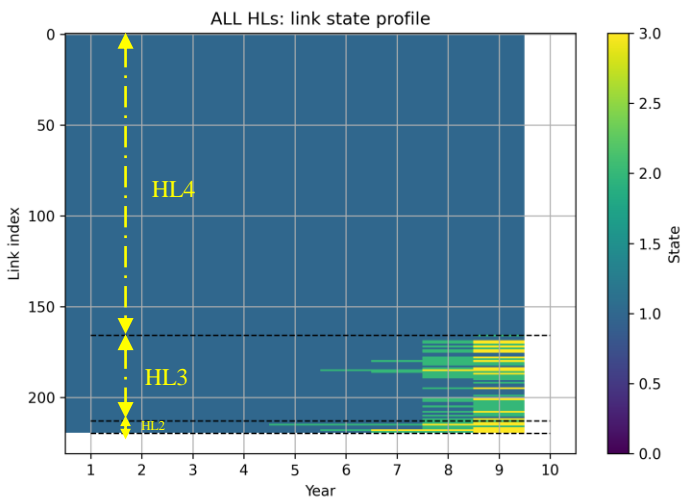
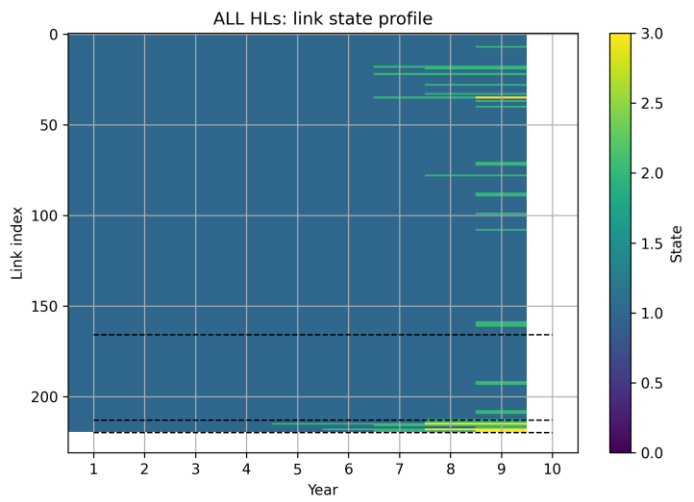


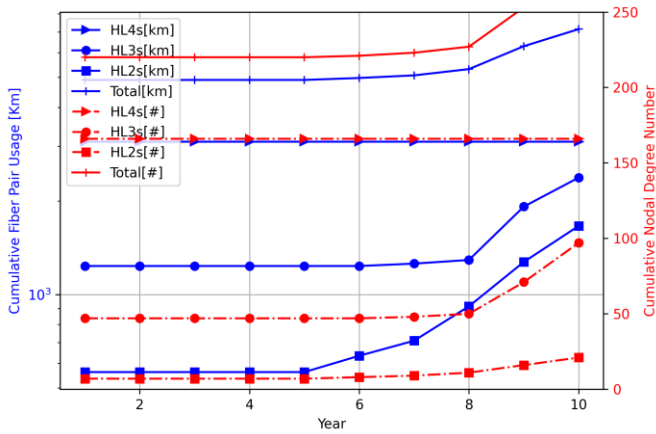
No HL3 Bypass



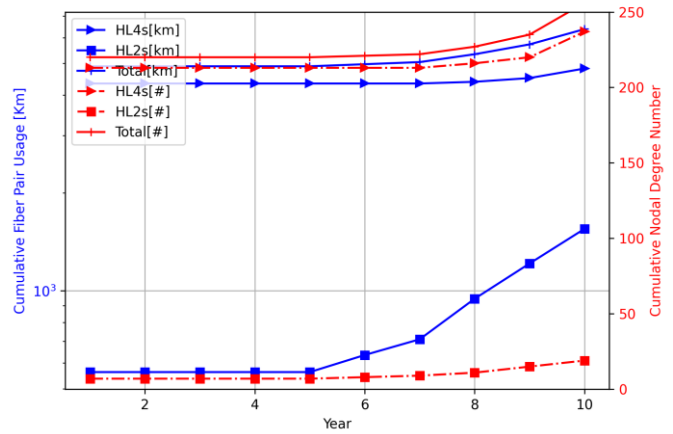
With HL3 Bypass



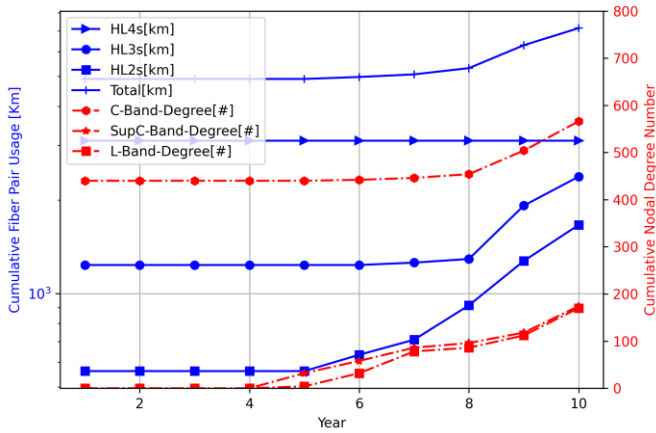
Total FP Usage [km] and [number of FP]



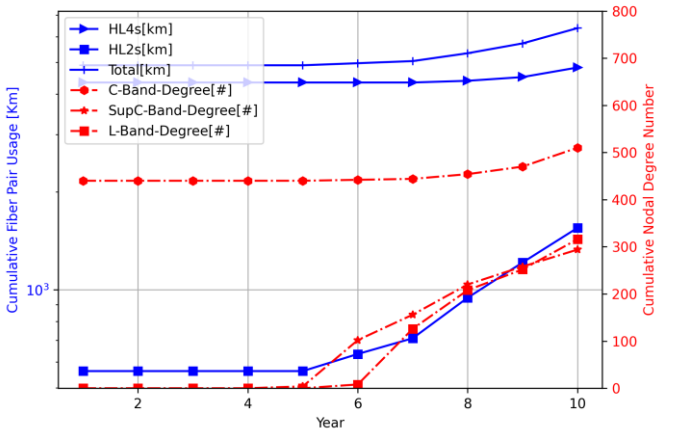
Total FP Usage [km] and [number of FP]



