



RIPE
NCC

Hackathon - Food for Thought

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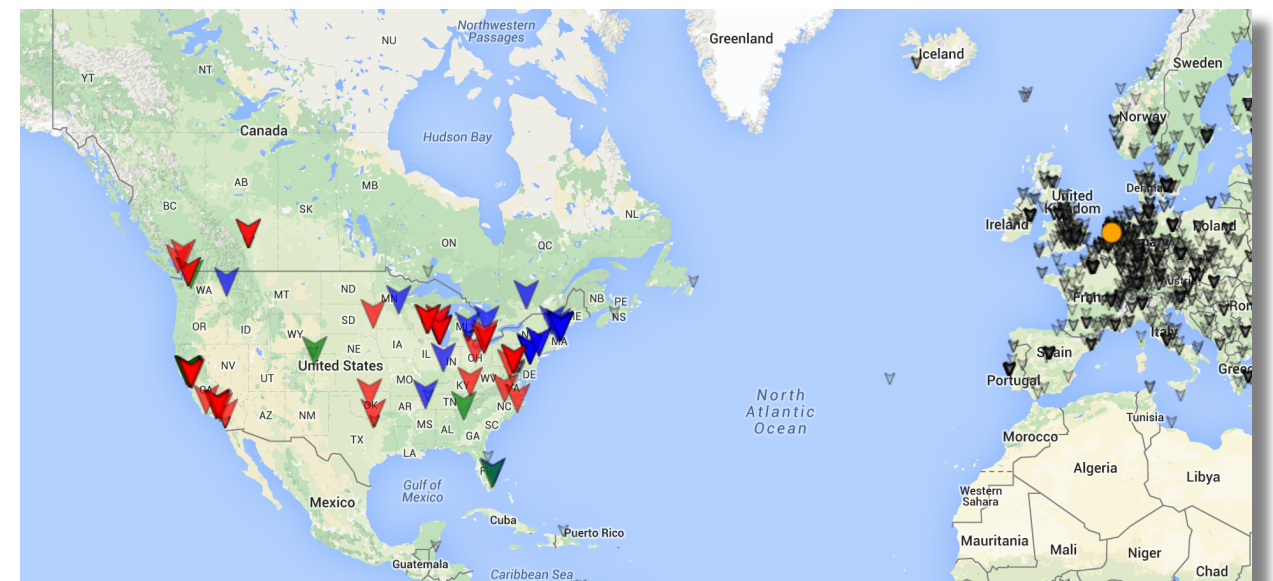
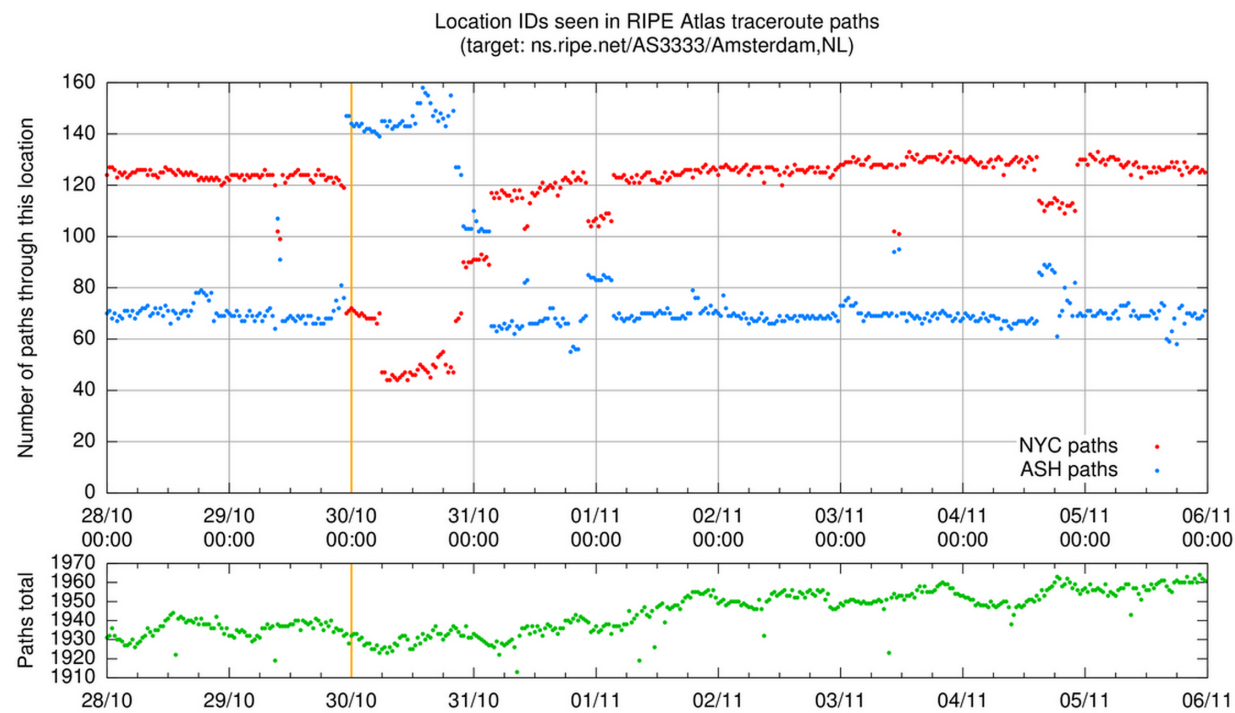
<https://labs.ripe.net/Members/emileaben>

