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Chapter 1

Marine Boundary Layer Clouds in the Literature

1.1 Introduction

the lists are getting written section by section, highlighted by textbf intros. need to go thru and delete these at some point Basically, we want to set out the background and also what is the reason for asking the questions which we have been asking. looking for around 20 pages, roughly 2 per section. anything from 15 to 40 is ok though.

1.1.1 setting out hwat the problem is and why we're approaching it in this order.

1.1.2 introducing MBL clouds

Low clouds cover, on average, around 30% of the Earth's surface. Over the ocean, the figure is even higher, with around 35% coverage by Marine Boundary Layer (MBL) clouds on average. There has been much interest in recent years in the processes governing MBL cloud formation and interaction with the imediate environment, in additioin to projects dedicated to improving the model representation of MBL clouds (Fer example part of the Coupled Model Intercomparison Project, CMIP5). As a result of their ubiquity, minor changes in MBL cloud properties and distribution have the potential to cause significant changes to the planetary radiation budget. For example, *find cite?bony?* suggest that an increase in cloud cover over the oceans of 20% *CHECK* would be enough to offset