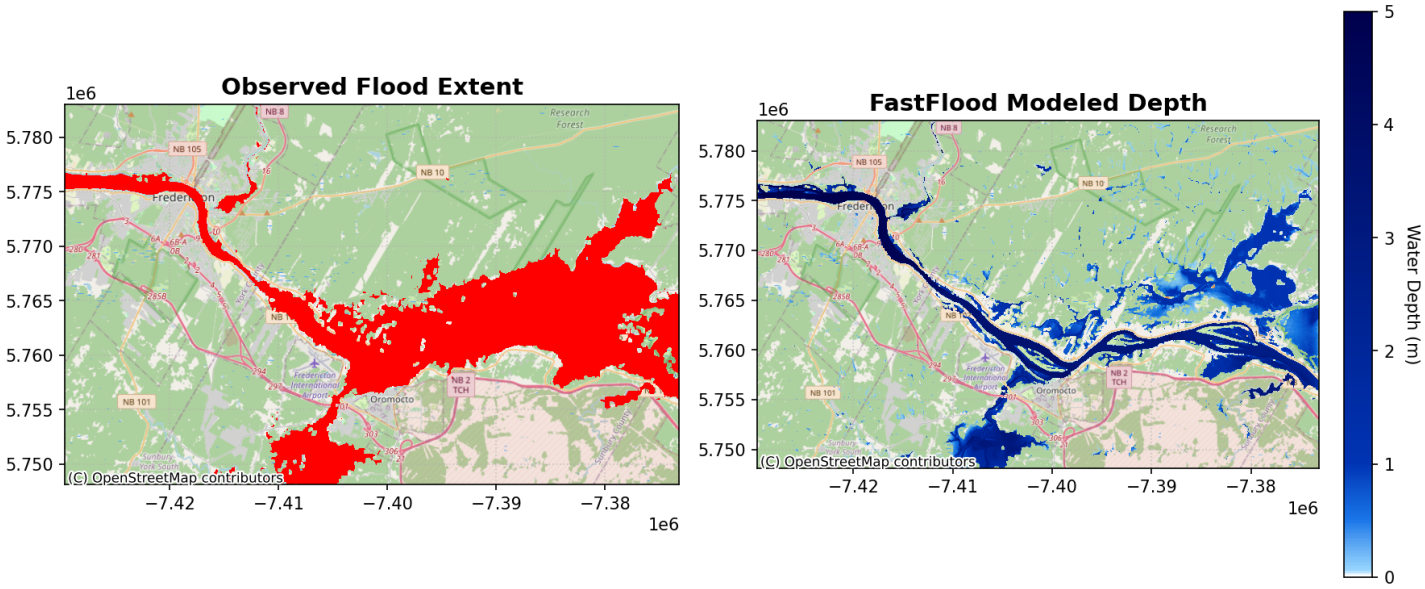



```
> fastflood.exe -key <key> -sim -autohazard -0.654798929 45.76891762 -0.209823115 45.557039082 flashfloodfluvialflood 5 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

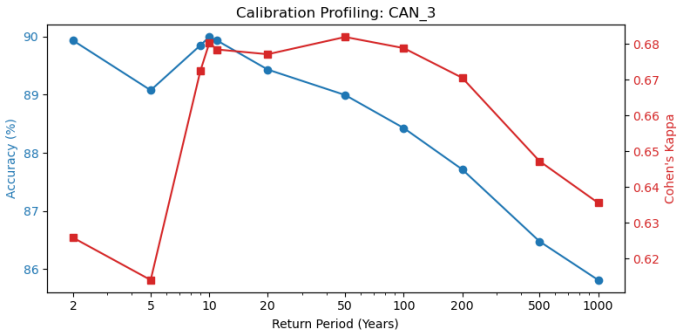
Canada - St. John River, NB (2019)

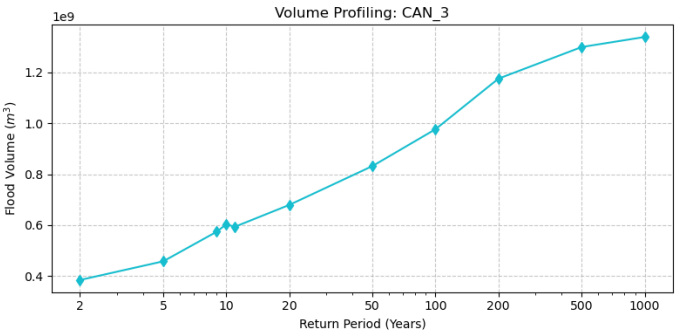
Resolution: 10m | Return Period: 10Y



METRIC	VALUE
Kappa Score	0.6802
Accuracy	90.0%
Peak Discharge	12913.55 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	401.55	363.15	-38.40
% of Total	20.4%	18.4%	-1.9%
Total Bounds Area	1970.36 km2		



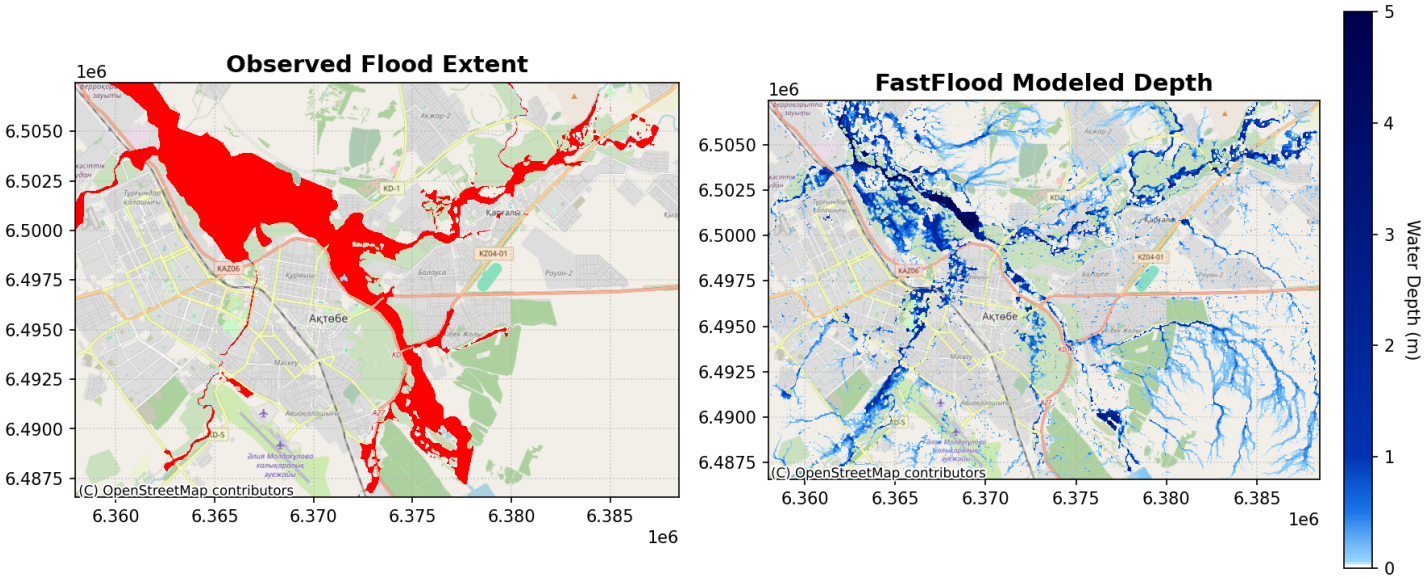



```
> fastflood.exe -key <key> -sim -autohazard -66.741599309 46.016838586 -66.234384087 45.798723101 flashfloodfluvialflood 10
10m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Canada National Historic Flood Inventory

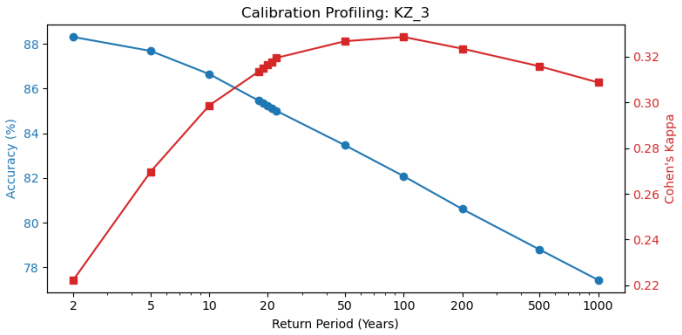
Kazakhstan - Aktobe (2024)

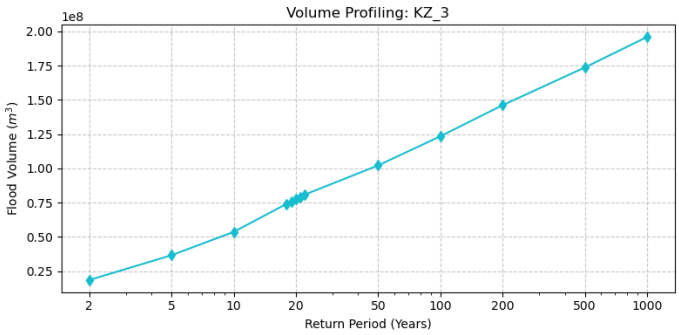
Resolution: 20m | Return Period: 22Y



METRIC	VALUE
Kappa Score	0.3194
Accuracy	85.0%
Peak Discharge	2143.43 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	81.77	78.86	-2.91
% of Total	12.8%	12.4%	-0.5%
Total Bounds Area	637.98 km2		



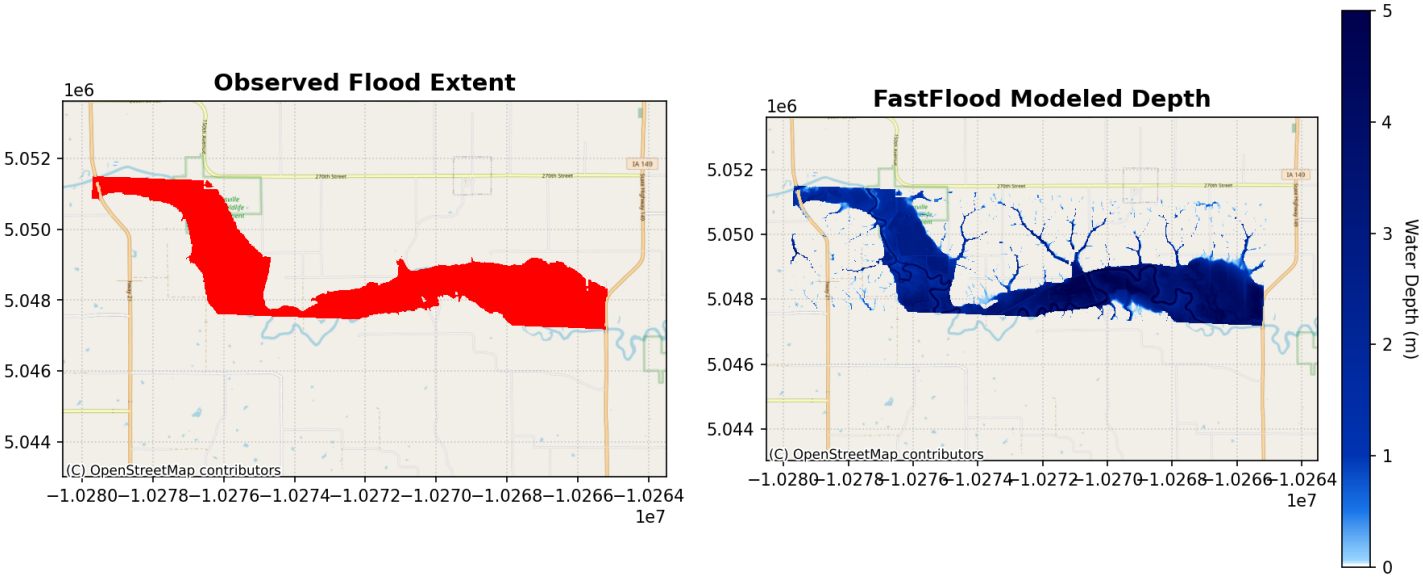



```
> fastflood.exe -key <key> -sim -autohazard 57.11461894 50.352002558 57.388704771 50.232029855 flashfloodfluvialflood 22 20m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Custom Satellite Analysis

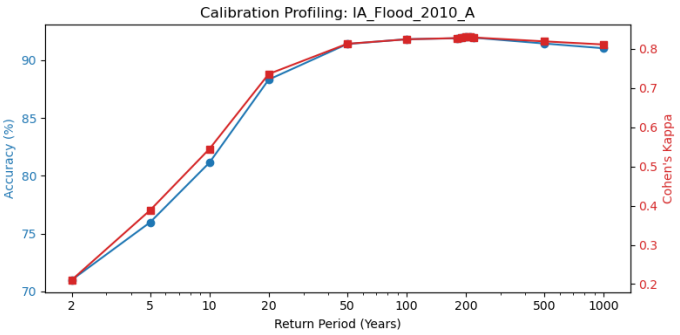
USA - Iowa (2010)

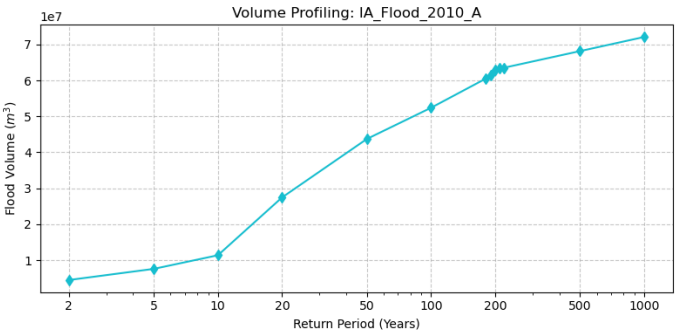
Resolution: 10m | Return Period: 210Y



METRIC	VALUE
Kappa Score	0.8305
Accuracy	92.0%
Peak Discharge	4619.50 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	18.78	22.93	+4.15
% of Total	33.7%	41.2%	+7.5%
Total Bounds Area	55.70 km2		



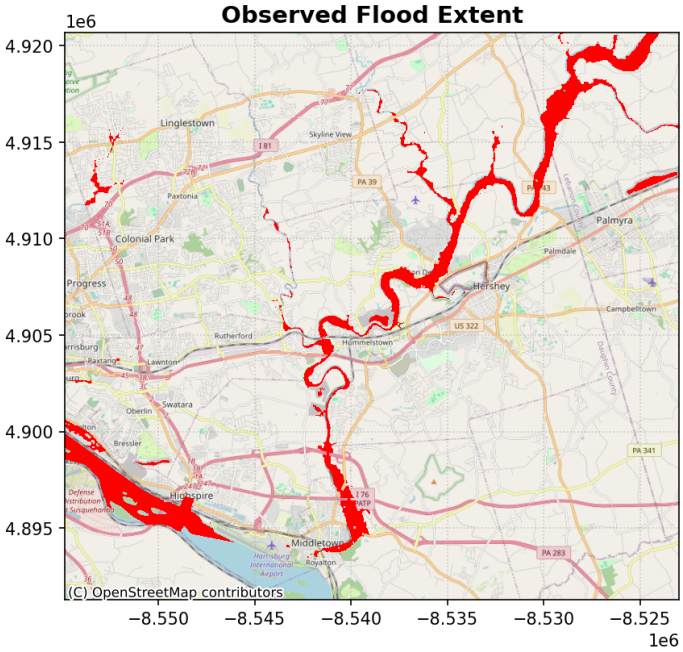


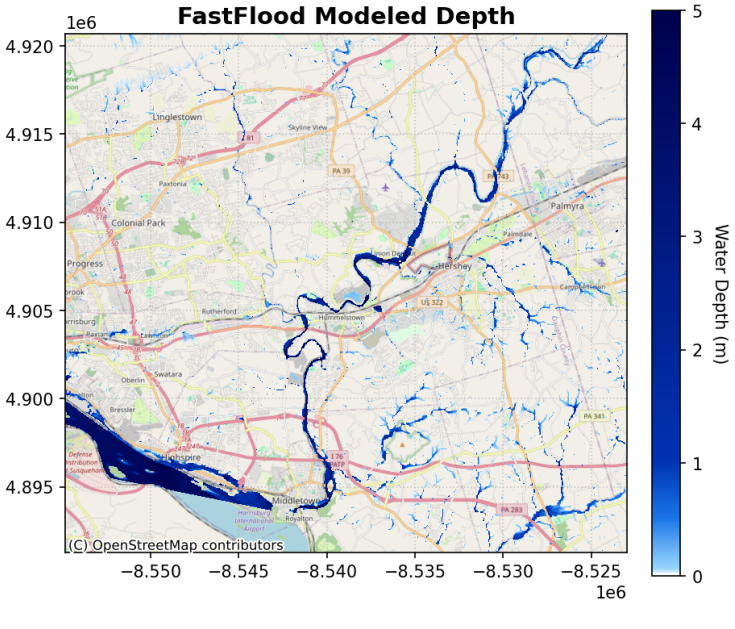

```
> fastflood.exe -key <key> -sim -autohazard -92.351644926 41.279201517 -92.198612061 41.207679508 flashfloodfluvialflood 210
10m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

USA - Tropical Storm Lee (2011)

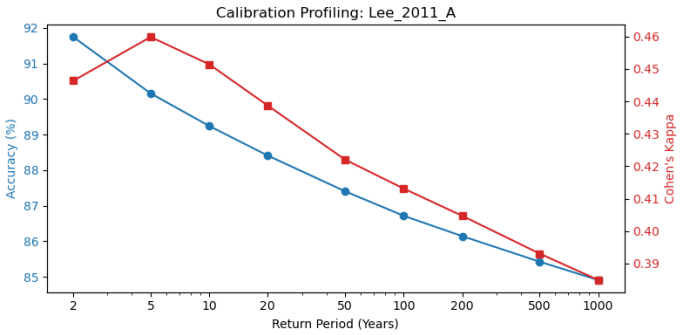
Resolution: 10m | Return Period: 2Y

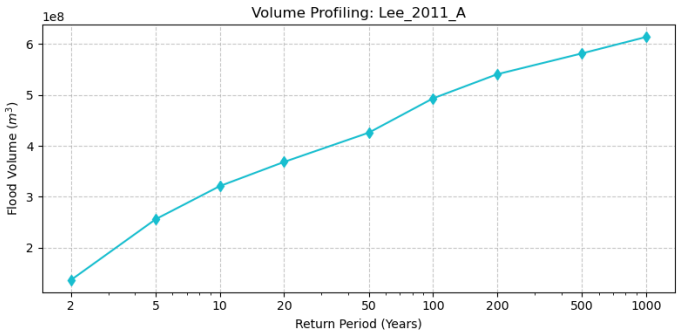




METRIC	VALUE
Kappa Score	0.4464
Accuracy	91.7%
Peak Discharge	13025.77 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	55.47	84.07	+28.60
% of Total	6.4%	9.7%	+3.3%
Total Bounds Area	863.16 km2		