<https://sg-pub.ripe.net/emile/hackathon.pdf>

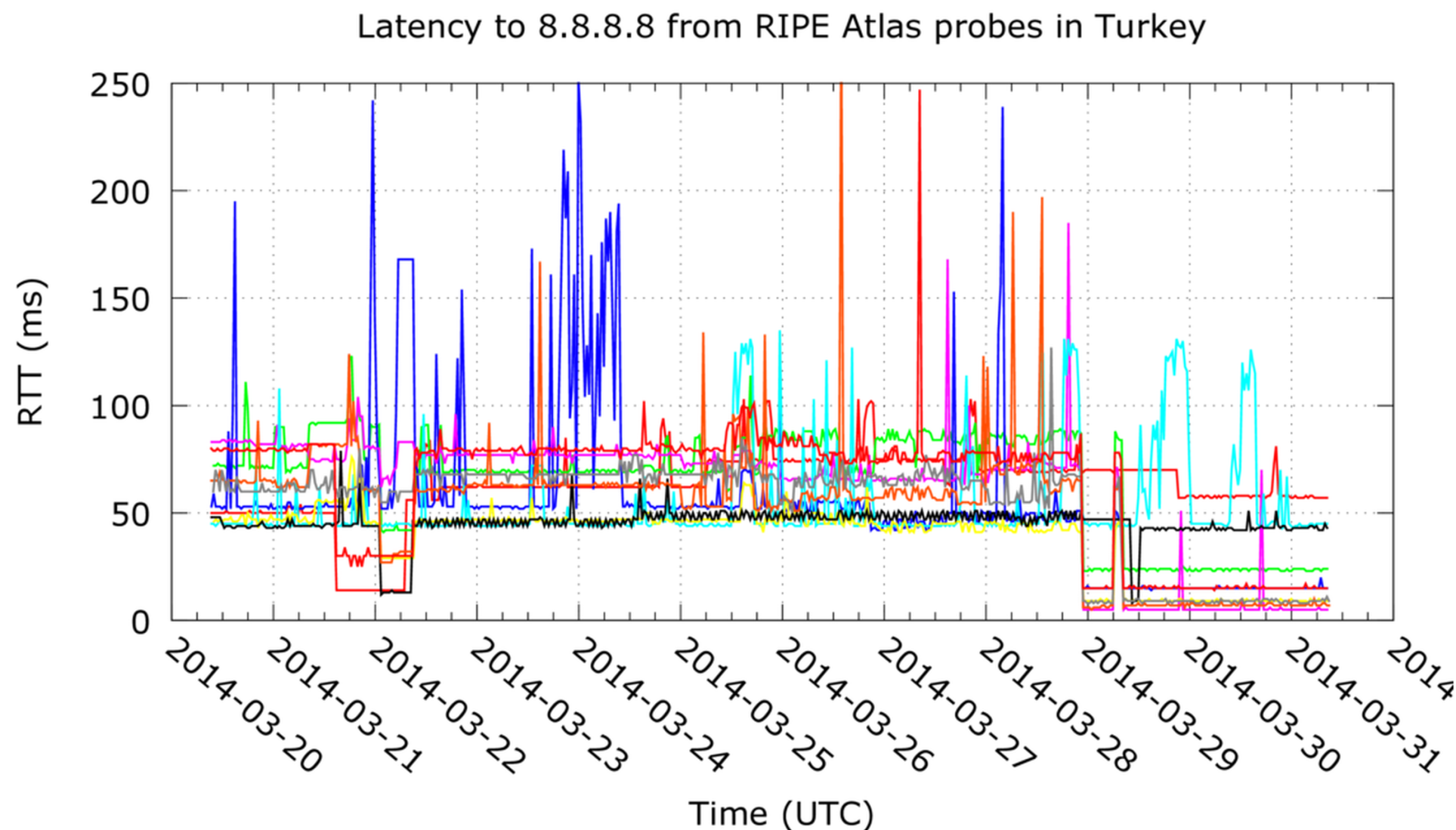
Event | City - Country | Day Month Year

Example Viz: Hurricane Sandy

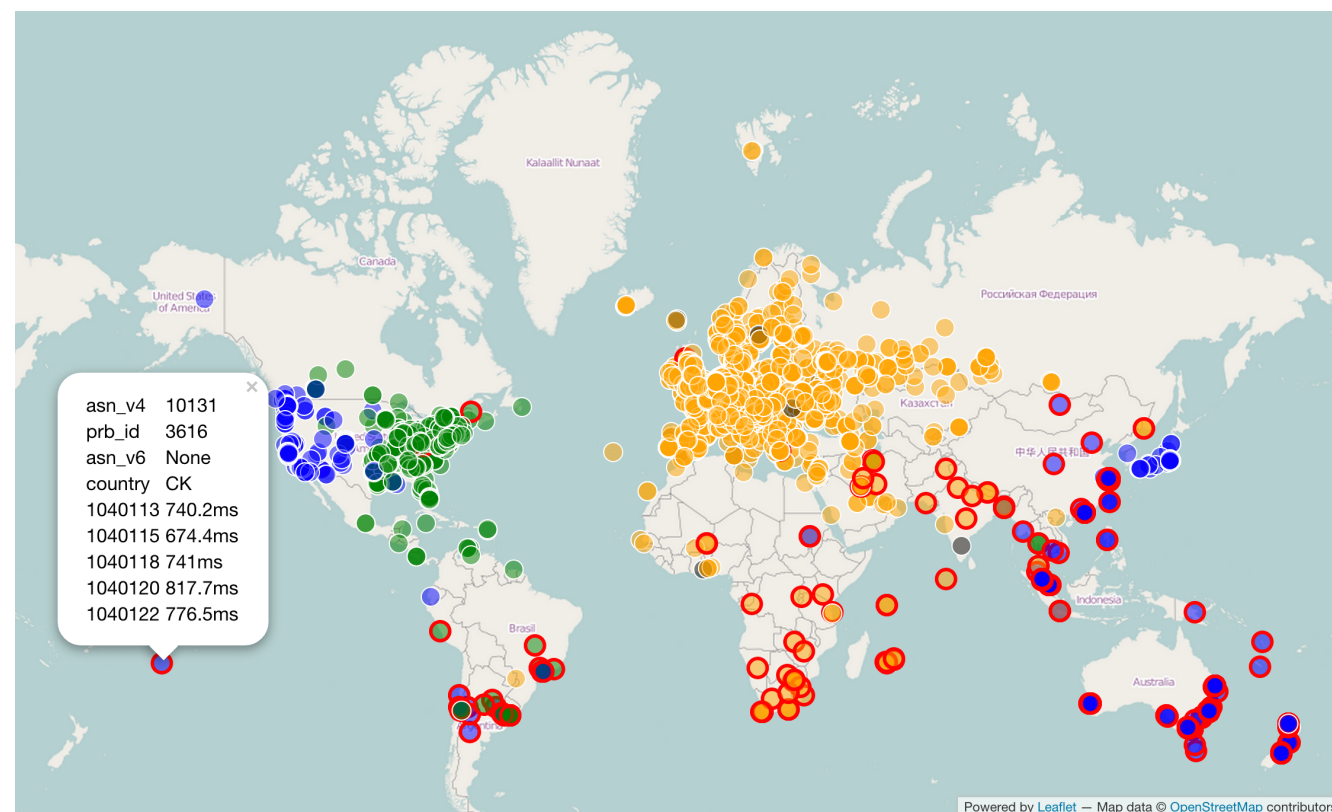
- <https://labs.ripe.net/Members/emileaben/ripe-atlas-hurricane-sandy-global-effects>
- <http://sg-pub.ripe.net/demo-area/sandy-2012/maps/5003.2012-10-29T22:00.2012-10-30T09:00.nyc.html>



