



The Fjord Crossing Project

Pushing the boundaries
for long-span bridges

Tor Martin Lystad

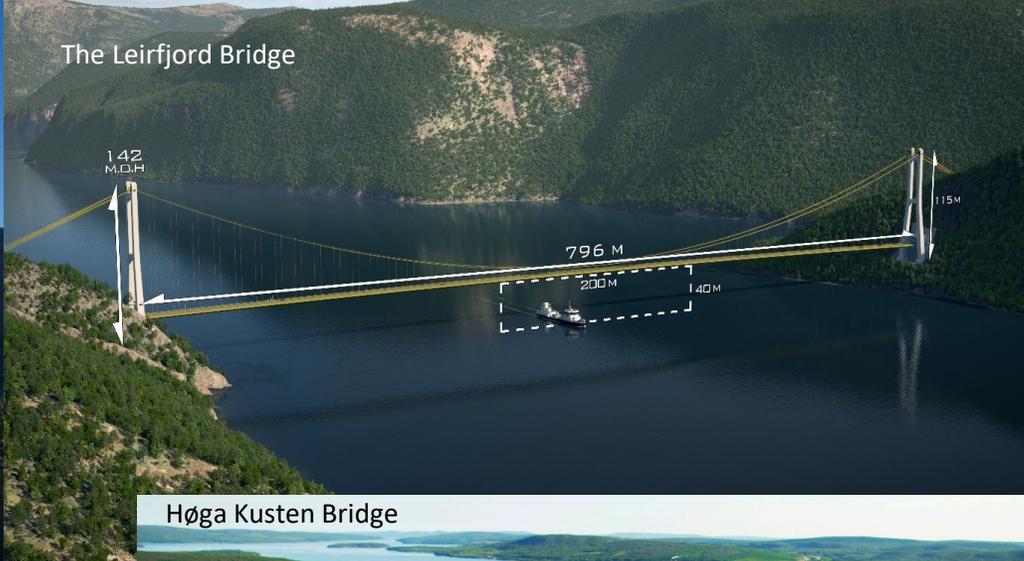
- 8 years in Norconsult AS, Bridge department
- Industrial Ph.D candidate
 - Norconsult AS
 - Norwegian University of Science and Technology (NTNU)