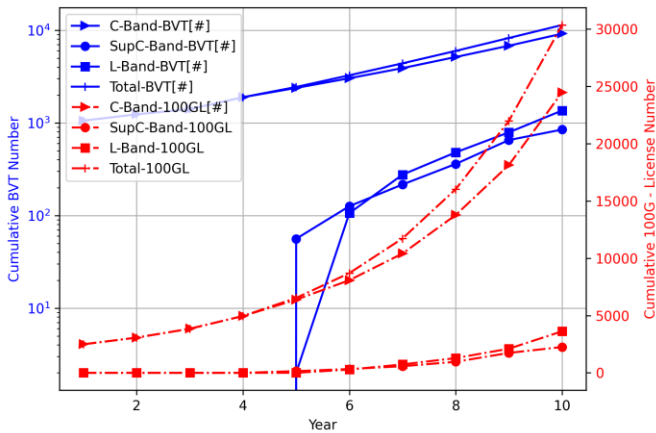
FP [km] and Degree



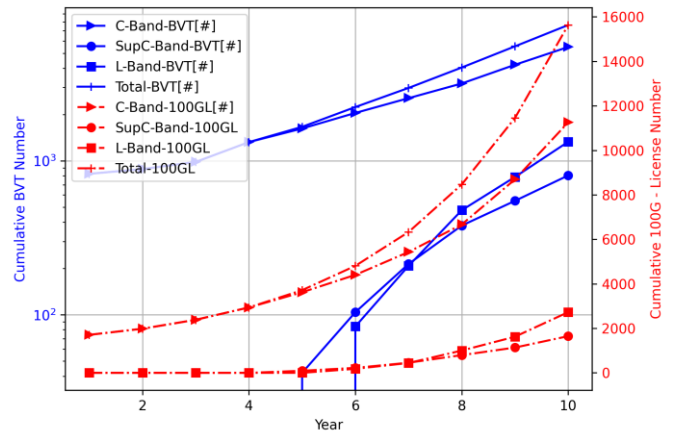
FP [km] and Degree



Total BVT and 100G-License

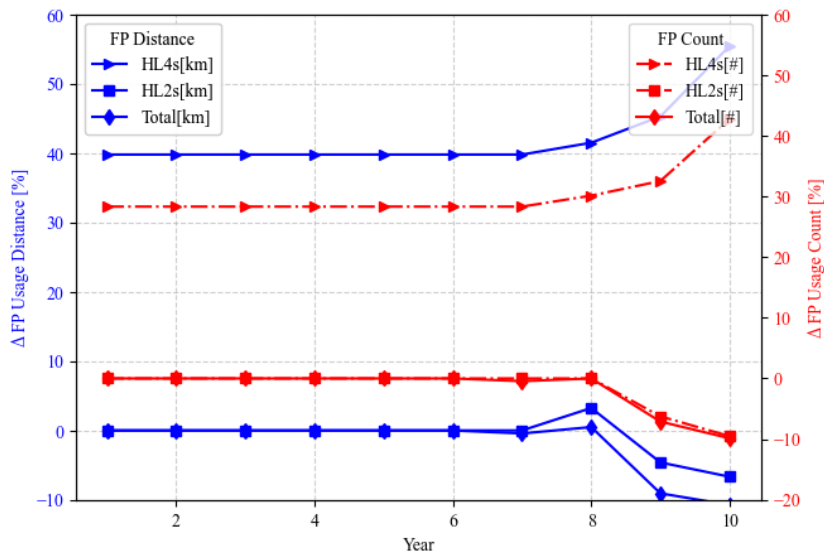


Total BVT and 100G-License

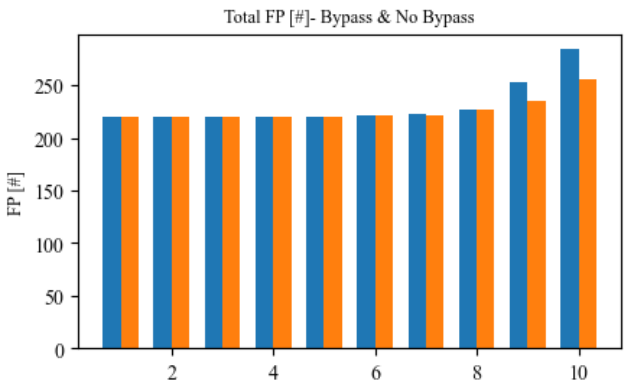
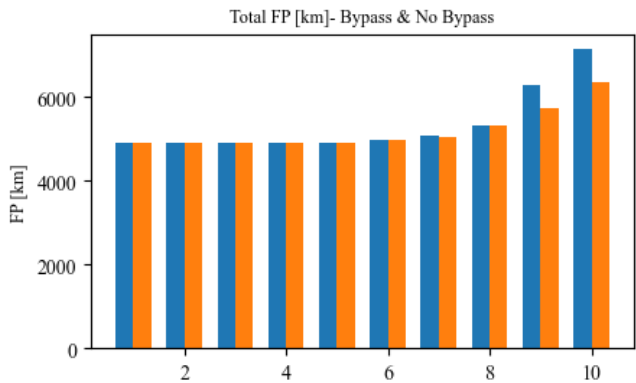
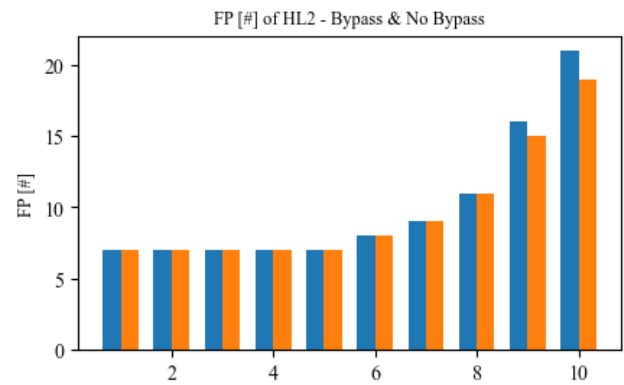
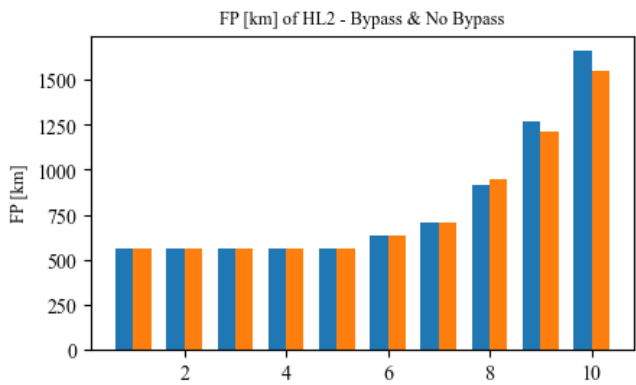
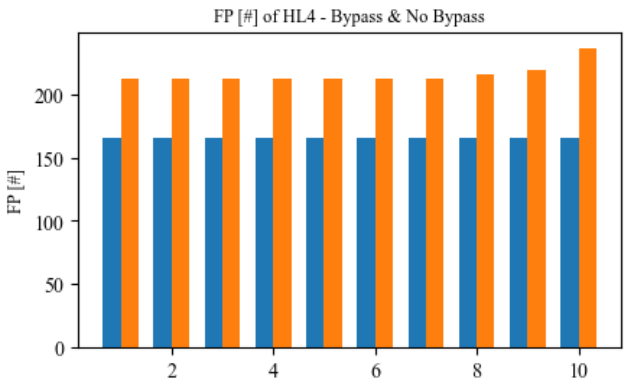
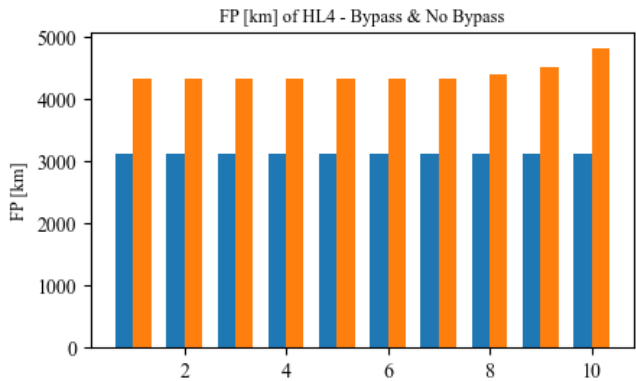