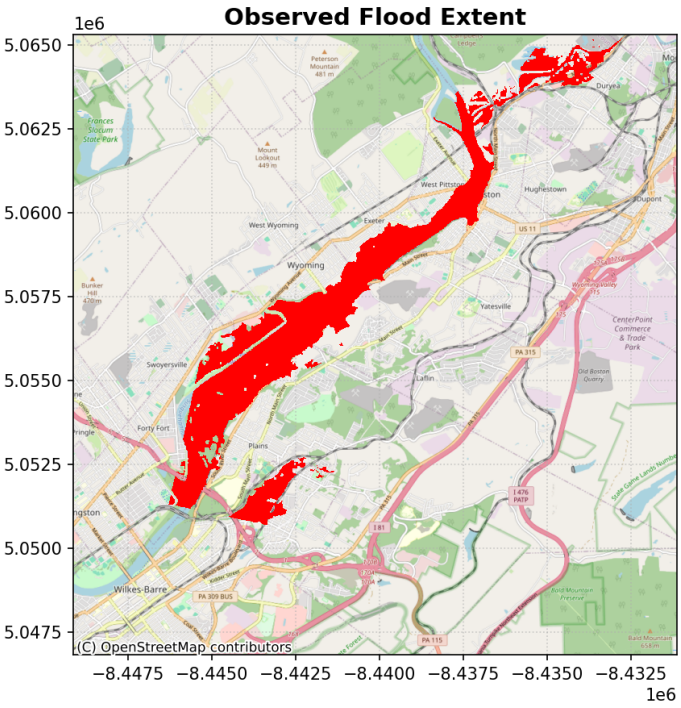


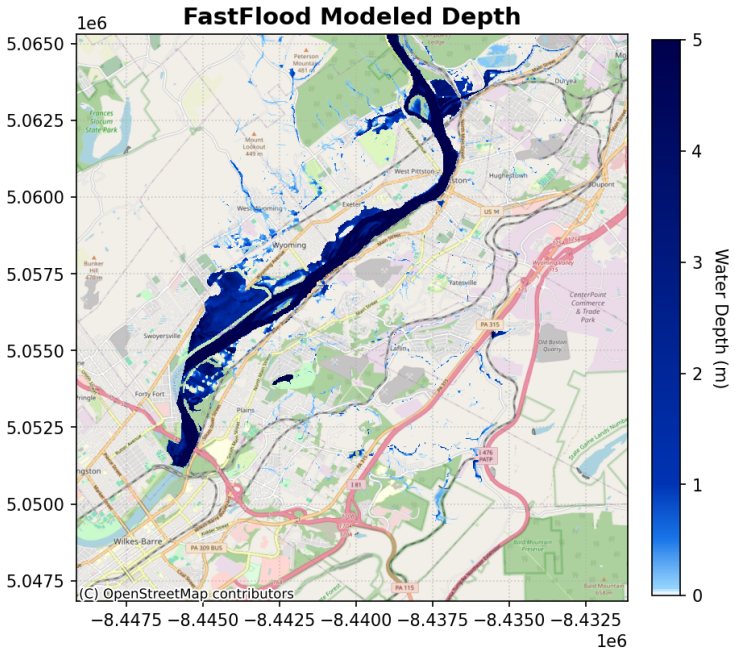

```
> fastflood.exe -key <key> -sim -autohazard -76.849432012 40.375705427 -76.563061346 40.174199702 flashfloodfluvialflood 2 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

USA - Tropical Storm Lee (2011)

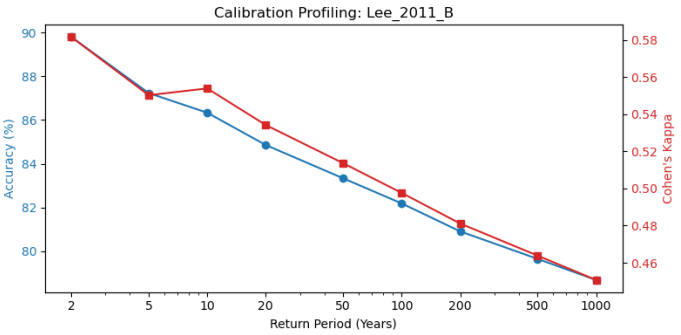
Resolution: 10m | Return Period: 2Y

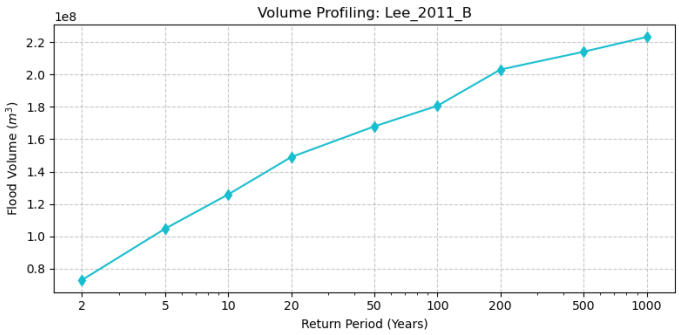




METRIC	VALUE
Kappa Score	0.5815
Accuracy	89.8%
Peak Discharge	6842.07 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	22.97	22.24	-0.73
% of Total	14.4%	14.0%	-0.5%
Total Bounds Area	159.17 km2		



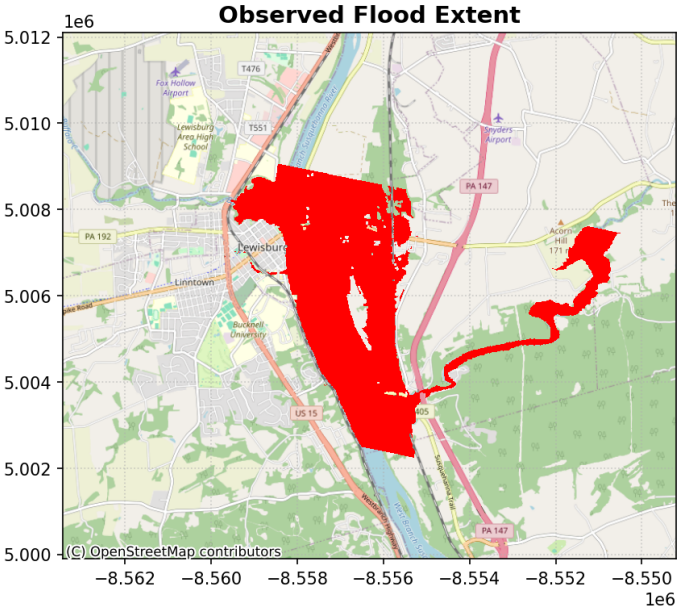


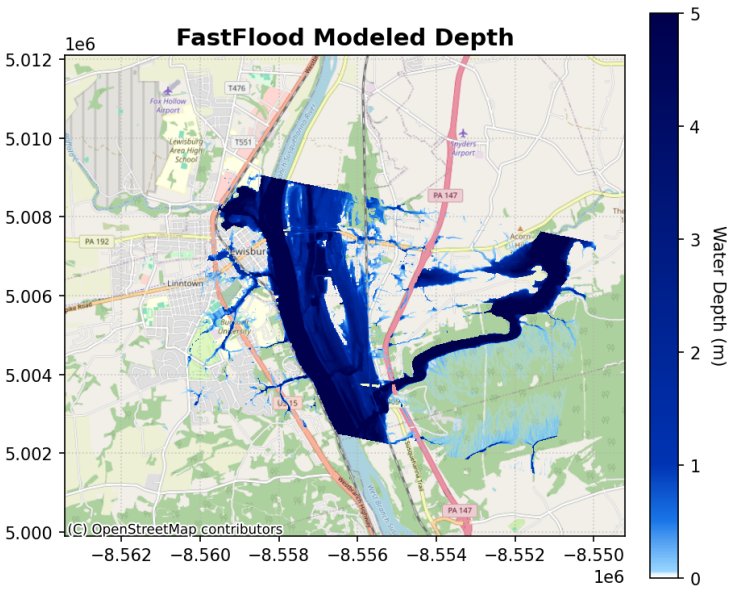

```
> fastflood.exe -key <key> -sim -autohazard -75.899830249 41.358123835 -75.738080007 41.233428663 flashfloodfluvialflood 2 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

USA - Tropical Storm Lee (2011)

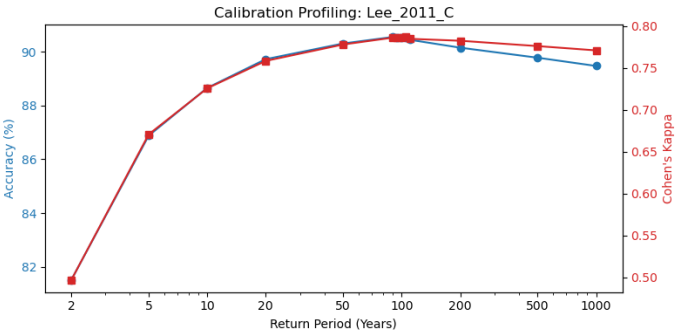
Resolution: 10m | Return Period: 105Y

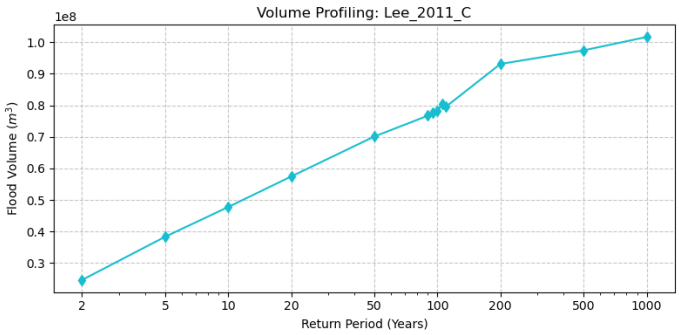




METRIC	VALUE
Kappa Score	0.7869
Accuracy	90.5%
Peak Discharge	9238.83 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	17.97	20.78	+2.81
% of Total	30.7%	35.5%	+4.8%
Total Bounds Area	58.53 km2		



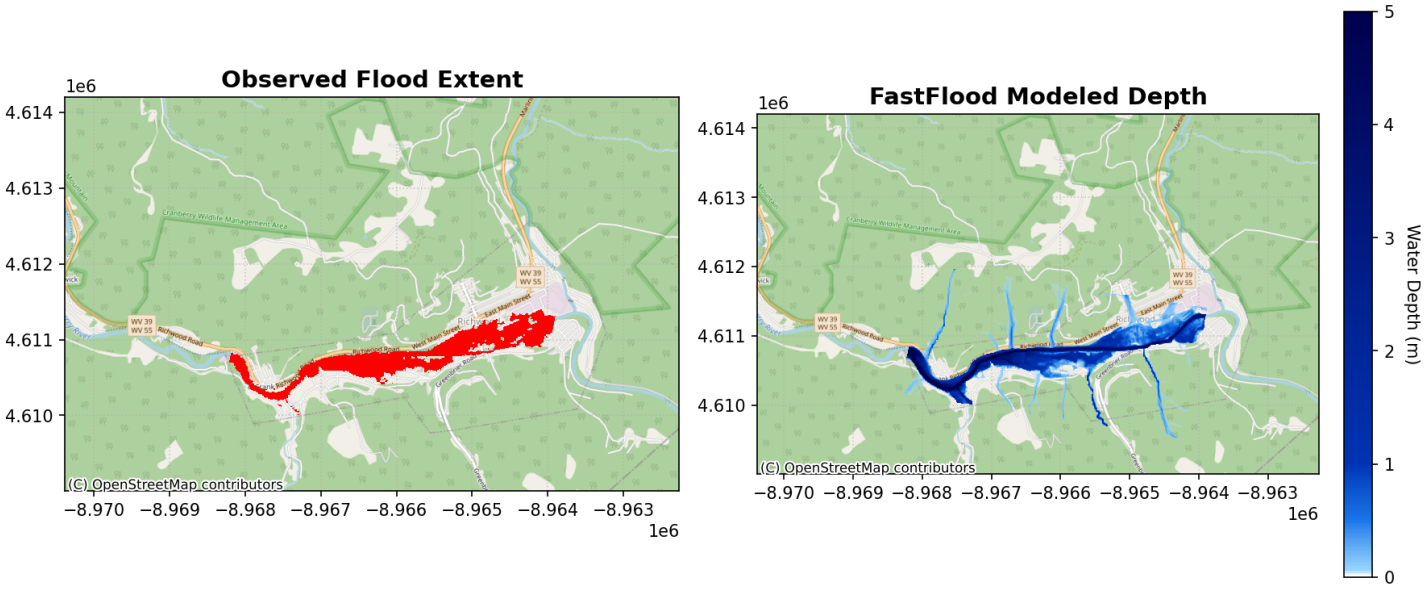



```
> fastflood.exe -key <key> -sim -autohazard -76.926701446 40.998420006 -76.798866081 40.915532066 flashfloodfluvialflood 105
10m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

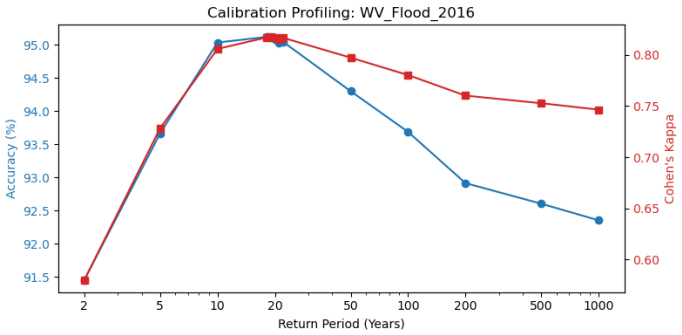
USA - West Virginia (2016)

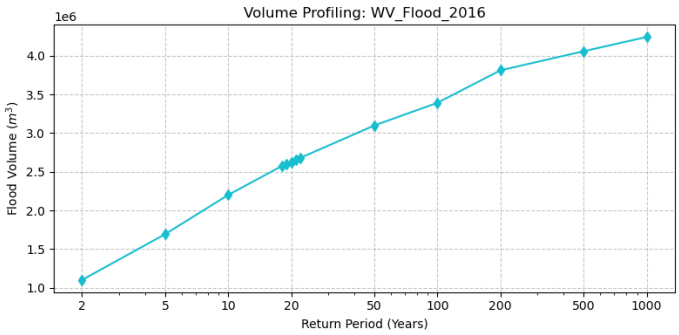
Resolution: 10m | Return Period: 19Y



METRIC	VALUE
Kappa Score	0.8175
Accuracy	95.1%
Peak Discharge	540.22 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	1.20	1.38	+0.19
% of Total	14.8%	17.1%	+2.3%
Total Bounds Area	8.09 km2		



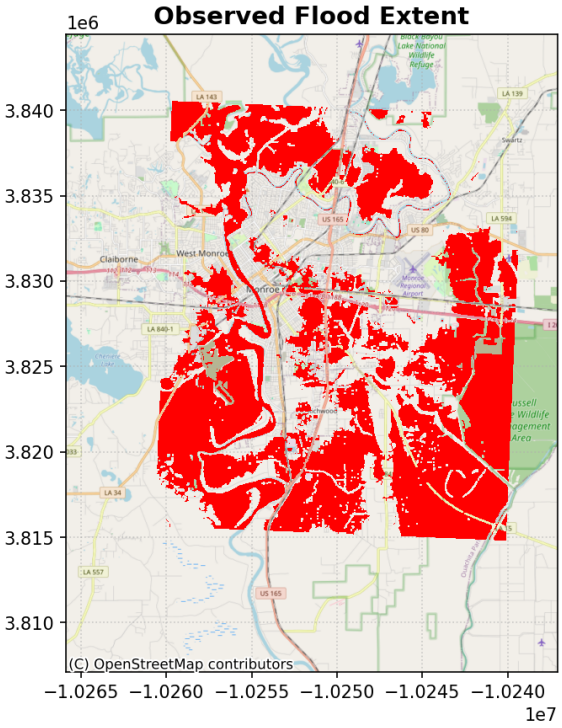


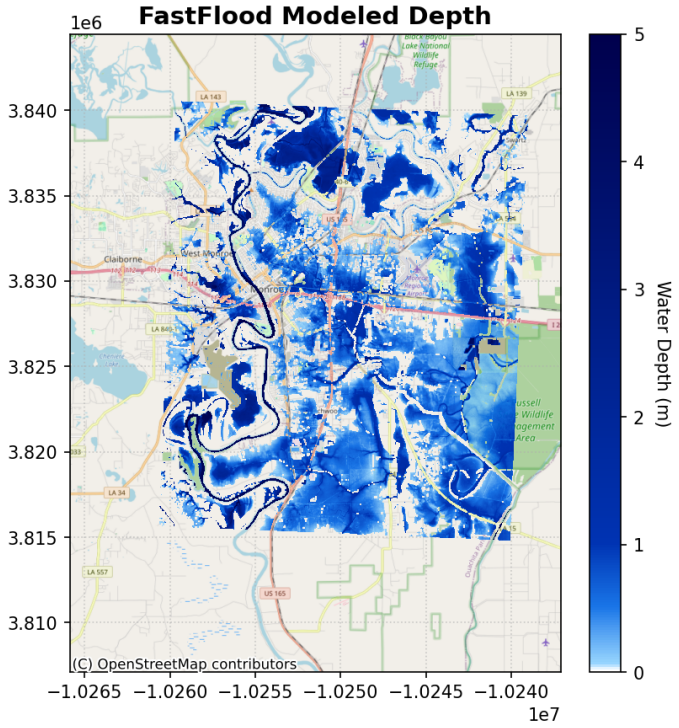

```
> fastflood.exe -key <key> -sim -autohazard -80.582318653 38.245734045 -80.509390393 38.208998708 flashfloodfluvialflood 19
10m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

USA - Louisiana (2016)

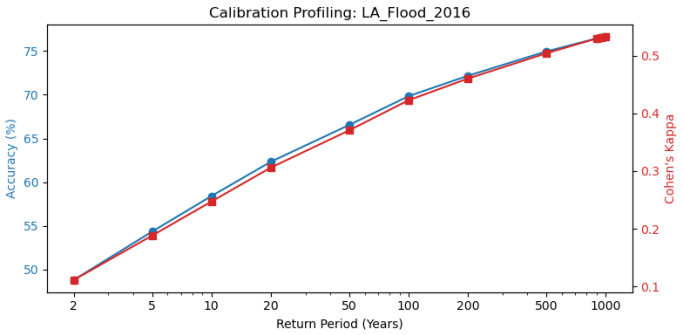
Resolution: 10m | Return Period: 1000Y

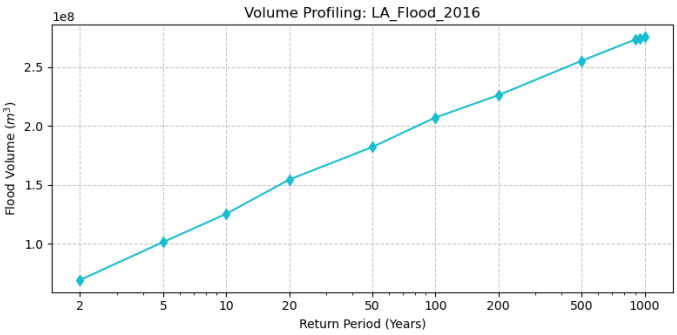




METRIC	VALUE
Kappa Score	0.5321
Accuracy	76.6%
Peak Discharge	9566.36 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	306.80	258.06	-48.75
% of Total	59.4%	50.0%	-9.4%
Total Bounds Area	516.60 km2		