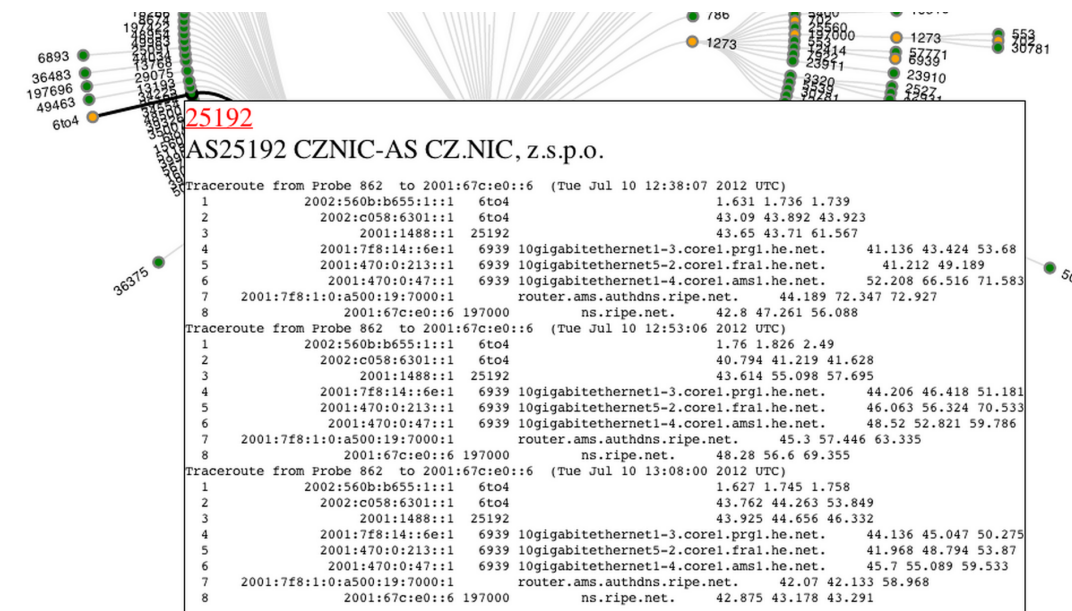
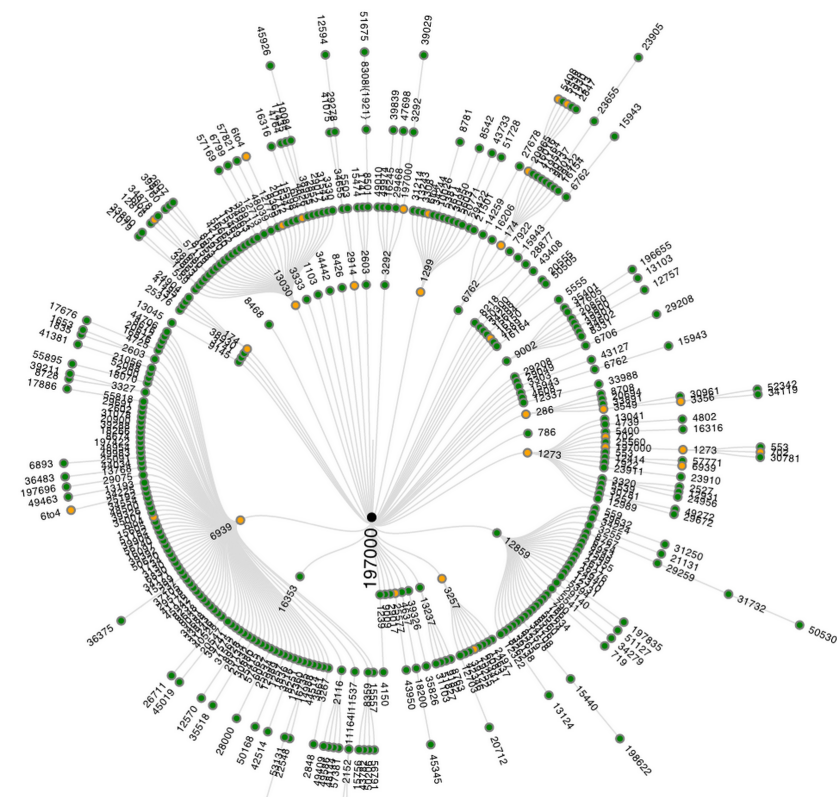
- <https://labs.ripe.net/Members/emileaben/a-ripe-atlas-view-of-internet-meddling-in-turkey>



- <https://labs.ripe.net/Members/emileaben/how-ripe-atlas-helped-wikipedia-users>
- <http://sg-pub.ripe.net/emile-playground/wikimedia-map/color-by-fastest/map/map.html>
- <https://github.com/RIPE-Atlas-Community/datacentre-latency-map>

