



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RIPE NCC DNS Update

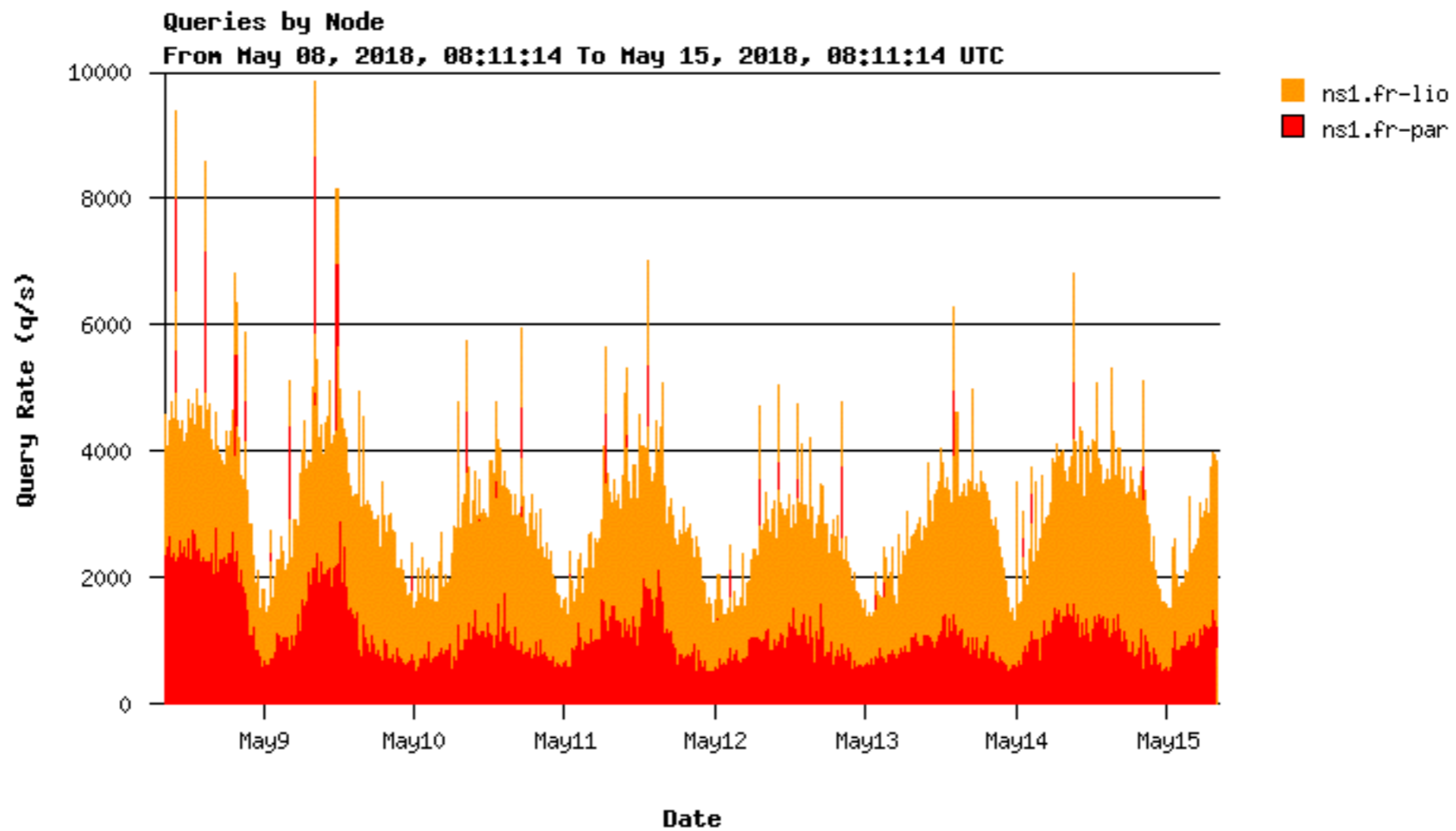
Anand Buddhdev | May 2018 | RIPE 76

K-root

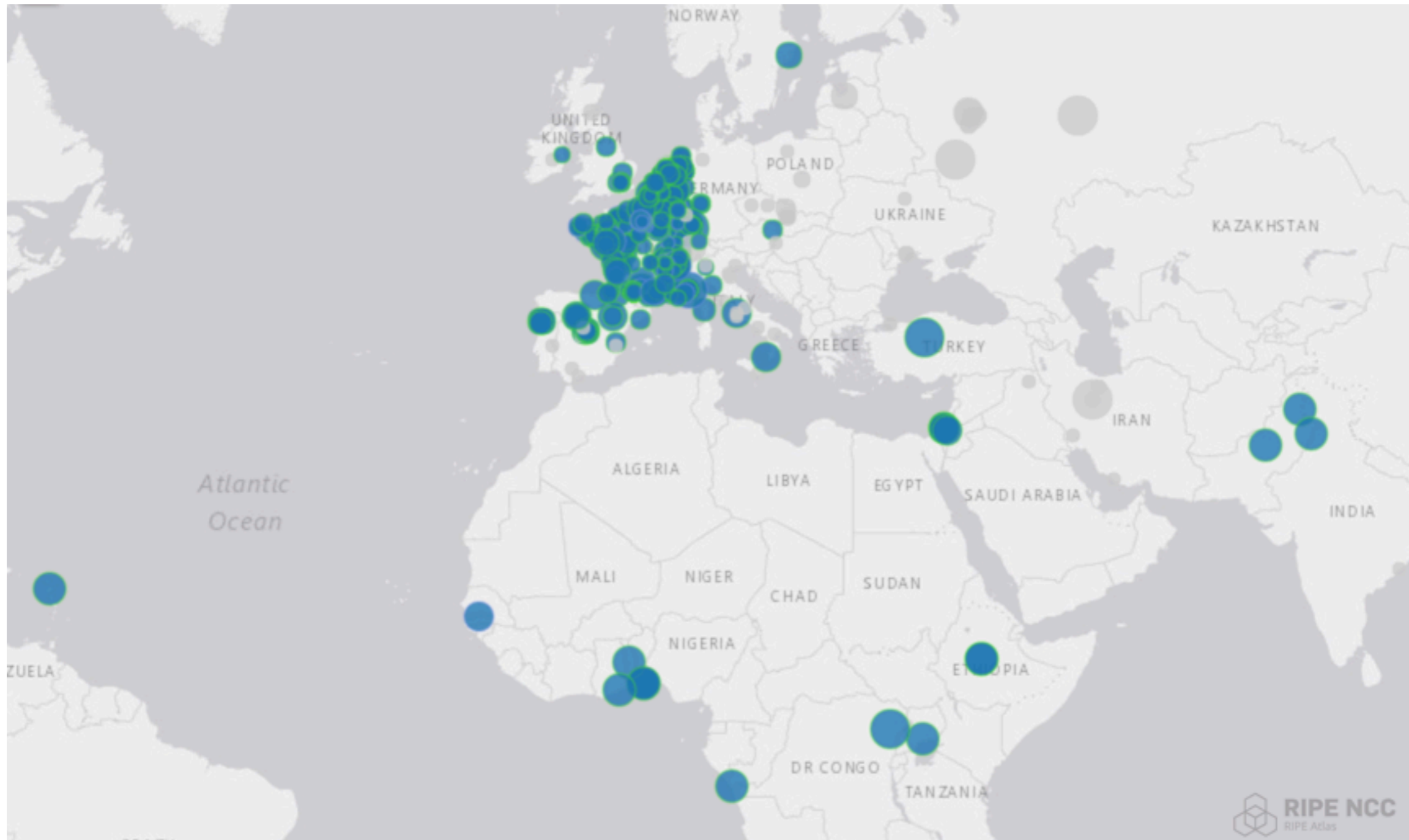


- Anycast footprint keeps growing
 - 61 instances (four new since RIPE 76)
 - Manama, Lyon, Dushanbe and Panama City
- Dushanbe - funded by RIPE NCC Community Projects Fund
- Panama City - sponsored by LACNIC

K-root en France



French K-root Nodes' Footprint



K-root Capacity improvements



- We are continuing to upgrade core sites to 10G
- RIPE NCC board has approved the proposal for a new 100G site
 - Planning and deployment will happen after RIPE 76
 - This will help us with the planning and budget for similar sites in 2019

Contributing Data for Research



- DITL 2018
 - PCAP files from K-root and AS112 node uploaded to DNS OARC
 - Researchers can access this data after signing an agreement with DNS OARC
- Root zone KSK roll-over
 - Hourly uploads of trust anchor signalling data to ICANN (RFC 8145)

Zone Transfers over IPv6



- RIPE NCC provides secondary DNS service to, and receives secondary DNS service from various organisations
- We use IPv6 exclusively for transfers to and from the following:
 - APNIC, ARIN, LACNIC, ICANN and ISC's secondary name service (SNS)
- For AFRINIC, we still have IPv4 fallback, but it's temporary. We hope to switch to IPv6 exclusively once they do some upgrades

DNSSEC Signer Replacement



- Community feedback about non-HSM based solutions has been favourable
- We are still evaluating various solutions
 - Knot DNS
 - PowerDNS
 - Secure64's x86 signer (based on Knot DNS)
- We aim to complete our replacement by the end of this year

Zonemaster GUI



- Zonemaster does pre-delegation checks before domain objects can be created or updated in the RIPE Database
- The GUI at <https://zonemaster.ripe.net> lets users run pre- and post-delegations tests
- We will move this functionality into RIPEstat within the next two months



Questions



anandb@ripe.net