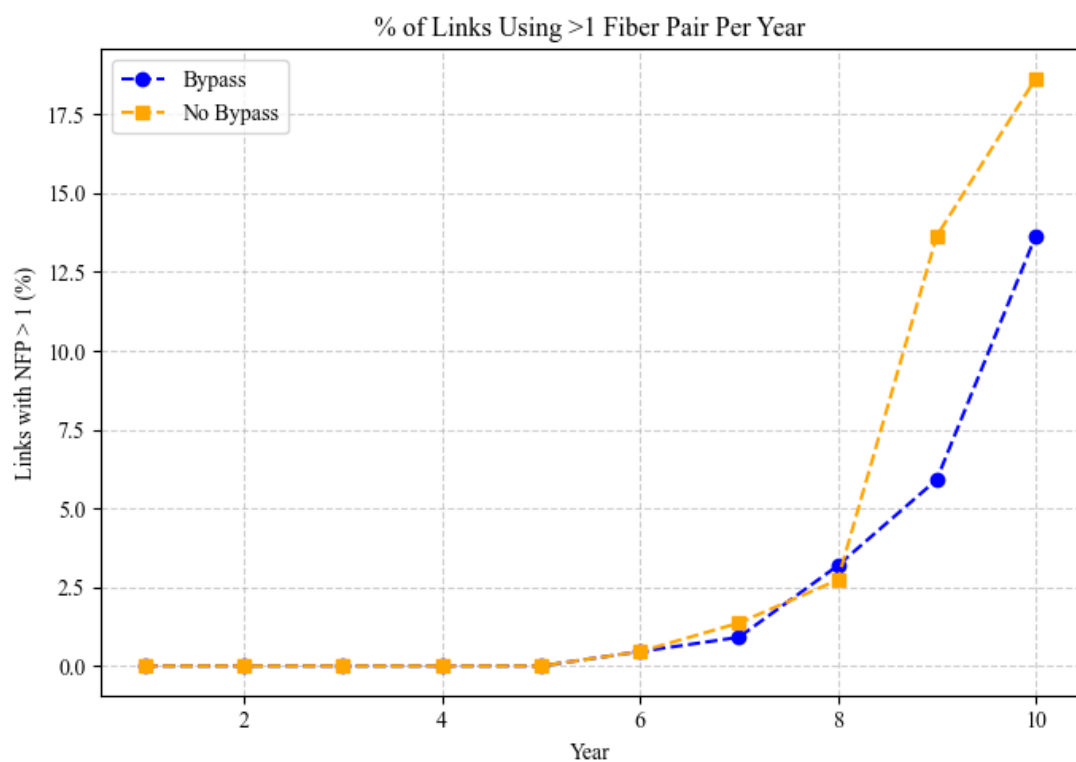
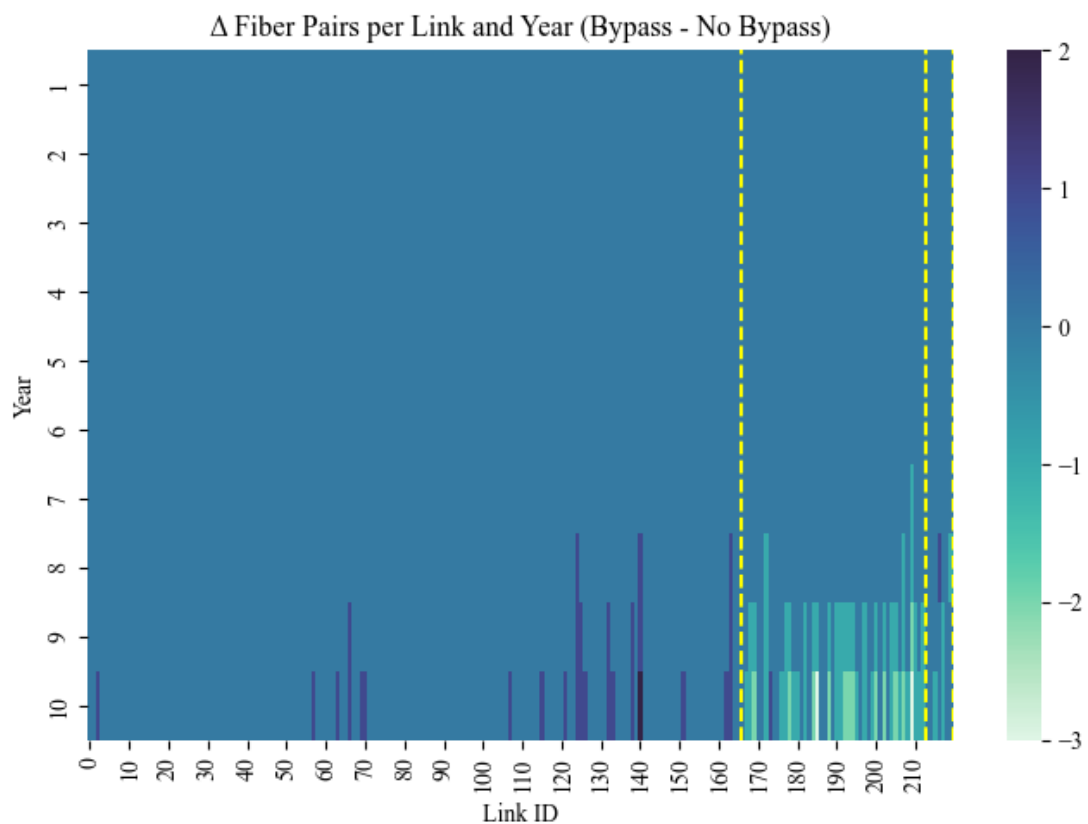
Fiber Usage

Relative Difference in FP Usage [km] and [#] – Bypass vs No Bypass

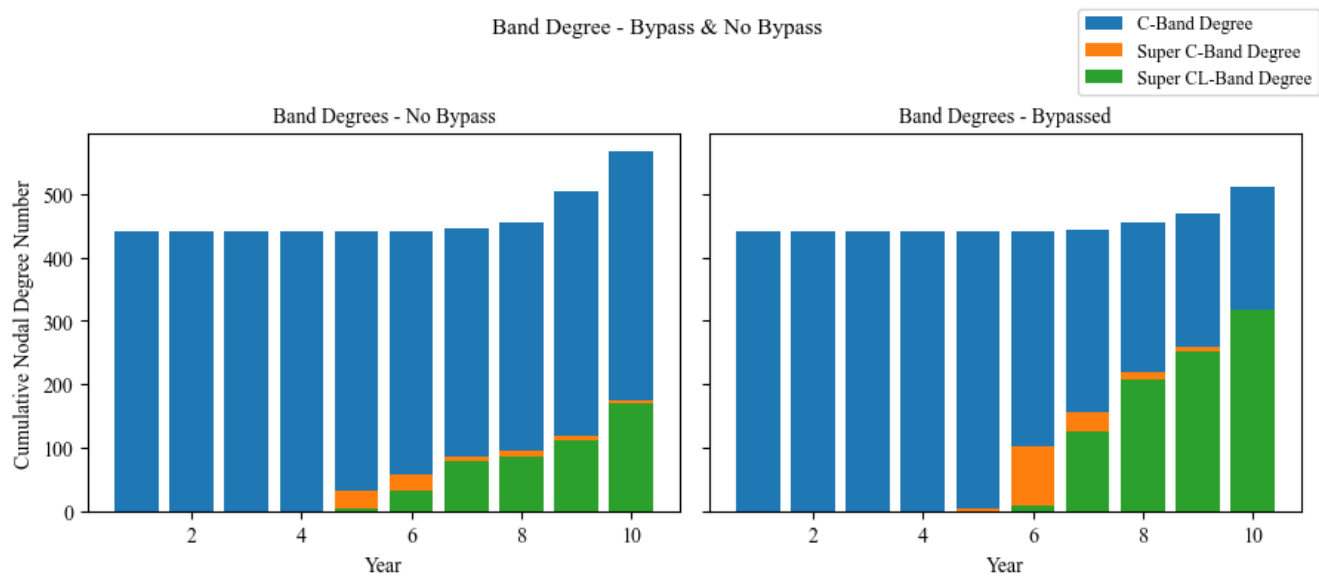
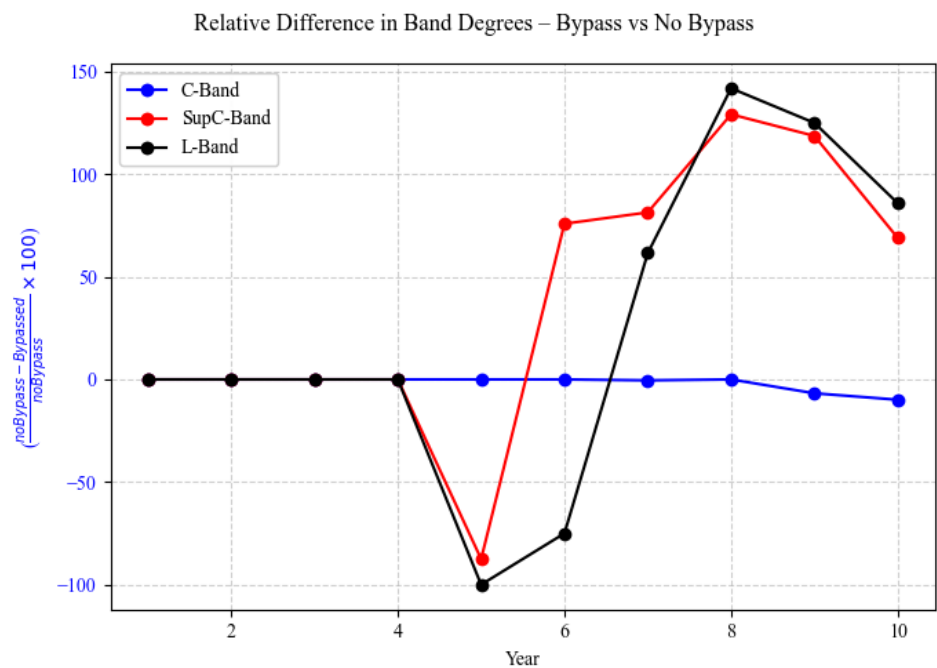