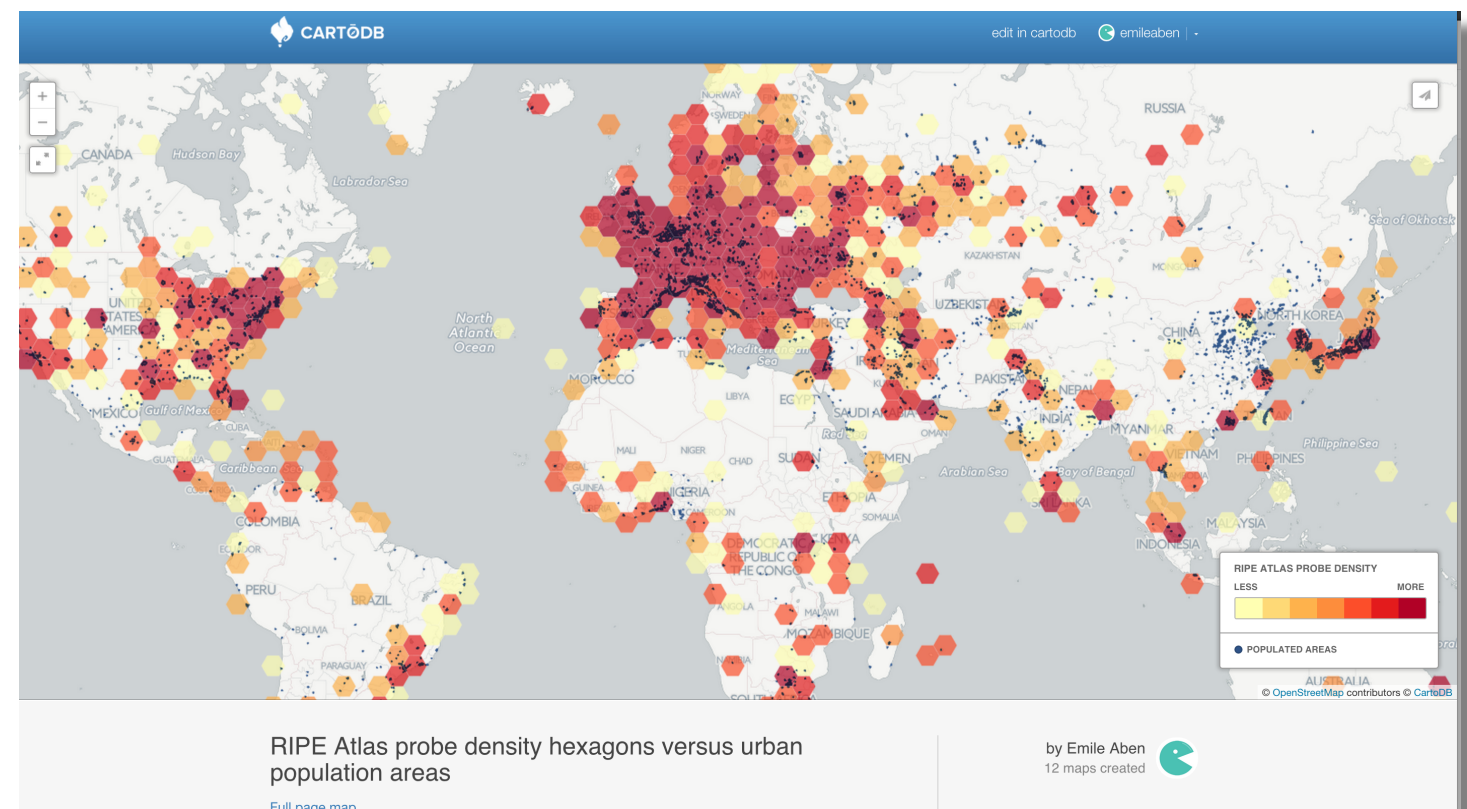
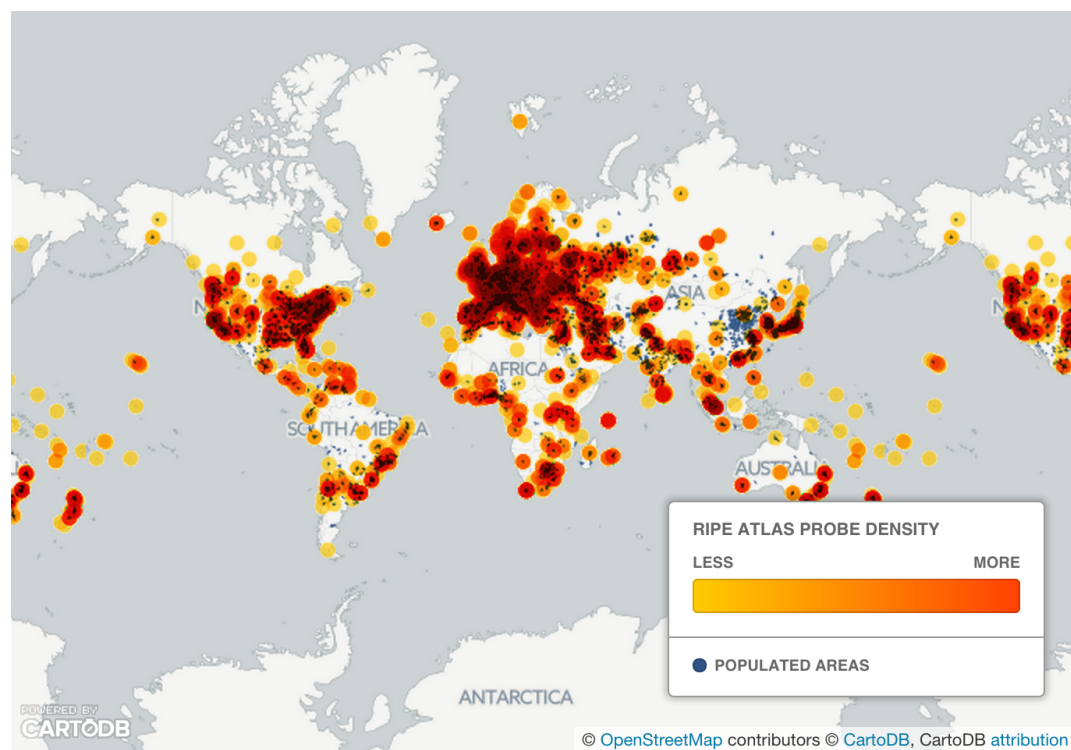


- <https://labs.ripe.net/Members/emileaben/visualise-your-ipv6-connectivity-using-ripe-atlas>
- http://albatross.ripe.net/cgi-bin/demo-area/v6reach.cgi?msm_id=1002799;nonce=2bb398946c5513d966e84182027fc20eaa941e6a204812c3349b769fb55ec503;no_embed=1
- d3.js