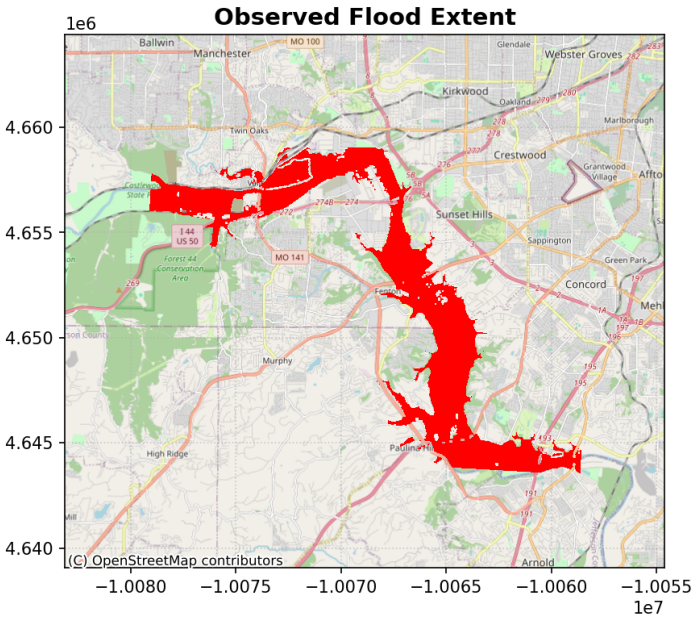


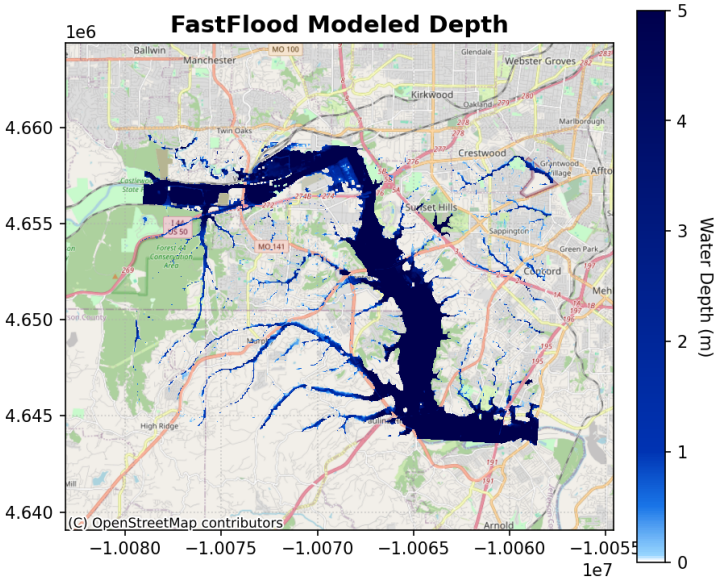

```
> fastflood.exe -key <key> -sim -autohazard -92.219903288 32.61599564 -91.961459482 32.333084018 flashfloodfluvialflood 1000
10m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

USA - Missouri (2015)

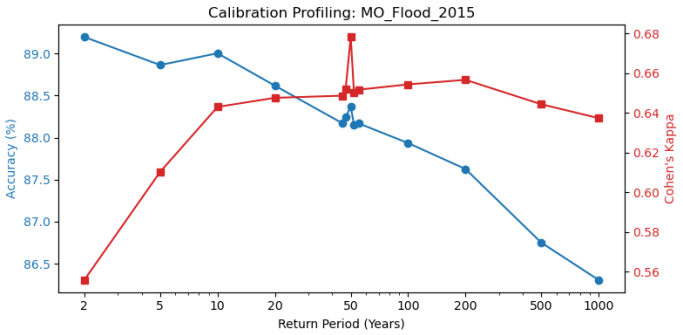
Resolution: 10m | Return Period: 50Y

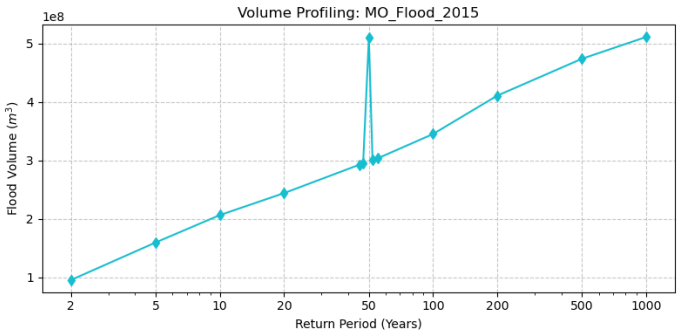




METRIC	VALUE
Kappa Score	0.6782
Accuracy	88.4%
Peak Discharge	7483.77 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	56.76	91.32	+34.56
% of Total	17.7%	28.5%	+10.8%
Total Bounds Area	320.00 km2		



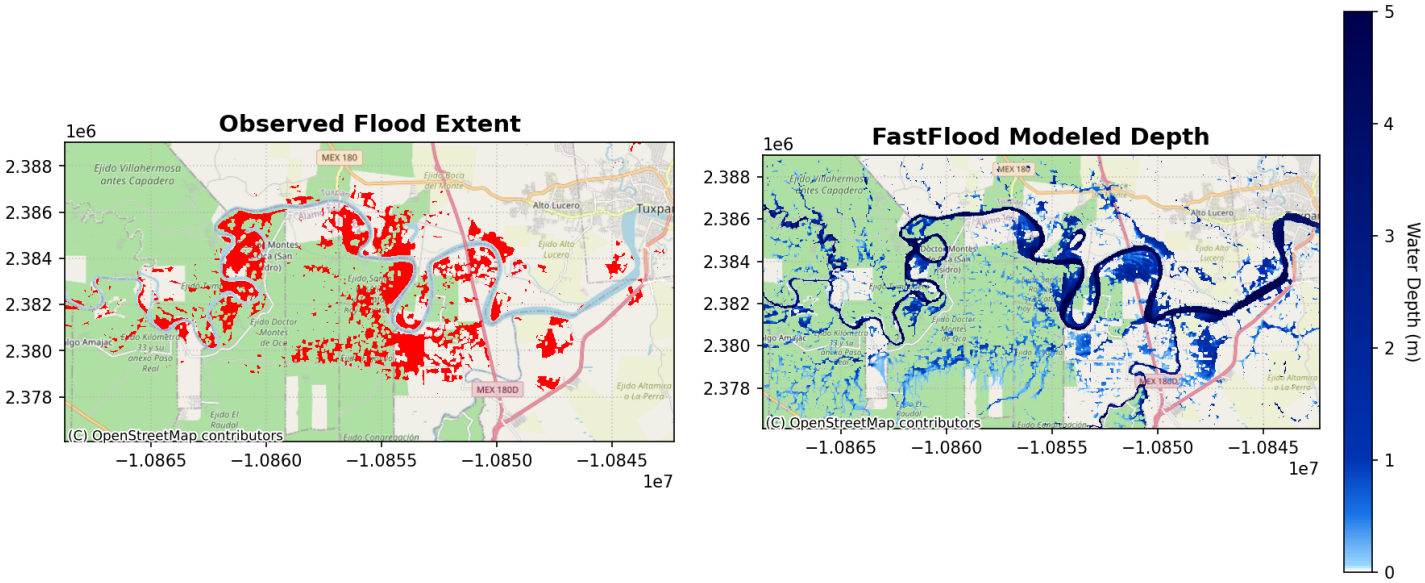



```
> fastflood.exe -key <key> -sim -autohazard -90.578208599 38.598974898 -90.322165764 38.420970216 flashfloodfluvialflood 50
10m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

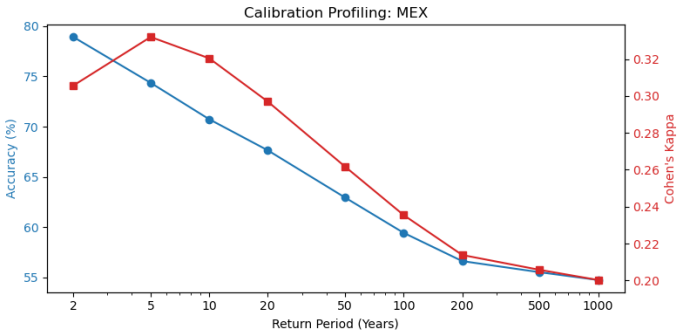
Mexico - Veracruz (2023)

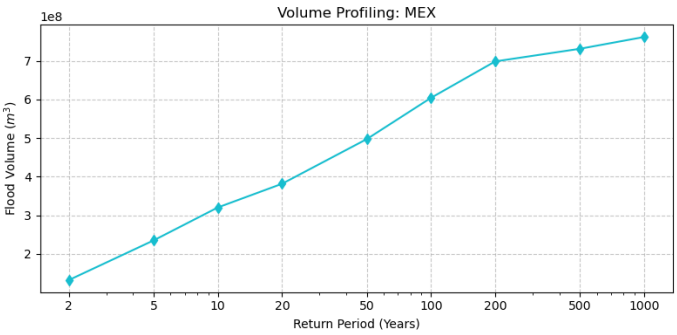
Resolution: 10m | Return Period: 2Y



METRIC	VALUE
Kappa Score	0.3056
Accuracy	78.9%
Peak Discharge	4692.56 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	48.95	76.95	+27.99
% of Total	14.3%	22.5%	+8.2%
Total Bounds Area	342.41 km2		



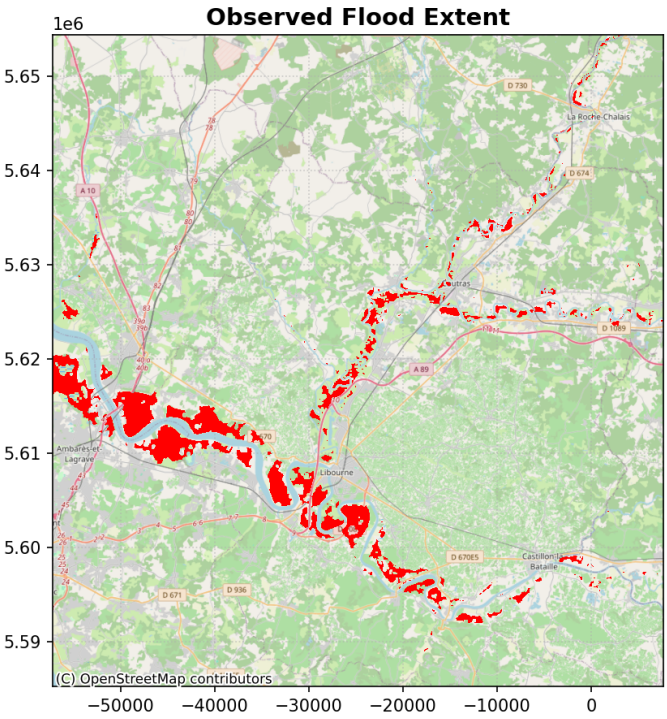


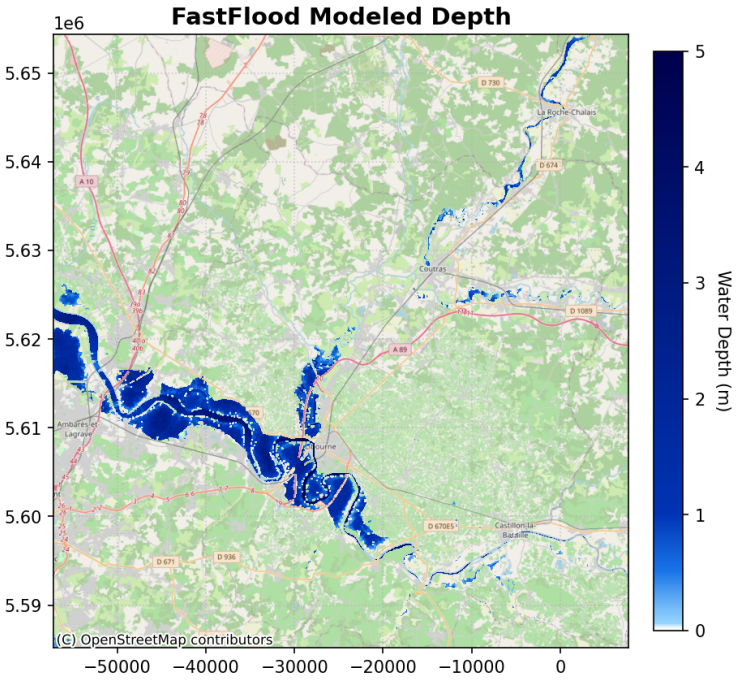

```
> fastflood.exe -key <key> -sim -autohazard -97.635339739 20.976188425 -97.398218365 20.867316137 flashfloodfluvialflood 2 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

France - Gironde (2023)

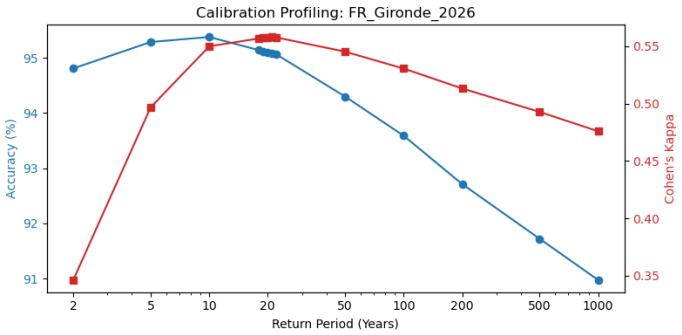
Resolution: 10m | Return Period: 21Y

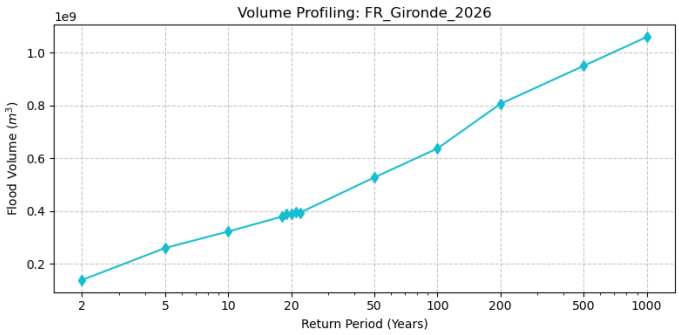




METRIC	VALUE
Kappa Score	0.5582
Accuracy	95.1%
Peak Discharge	11079.95 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	238.80	292.55	+53.76
% of Total	5.3%	6.5%	+1.2%
Total Bounds Area	4489.31 km2		



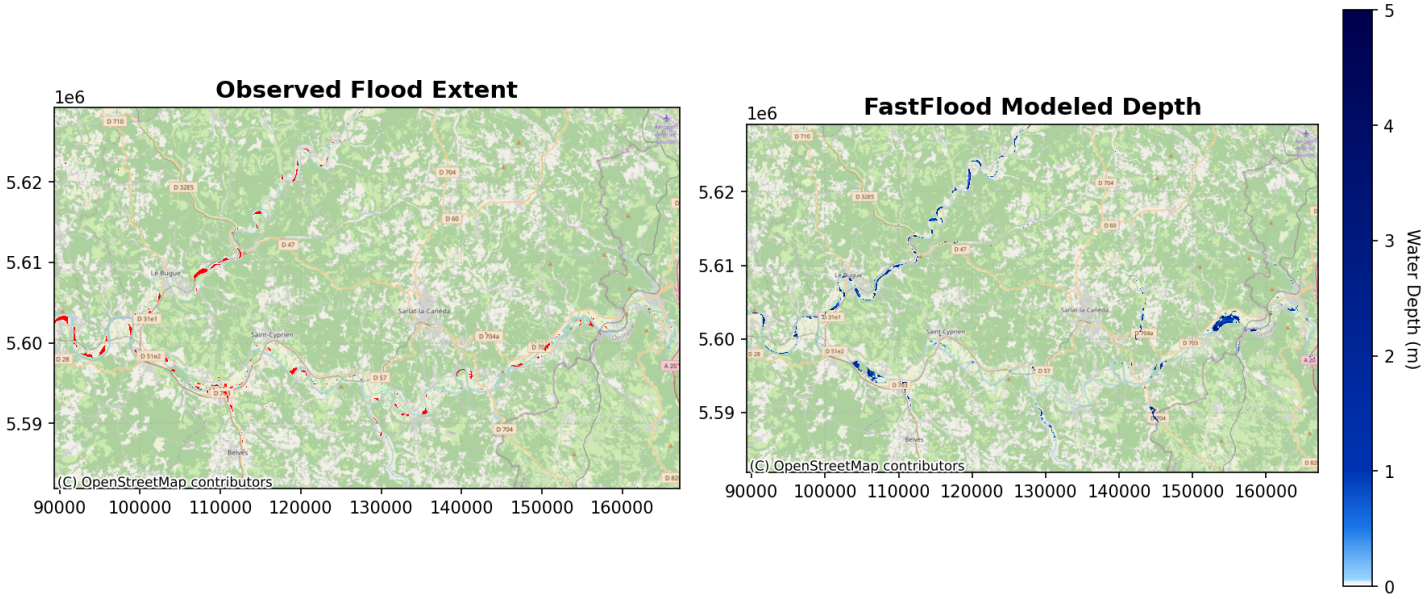



```
> fastflood.exe -key <key> -sim -autohazard -0.514078378 45.208293332 0.069309975 44.769049201 flashfloodfluvialflood 21 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

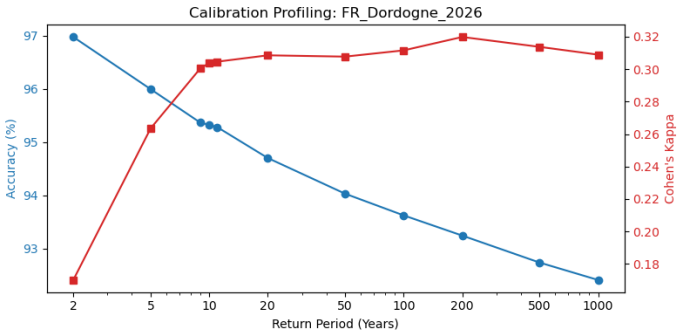
France - Dordogne (2023)