FP Usage Difference Between Bypass and No Bypass



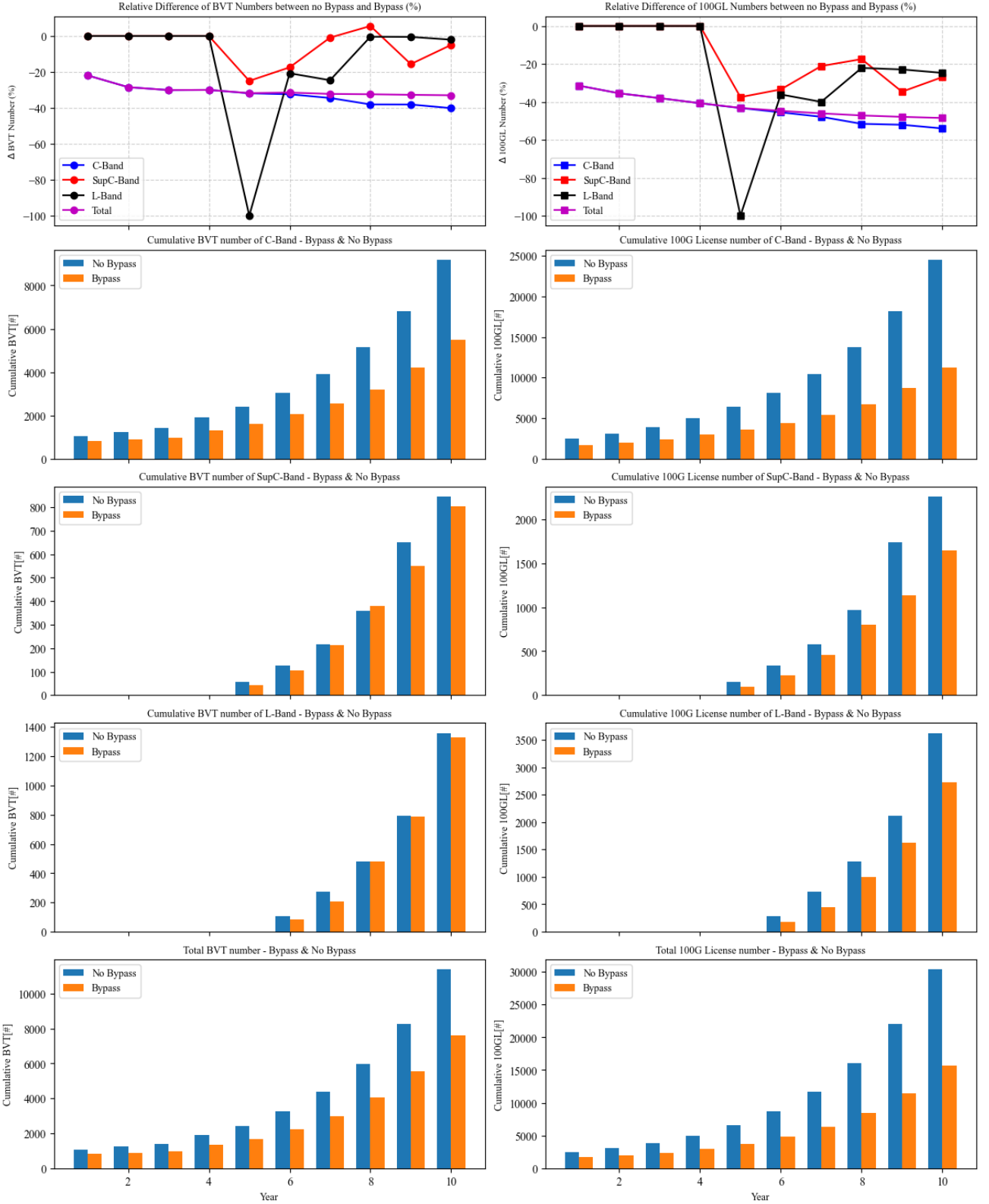


Band Degree

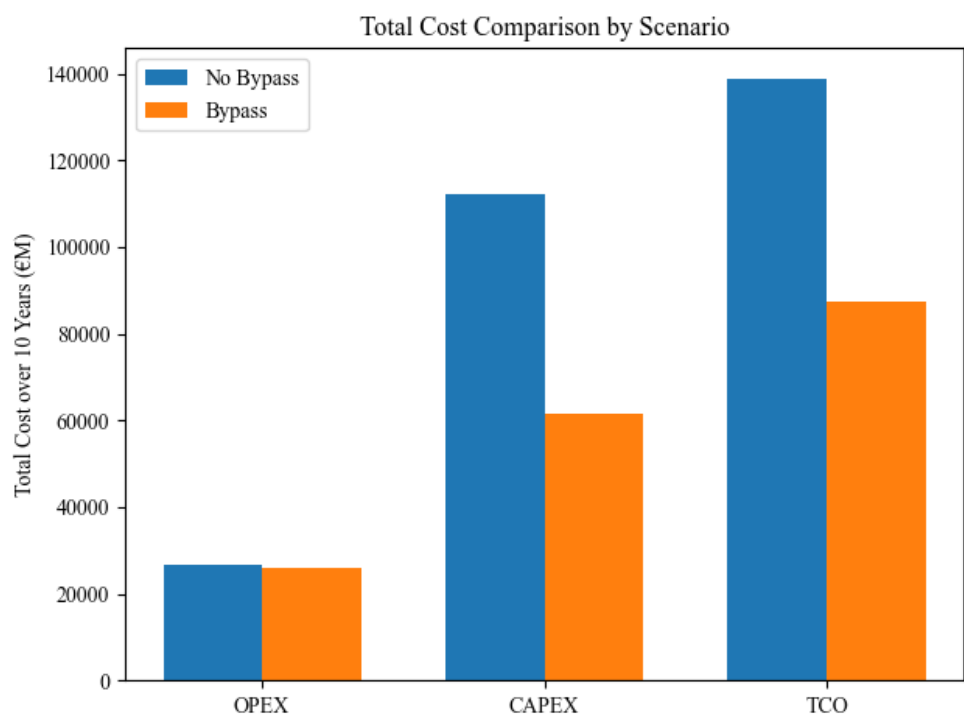
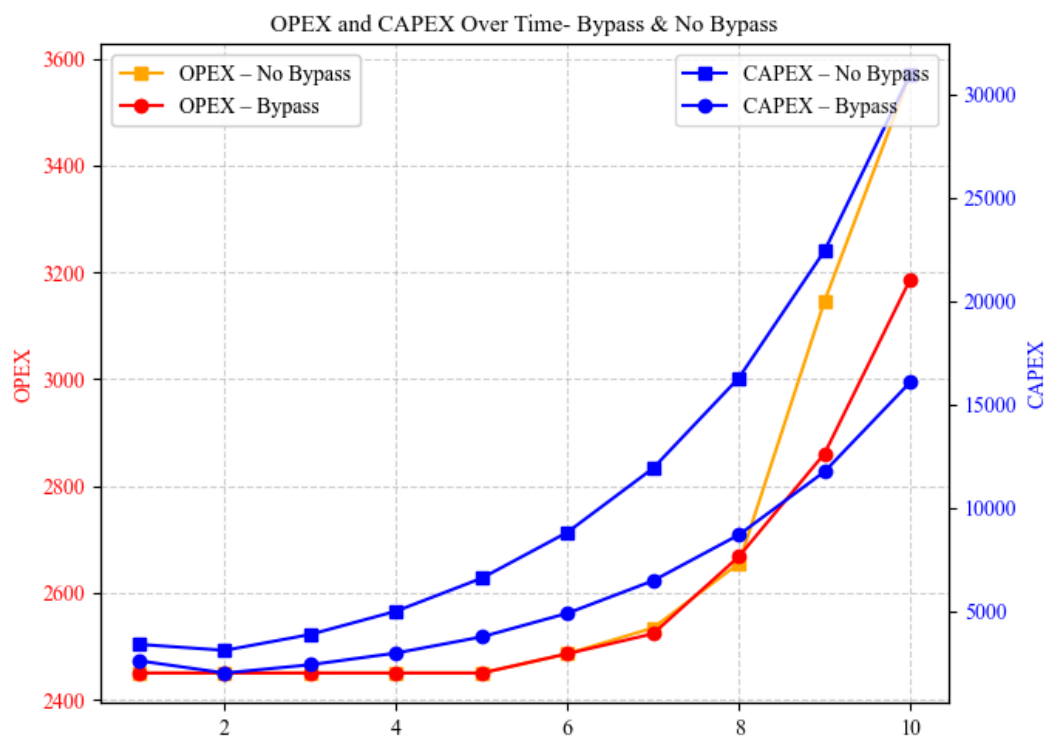