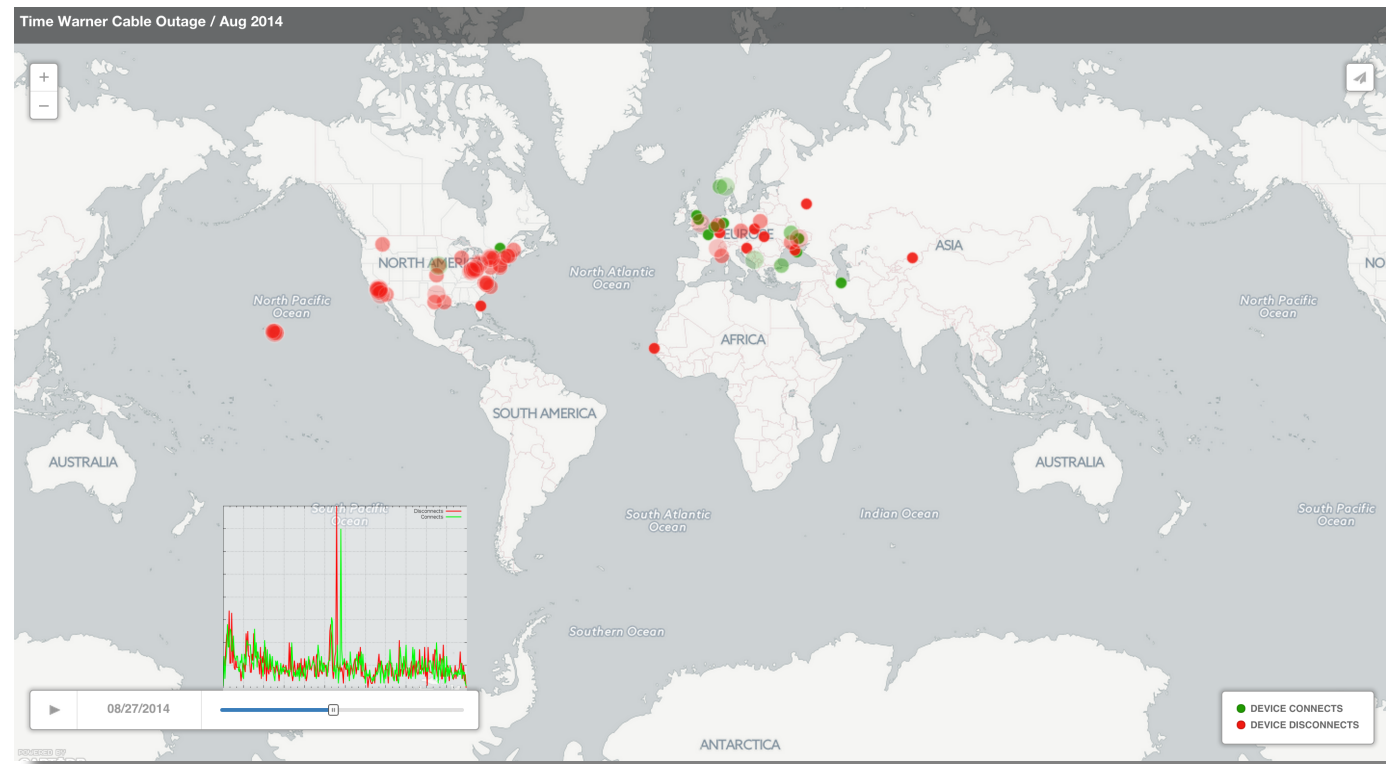


Example Viz: Probe distribution

- <https://labs.ripe.net/Members/emileaben/distribution-of-ripe-atlas-probes>
- https://emileaben.cartodb.com/viz/9f1a8bfe-8438-11e4-8025-0e018d66dc29/public_map

