

Figure 9: Comparison of C_N for current experimental data with ADDB and flight

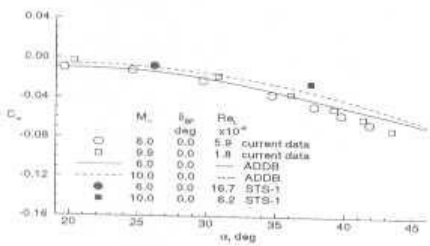


Figure 10: Comparison of C_m for current experimental data with ADDB and flight

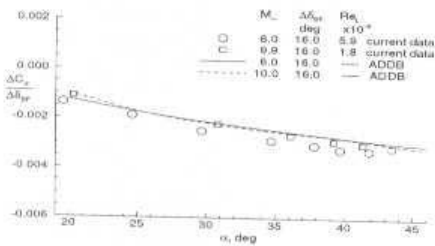


Figure 11: Comparison of flap efficiency for current experimental data with ADDB and flight

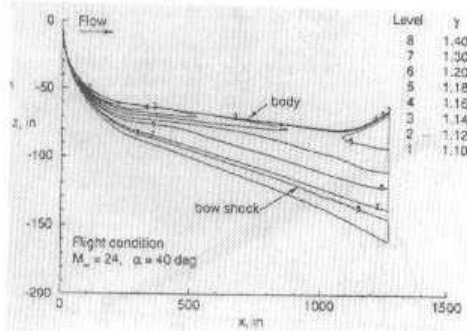


Figure 12: Computed variation of γ in windward flow field of modified Orbiter

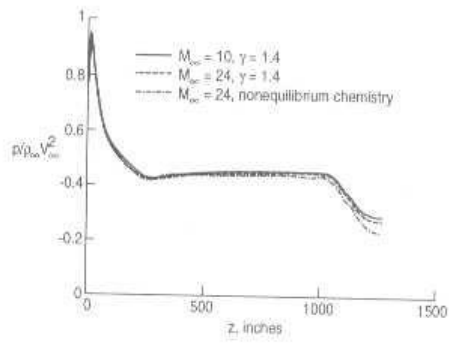


Figure 13: Computed centerline surface pressure for modified Orbiter, $\alpha = 40^\circ$

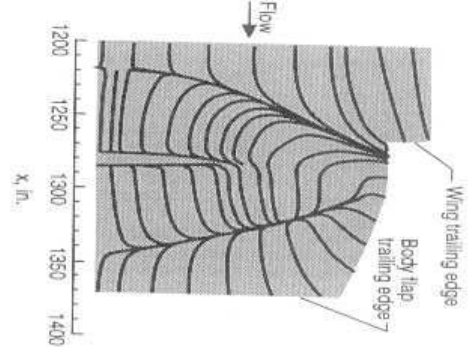


Figure 14: Calculated surface streamline patterns in vicinity of body flap at wind tunnel conditions

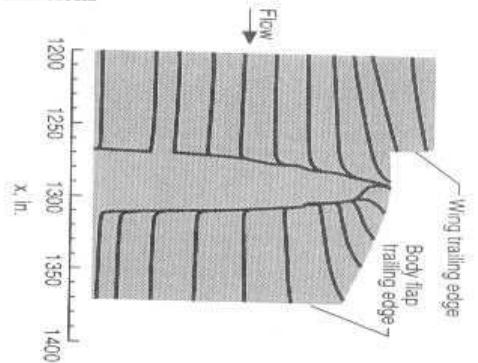


Figure 15: Calculated surface streamline patterns in vicinity of body flap at flight conditions

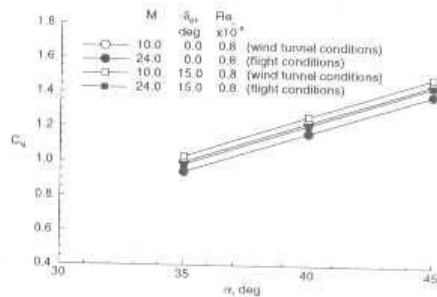


Figure 16: Comparison of computed modified Orbiter C_N at wind tunnel and flight conditions