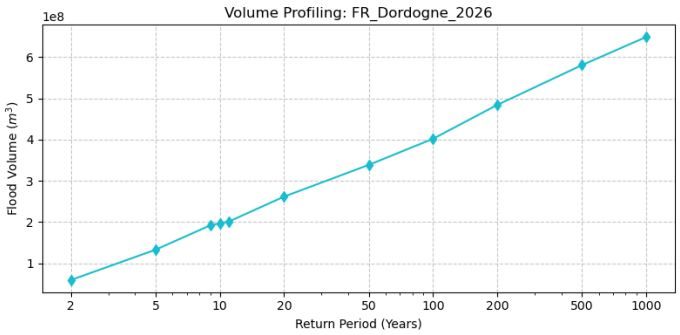
Resolution: 10m | Return Period: 11Y



METRIC	VALUE
Kappa Score	0.3046
Accuracy	95.3%
Peak Discharge	6672.35 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	90.99	166.78	+75.79
% of Total	2.5%	4.5%	+2.1%
Total Bounds Area	3678.39 km2		



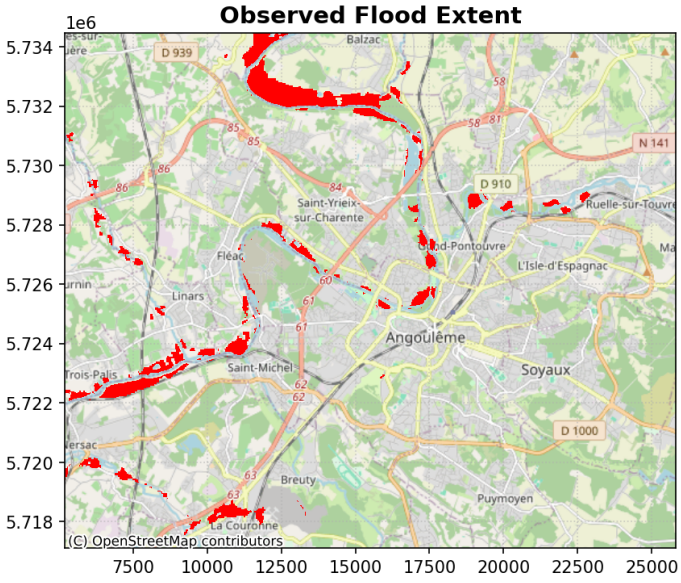


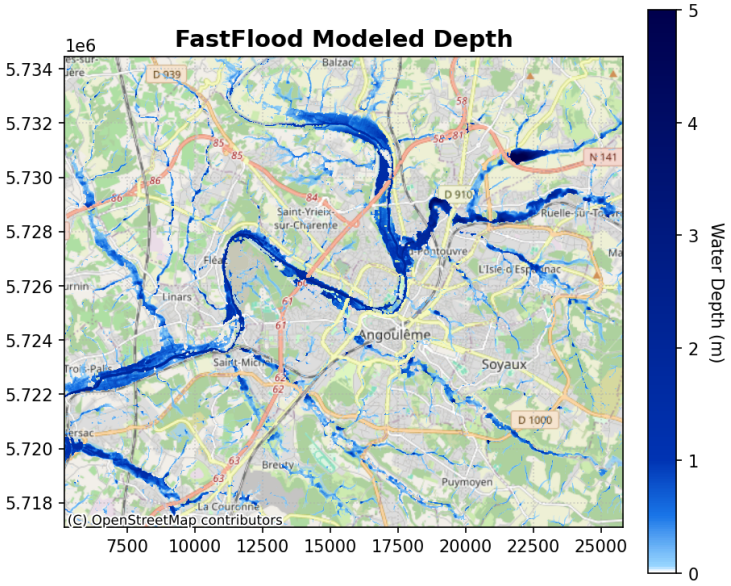

```
> fastflood.exe -key <key> -sim -autohazard 0.802460284 45.048703392 1.501192076 44.747701234 flashfloodfluvialflood 11 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

France - Charente (2023)

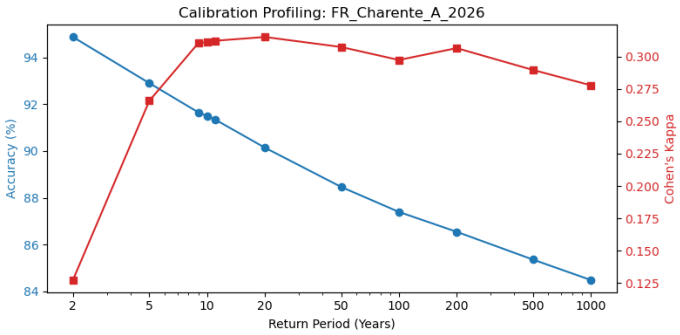
Resolution: 10m | Return Period: 9Y

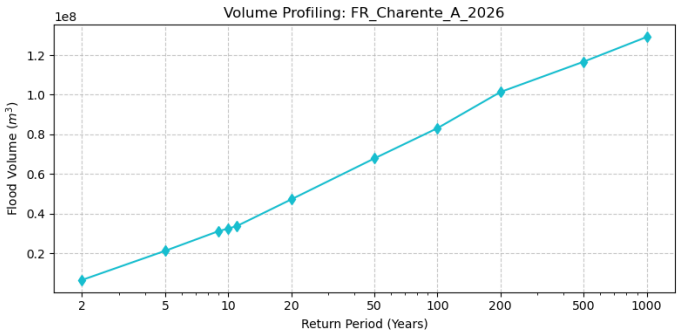




METRIC	VALUE
Kappa Score	0.3103
Accuracy	91.7%
Peak Discharge	1016.71 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	14.32	31.51	+17.19
% of Total	4.0%	8.8%	+4.8%
Total Bounds Area	357.76 km2		



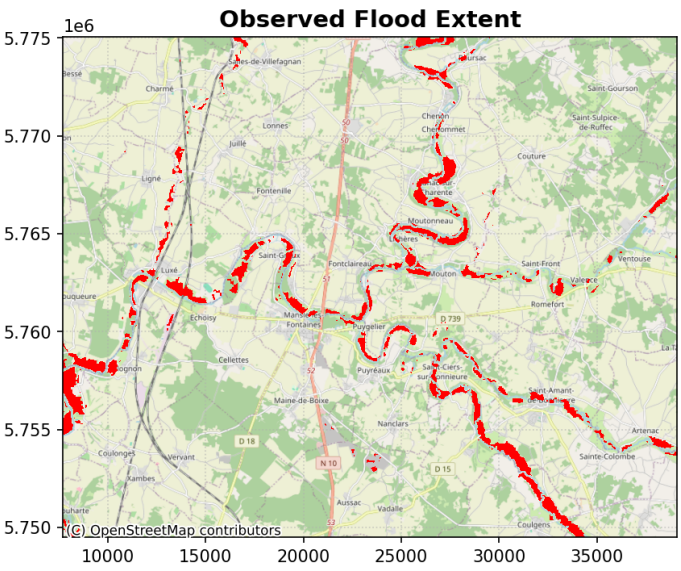


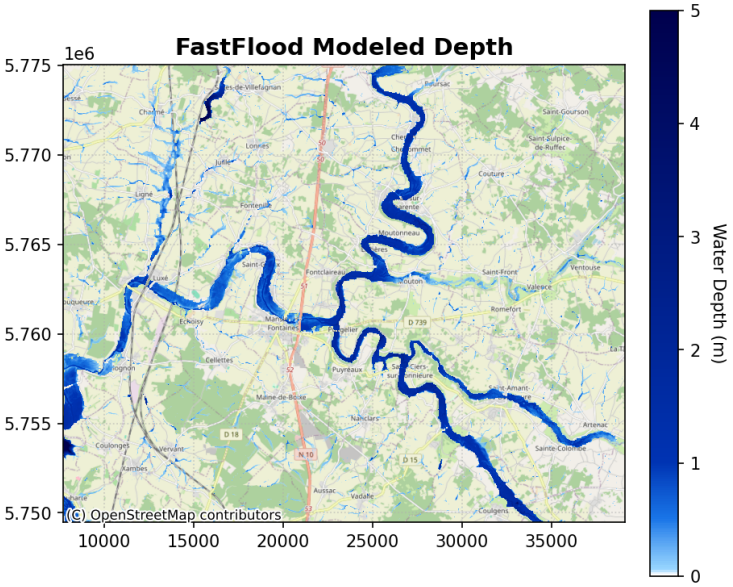

```
> fastflood.exe -key <key> -sim -autohazard 0.04673807 45.712900461 0.23193259 45.603962901 flashfloodfluvialflood 9 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

France - Charente (2023)

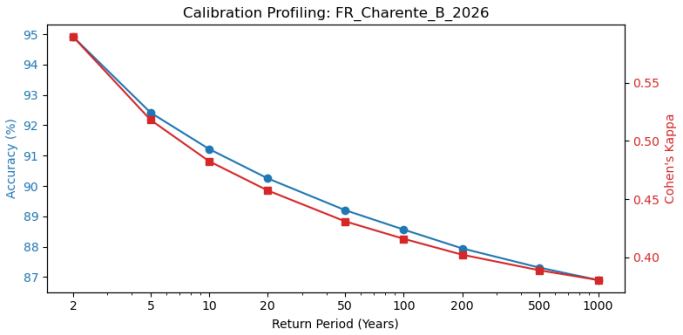
Resolution: 10m | Return Period: 2Y

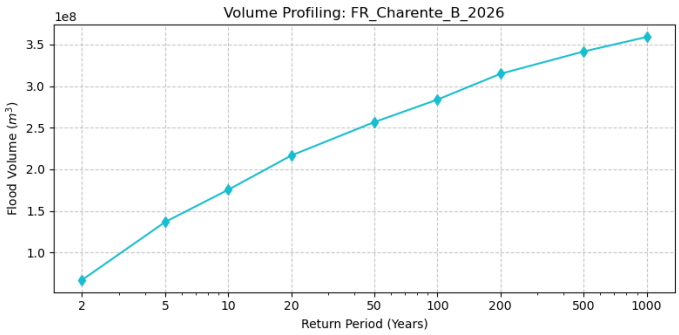




METRIC	VALUE
Kappa Score	0.5895
Accuracy	94.9%
Peak Discharge	774.11 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	41.71	64.54	+22.83
% of Total	5.2%	8.0%	+2.8%
Total Bounds Area	802.64 km2		



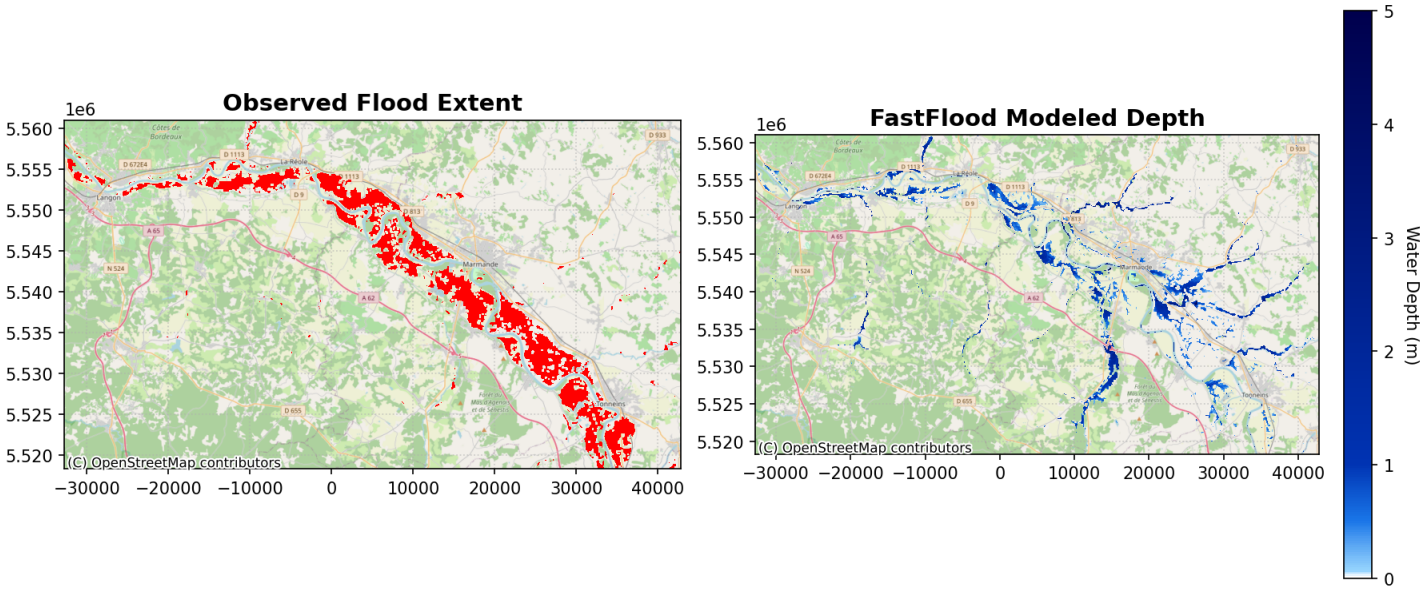



```
> fastflood.exe -key <key> -sim -autohazard 0.069212436 45.966877249 0.351342469 45.807095534 flashfloodfluvialflood 2 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

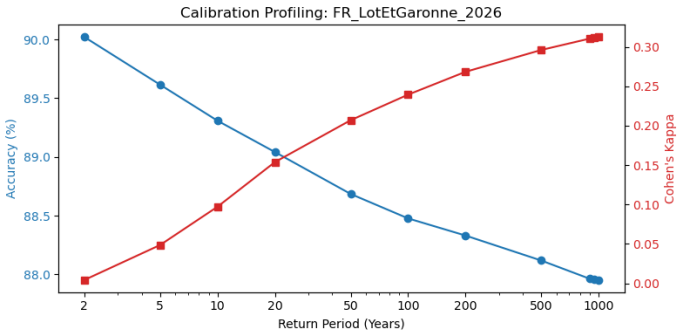
France - Lot-et-Garonne (2023)

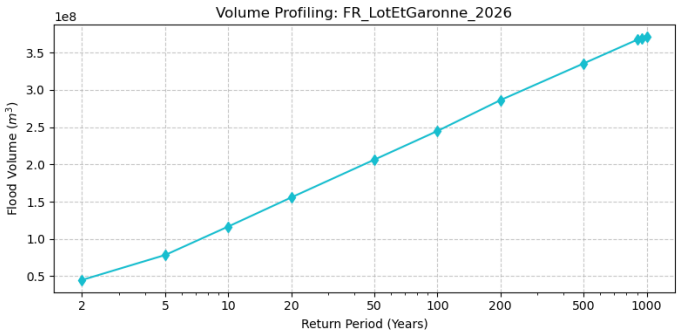
Resolution: 10m | Return Period: 1000Y



METRIC	VALUE
Kappa Score	0.3125
Accuracy	88.0%
Peak Discharge	15375.56 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	295.70	330.12	+34.42
% of Total	9.2%	10.2%	+1.1%
Total Bounds Area	3226.20 km2		



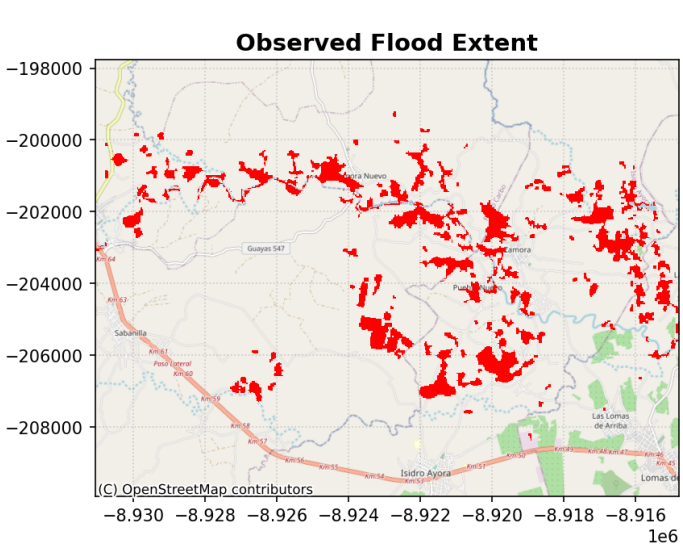


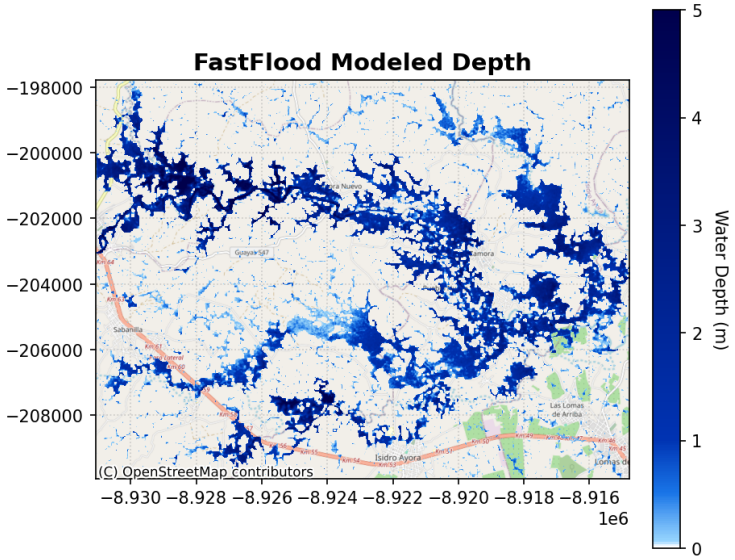

```
> fastflood.exe -key <key> -sim -autohazard -0.294274173 44.614200893 0.384256417 44.340462586 flashfloodfluvialflood 1000 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

Ecuador - Guayas (2023)

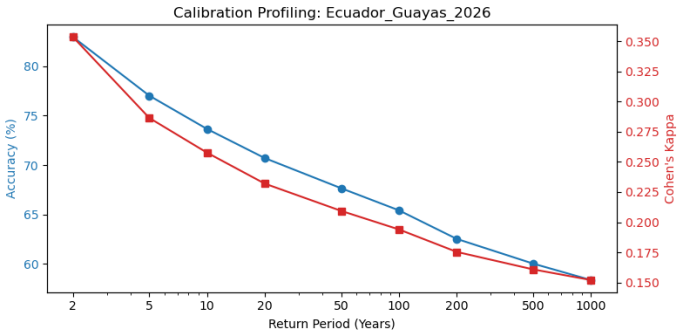
Resolution: 20m | Return Period: 2Y

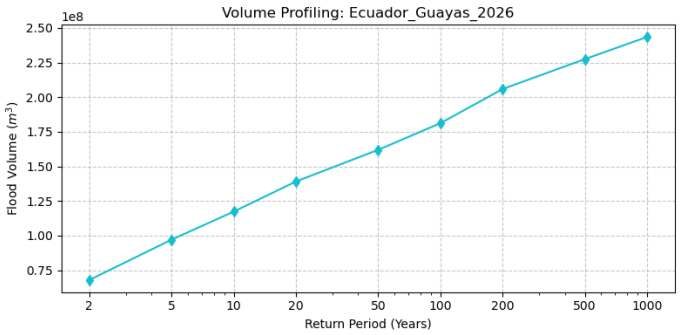




METRIC	VALUE
Kappa Score	0.3536
Accuracy	83.0%
Peak Discharge	728.26 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	15.42	43.62	+28.20
% of Total	7.8%	22.0%	+14.2%
Total Bounds Area	198.10 km2		