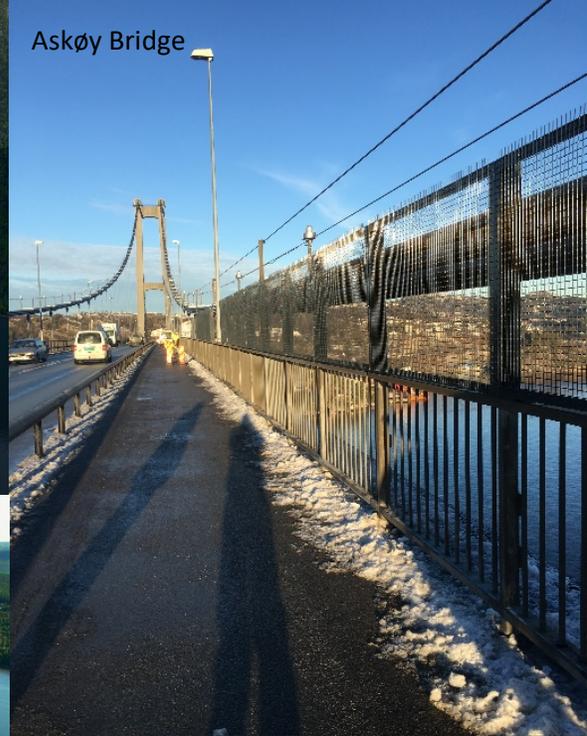
Hardanger Bridge



The Leirfjord Bridge



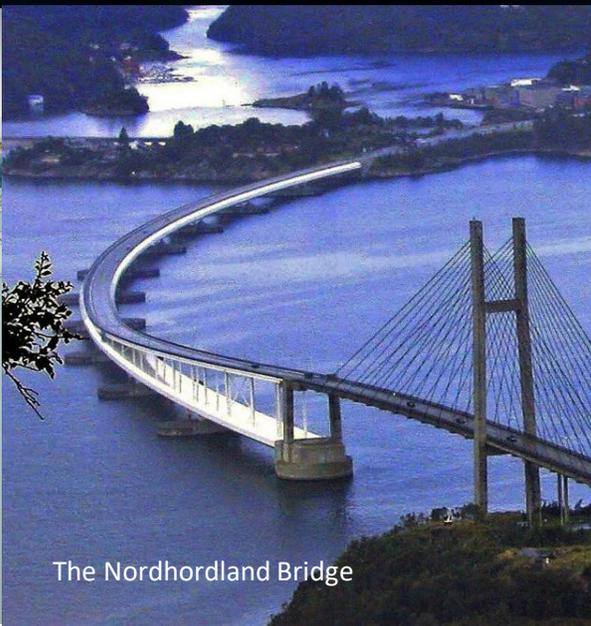
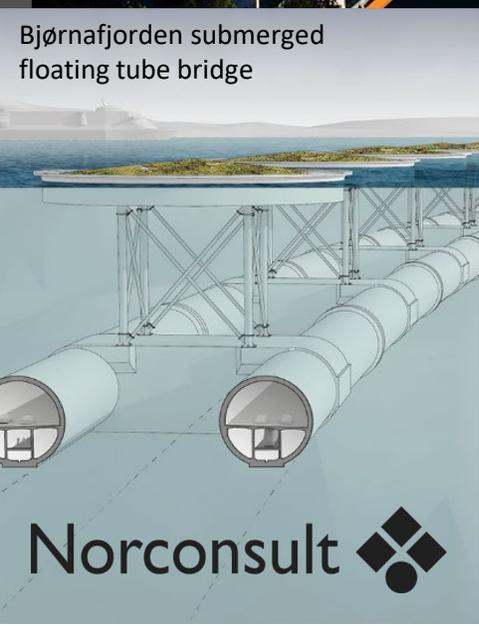
Askøy Bridge