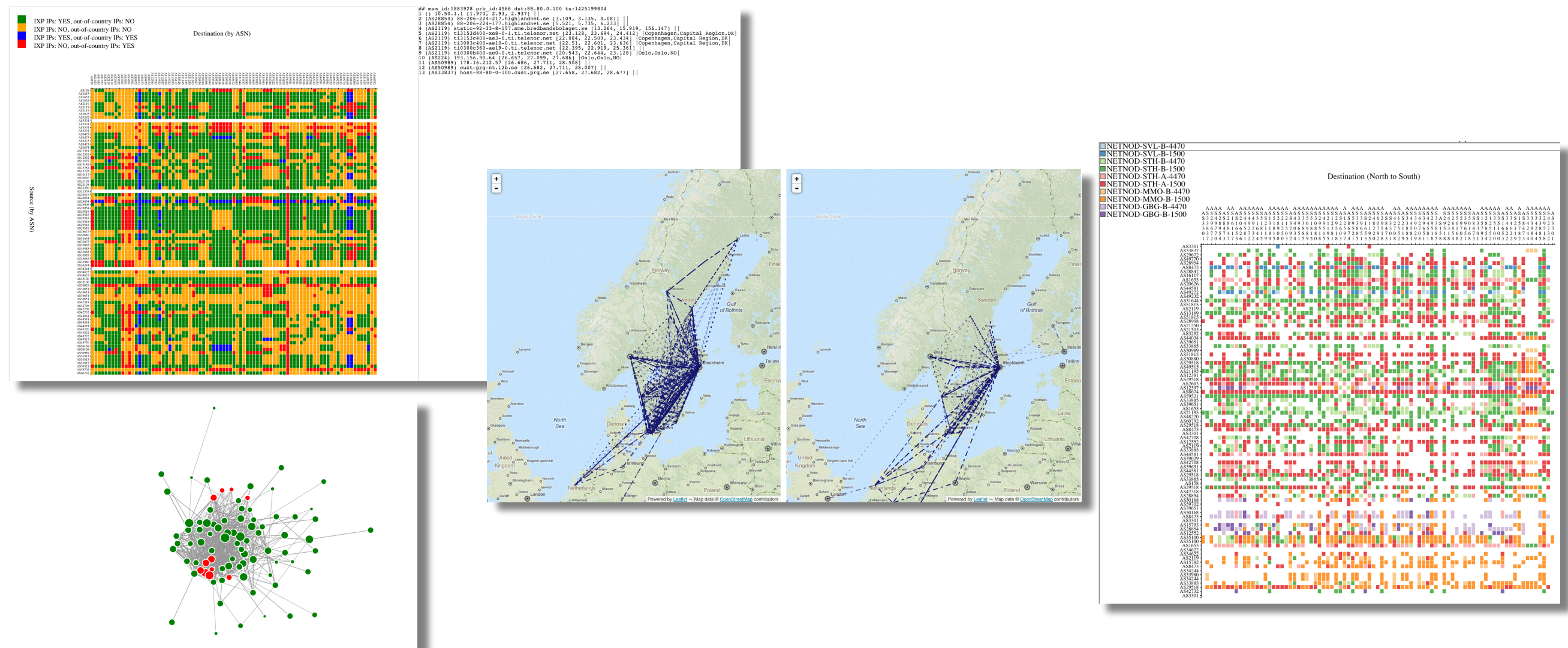


- <https://labs.ripe.net/Members/emileaben/visualising-network-outages-with-ripe-atlas>
- https://www.youtube.com/watch?v=BaNQrJ5eH_I&feature=youtu.be
- <https://cormorant.ripe.net/demo-area/twc-2014/index.html>



Example Viz: IXP-Country-Jedi

- <https://labs.ripe.net/Members/emileaben/measuring-ixps-with-ripe-atlas>
- <https://github.com/emileaben/ixp-country-jedi>
