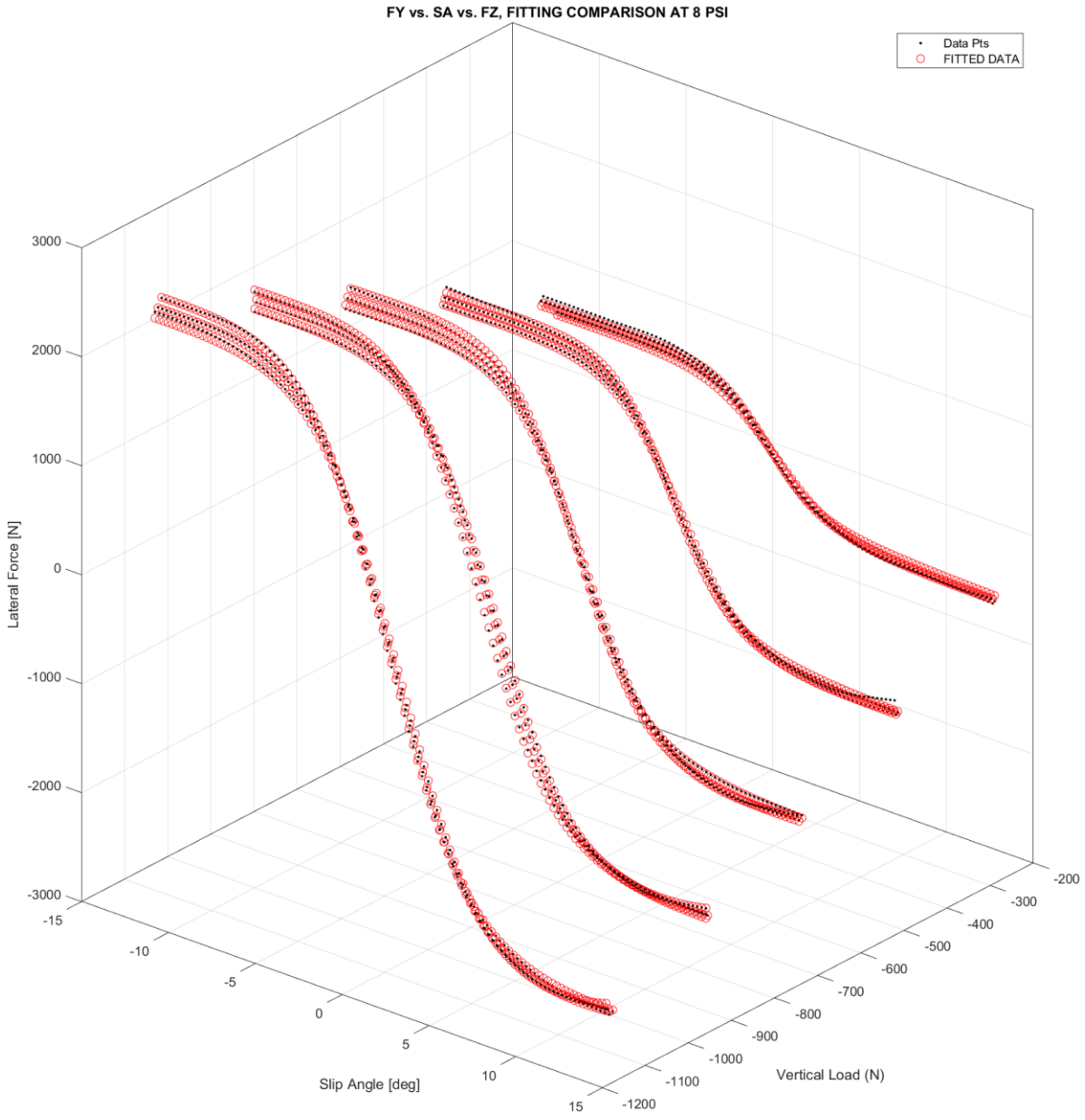
HYTECH PACEJKA FIT FIGURES