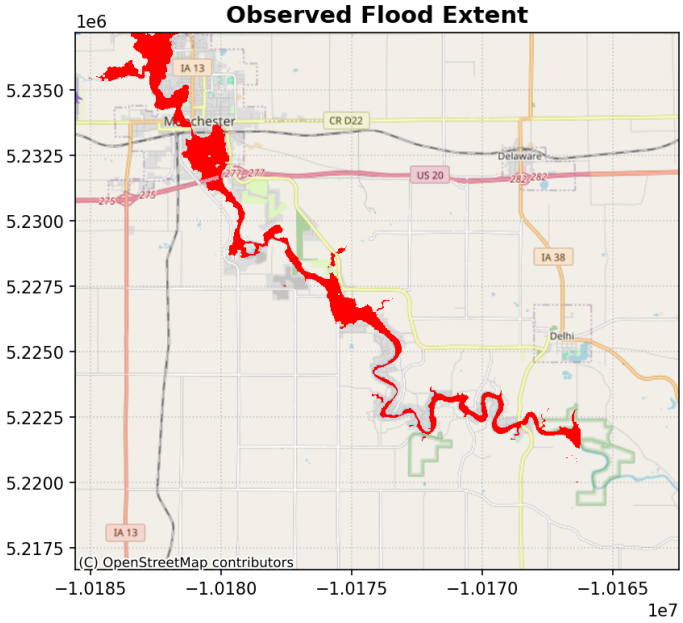


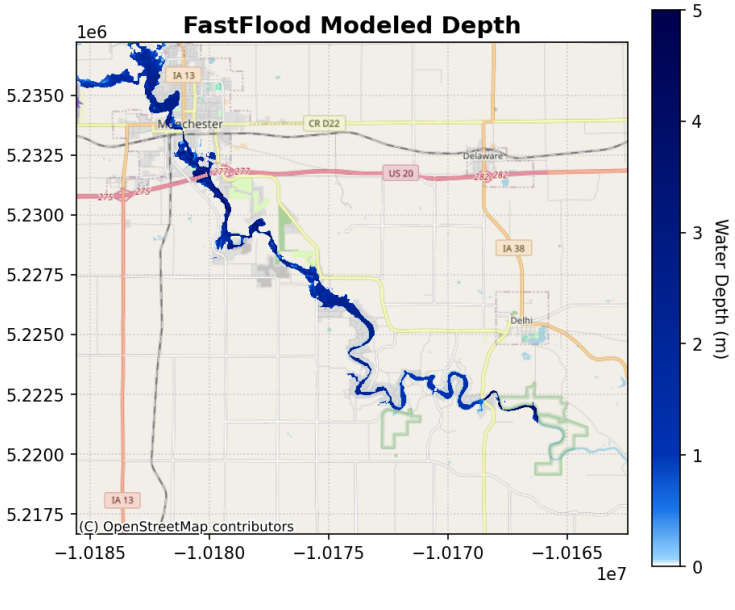

```
> fastflood.exe -key <key> -sim -autohazard -80.229224994 -1.77633713 -80.082711903 -1.885428732 flashfloodfluvialflood 2 20m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

USA - Iowa (2010)

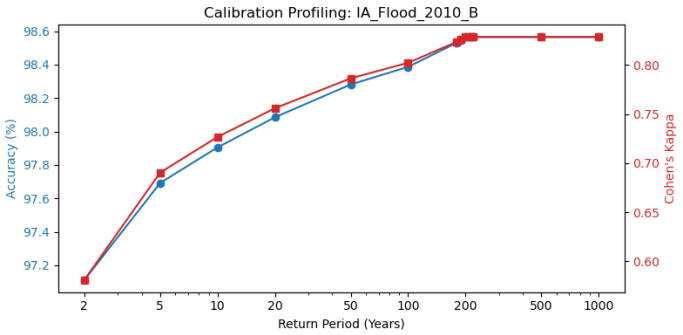
Resolution: 10m | Return Period: 200Y

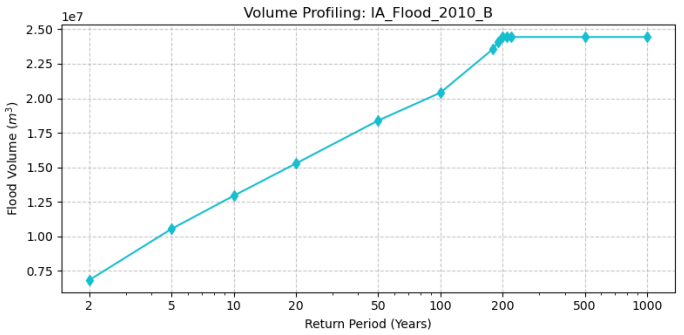




METRIC	VALUE
Kappa Score	0.8285
Accuracy	98.6%
Peak Discharge	372.13 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	18.32	13.86	-4.45
% of Total	5.0%	3.8%	-1.2%
Total Bounds Area	368.20 km2		



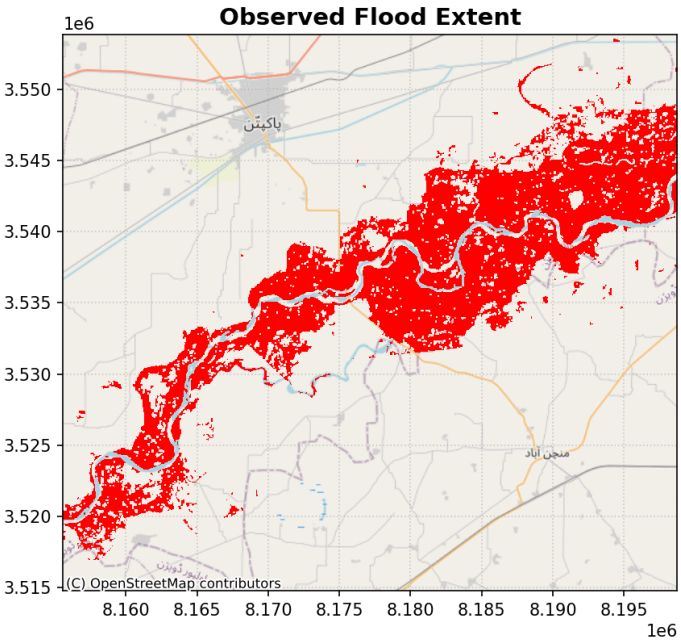


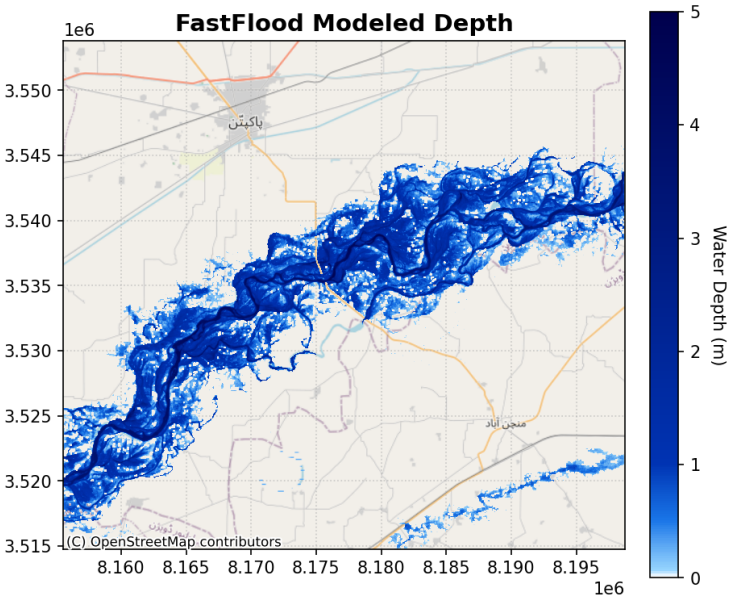

```
> fastflood.exe -key <key> -sim -autohazard -91.49855487 42.506838475 -91.290791015 42.370698497 fluvialflood 200 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: United States National Historic Flood Inventory

Pakistan - Punjab (2022)

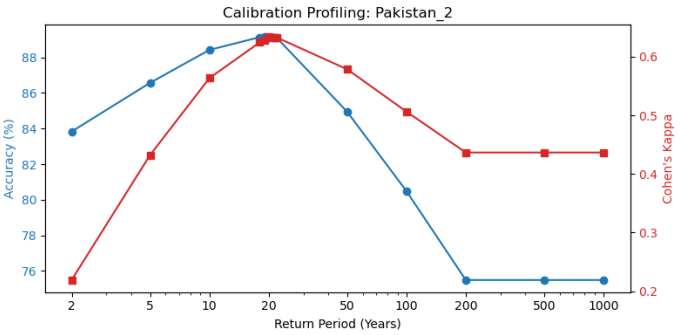
Resolution: 40m | Return Period: 20Y

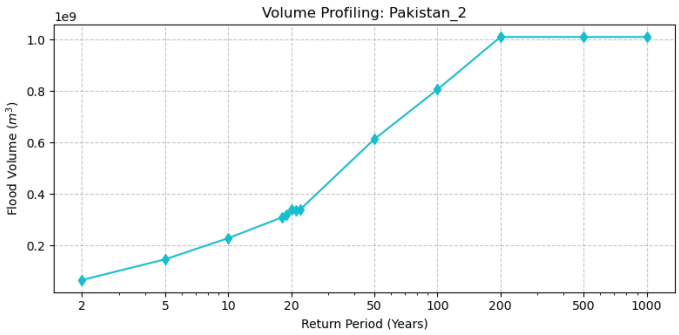




METRIC	VALUE
Kappa Score	0.6336
Accuracy	89.1%
Peak Discharge	10800.79 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	310.42	300.80	-9.62
% of Total	18.4%	17.8%	-0.6%
Total Bounds Area	1685.20 km2		



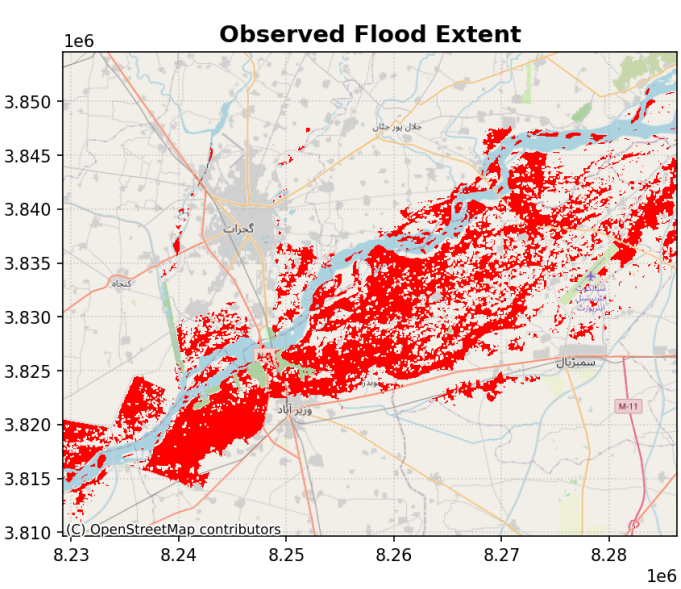


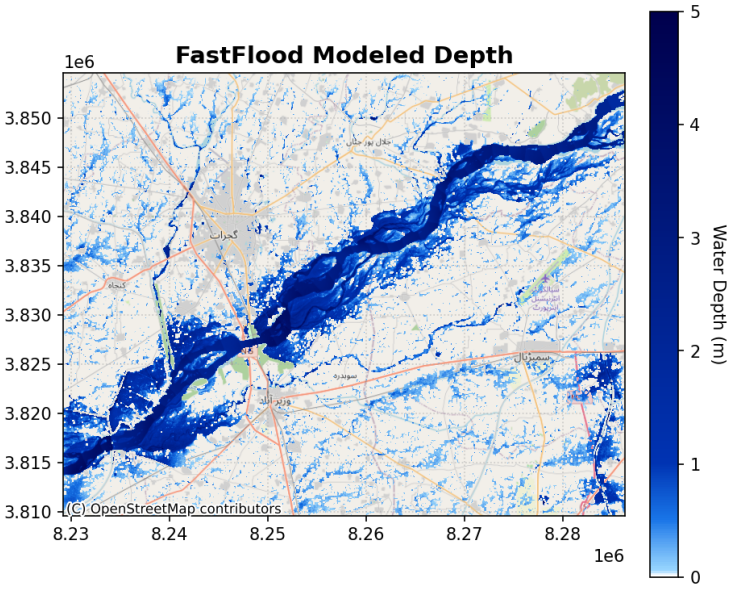

```
> fastflood.exe -key <key> -sim -autohazard 73.262700942 30.390204438 73.650520147 30.087337985 fluvialflood 20 40m -nochanwh
-whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

Pakistan - Punjab (2022)

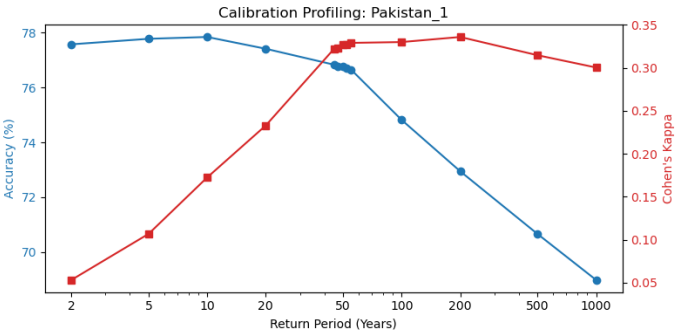
Resolution: 40m | Return Period: 55Y

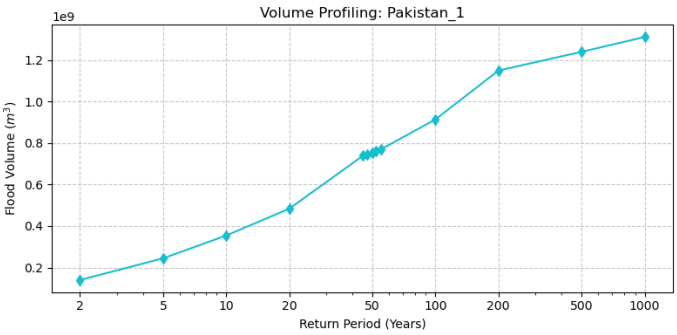




METRIC	VALUE
Kappa Score	0.3292
Accuracy	76.6%
Peak Discharge	11999.82 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	532.19	617.08	+84.89
% of Total	20.7%	24.0%	+3.3%
Total Bounds Area	2566.29 km2		



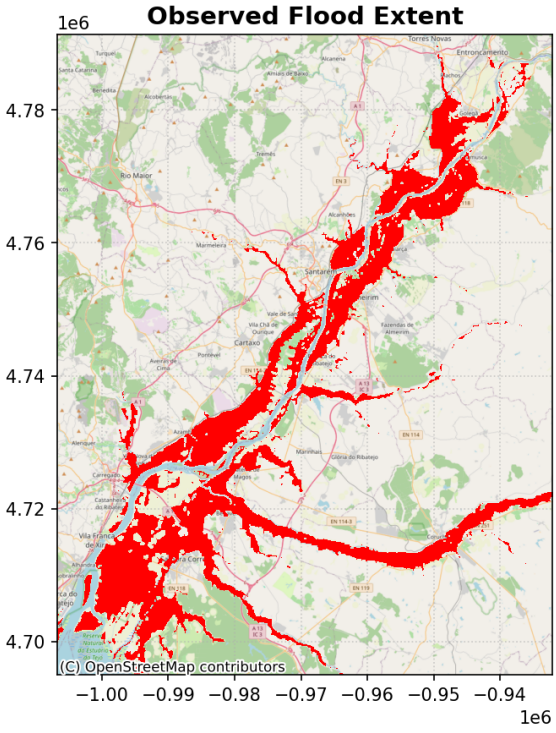


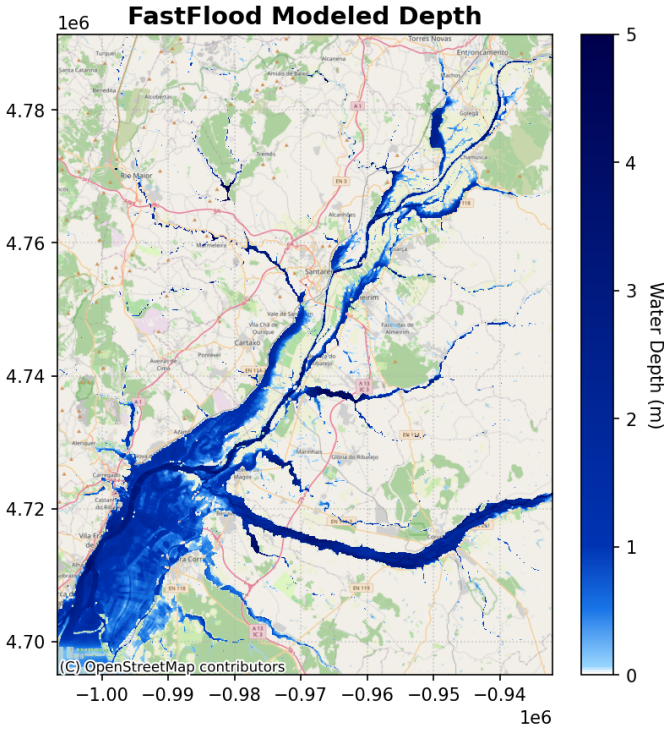

```
> fastflood.exe -key <key> -sim -autohazard 73.924484751 32.692649976 74.437337442 32.352113925 flashfloodfluvialflood 55 40m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

Portugal - Lisbon (2023)

