Radio Quiet Zones in China



Haiyan Zhang, Zhijun Chen, Jianbin Li, Bin Li, Maozheng Chen, Yingxi Zuo, Min Wang

Introduction Fooilities in China



RAS Facilities in China

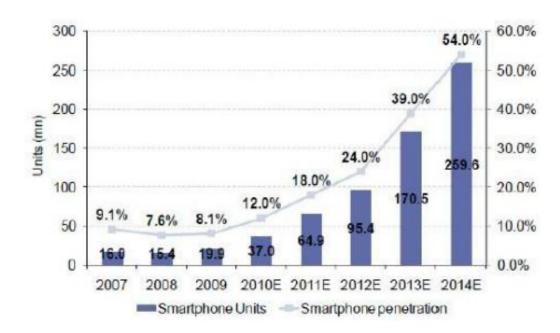


RAS protection in China



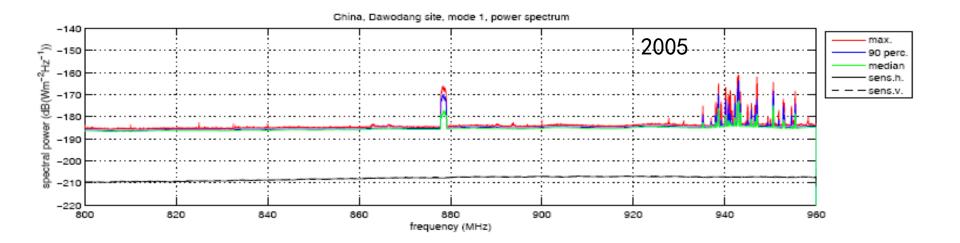
Goal: Protect RAS from radio frequency interference

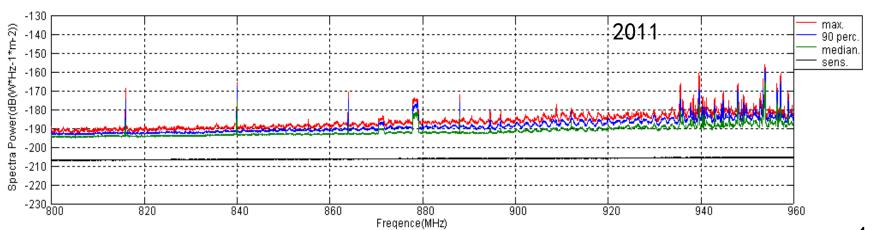
- **✓** Radio quiet zone
- **✓** EMC on site (telescope, observatory)
- ✓ RFI mitigation



FAST site radio environment measurements

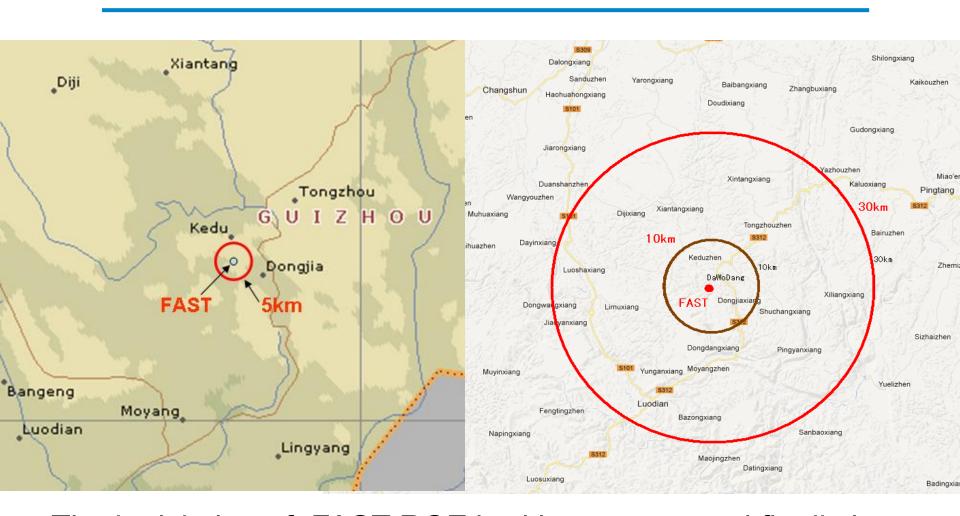






Radio Quiet Zone around FAST





The legislation of FAST RQZ had been approved finally by Guizhou government in June 2013