 - has a couple of python libraries included for boring automatable parts
- <http://sg-pub.ripe.net/emile/ixp-country-jedi/SE-2015-03/>

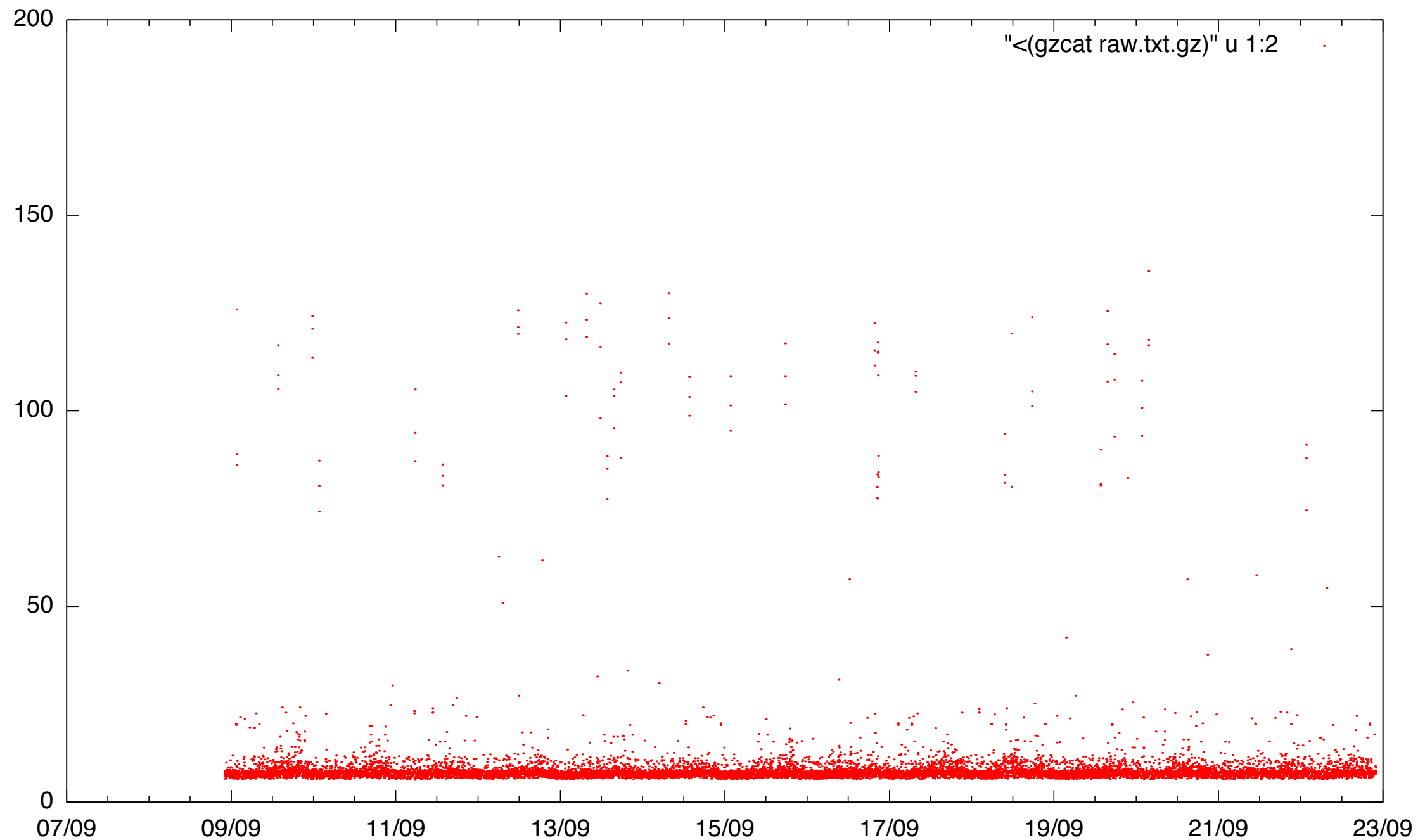


- Crowdsourced IP geolocation for infrastructure IPs
 - If you want to geolocate IPs in traceroutes, this is what you should be using.
 - example:
 - https://marmot.ripe.net/openipmap/tracemap?msm_ids=1901549&show_suggestions=0
- <https://github.com/emileaben/py-openipmap>