Høga Kusten Bridge



Bjørnafjorden submerged floating tube bridge



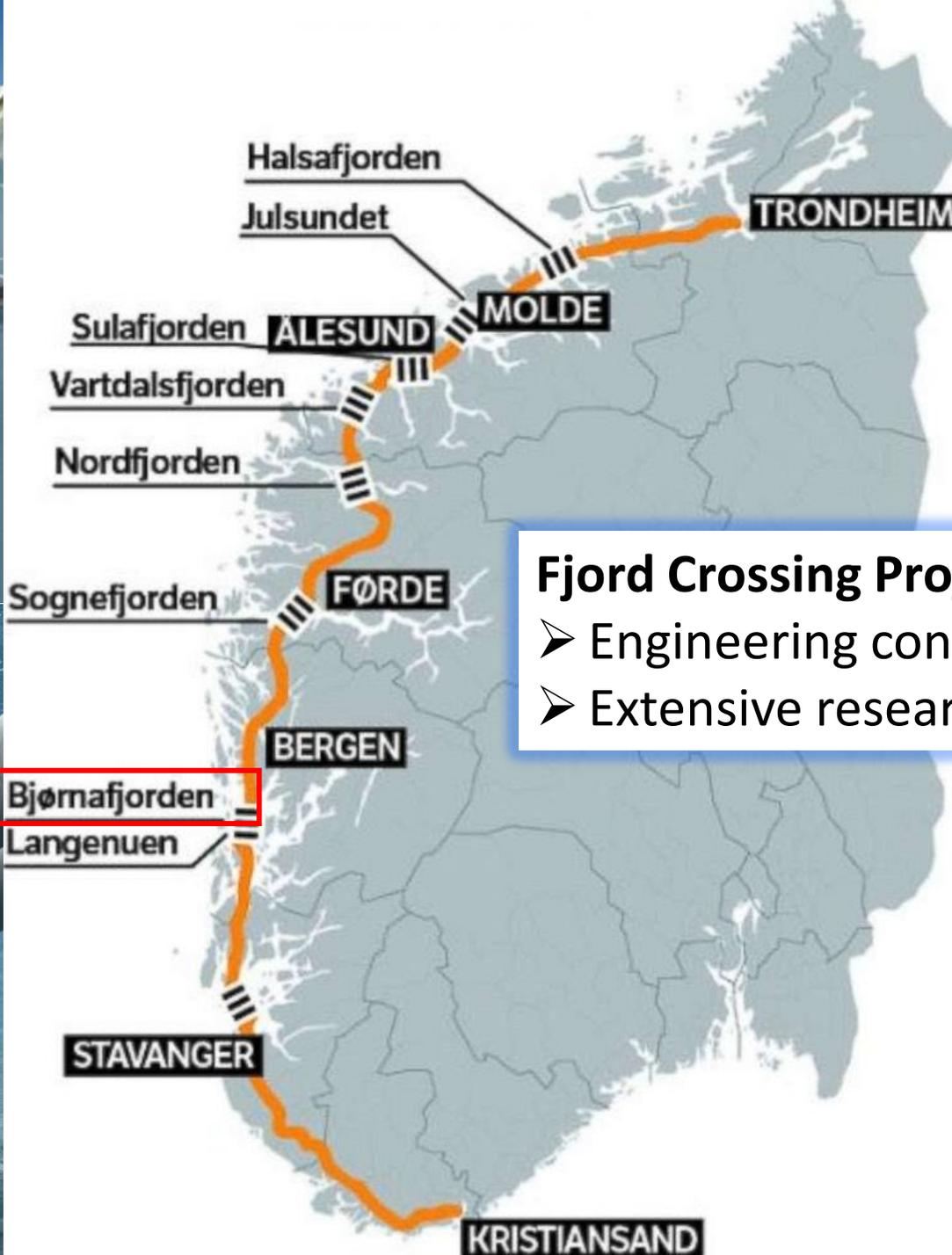
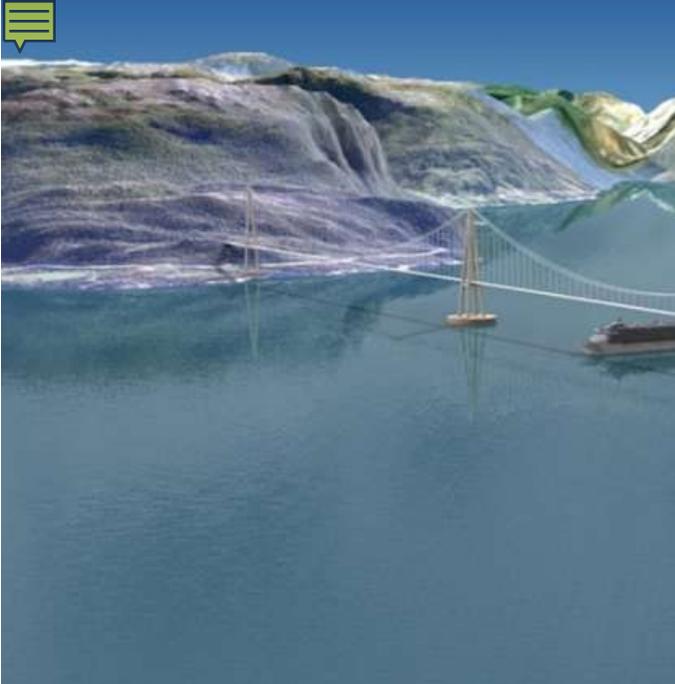
The Nordhordland Bridge