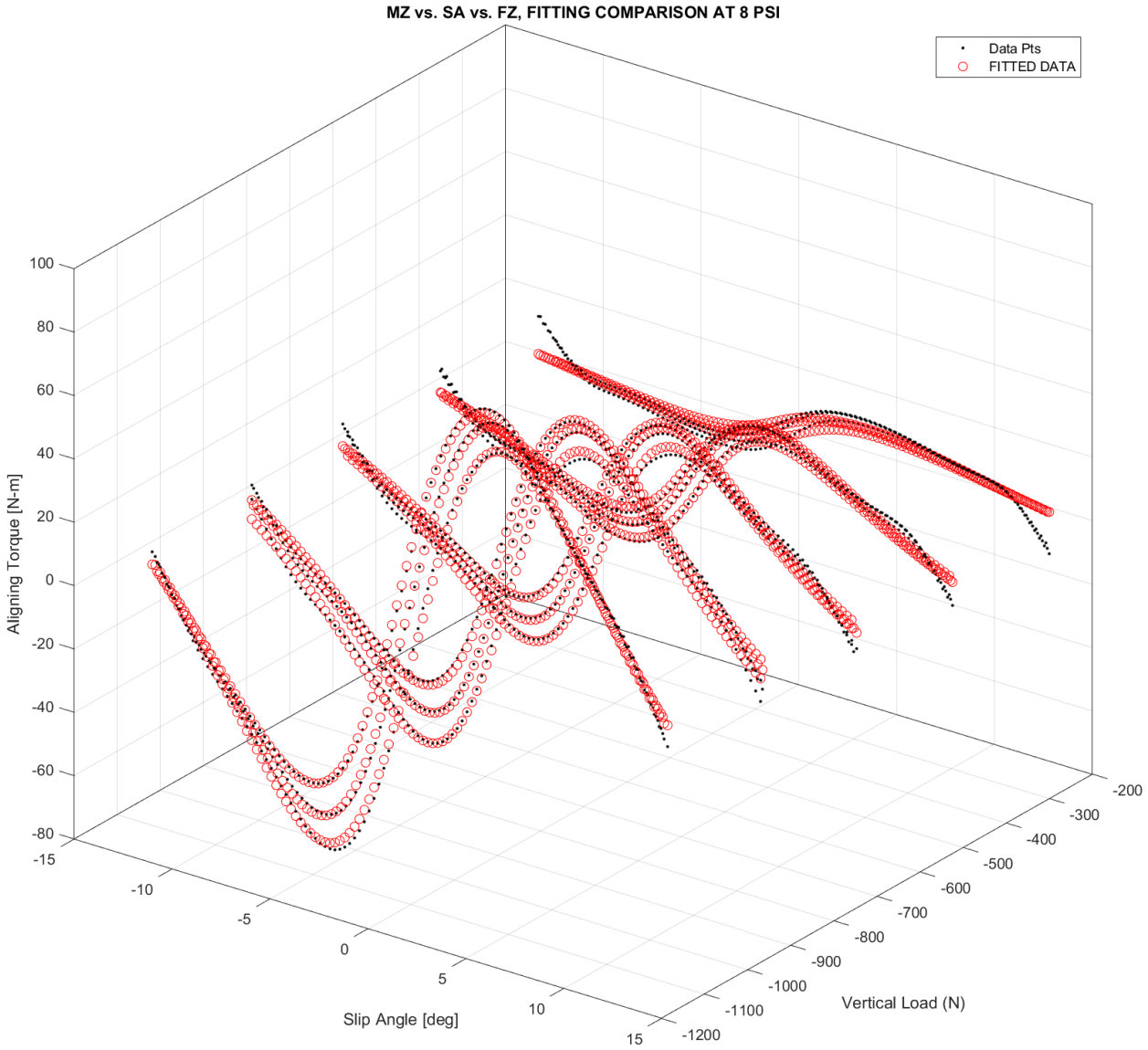
PURE SIDE SLIP (SA) LATERAL FORCE:

- Fit utilizing Hoosier 16x7.5-10 LC0.
- Pressure: 8 PSI



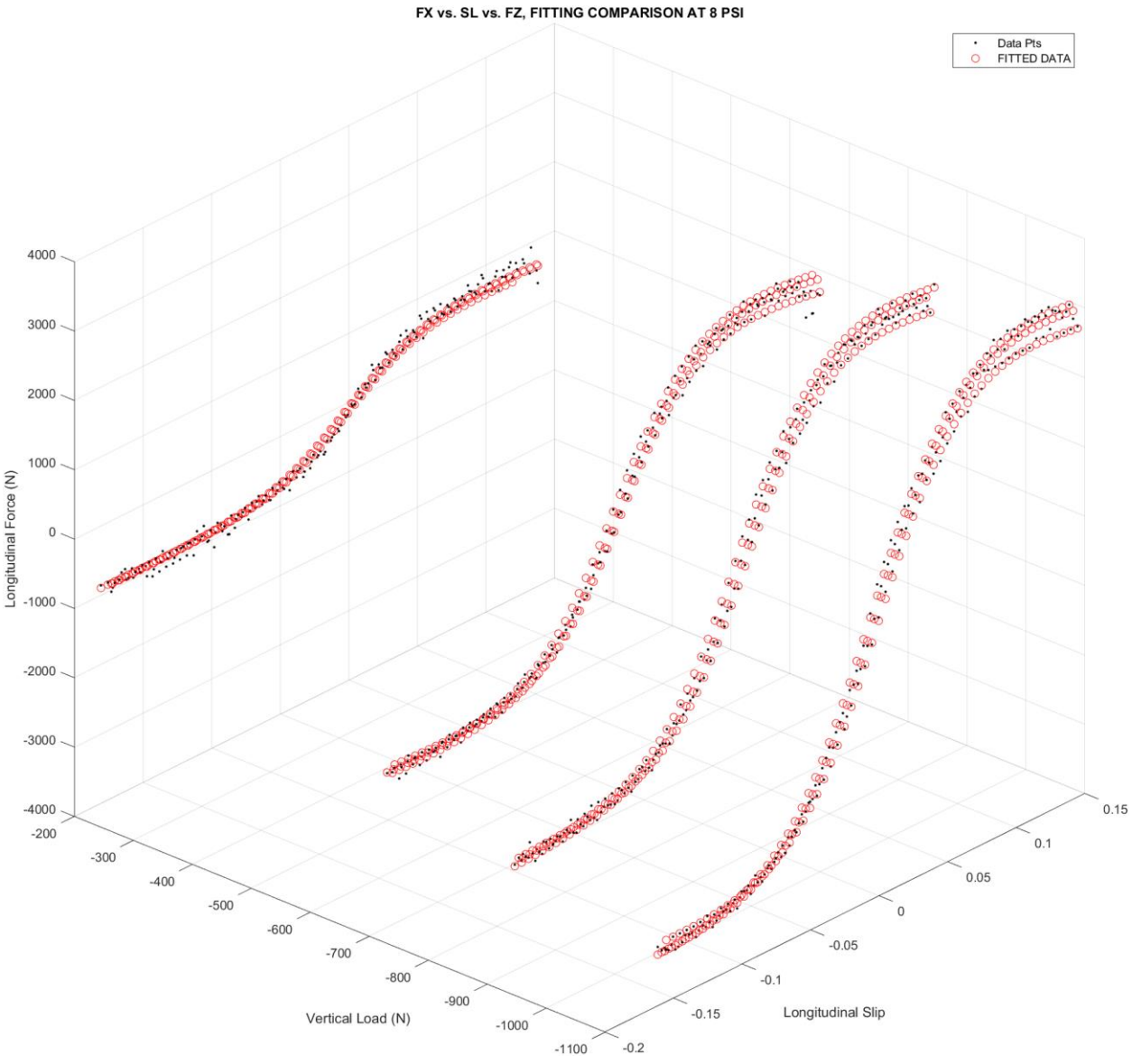
PURE SIDE SLIP ALIGNING TORQUE:

- Fit utilizing Hoosier 16x7.5-10 LC0.
- Pressure: 8 PSI



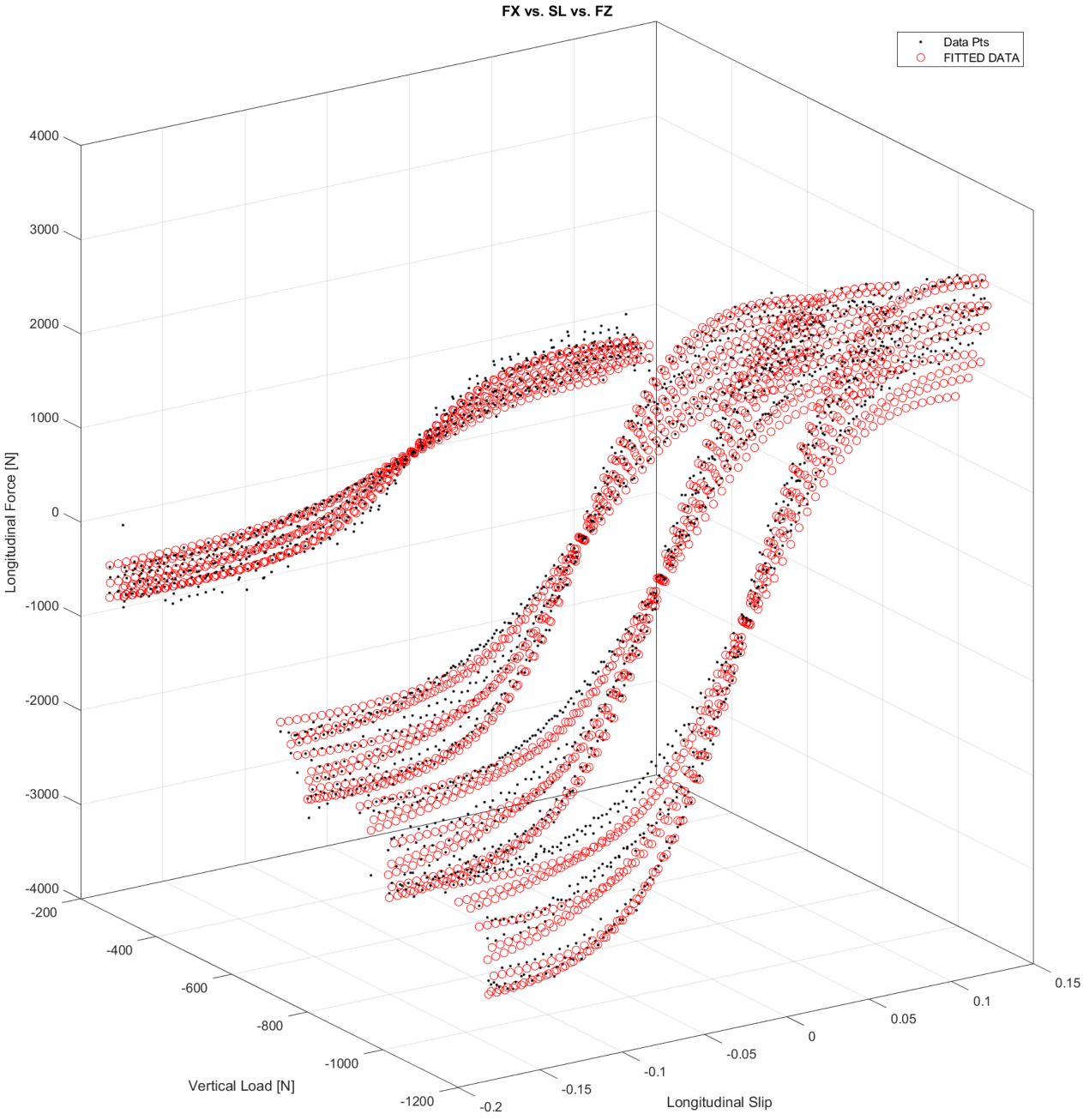
PURE LONGITUDINAL SLIP (SL) LONGITUDINAL FORCE:

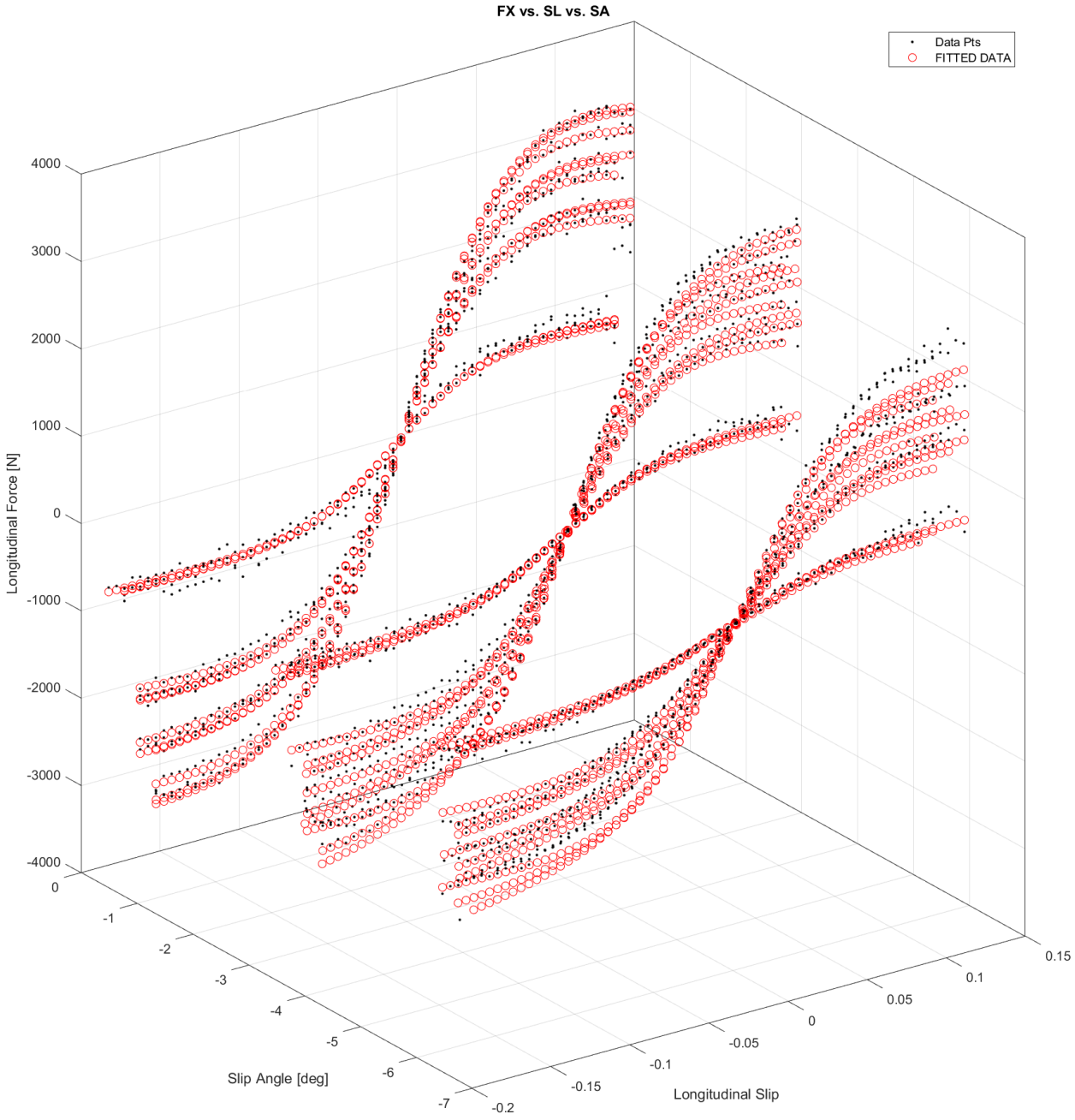
- Fit utilizing Hoosier 18x7.5-10 R25B.
    - No data available for LC0.
- Pressure: 8 PSI

