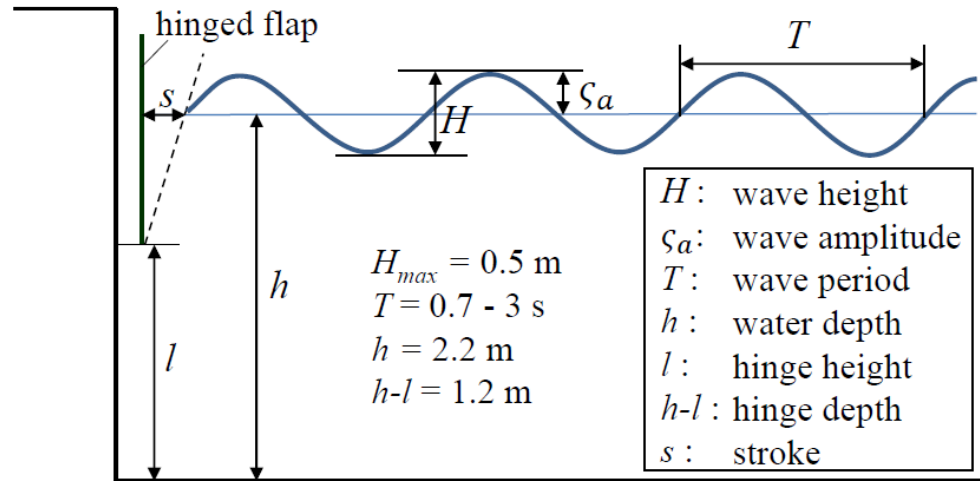
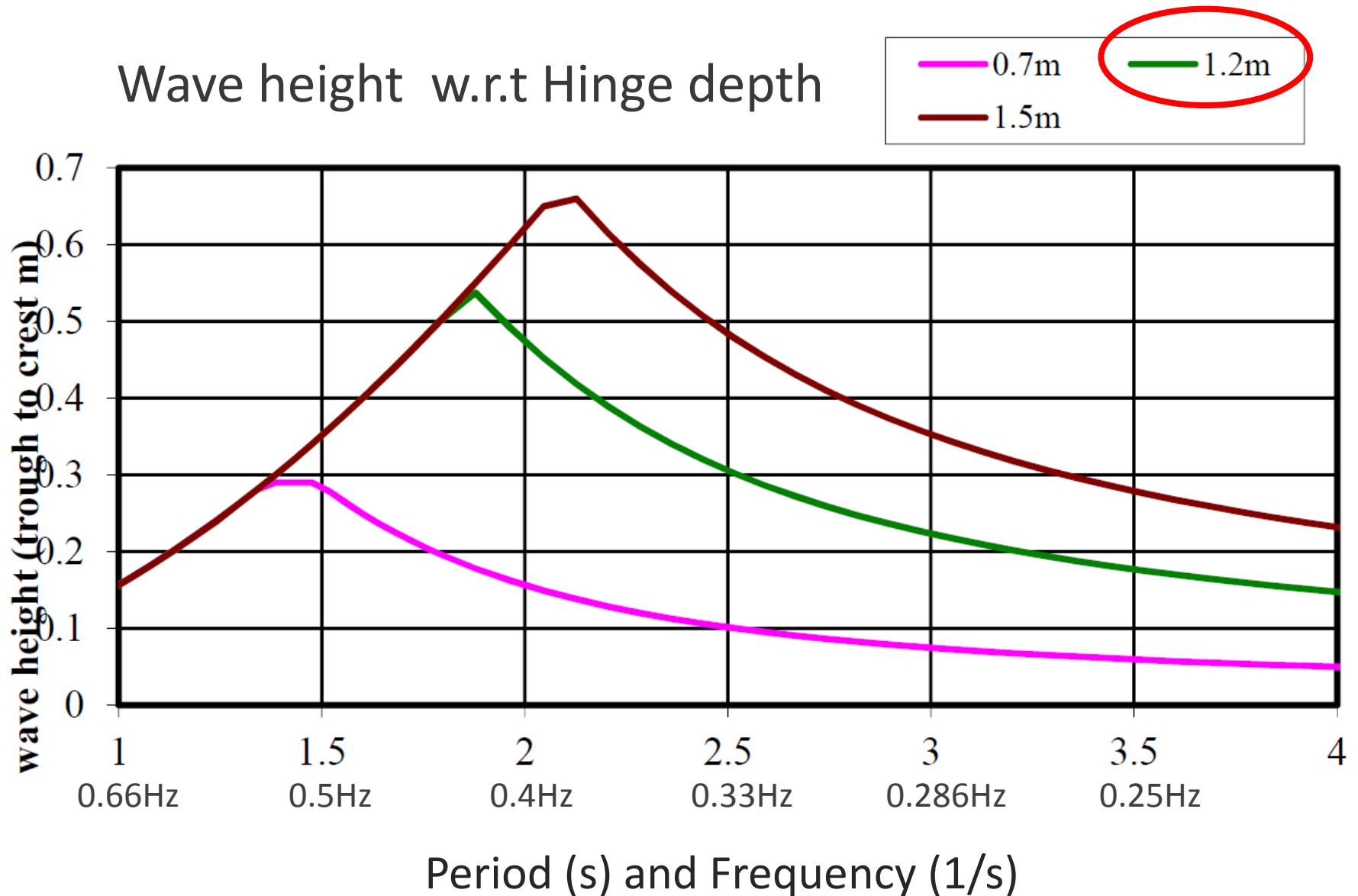