Trysfjorden Bridge



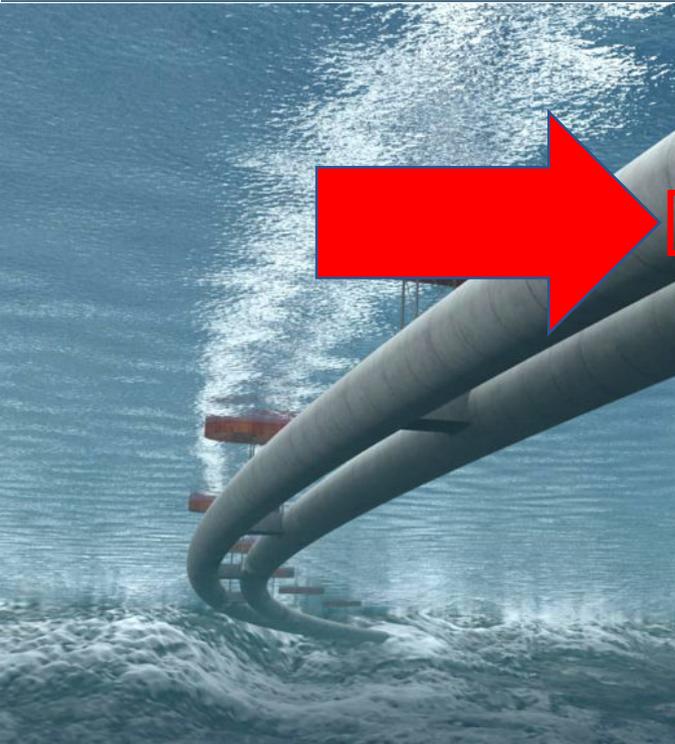
Bjørnafjorden Floating Bridge

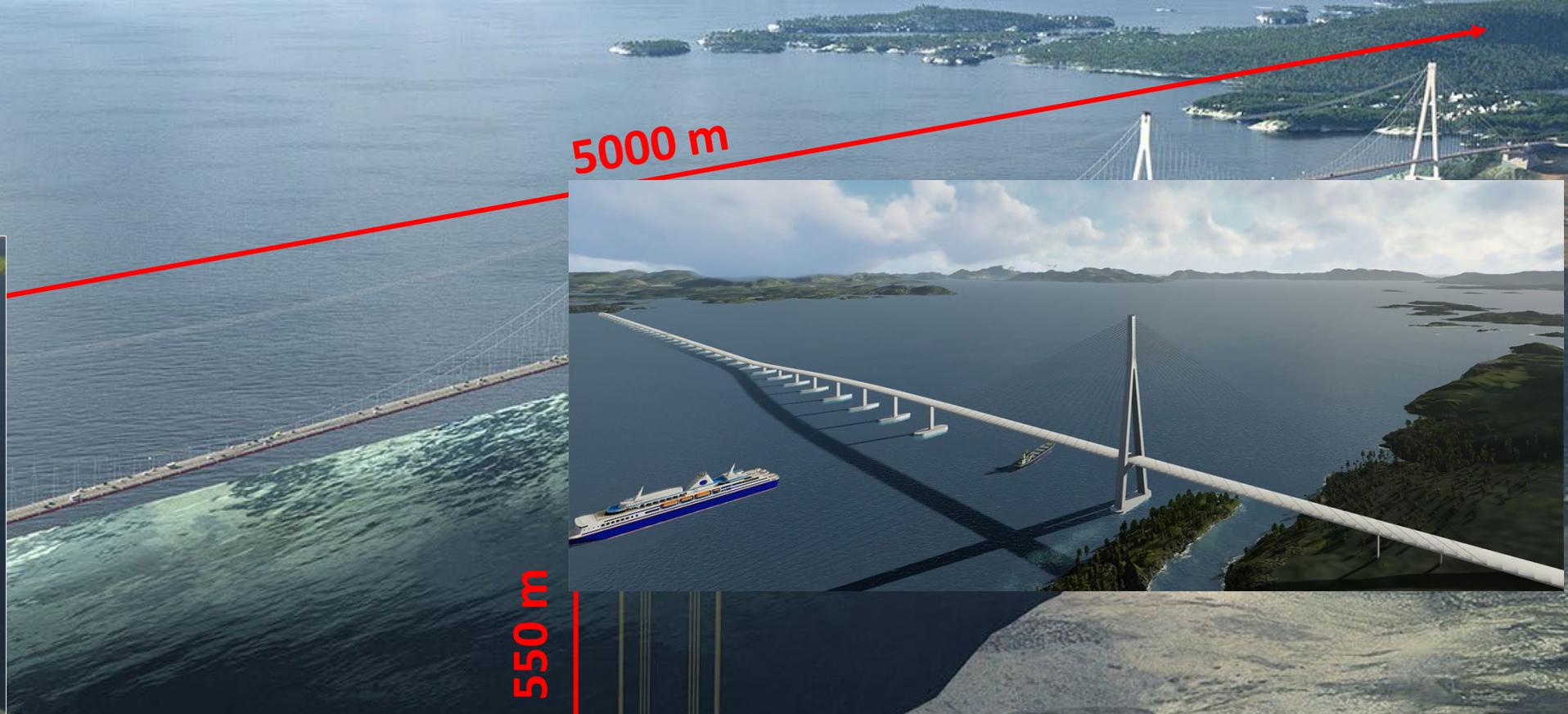




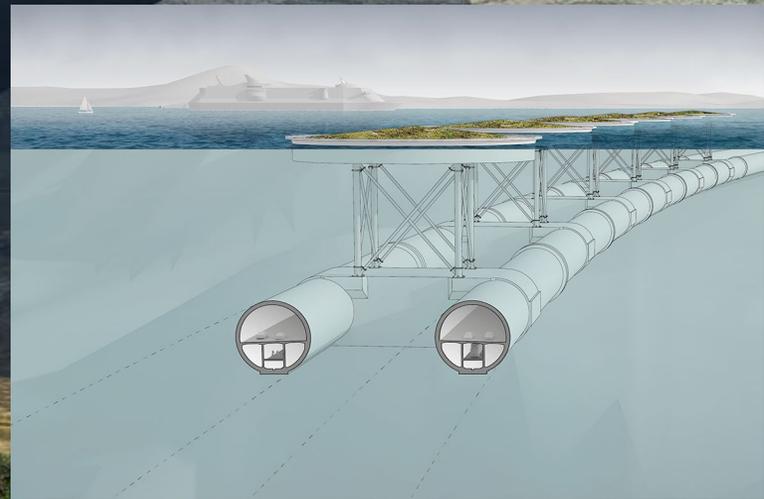
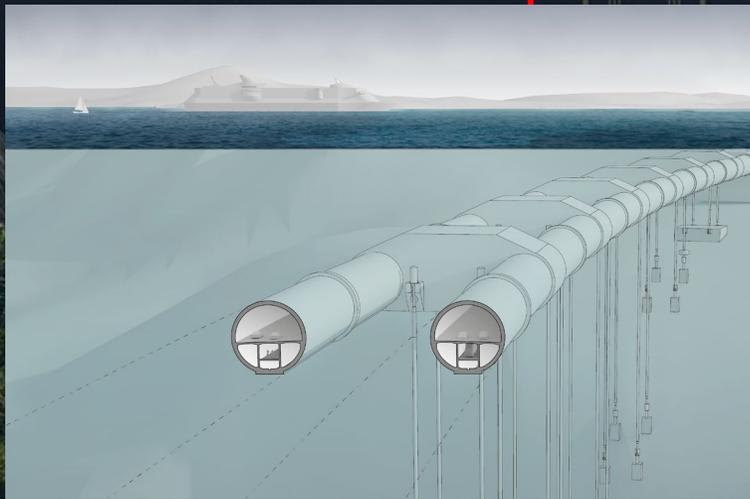
Fjord Crossing Project