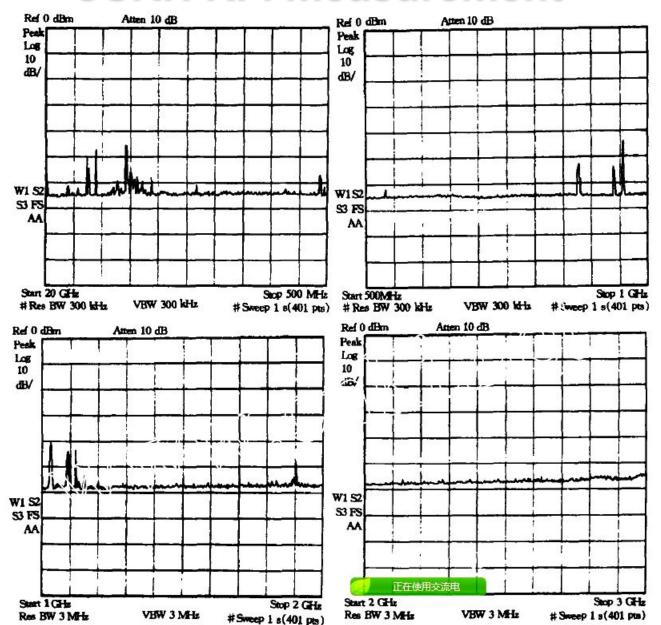
Chinese Spectral Radio Heliograph (CSRH)





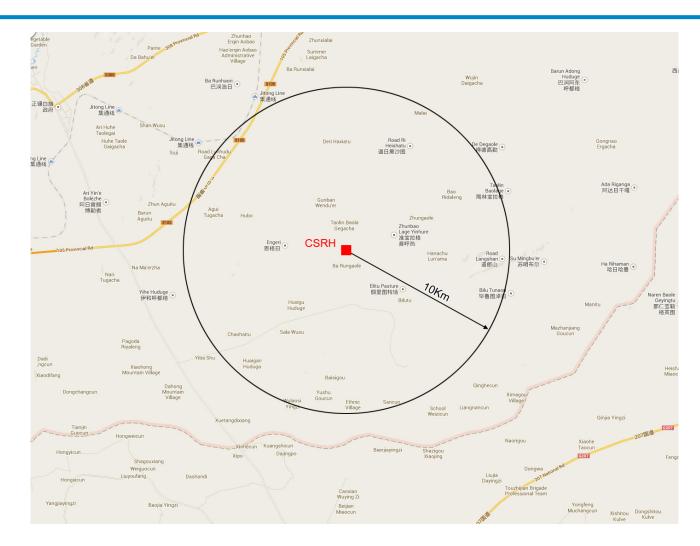
CSRH RFI measurement





Radio Quiet Zone around CSRH





The administrative regulation of CSRH RQZ had been approved by Inner Mongolia spectrum management office in 2008

Tianma Radio Telescope (TMRT)