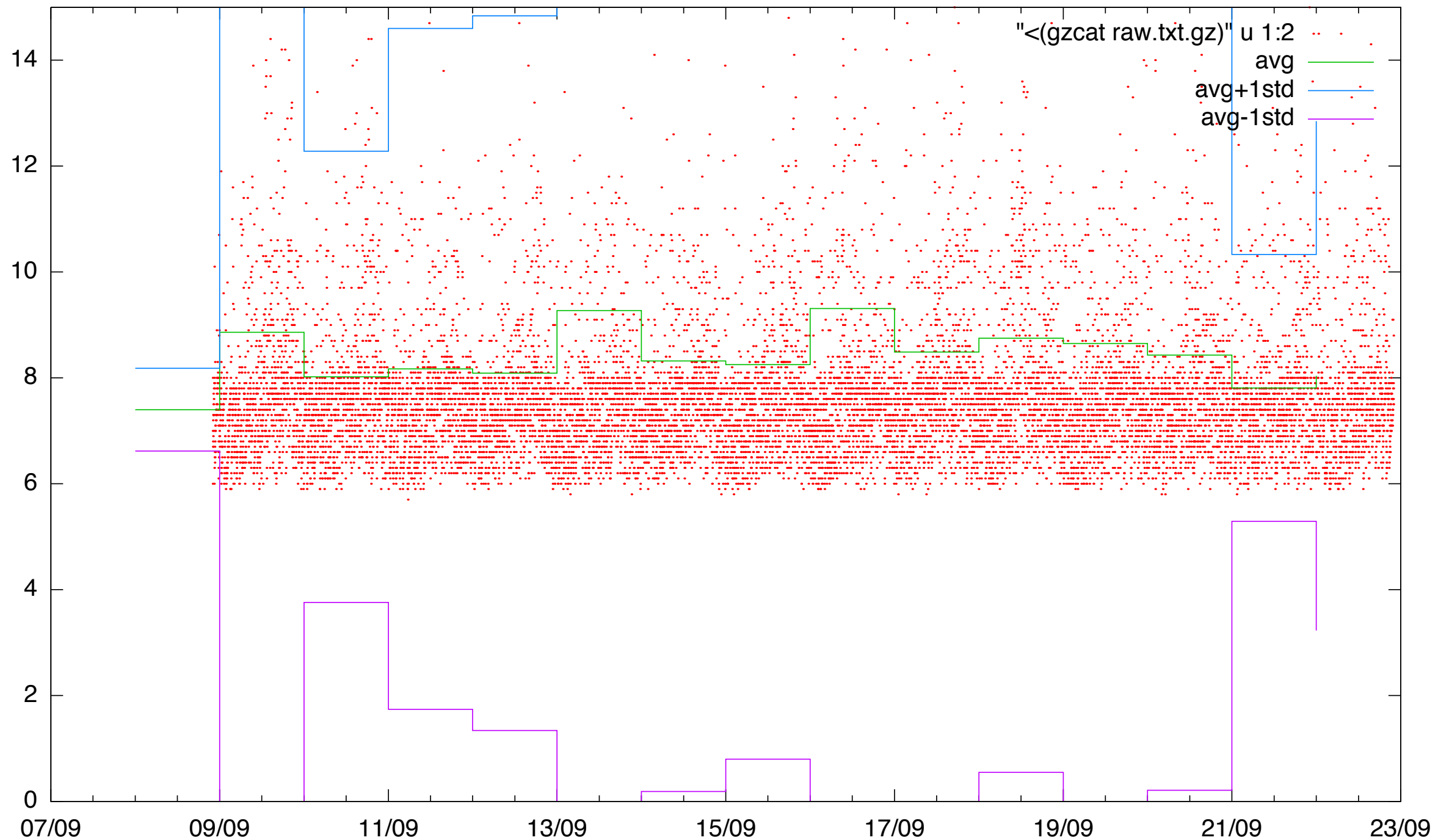
```
import openipmap
oim = openipmap.OpenIPMap()
oim.query('159.134.155.20')
## returns: {'city': u'Dublin,Leinster,IE', 'lat': 53.33306, 'lon': -6.24889}
```

- Internet latency:
 - Use median not **average**
- Infrastructure geolocation
 - where are IPs in traceroutes physically?
 - Use OpenIPMap, not **Maxmind**
- Show/link to source data whenever you can
 - Go from **pretty picture** to a data analysis tool

On Real Data (pings from probe ID 1)



Zoom and add avg/stddev



Zoom and median!