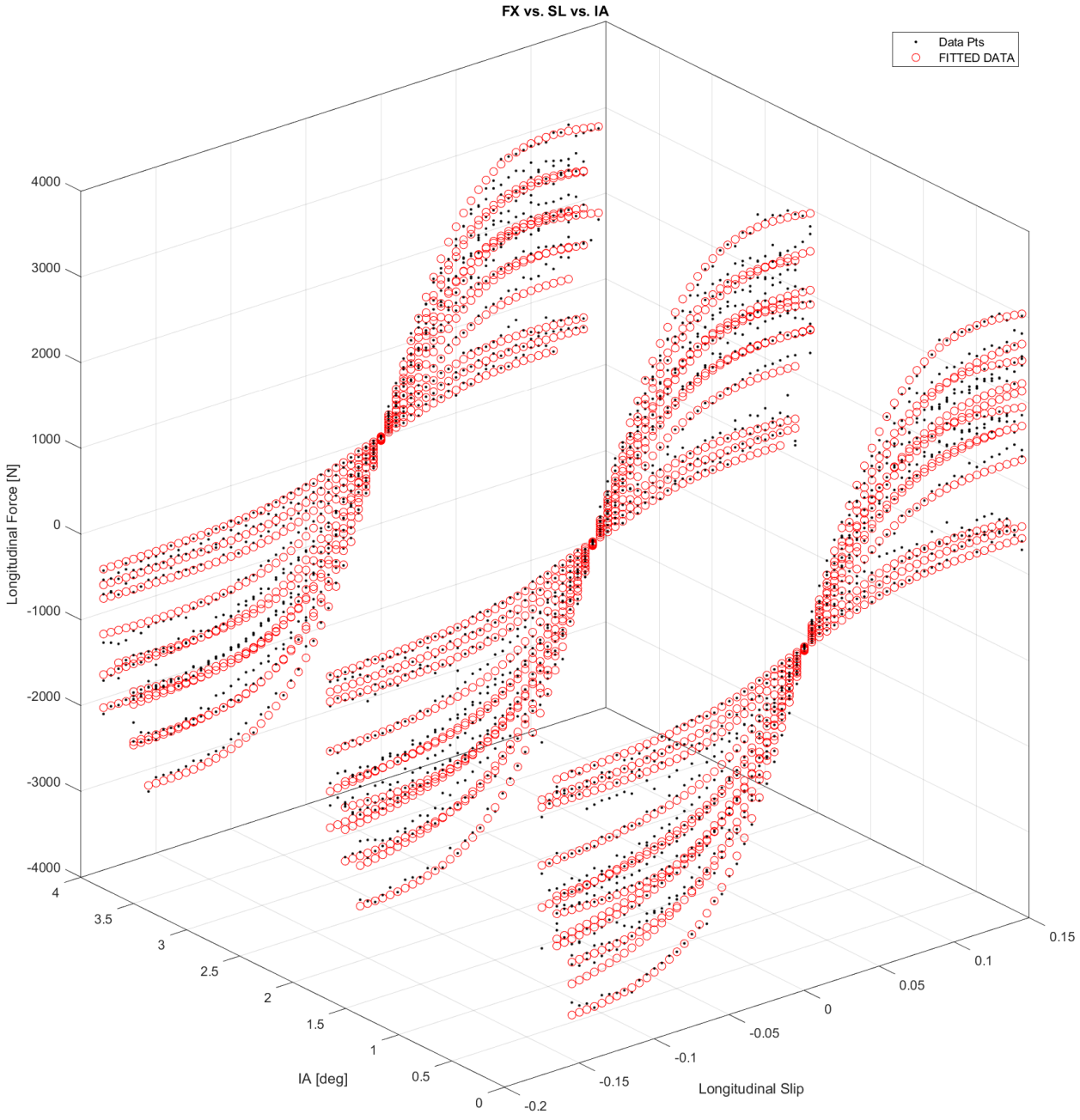


COMBINED SLIP LONGITUDINAL FORCE:

- Fit utilizing Hoosier 18x7.5-10 R25B.
    - No data available for LC0.
- Pressure: 8 PSI