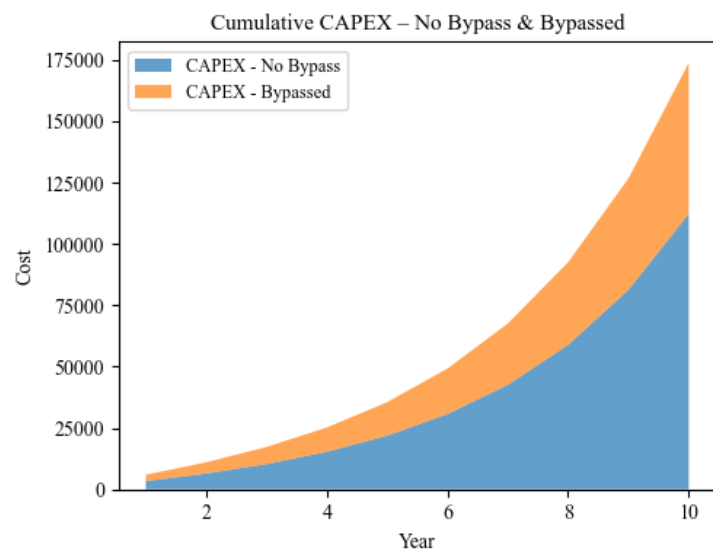
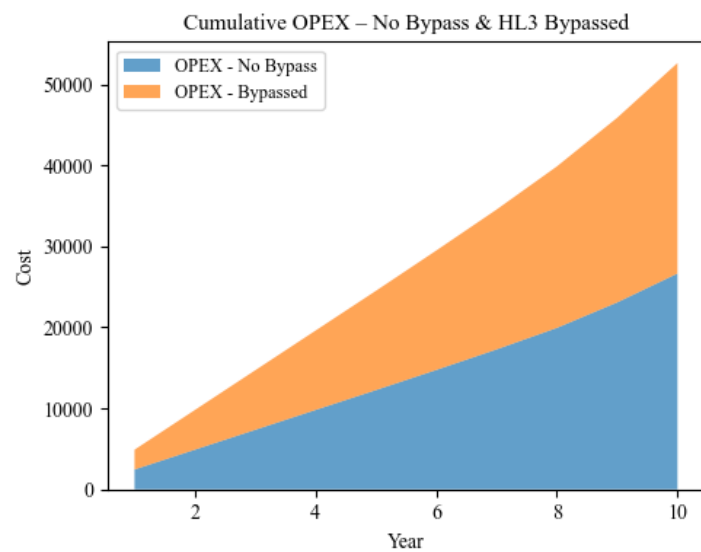
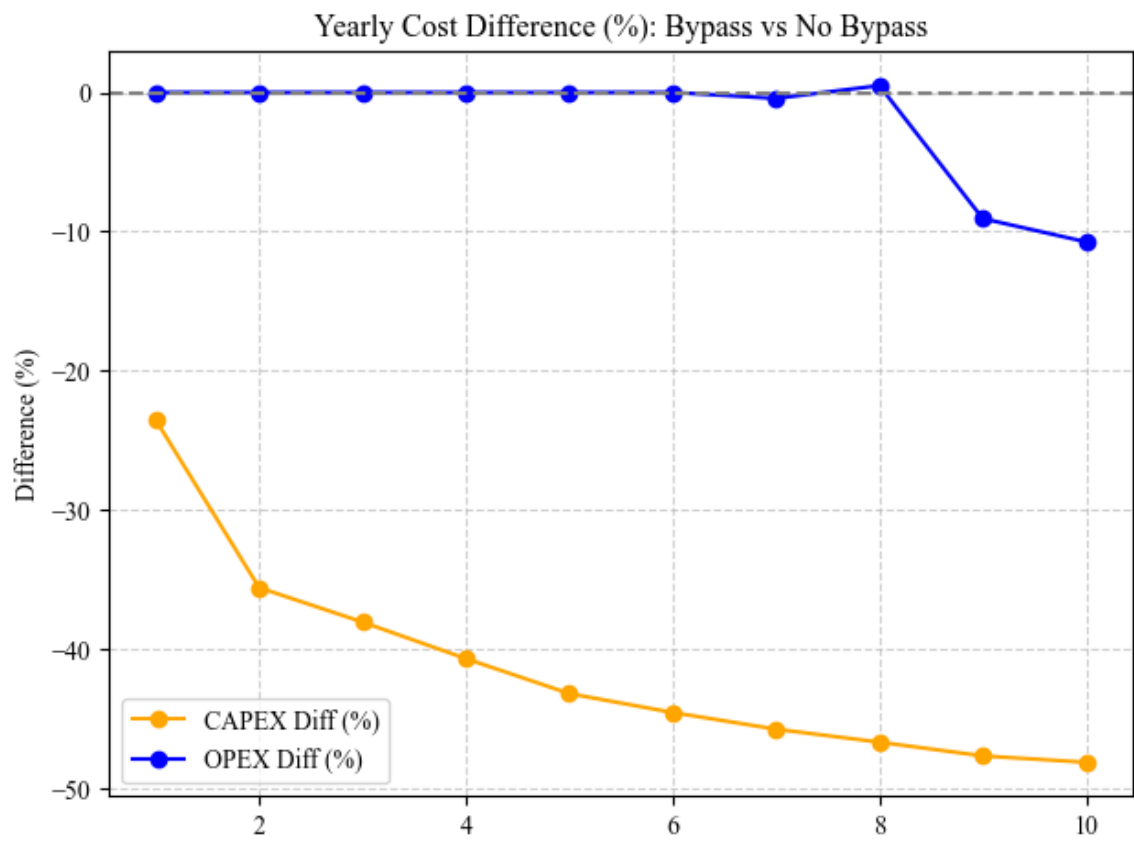
BVT and 100GL

Total BVT and 100G-License Comparison- Bypass & No Bypass

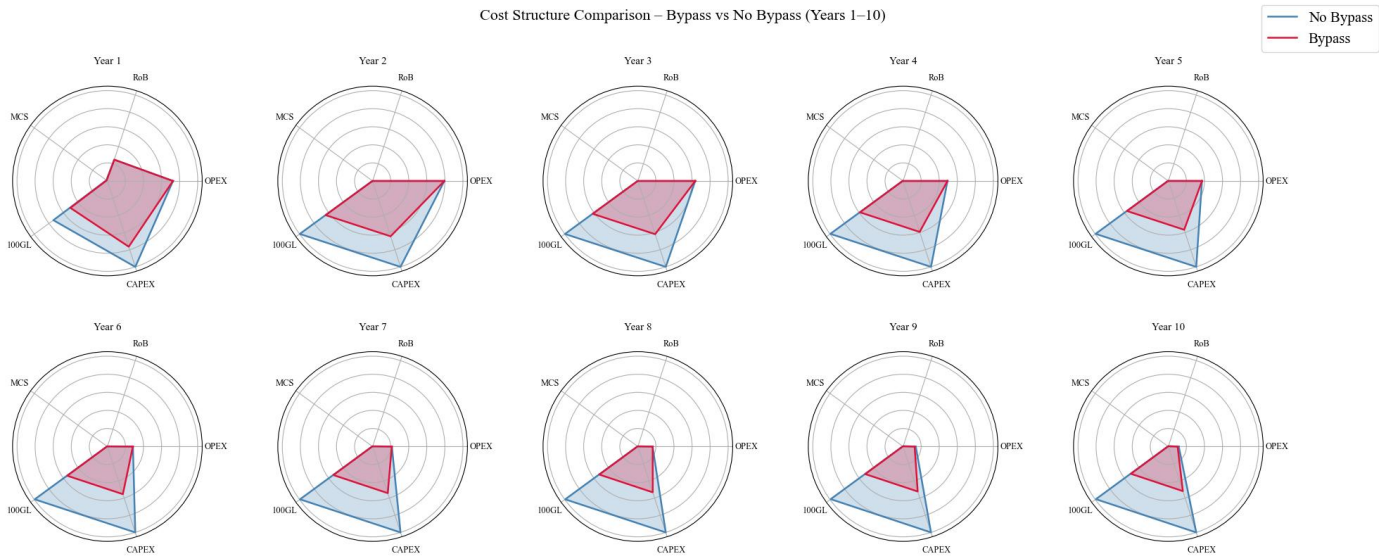


Costs



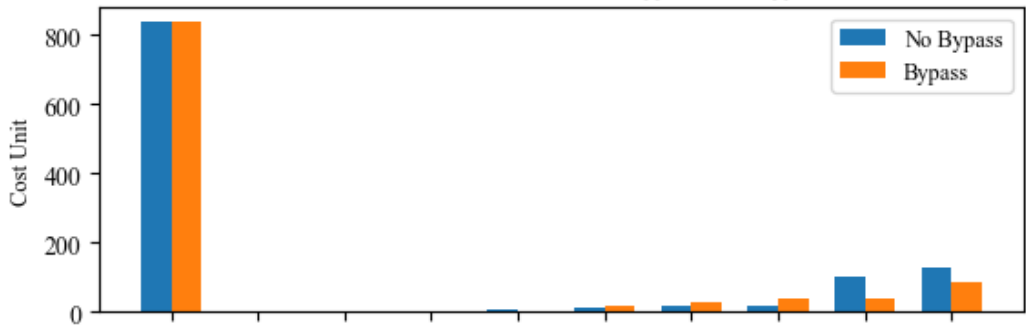


Cost Structure Comparison – Bypass vs No Bypass (Years 1–10)