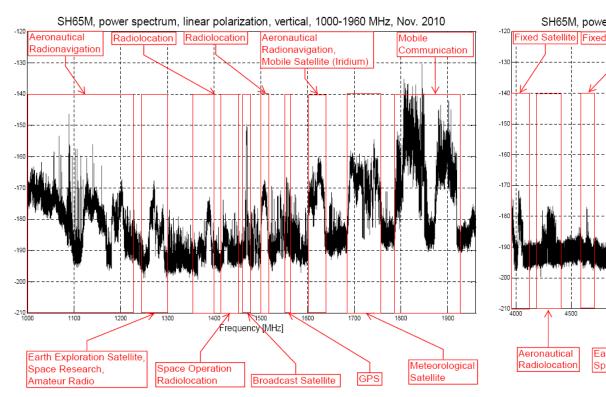


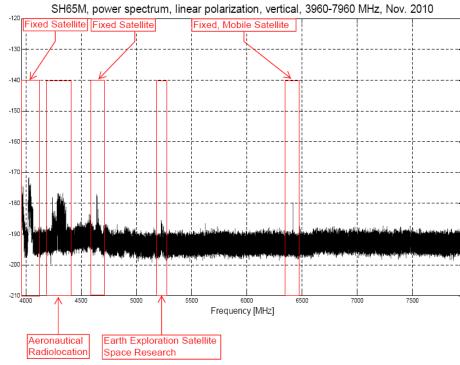


Tianma 65 meter radio telescope near Shanghai had been successfully performed the testing observations in October 2012

TMRT RFI measurement

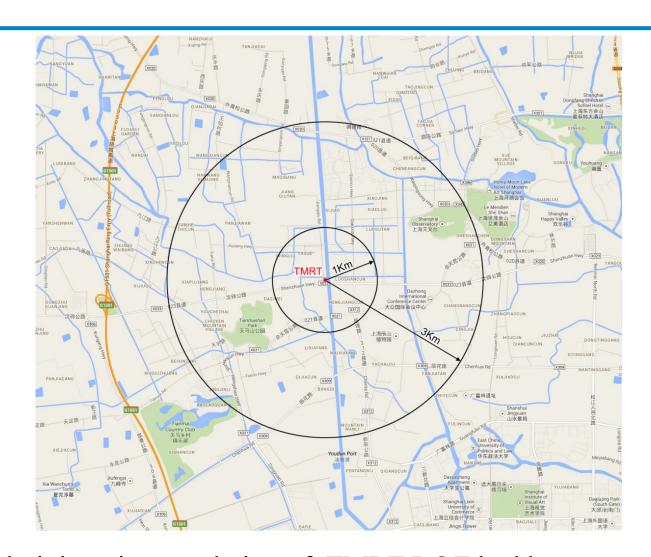






Radio Quiet Zone around TMRT

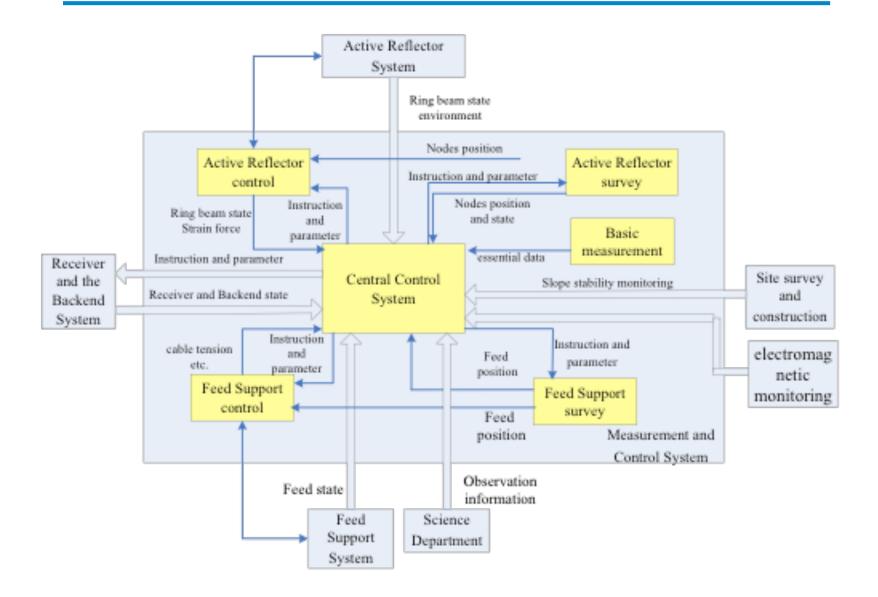




The administrative regulation of TMRT RQZ had been approved finally by Shanghai spectrum management office in 2011

Central Control System





Future works



- ✓ Coordination on Agenda items of WRC15
- Radio Quiet Zone
- Coordination with active services
- ✓ Collaboration closely on the joint research on EMC issues and RFI mitigation



