

Title / Author	Method	Findings
Cloud albedo increase from carbonaceous aerosol (Leaitch et al 2010)	Aerosol-Cloud Adiabatic Parcel Model, observations North West Atlantic Ocean	Air that is strongly influenced by land has 2 x higher concentration of carbonaceous aerosols. Increases CDNC, increases local albedo by 8% (70% of which is due to the concentration of OM doubling)
The impact of ship-produced aerosols... (Durkee et al 2000)	Statistics, observations and The Science Applications International Corporation model Monterrey	Diesel powered ships increase CCN, which increase albedo. The non-polluted BL are more sensitive to emissions. Sea salt from the ship wakes are not a factor.
A marine stratus layer modified by nuclei, from a ship plume (Hindman and Bodowski 1996)	One dimensional adiabatic cloud formation model, assumptions, Inferences using Satellite Images. Off the coast of Baja California	Smaller cloud droplets in ship tracks or “linear feature” compared to ambient clouds, Enhanced updraft from heat waste have no significant impact on CCN

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Effect of organics of low solubility on the growth rate of cloud droplets (Shantz et al 2003)	Lab measurements of growth rates using a cloud condensation nucleus chamber, a kinetic model of condensational growth of droplets	Aerosols with lower solubility, take longer to activate (1-2 sec), have a 85% fewer CDNC compared to $(\text{NH}_4)_2\text{SO}_4$.
Climate forcing by carbonaceous and sulfate aerosols (Penner et al 1998)	An atmospheric general circulation model (GRANTOUR) is coupled to an atmospheric chemistry model (NCAR CCM1) Global	BC and OC have pos forcing, Sulfate aerosols have large neg forcing, Taking all 3 types into account -0.14 to -0.52 Wm^{-2} global forcing. The higher the scattering properties of OC+BC the higher the absorption.
A simple relationship between cloud drop number concentration and precursor aerosol concentration for the regions of Earth's large marine stratocumulus decks (Hegg et al 2012)	Measurements from CARMA off coast in CA 04-07 VOLCALs Rex 2008 off Chilean coast SAFARI Namibian coast 2000	Simple linear relationship between the peak CDNC in the stratocumulus decks and the corresponding concentration of accumulation mode particles just below cloud base.