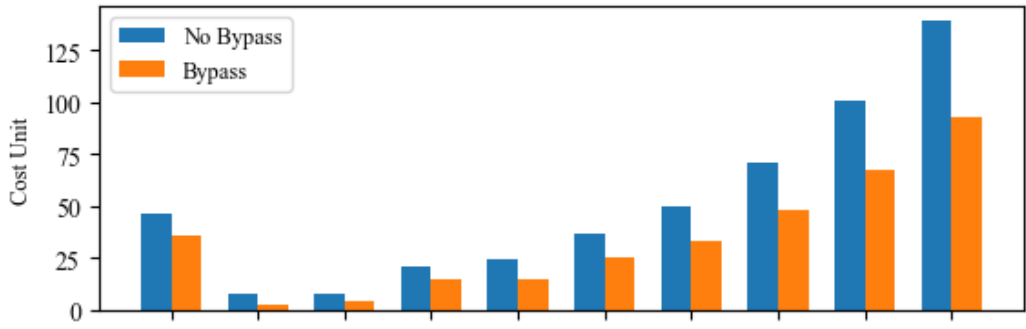


CAPEX of Different Components - Bypass & No Bypass

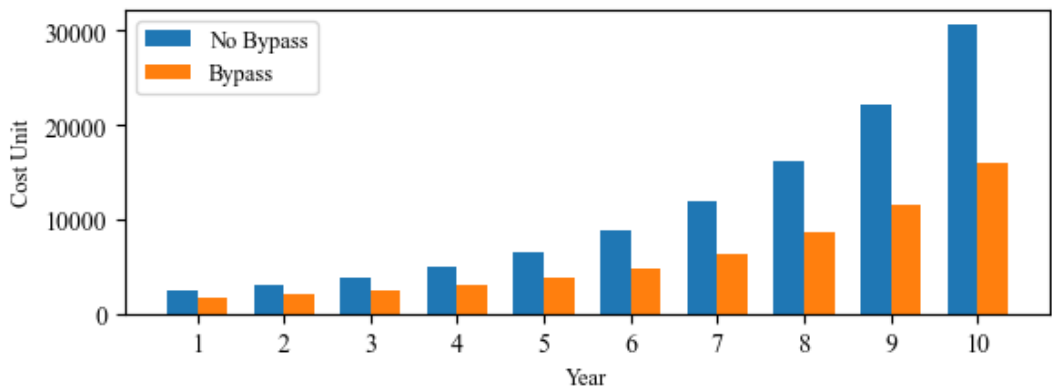
CAPEX of ROADM on the Blade - Bypass & No Bypass



CAPEX of Multicast Switch - Bypass & No Bypass

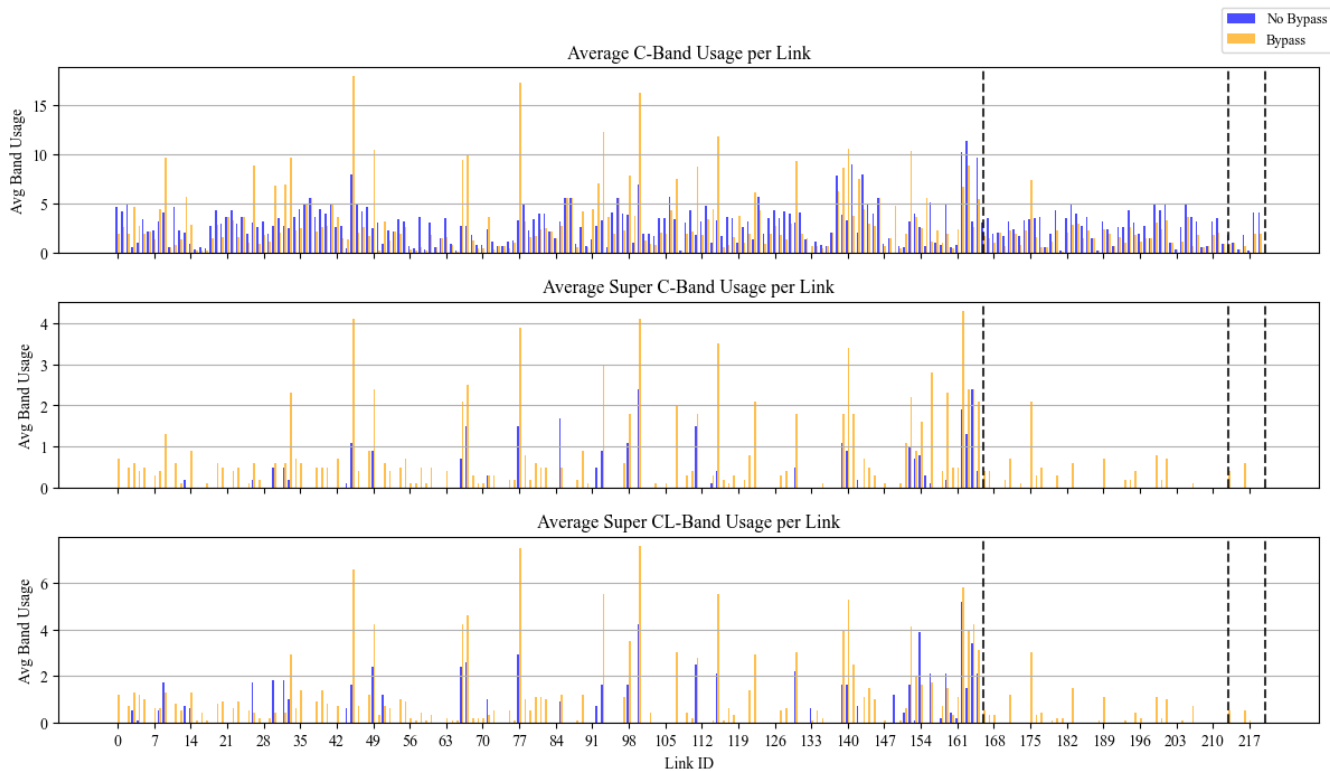
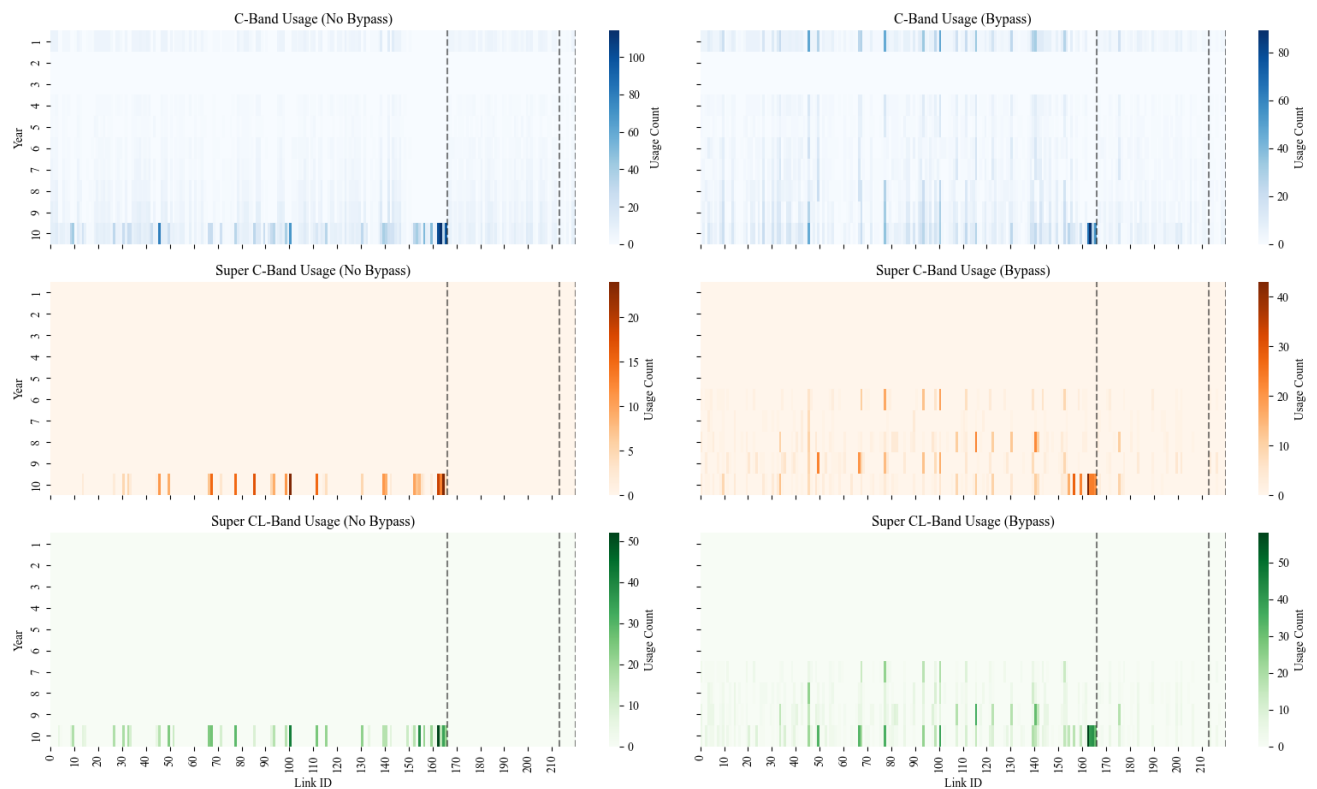