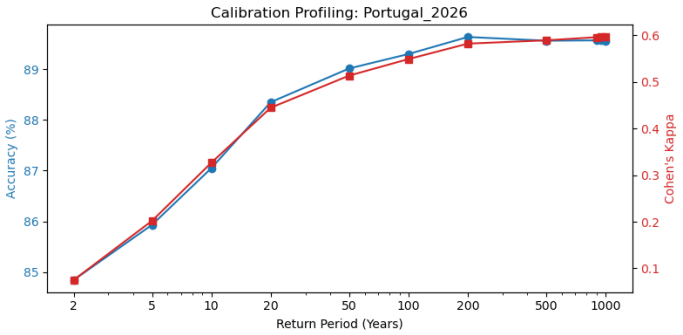
Resolution: 40m | Return Period: 1000Y

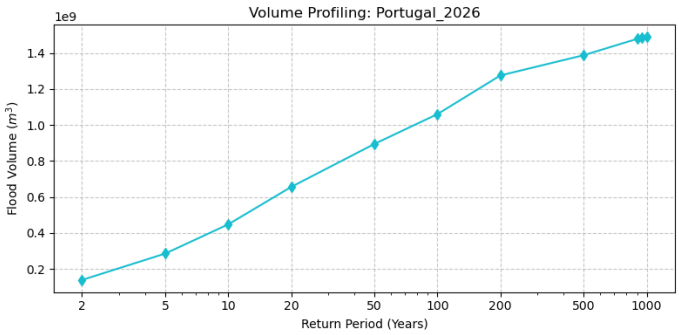




METRIC	VALUE
Kappa Score	0.5962
Accuracy	89.6%
Peak Discharge	20673.55 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	1075.81	1120.42	+44.61
% of Total	14.9%	15.6%	+0.6%
Total Bounds Area	7200.94 km2		



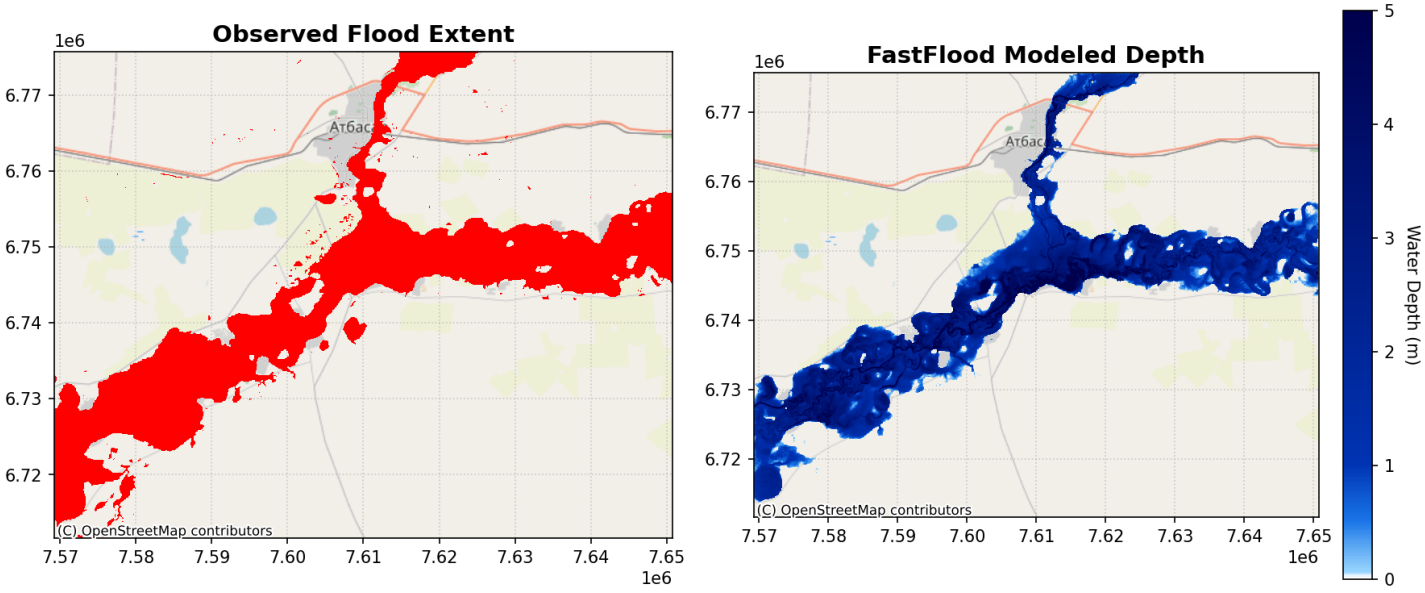



```
> fastflood.exe -key <key> -sim -autohazard -9.043793553 39.485036588 -8.373095069 38.813210749 flashfloodfluvialflood 1000
40m -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Custom Satellite Analysis

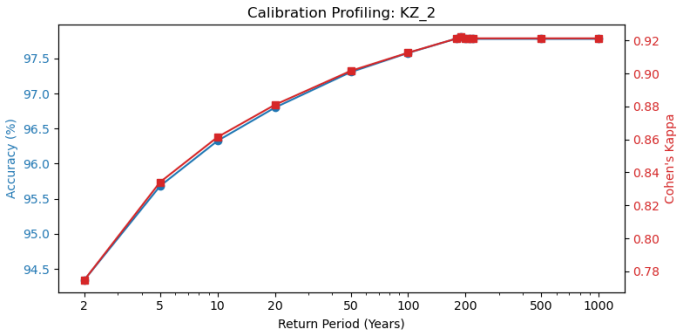
Kazakhstan - Ishim River (2024)

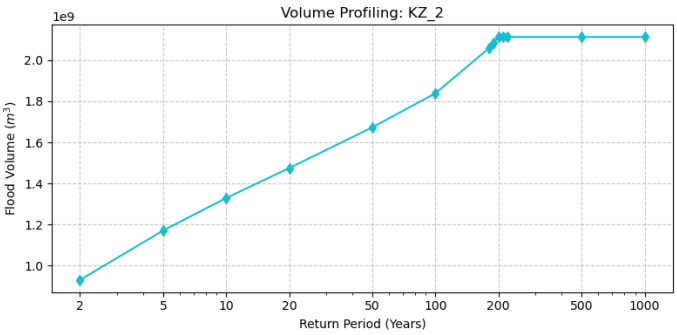
Resolution: 80m | Return Period: 190Y



METRIC	VALUE
Kappa Score	0.9221
Accuracy	97.8%
Peak Discharge	3079.65 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	910.01	859.94	-50.07
% of Total	17.4%	16.5%	-1.0%
Total Bounds Area	5219.26 km2		





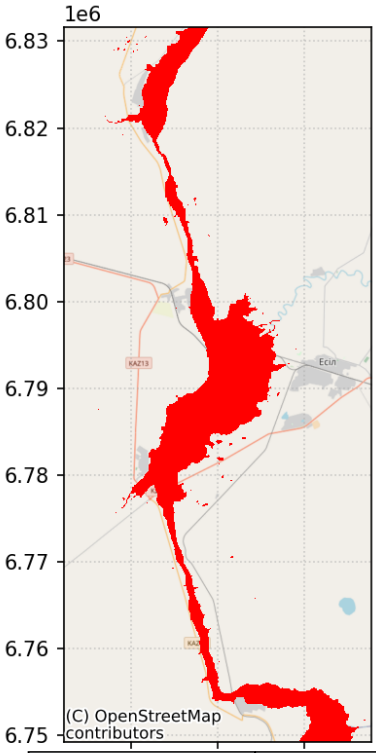

```
> fastflood.exe -key <key> -sim -autohazard 67.995740947 51.864739705 68.72795046 51.508071477 fluvialflood 190 80m -mult_chan
0.1 -mult_man 2.5 -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Custom Satellite Analysis

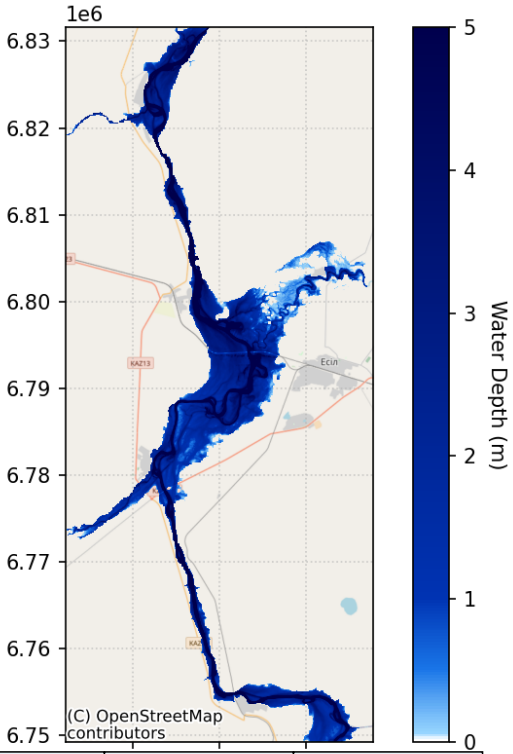
Kazakhstan - Ishim River (2024)

Resolution: 80m | Return Period: 11Y

Observed Flood Extent

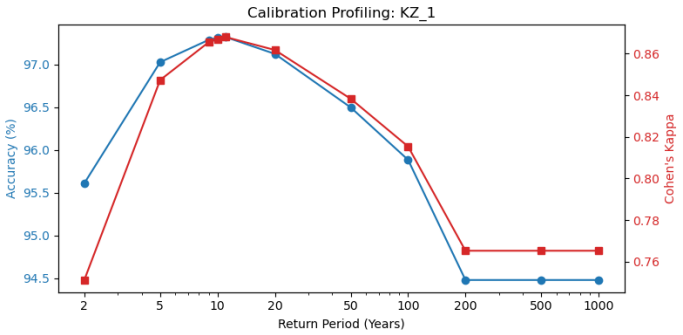


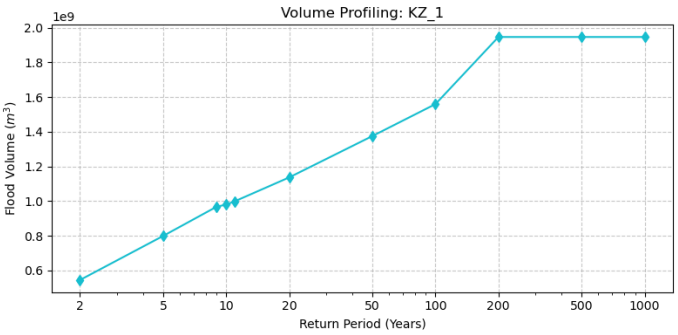
FastFlood Modeled Depth



METRIC	VALUE
Kappa Score	0.8681
Accuracy	97.3%
Peak Discharge	2970.04 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	321.88	350.77	+28.89
% of Total	11.0%	12.0%	+1.0%
Total Bounds Area	2931.45 km2		



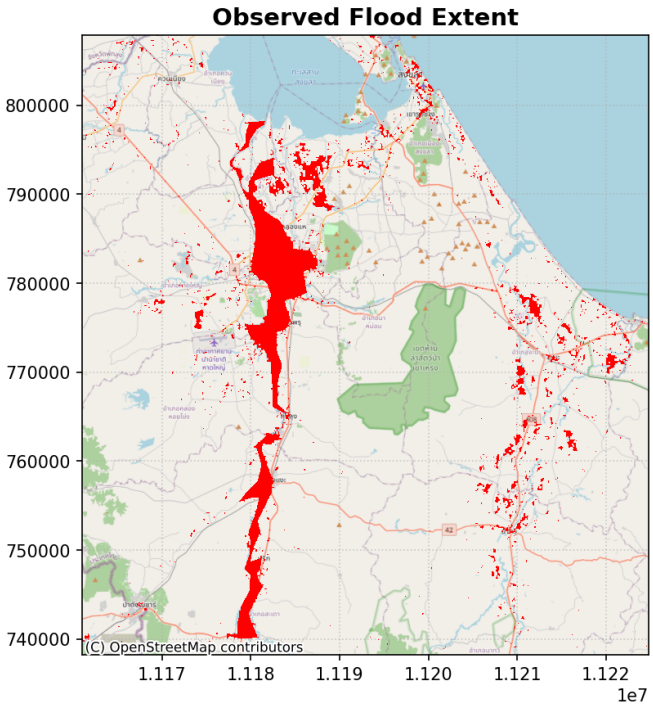


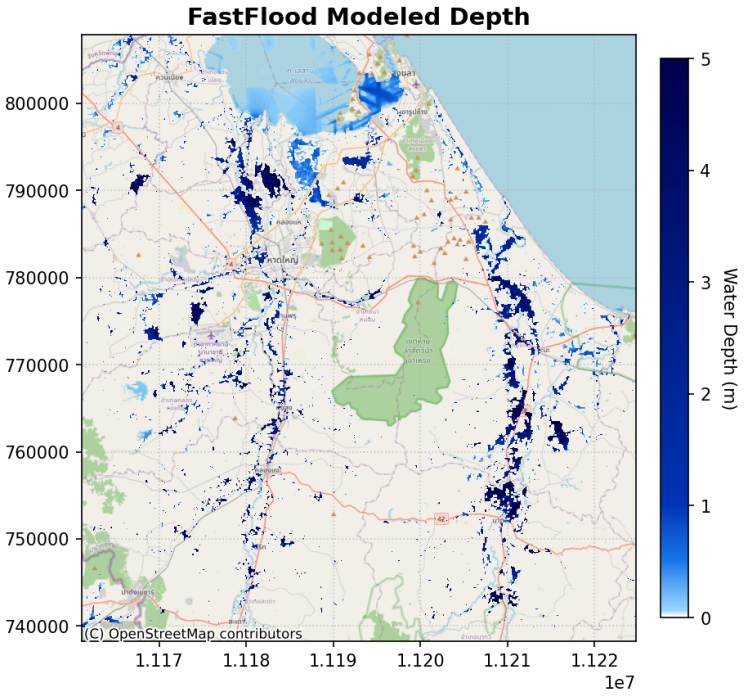

```
> fastflood.exe -key <key> -sim -autohazard 66.135971231 52.174032342 66.455057282 51.717361387 fluvialflood 11 80m -mult_chan
0.1 -mult_man 2.5 -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Custom Satellite Analysis

Thailand - Hat Yai (2023)

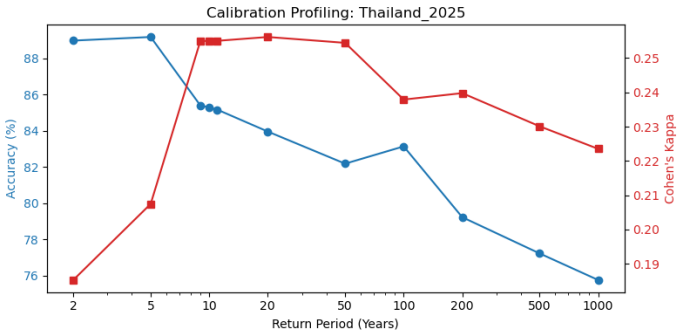
Resolution: 40m | Return Period: 9Y

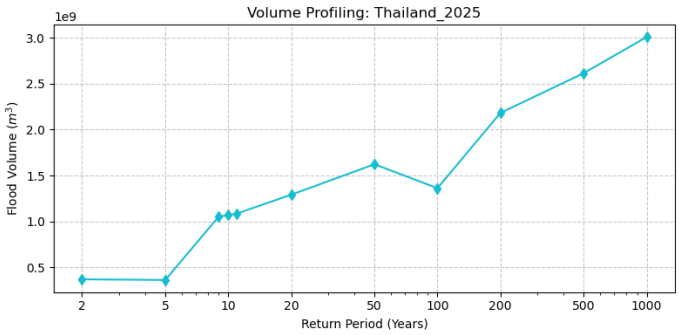




METRIC	VALUE
Kappa Score	0.2550
Accuracy	85.4%
Peak Discharge	1440.89 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	387.73	585.24	+197.52
% of Total	8.7%	13.2%	+4.4%
Total Bounds Area	4441.51 km2		



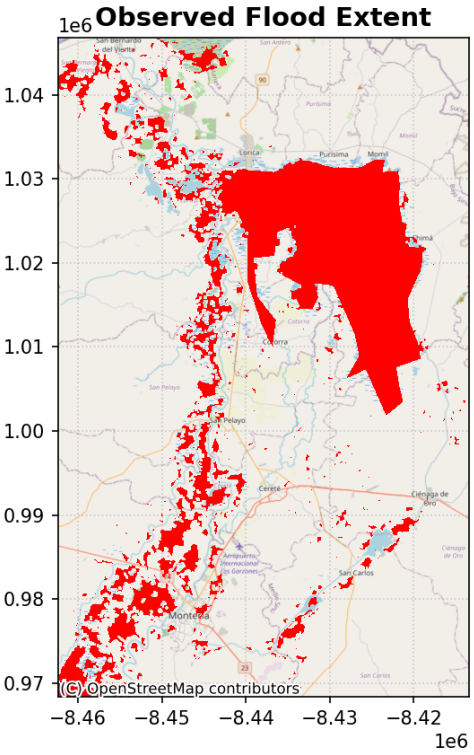


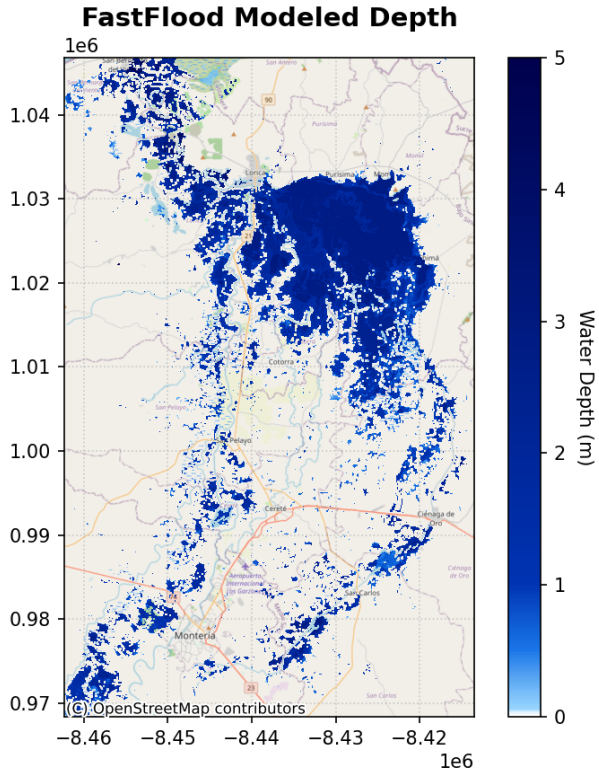

```
> fastflood.exe -key <key> -sim -autohazard 100.261246328 7.238079334 100.833841014 6.616864413 flashfloodfluvialflood 9 40m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Custom Satellite Analysis

Colombia - La Mojana (2023)