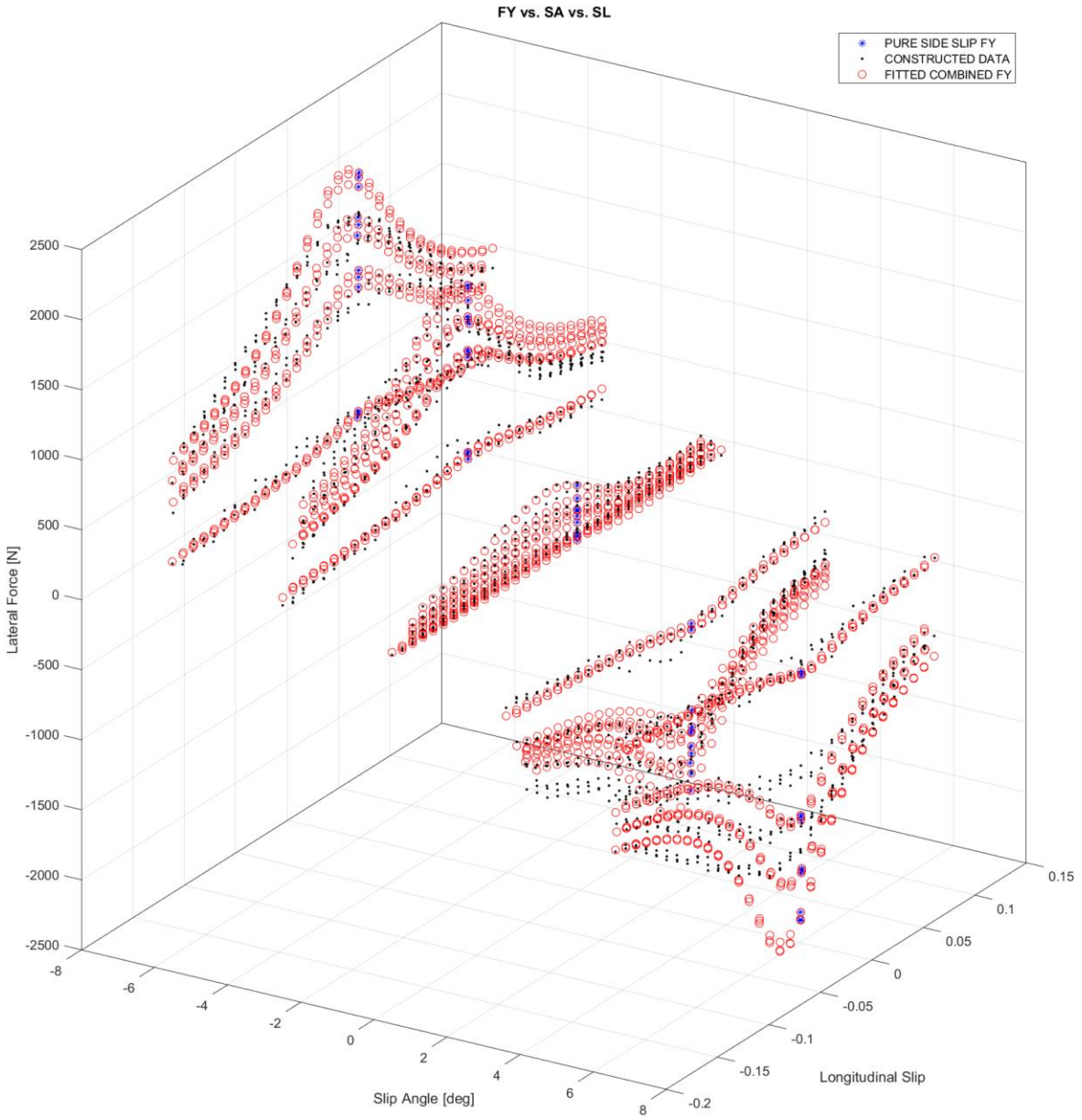



FX vs. SL vs. SA
Data Pts
FITTED DATA
Longitudinal Force [N]
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
Slip Angle [deg]
0
-1
-2
-3
-4
-5
-6
-7
Longitudinal Slip
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15


FX vs. SL vs. IA
Data Pts
FITTED DATA
Longitudinal Force [N]
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
IA [deg]
4
3.5
3
2.5
2
1.5
1
0.5
0
Longitudinal Slip
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15