CAPEX of 100G Licenses

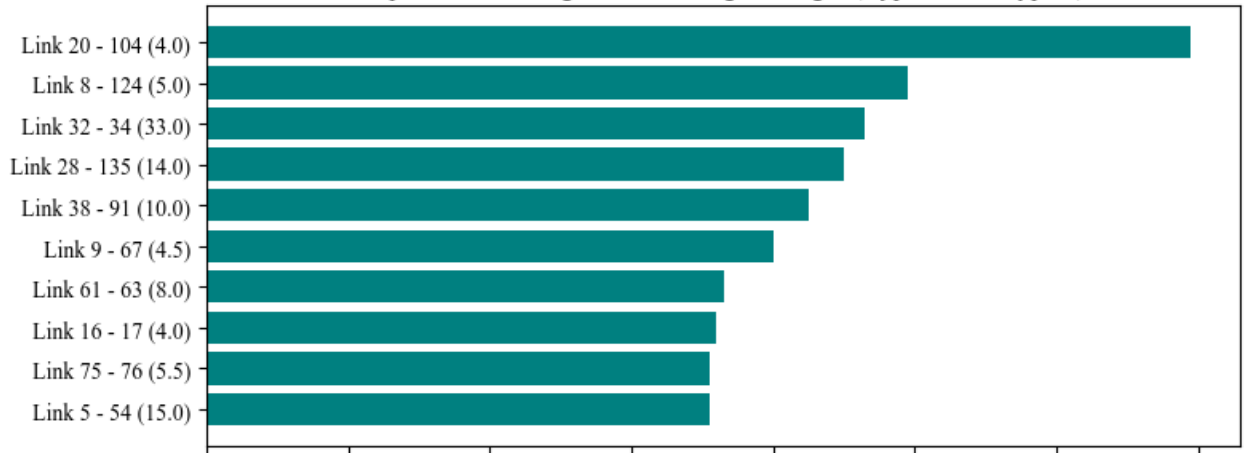


Band Usage of Links

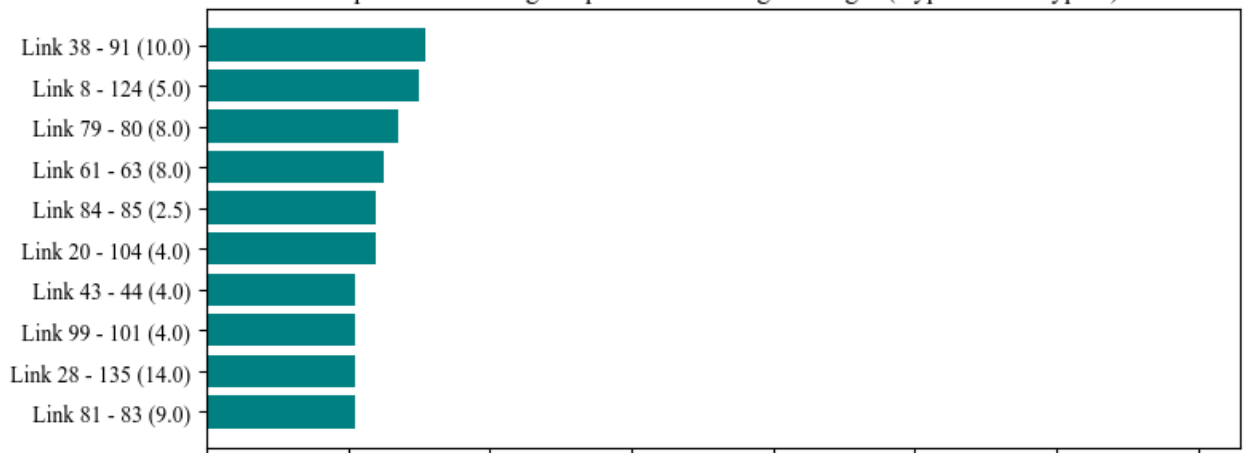
Band Usage Across Links – Bypass vs No Bypass



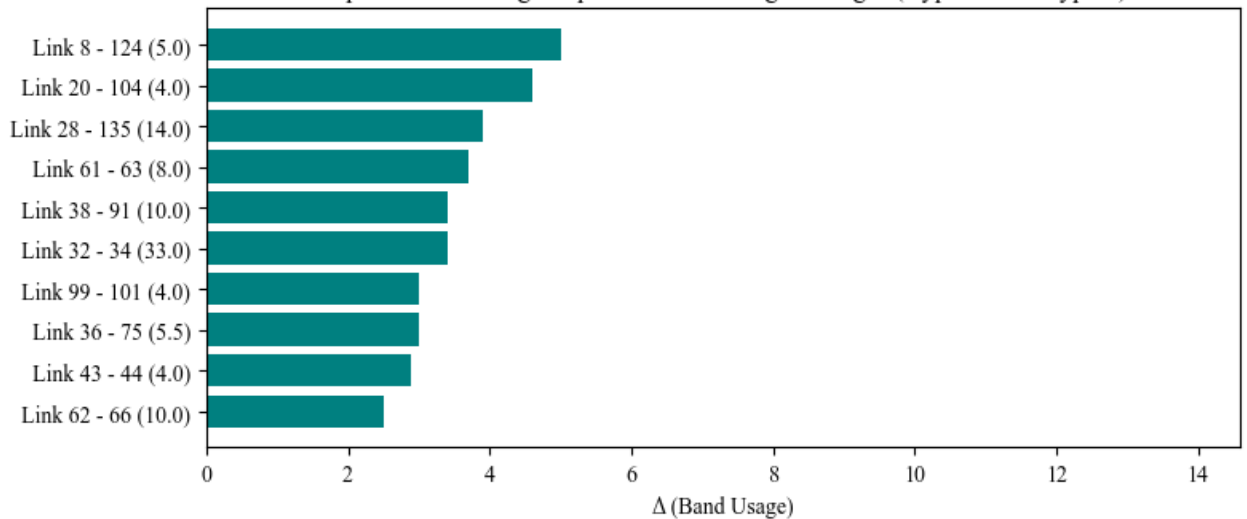
Top 10 Link Average C-Band Usage Changes (Bypass - No Bypass)