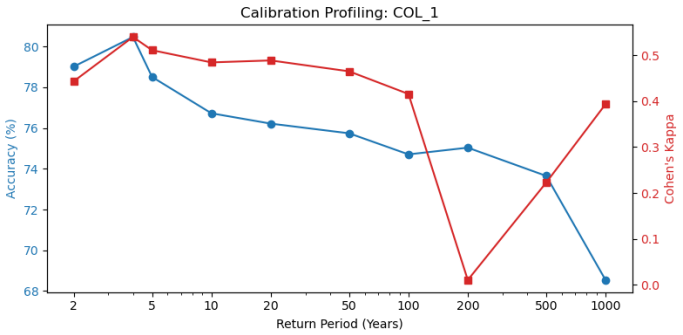
Resolution: 10m | Return Period: 4Y

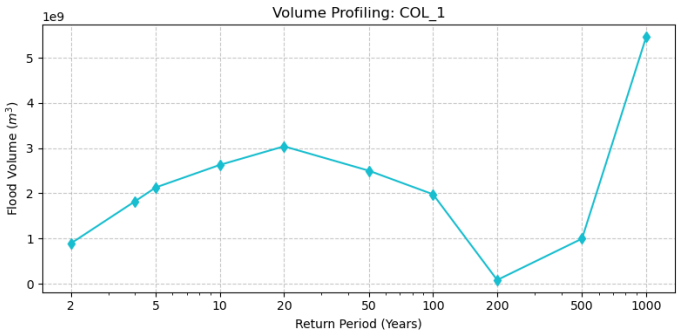




METRIC	VALUE
Kappa Score	0.5394
Accuracy	80.5%
Peak Discharge	11483.59 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	919.66	1359.74	+440.08
% of Total	24.0%	35.4%	+11.5%
Total Bounds Area	3837.80 km2		



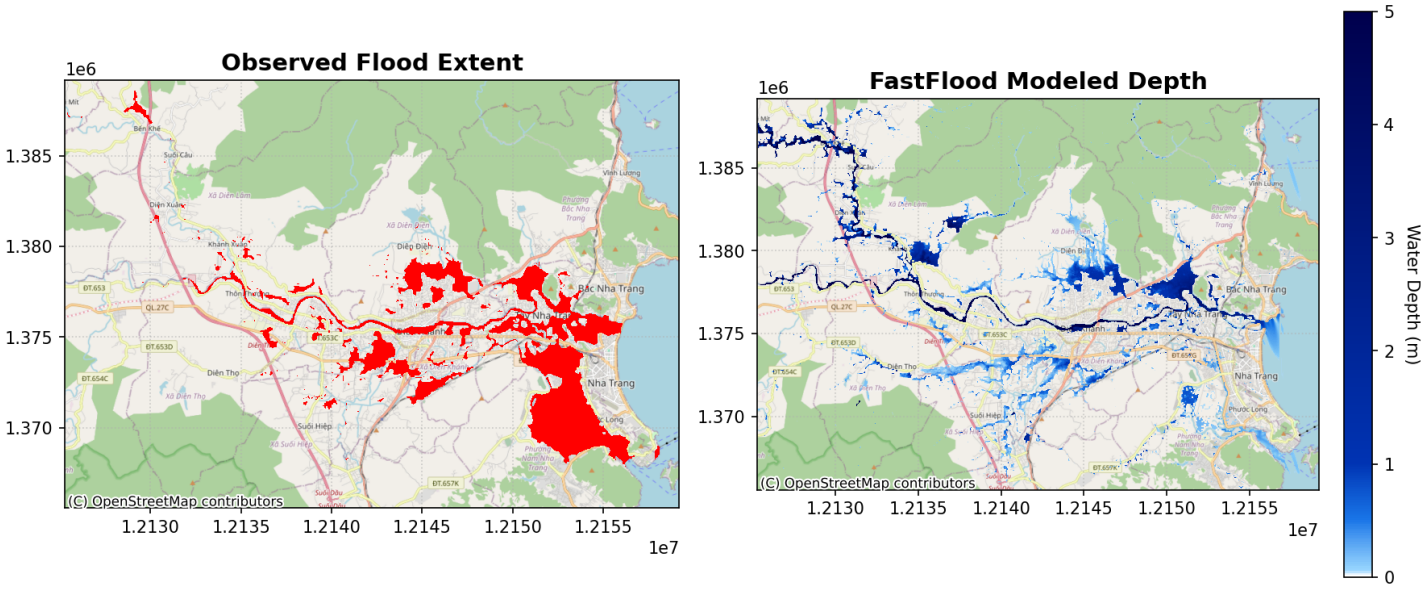



```
> fastflood.exe -key <key> -sim -autohazard -76.018782306 9.361853841 -75.579420698 8.665494574 flashfloodfluvialflood 4 10m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

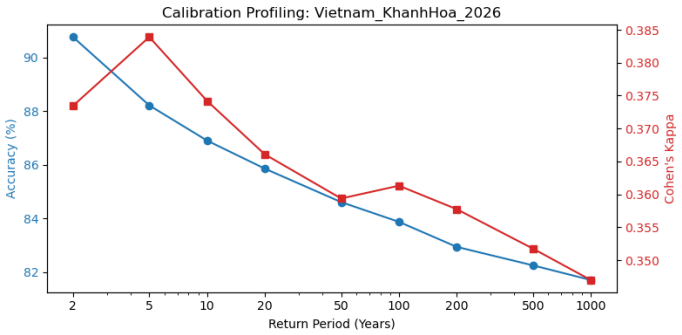
Vietnam - Khanh Hoa (2023)

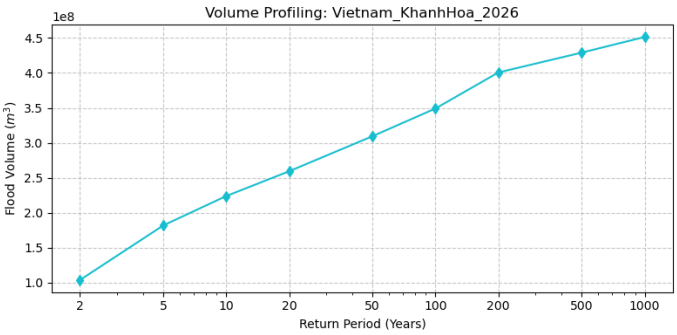
Resolution: 20m | Return Period: 2Y



METRIC	VALUE
Kappa Score	0.3734
Accuracy	90.8%
Peak Discharge	1348.17 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	64.99	63.12	-1.87
% of Total	8.1%	7.9%	-0.2%
Total Bounds Area	799.84 km2		



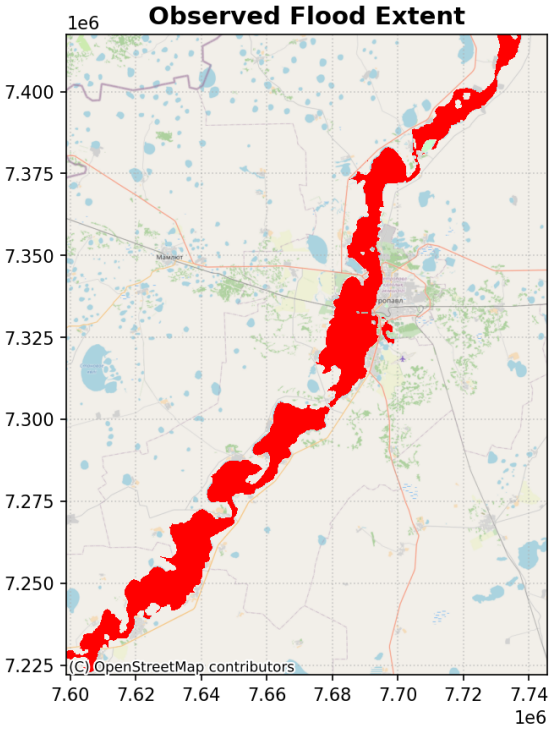


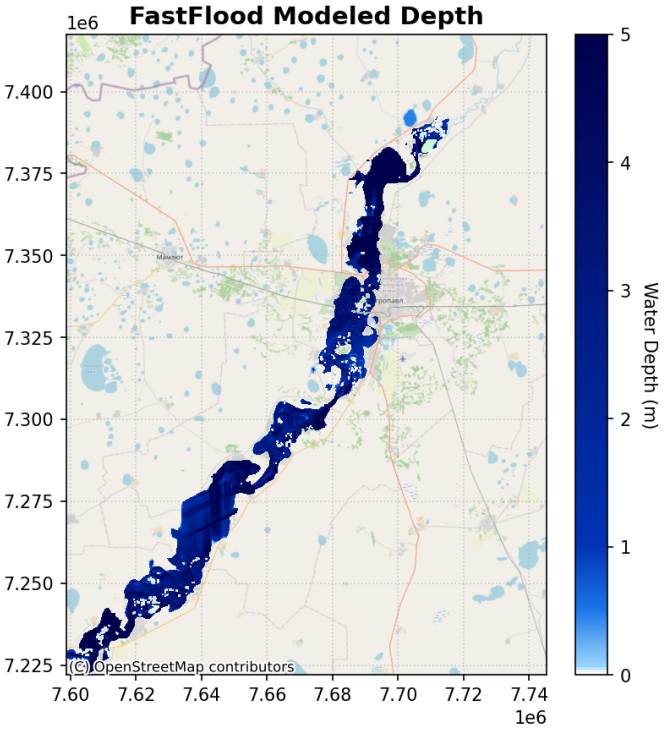

```
> fastflood.exe -key <key> -sim -autohazard 108.923228587 12.38148797 109.227988288 12.174508424 flashfloodfluvialflood 2 20m
-nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Emergency Management Service

Kazakhstan - Petropavl (2024)

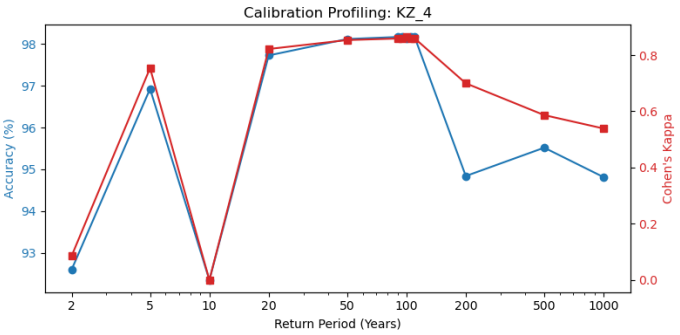
Resolution: 40m | Return Period: 100Y

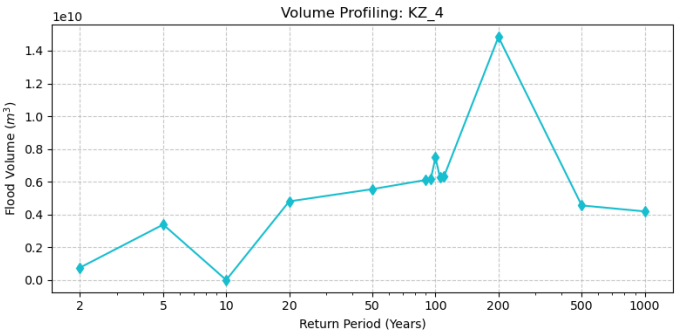




METRIC	VALUE
Kappa Score	0.8644
Accuracy	98.1%
Peak Discharge	4179.86 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	2192.74	2068.61	-124.13
% of Total	7.6%	7.2%	-0.4%
Total Bounds Area	28683.99 km2		



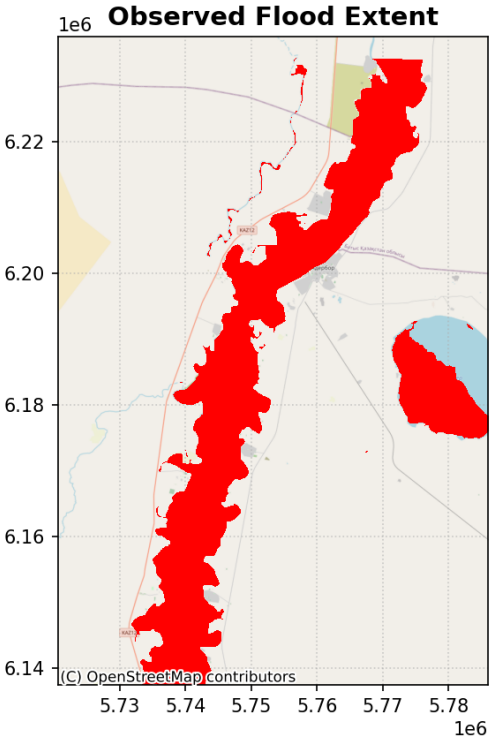


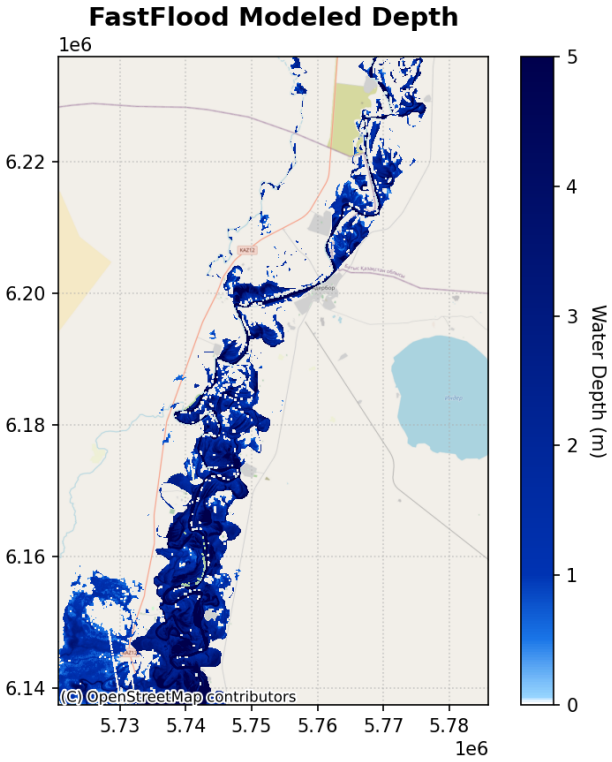

```
> fastflood.exe -key <key> -sim -autohazard 68.261016707 55.285344711 69.579384776 54.272809721 fluvialflood 100 40m
-mult_chan 0.1 -mult_man 2.5 -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Custom Satellite Analysis

Kazakhstan - Ural River (2024)

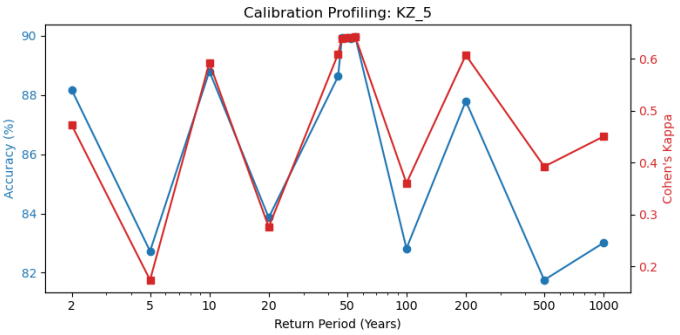
Resolution: 10m | Return Period: 55Y

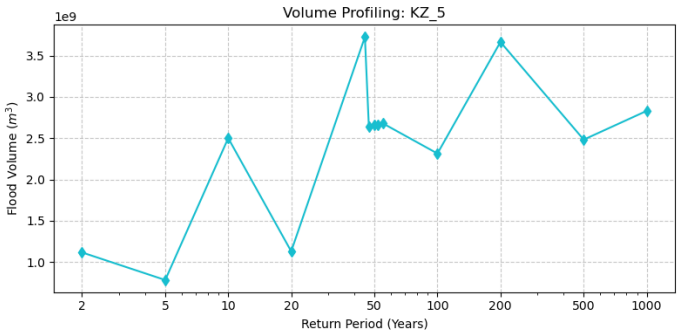




METRIC	VALUE
Kappa Score	0.6417
Accuracy	90.0%
Peak Discharge	10700.53 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	1080.36	1091.11	+10.75
% of Total	16.8%	16.9%	+0.2%
Total Bounds Area	6441.00 km2		



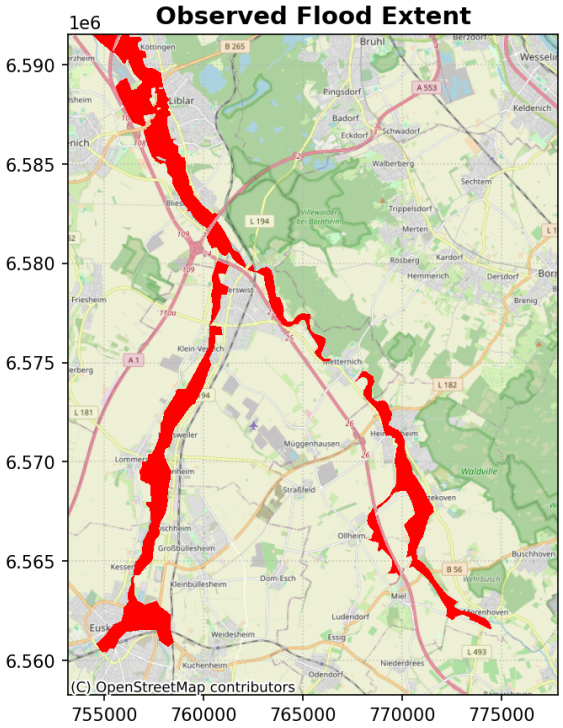


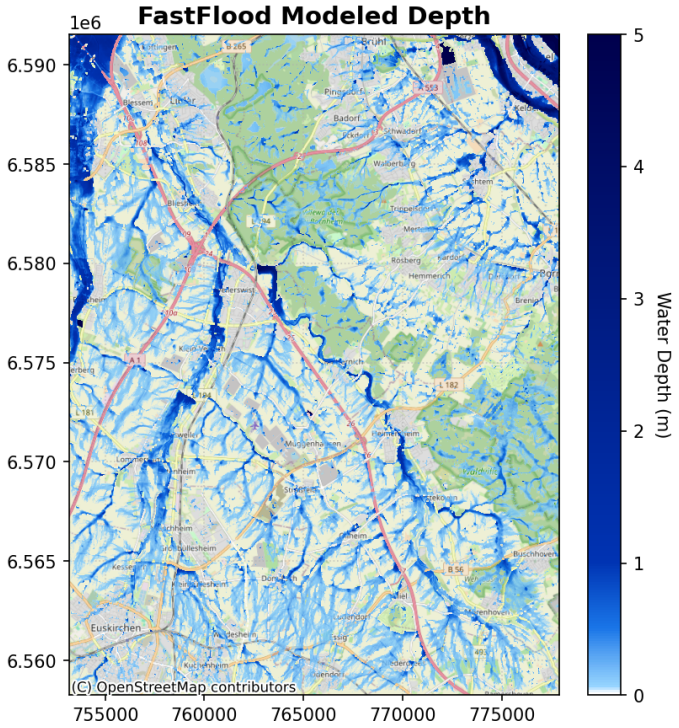

```
> fastflood.exe -key <key> -sim -autohazard 51.389385115 48.770116423 51.976622277 48.183421584 fluvialflood 55 10m -mult_chan
0.1 -mult_man 2.5 -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Custom Satellite Analysis

Germany - Ahr Valley (2021)