- Engineering consultant companies
- Extensive research activity





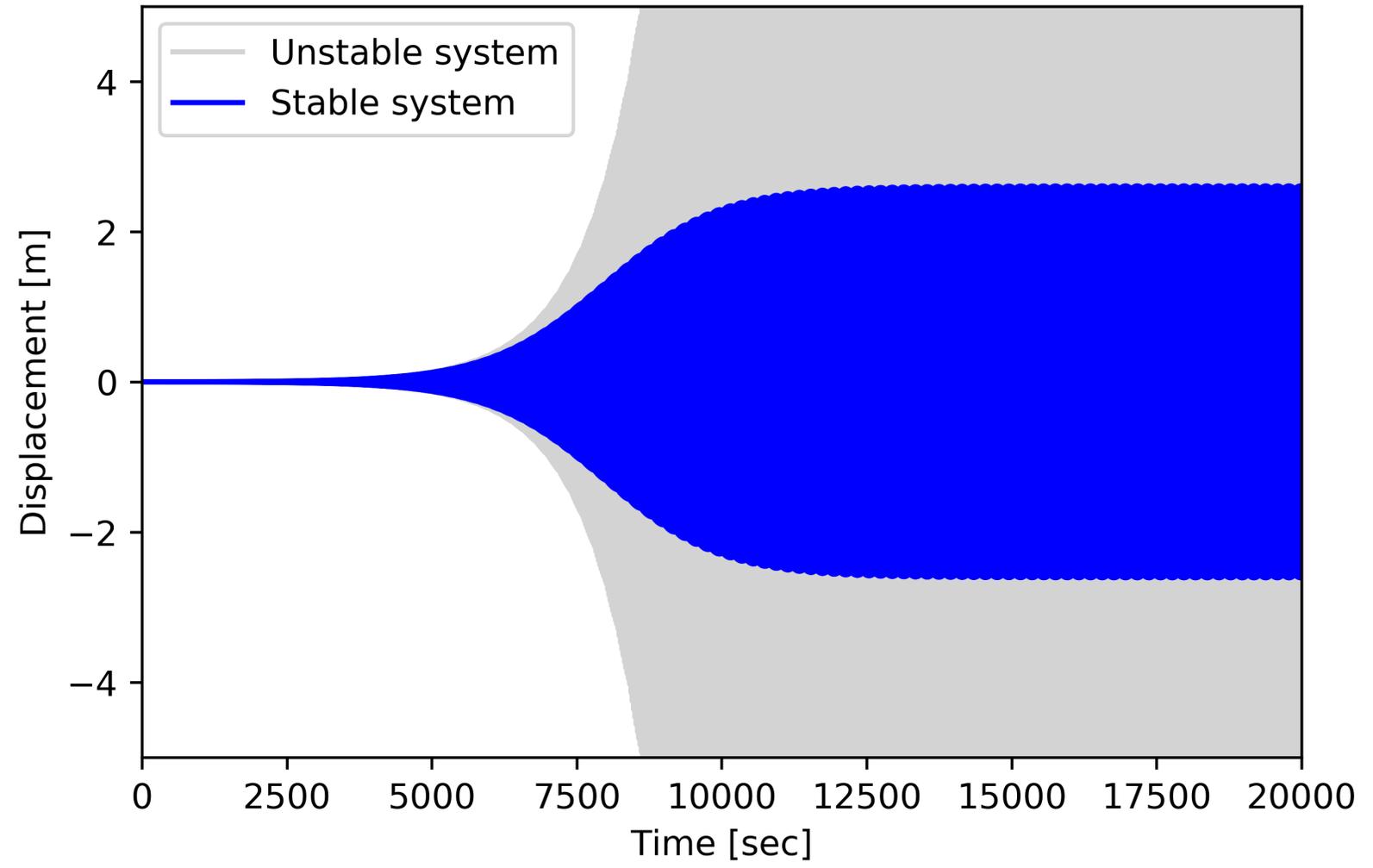
