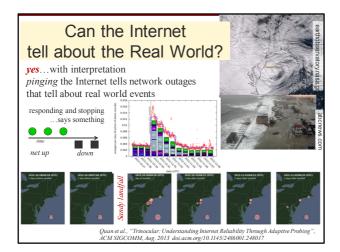
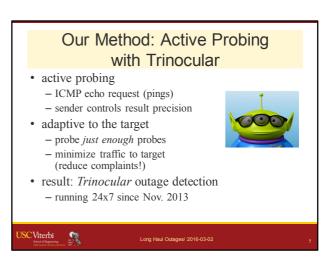
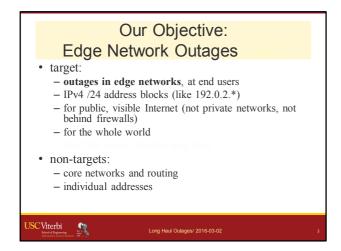
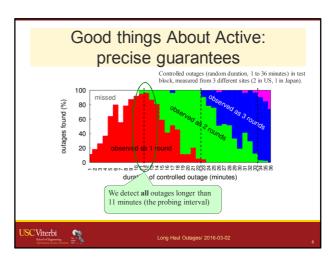


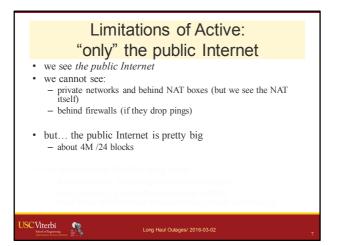
## Our Objective: Edge Network Outages, 24x7 • target: - outages in edge networks, at end users - IPv4 /24 address blocks (like 192.0.2.\*) - for public, visible Internet (not private networks, not behind firewalls) - for the whole world - 24x7 for years—for the long haul • non-targets: - core networks and routing - individual addresses











## Bad Things About Active: they see you • because you probe them, they see you • 24x7 • responses - "you're making my Internet slow" - stop DDoS'ing me • or "stop [curseword] me, you [curseword]" • => implication for the long haul - people will drop your traffic - our response: look for "gone dark" networks • (not real outages!) - and an opt-out list with canned responses

