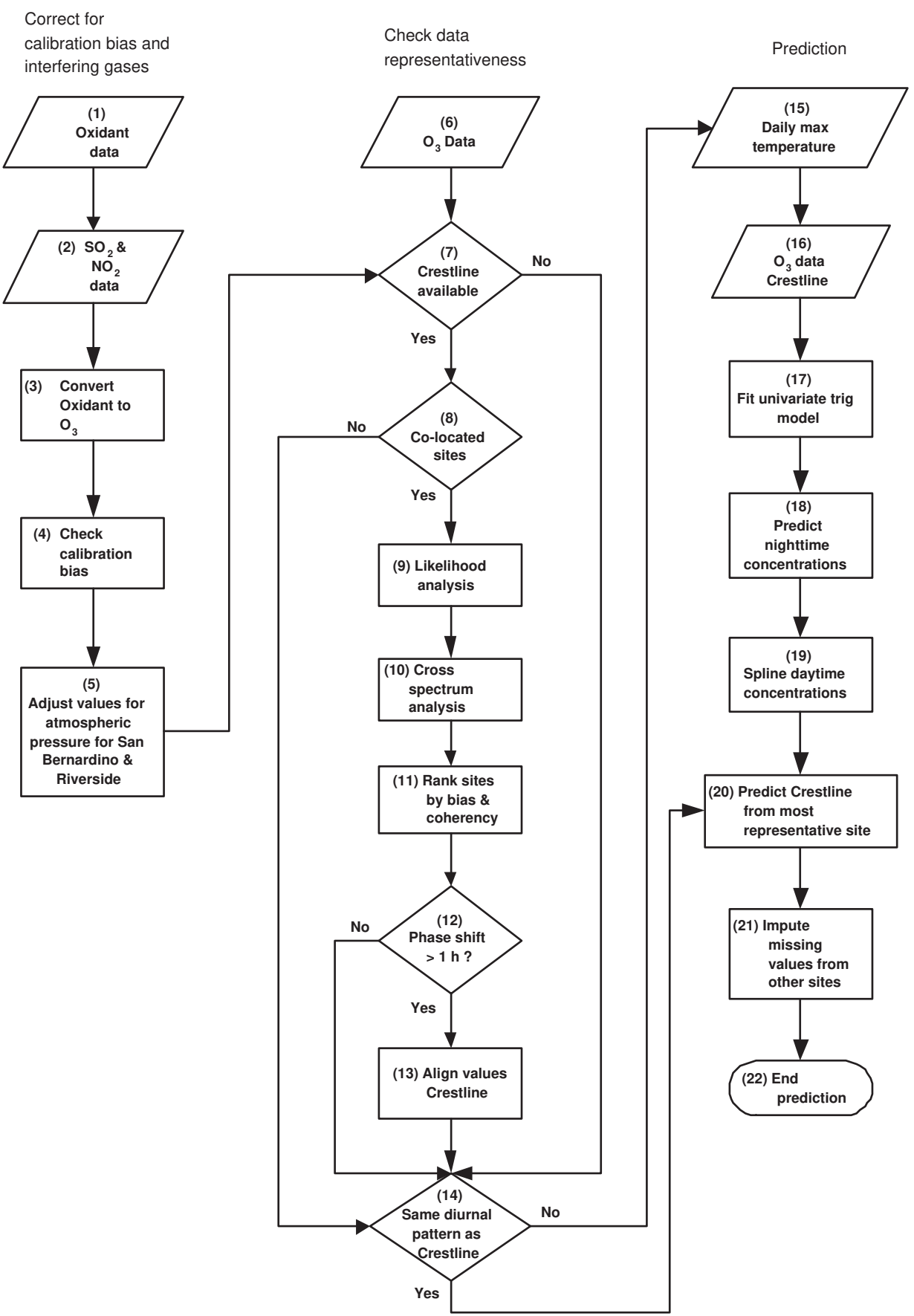
Correct for calibration bias and interfering gases
Check data representativeness
Prediction
(1) Oxidant data
(2) SO_2 & NO_2 data
(3) Convert Oxidant to O_3
(4) Check calibration bias
(5) Adjust values for atmospheric pressure for San Bernardino & Riverside
(6) O_3 Data
(7) Crestline available
No
Yes
(8) Co-located sites
No
Yes
(9) Likelihood analysis
(10) Cross spectrum analysis
(11) Rank sites by bias & coherency
(12) Phase shift > 1 h ?
No
Yes
(13) Align values Crestline
(14) Same diurnal pattern as Crestline
No
Yes
(15) Daily max temperature
(16) O_3 data Crestline
(17) Fit univariate trig model
(18) Predict nighttime concentrations
(19) Spline daytime concentrations
(20) Predict Crestline from most representative site
(21) Impute missing values from other sites
(22) End prediction