550 m

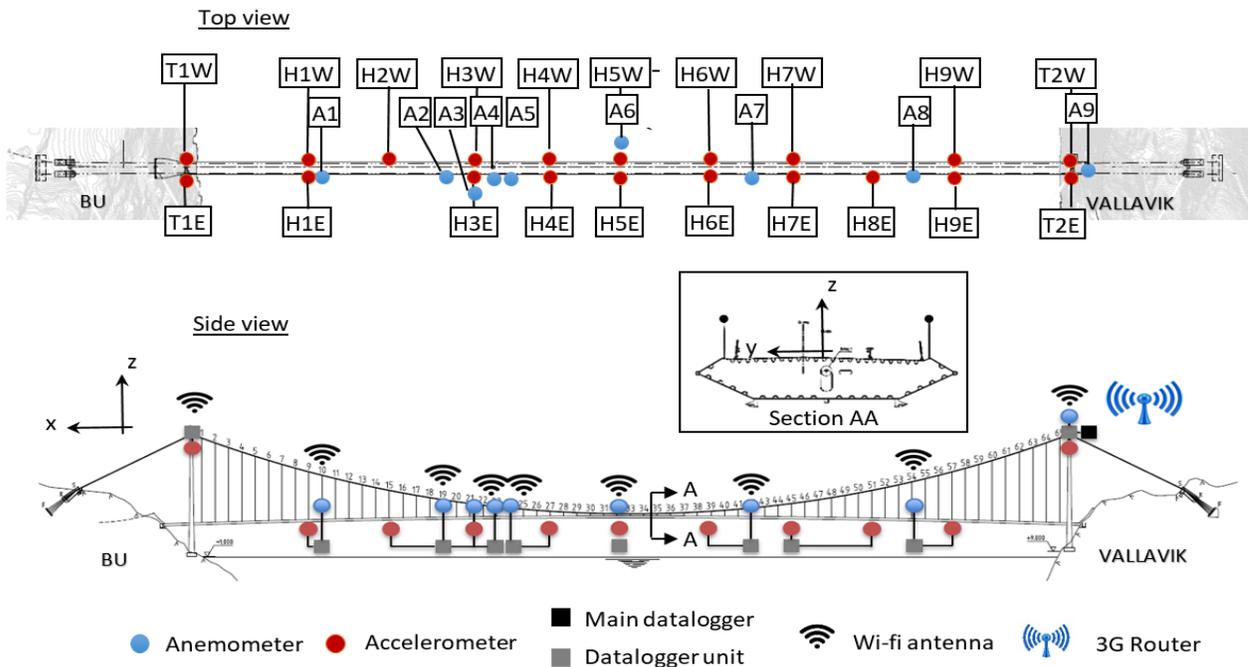


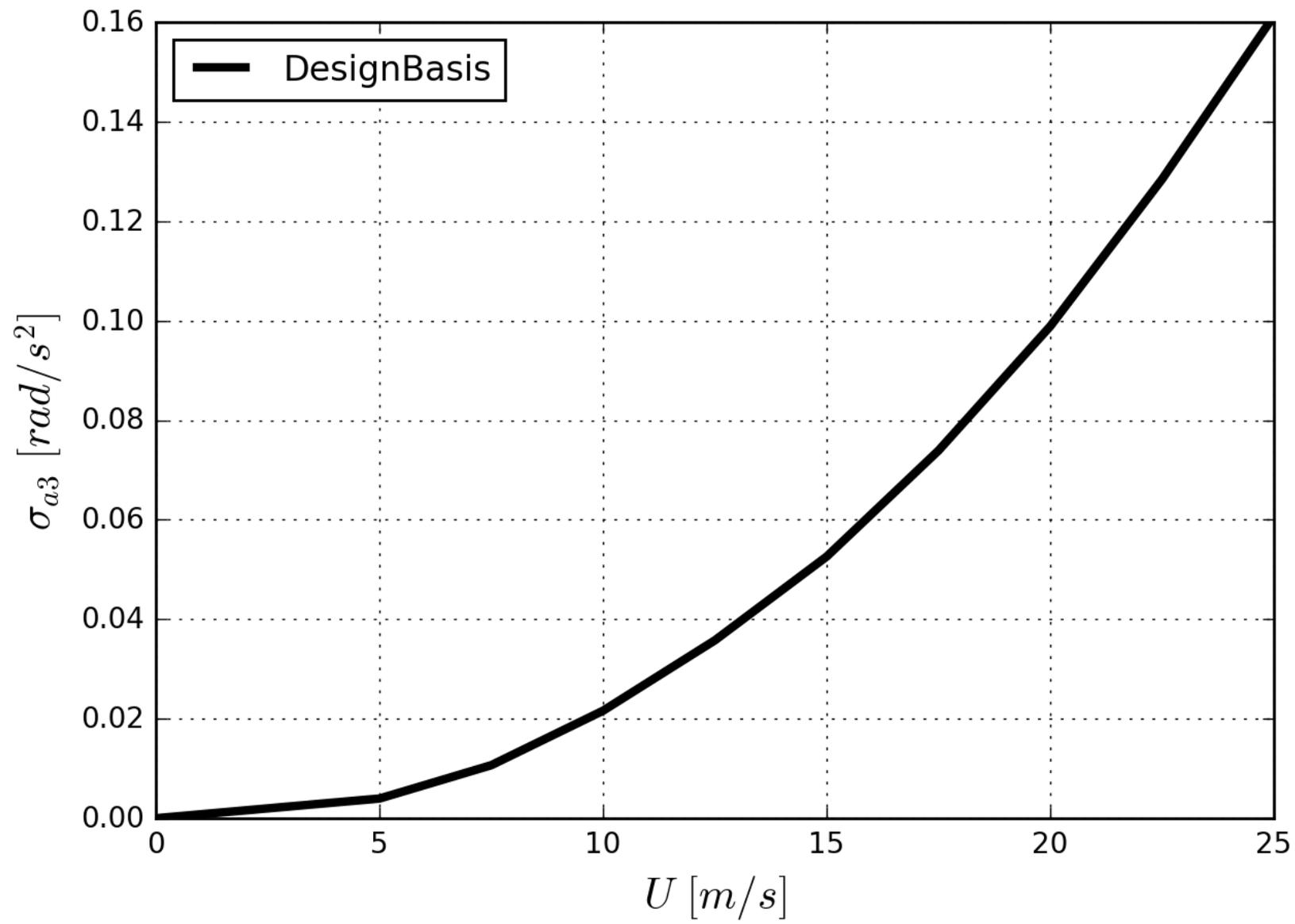