- Regular/irregular wave spectra
- Absorption of reflective waves using 6 hinged flaps
- $h = 2.2$  meters
- $H_{\max} = 0.5$  meters  
(extreme weather, scale 1:100)
- $H_{@T=2.2s} = 0.4$  meters  
(100year storm, scale 1:50)
- $H_{@T=2.5s} = 0.3$  meters  
(small vessel operation, ROV/AUV)
- $H_{@T=1.4-3s} = 0.25$  meters  
(supply vessel op, energy device fatigue)
- $T_{\min} = 0.7s$
- $T_{\max} = 3s$  recommended but can go larger

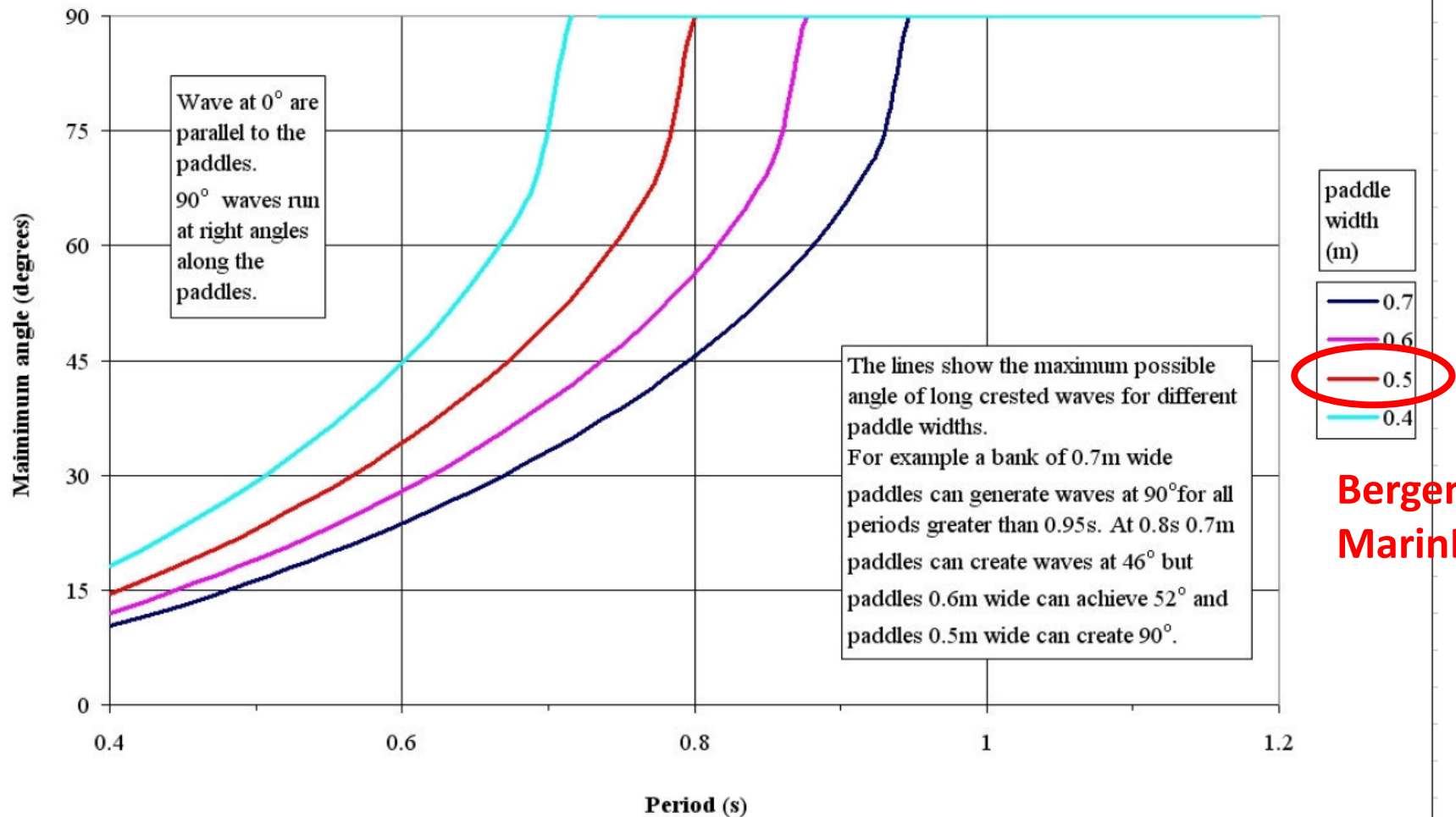


**Bergen  
MarinLab**

Wave height w.r.t Hinge depth

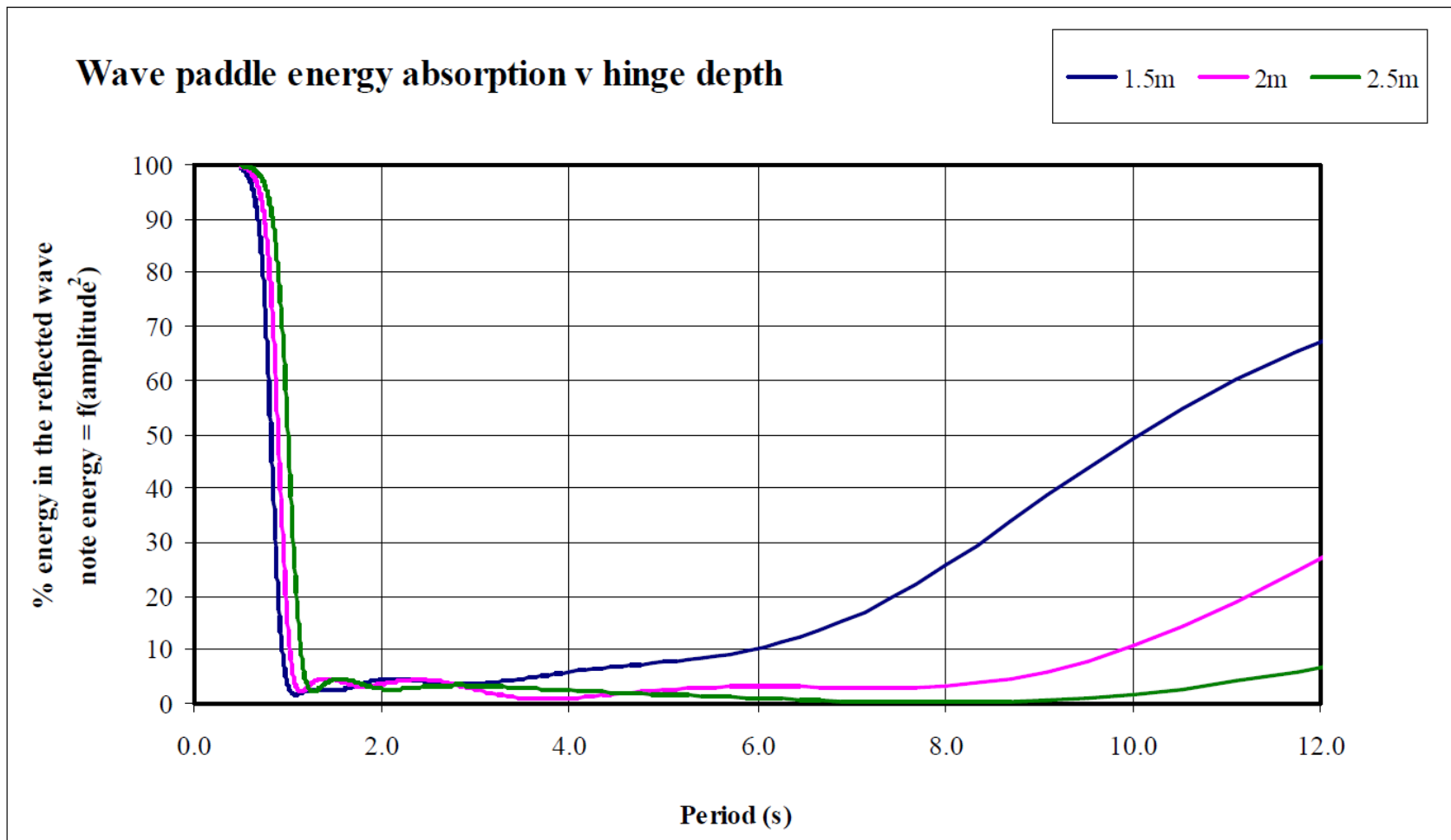


### Long crested wave angle limit for different paddle widths



Bergen  
MarinLab

Figure 3-7 Angle limit against Frequency



**Figure 3-5 Wave reflection for different hinge depth paddles**

**Bergen**  
**MarinLab -**  
Hinge depth 1.2m