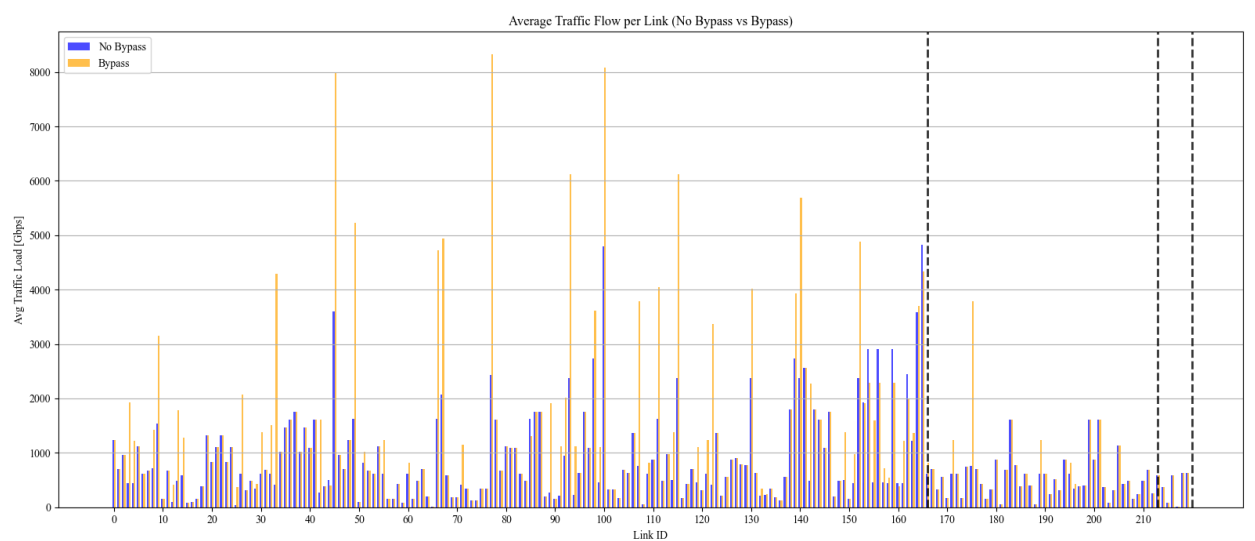
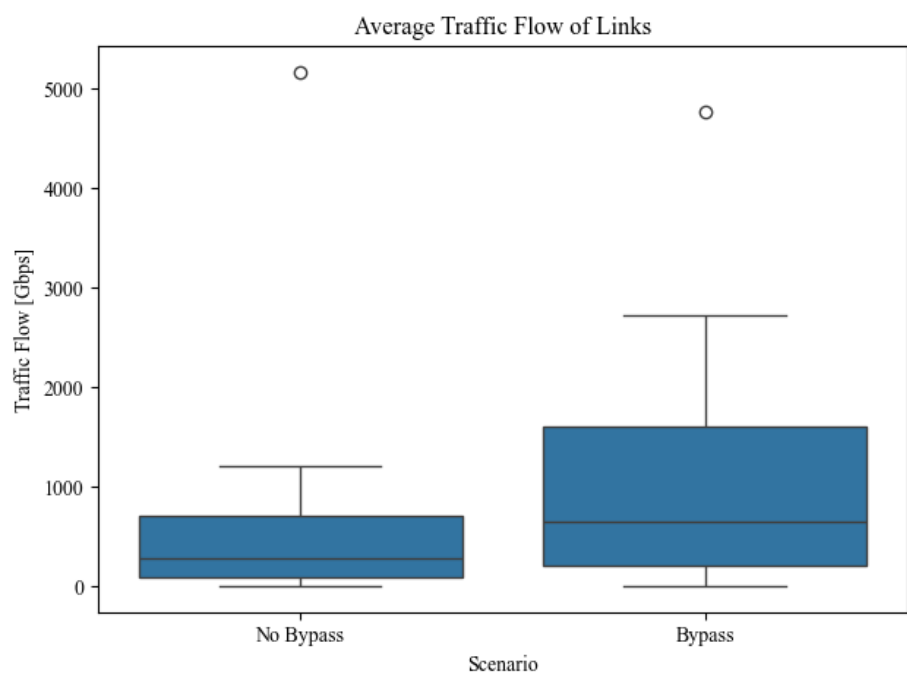
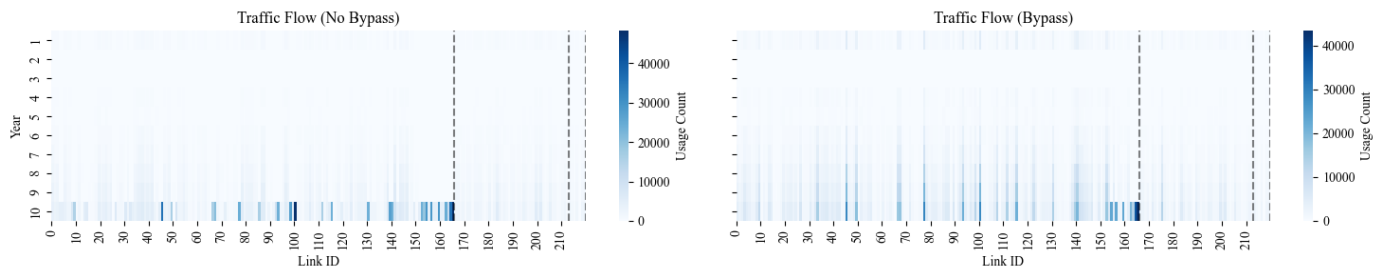
Top 10 Link Average Super C-Band Usage Changes (Bypass - No Bypass)

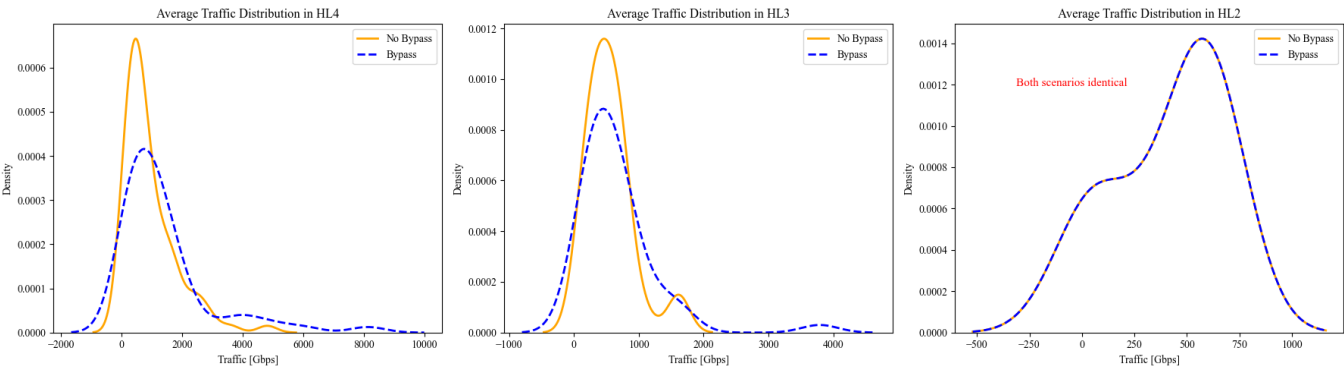


Top 10 Link Average Super CL-Band Usage Changes (Bypass - No Bypass)

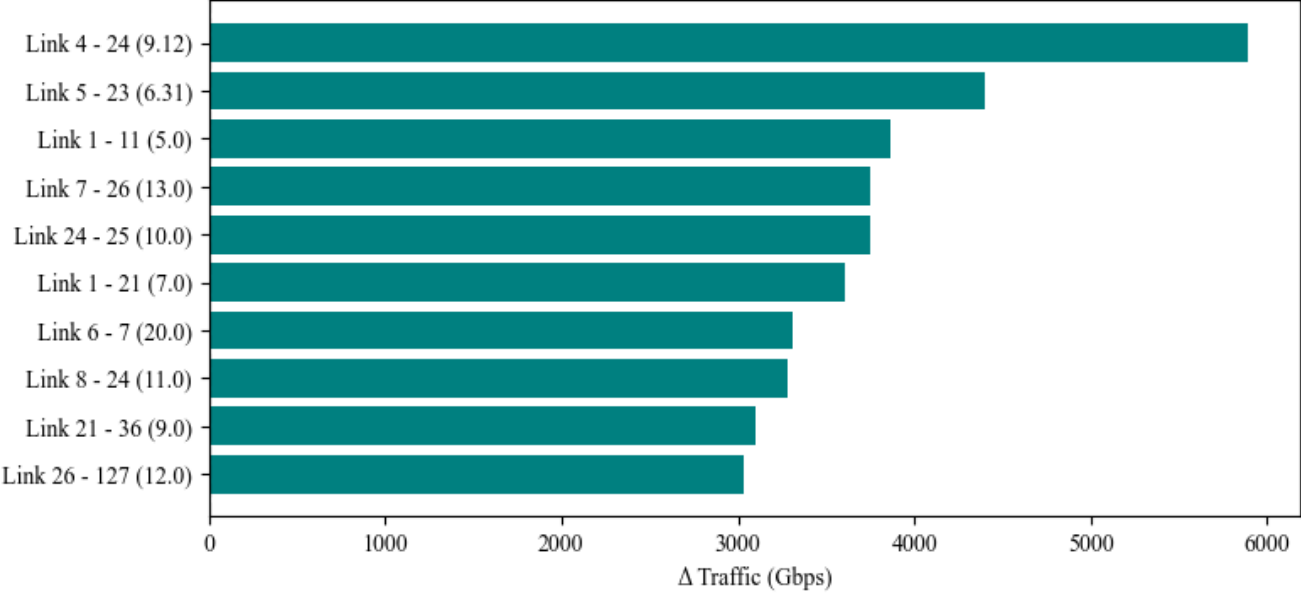


Traffic Flow





Top 10 Link Average Traffic Changes (Bypass - No Bypass)



Latency