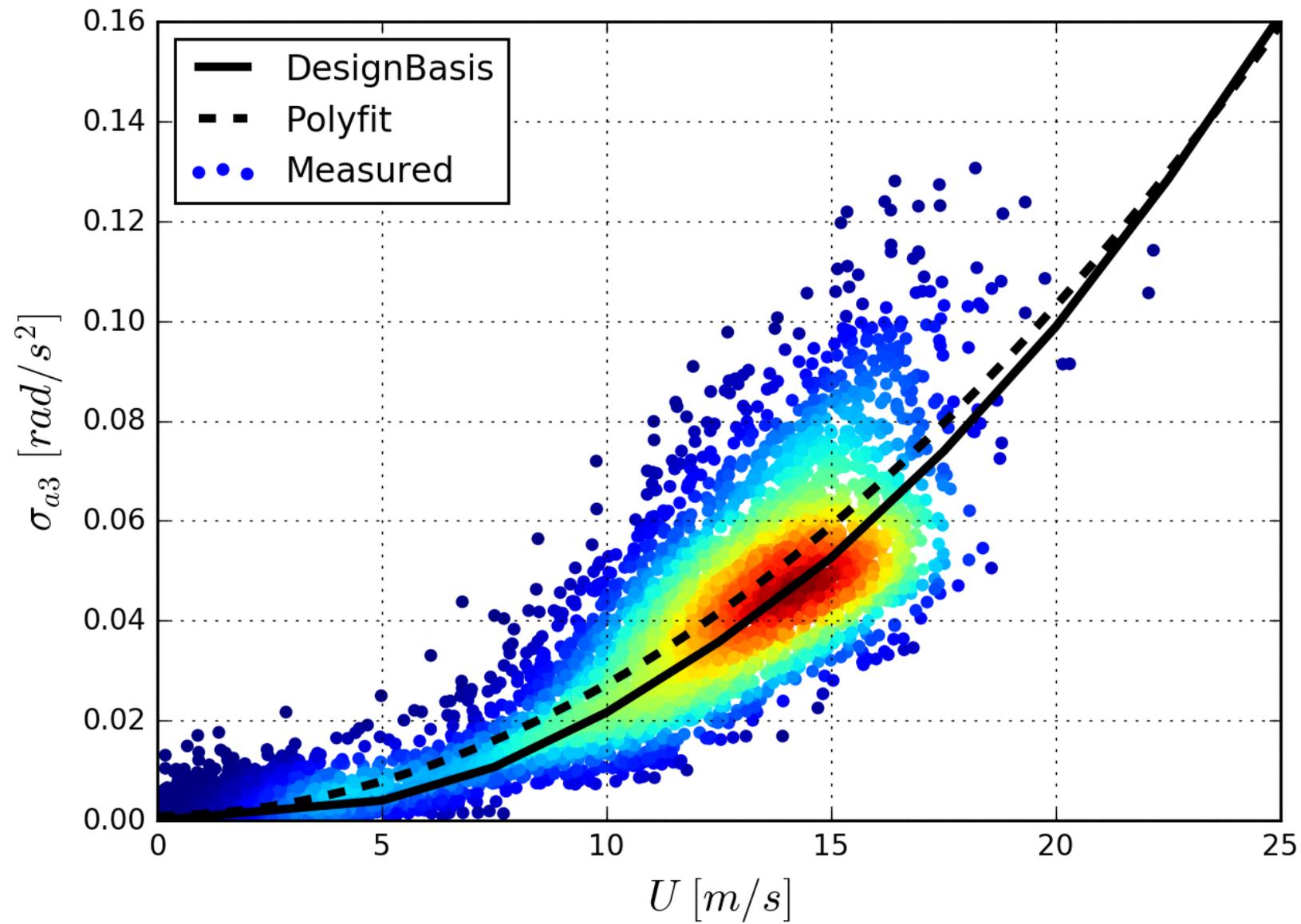


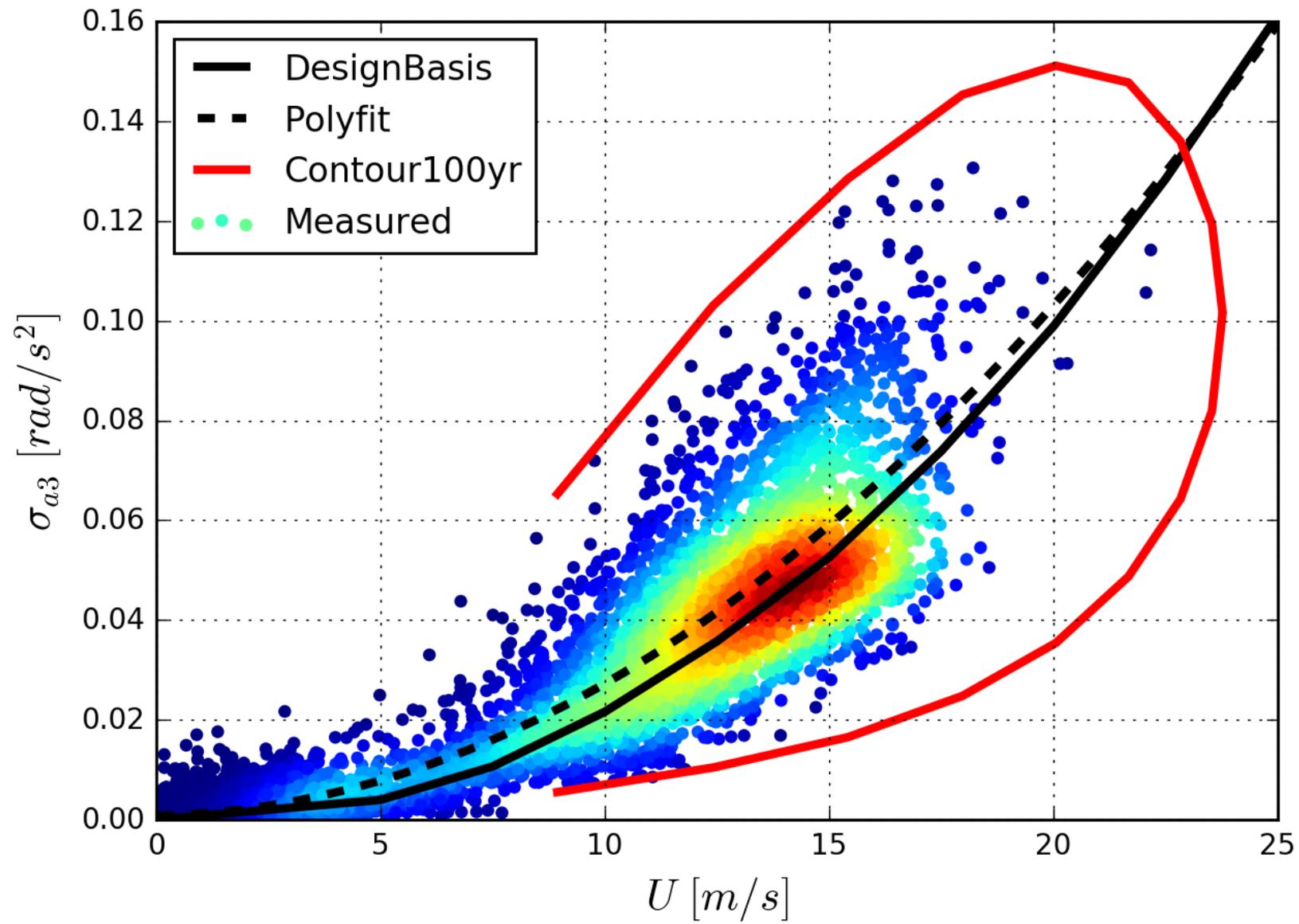
$$M \ddot{x}(t) + C \dot{x}(t) + C_{quad,red} |\dot{x}(t)| \dot{x}(t) + K(t)x(t) = 0$$











Thank you!



Norconsult 