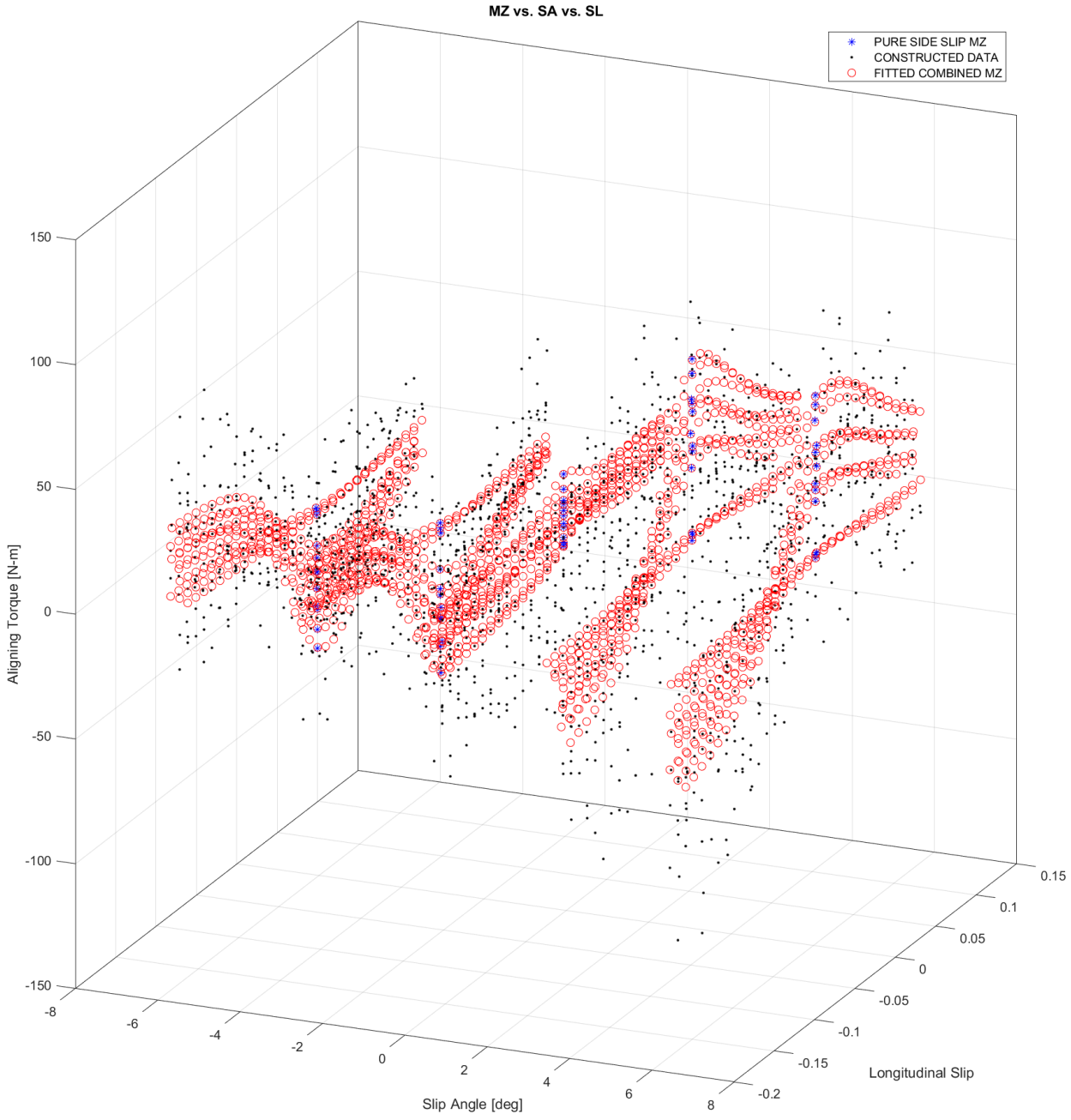
COMBINED SLIP LATERAL FORCE:

- Fit utilizing Hoosier 18x7.5-10 R25B and Hoosier 16x7.5-10 LC0
    - Combined slip data for R25B was scaled to LC0 based on pure side slip difference.
    - Positive SA was artificially generated by mirroring and applying a scaling factor.
        - Scaling factor is determined by taking LC0 negative SA data, mirroring it, then finding the difference between this mirrored data and the actual experimental LC0 positive SA data.
    - Pure side slip LC0 marked in figure.
- Pressure: 8 PSI



COMBINED SLIP ALIGNING TORQUE:

- Fit utilizing Hoosier 18x7.5-10 R25B and Hoosier 16x7.5-10 LC0
    - Same method as above.
- Pressure: 8 PSI



COMBINED SLIP OVERTURNING MOMENT:

- Fit utilizing Hoosier 16x7.5-10 LC0 pure side slip MX data.
- Pressure: 8 PSI
- MX did not directly depend on SL; however, it was dependent on FY, which was dependent on SL, hence the combined slip naming.
- Graph shown at 0 SL.