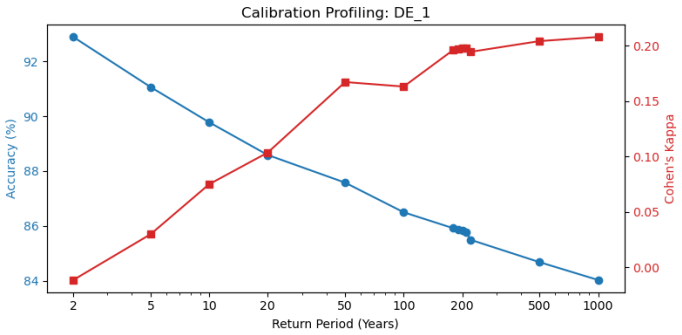
Resolution: 10m | Return Period: 200Y

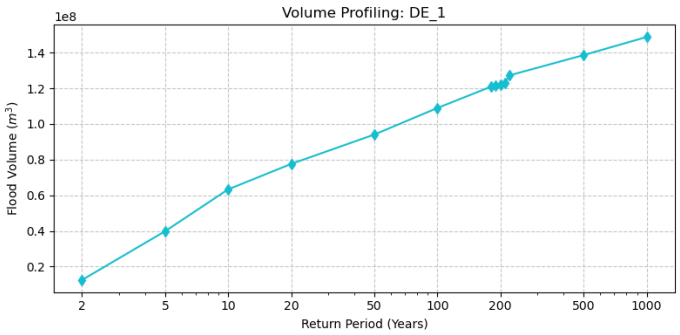




METRIC	VALUE
Kappa Score	0.1976
Accuracy	85.8%
Peak Discharge	14532.28 m3/s

AREA (km2)	OBSERVED	MODELED	DIFF
Flooded Extent	51.12	107.53	+56.41
% of Total	6.2%	13.1%	+6.9%
Total Bounds Area	822.50 km2		

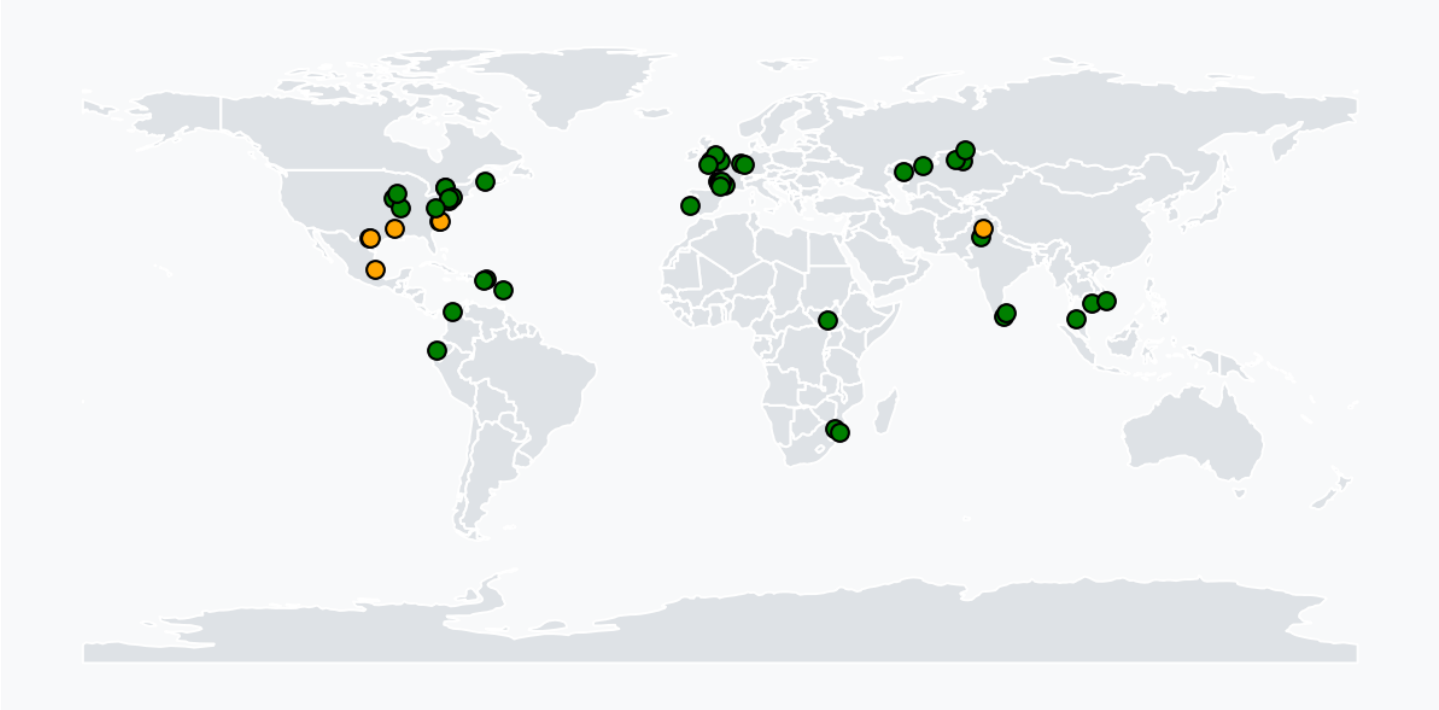





```
> fastflood.exe -key <key> -sim -autohazard 6.765868356 50.831463437 6.987895959 50.642221656 flashfloodfluvialflood 200 10m
-mult_man 2.5 -nochanwh -whout depth.tif -qout discharge.tif
```

Observation Data Source: Custom Satellite Analysis

Global Model Distribution



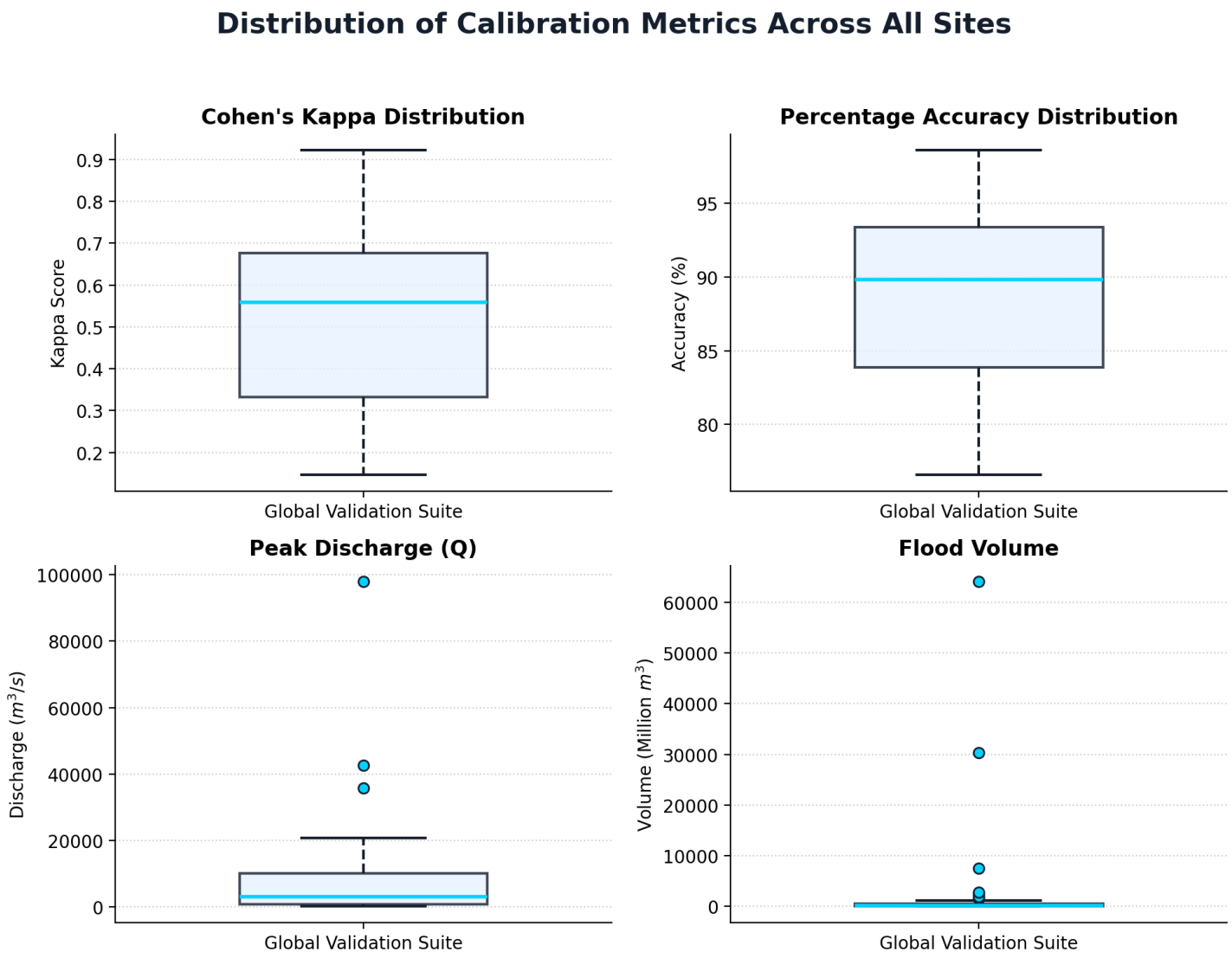
Performance Summary

Area Name	Kappa	Accuracy	Peak Q (m3/s)
South_Sudan_VIIRS	0.279	90.0%	42604.3
Mozambique_Massingir_2026	0.315	82.3%	7043.8
Cambodia_Mekong	0.581	80.3%	97895.6
Netherlands_2021	0.557	95.7%	206.7
XaiXai_2026	0.703	85.3%	35776.8
Dominica_2017	0.283	90.4%	753.1
Sri_Lanka_2025_B	0.335	84.1%	417.4
Sri_Lanka_2025_C	0.192	80.1%	817.8
UK_2025	0.385	77.1%	2119.7
Canada_50y_1	0.652	93.5%	417.1
Canada_50y_2	0.695	96.0%	403.3
PuertoRico_1	0.673	87.1%	199.2
PuertoRico_2	0.817	94.3%	463.1
Texas_1	0.397	91.3%	3060.7
Texas_2	0.410	79.9%	1940.8
Matthew_5	0.679	93.4%	449.5
Matthew_1	0.600	79.8%	7289.9
UK_2	0.511	83.7%	1628.5
UK_3	0.147	80.3%	1981.0
UK_4	0.640	89.4%	481.5
UK_5	0.656	93.3%	1054.6
FR_1	0.623	85.2%	5426.5

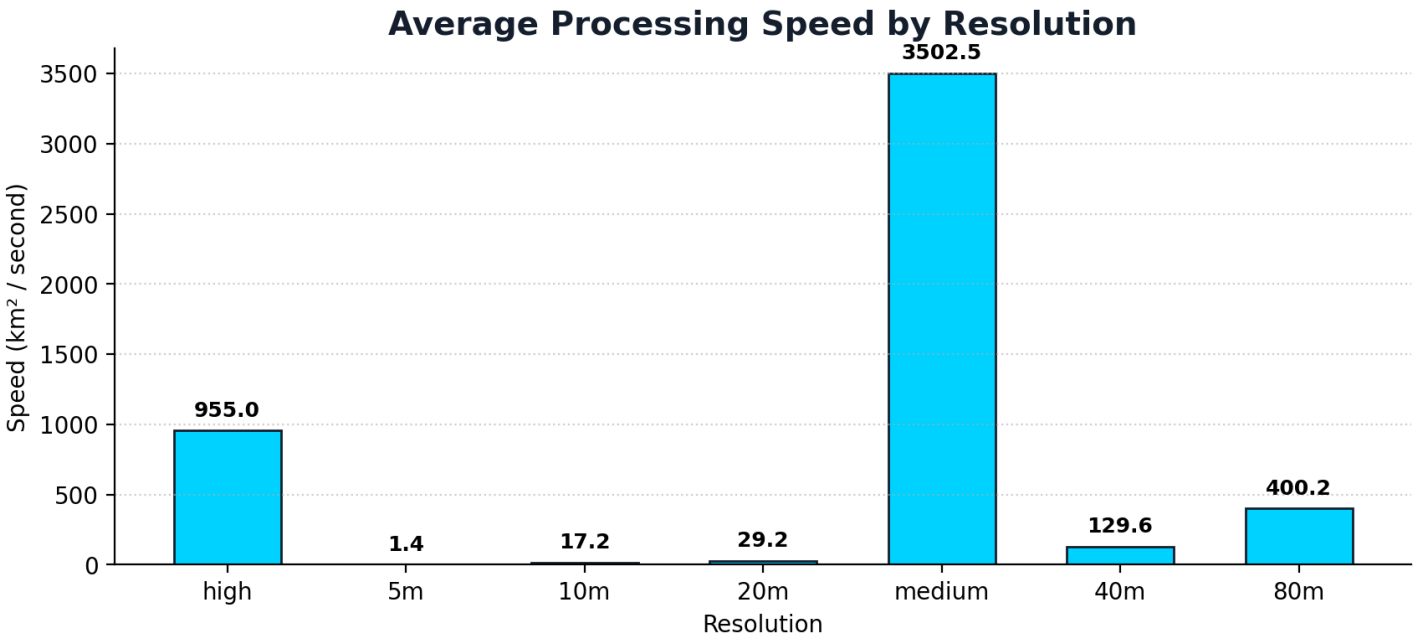
Area Name	Kappa	Accuracy	Peak Q (m3/s)
FR_2	0.553	93.3%	1144.4
CAN_3	0.680	90.0%	12913.6
KZ_3	0.319	85.0%	2143.4
IA_Flood_2010_A	0.831	92.0%	4619.5
Lee_2011_A	0.446	91.7%	13025.8
Lee_2011_B	0.582	89.8%	6842.1
Lee_2011_C	0.787	90.5%	9238.8
WV_Flood_2016	0.817	95.1%	540.2
LA_Flood_2016	0.532	76.6%	9566.4
MO_Flood_2015	0.678	88.4%	7483.8
MEX	0.306	78.9%	4692.6
FR_Gironde_2026	0.558	95.1%	11079.9
FR_Dordogne_2026	0.305	95.3%	6672.4
FR_Charente_A_2026	0.310	91.7%	1016.7
FR_Charente_B_2026	0.590	94.9%	774.1
FR_LotEtGaronne_2026	0.312	88.0%	15375.6
Ecuador_Guayas_2026	0.354	83.0%	728.3
IA_Flood_2010_B	0.828	98.6%	372.1
Pakistan_2	0.634	89.1%	10800.8
Pakistan_1	0.329	76.6%	11999.8
Portugal_2026	0.596	89.6%	20673.5
KZ_2	0.922	97.8%	3079.7
KZ_1	0.868	97.3%	2970.0
Thailand_2025	0.255	85.4%	1440.9

Area Name	Kappa	Accuracy	Peak Q (m3/s)
COL_1	0.539	80.5%	11483.6
Vietnam_KhanhHoa_2026	0.373	90.8%	1348.2
KZ_4	0.864	98.1%	4179.9
KZ_5	0.642	90.0%	10700.5
DE_1	0.198	85.8%	14532.3

Global Metrics Distribution



Model Speed & Performance



Site Name	Res	Grid (RxC)	Pixels	Area (km2)	Time (s)
South_Sudan_VIIRS	high	2108x2241	4,724,028	441611.1	462.43
Mozambique_Massingir_2026	20m	1551x1770	2,745,270	1002.5	27.49
Cambodia_Mekong	medium	966x975	941,850	88045.9	25.14
Netherlands_2021	10m	2120x2338	4,956,560	452.5	40.33
XaiXai_2026	80m	816x542	442,272	2584.0	7.56
Dominica_2017	5m	2316x1460	3,381,360	77.2	32.48
Sri_Lanka_2025_B	40m	1287x1521	1,957,527	2859.3	27.23
Sri_Lanka_2025_C	20m	1841x1972	3,630,452	1325.7	33.42
UK_2025	5m	844x672	567,168	12.9	11.50
Canada_50y_1	5m	1632x1236	2,017,152	46.0	33.83
Canada_50y_2	5m	1364x1104	1,505,856	34.4	29.52
PuertoRico_1	10m	436x404	176,144	10.5	5.51
PuertoRico_2	10m	762x732	557,784	27.9	6.70
Texas_1	10m	2650x4194	11,114,100	711.1	45.16
Texas_2	5m	1072x1624	1,740,928	22.7	26.21

Matthew_5	10m	3374x2996	10,108,504	769.3	283.61
Matthew_1	10m	1794x1774	3,182,556	134.8	29.15
UK_2	10m	1776x1528	2,713,728	247.7	52.02
UK_3	10m	1226x1466	1,797,316	164.1	15.06
UK_4	10m	544x962	523,328	47.8	12.67
UK_5	10m	4532x3348	15,173,136	1385.2	81.79
FR_1	10m	2052x2984	6,123,168	559.0	30.83
FR_2	10m	3532x5184	18,309,888	1671.5	57.70
CAN_3	10m	3652x5910	21,583,320	1970.4	278.21
KZ_3	20m	1094x1597	1,747,118	638.0	18.94
IA_Flood_2010_A	10m	1108x1784	1,976,672	55.7	24.04
Lee_2011_A	10m	3078x3336	10,268,208	863.2	81.70
Lee_2011_B	10m	1934x1884	3,643,656	159.2	108.91
Lee_2011_C	10m	1278x1490	1,904,220	58.5	18.66
WV_Flood_2016	10m	544x850	462,400	8.1	10.09
LA_Flood_2016	10m	3908x3012	11,770,896	516.6	50.11
MO_Flood_2015	10m	2650x2984	7,907,600	320.0	249.33
MEX	10m	1358x2762	3,750,796	342.4	25.69
FR_Gironde_2026	10m	7236x6796	49,175,856	4489.3	295.61
FR_Dordogne_2026	10m	4950x8140	40,293,000	3678.4	59.01
FR_Charente_A_2026	10m	1816x2158	3,918,928	357.8	18.25
FR_Charente_B_2026	10m	2674x3288	8,792,112	802.6	242.16
FR_LotEtGaronne_2026	10m	4470x7906	35,339,820	3226.2	96.73
Ecuador_Guayas_2026	20m	636x853	542,508	198.1	26.80
IA_Flood_2010_B	10m	2150x2420	5,203,000	368.2	35.14
Pakistan_2	40m	1021x1130	1,153,730	1685.2	26.63
Pakistan_1	40m	1176x1494	1,756,944	2566.3	13.85
Portugal_2026	40m	2523x1954	4,929,942	7200.9	251.51
KZ_2	80m	838x1066	893,308	5219.3	14.72
KZ_1	80m	1079x465	501,735	2931.4	5.81
Thailand_2025	40m	1823x1668	3,040,764	4441.5	15.56
COL_1	10m	8214x5118	42,039,252	3837.8	34.38
Vietnam_KhanhHoa_2026	20m	1234x1775	2,190,350	799.8	27.61
KZ_4	40m	5114x3840	19,637,760	28684.0	261.16

Site Name	Res	Grid (RxC)	Pixels	Area (km2)	Time (s)
KZ_5	10m	10312x6842	70,554,704	6441.0	79.21
DE_1	10m	3484x2586	9,009,624	822.5	244.63