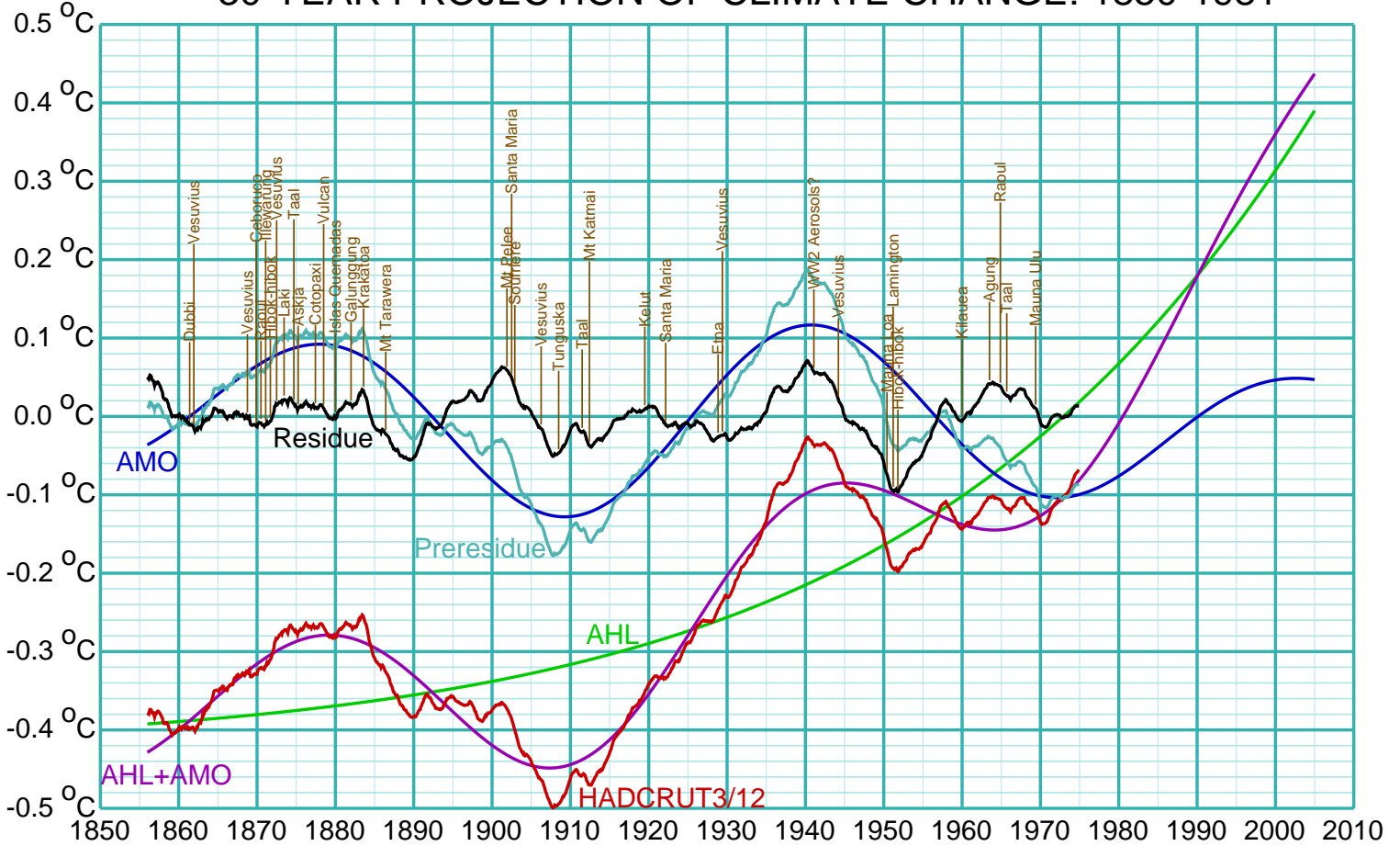# 30-YEAR PROJECTION OF CLIMATE CHANGE: 1850-1981

HADCRUT3/12: global temperature, 1850-1981, unadjusted, smoothed to 12-year moving average

AHL(y): Arrhenius-Hofmann Law, 1.832 lb(280 + $2^{(y - 1802)/30.5}$)

Preresidue = HADCRUT3/12 - AHL. r^2 = 0.573

AMO(y): Atlantic Multidecadal Oscillation correlate, 0.0667 (sin(2 (y - 1925)/56) + sin(2 (y - 1925)/75))

Residue = Preresidue - AMO. r^2 = 0.9446

Elementary model of HADCRUT3 for 1850-1981, as a function of year y:

1.832 lb(280 + $2^{(y - 1802)/30.5}$) + 0.0667 (sin(2 (y - 1925)/56) + sin(2 (y - 1925)/75))