#### RALPH KARN

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The spatial and seasonal distributions of Martian atmospheric clouds, organized according to simple morphologic criteria, exhibit distinct patterns. When interpreted self-consistently using analogies to terrestrial cloud forms and Martian temperature, wind direction, and water vapor measurements, patterms of cloud occurrence provide some loose constraints on global-scale near-surface wind speed, static stability, and humidity. We have examined all Mariner 9 and Viking Orbiter images for this study: we concentrate primarily on the larger Viking data set. Whenever observations are possible, relatively high near-surface winds appear to follow the seasonal cap edges during early fall, late winter, and spring. Moderate to high winds are also inferred in mid-latitudes for mid southern winter and in low latitudes, mainly in the steeply sloping areas of Tharsis, pear the solutions. At other times, lower winds are suspected. Hemispheric asymmetries are traced to differences in atmospheric hydration state and to global dust storm related effects on the atmospheric temperature structure and the north polar cap recession schedule. Cloud occurrence data suggest that the near-surface daytime static stability is low in the northern hemisphere during summer and at low latitudes during mid northern spring. Relatively high static stability is deduced near the winter poles and globally during the dust storm season. In spite of low atmospheric temperatures, the correspondingly low absolute humidity apparently precludes the formation of thick water ice clouds at high latitudes in mid to late autumn and winter in both hemispheres and in southern mid-latitudes during early winter. During northern spring and summer, saturation conditions seem to be easily achieved at mid-latitudes, and condensate clouds are abundant; the situation is complicated by atmospheric dust in southern spring and summer. Low latitudes generally appear to be farther from saturation than mid-latitudes, and clouds generally form more easily in the northern hemisphere than in the south during corresponding seasons.

#### 1. INTRODUCTION

Much of our knowledge of the global-scale meteorology of Mars comes from deductions based upon remote observations. of clouds in the Martian atmosphere. Cloud color and seasonal behavior provided ground-based astronomers with the first clues to the nature of global dust storms and the polar hoods [Sitpher, 1962]. Spacecraft reconnaissance by the Mariner 9 and Viking orbiters produced a wealth of more detailed information about cloud morphology and distribution [Massrsky et al., 1972; Leony et al., 1972, 1973a; Briggs and Leony, 1974; Briags et al., 1977, 1979; French et al., 1981). From this body of work it became evident that clouds in the Martian atmosphere could be classified by morphology. Cloud "types" defined according to easily observable morphologic criteria were found to exhibit distinct spatial distributions and seasonal variations, suggesting that cloud occurrence data may be useful for probing regional meteorological conditions. French et al. [1981] began the systematic study of global patterns in cloud occurrence, using a keying scheme that distinguishes six morphologic types, and a data set containing all Mariner 9 and part of the Viking Orbiter images.

This paper is an expansion of the earlier work, with a substantially different emphasis; in addition to presenting new cloud distribution observations, we have focused specifically upon drawing meteorological inferences from the cloud occurrence data. To this end, the coupled spatial and temporal behavior of each cloud type is examined in much greater detail than was done in previous studies. We have generalized the classification scheme used by French et al. and have searched all Mariner 9 and all Viking Orbiter pictures (approximately 7,400 and over 50,000 images, respectively) for the new catalog. In the next section we review the cloud keying scheme and present plots of cloud type occurrence and related statistics. We then interpret these data in light of the combined constraints of meteorological conditions likely to favor formation of each cloud type, according to terrestrial analogy, and the observed water vapor abundance, temperature, and wind fields on Mars. These results are used to formulate some generalizations about the seasonal and spatial variation of Martian near-surface wind strength, atmospheric static stability, and humidity and to identify areas where more detailed observations and theoretical work could be most valuable.

#### 2. THE SPATIAL AND SEASONAL DISTRIBUTION OF MARTIAN CLOUDS

We separate surface obscuration observed in Viking and Mariner 9 images into seven categories, according to cloud morphology, using the scheme displayed in Figure 1. The resulting "cloud types" are listed in Table 1, together with brief descriptions of each and some conjectures about probable meteorological conditions which would favor formation, based primarily on analogy to terrestrial clouds [e.g., Ludlam, 1980]. These will be discussed in more detail later. Sample images of the Martian cloud types are presented in Figure 2.

The entire Viking and Mariner 9 data sets were examined at least twice for this study, by two independent observers. There are about 16,500 haze events in the catalog and over 1,400 occurrences of the other cloud types. In 5-7% of the cases the cloud morphology was sufficiently unclear for the observers to disagree on the cloud type. In these instances a third observer helped decide upon the designation. The clouds in each image were counted independent of possible occurrence of parts of clouds in adjacent images. However, statistics are compiled by orbit, in part to avoid biases due to this possibility (see discussion of Table 3).

Figures 3-11 show the distributions of each of the cloud types as a function of latitude and season. (L., the seasonal

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The Atmosphere and Climate of Mars Robert M. Haberle, R. Todd Clancy, François Forget, Michael D. Smith, Richard W. Zurek, 2017-06-29 This volume reviews all aspects of Mars atmospheric science from the surface to space and from now Comparative Climatology of Terrestrial Planets Stephen J. Mackwell, Amy A. Simon-Miller, Jerald W. Harder, Mark A. Bullock, 2014-01-25 The early development of life a fundamental question for humankind requires the presence of a suitable planetary climate Our understanding of how habitable planets come to be begins with the worlds closest to home Venus Earth and Mars differ only modestly in their mass and distance from the Sun yet their current climates could scarcely be more divergent Only Earth has abundant liquid water Venus has a runaway greenhouse and evidence for life supporting conditions on Mars points to a bygone era In addition an Earth like hydrologic cycle has been revealed in a surprising place Saturn's cloud covered satellite Titan has liquid hydrocarbon rain lakes and river networks Deducing the initial conditions for these diverse worlds and unraveling how and why they diverged to their current climates is a challenge at the forefront of planetary science Through the contributions of more than sixty leading experts in the field Comparative Climatology of Terrestrial Planets sets forth the foundations for this emerging new science and brings the reader to the forefront of our current understanding of atmospheric formation and climate evolution Particular emphasis is given to surface atmosphere interactions evolving stellar flux mantle processes photochemistry and interactions with the interplanetary environment all of which influence the climatology of terrestrial planets From this cornerstone both current professionals and most especially new students are brought to the threshold enabling the next generation of new advances in our own solar system and beyond Contents Part I Foundations Jim Hansen Mark Bullock Scot Rafkin Caitlin Griffith Shawn Domagal Goldman and Antigona Segura Kevin Zahnle Part II The Greenhouse Effect and Atmospheric Dynamics Curt Covey G Schubert and J Mitchell Tim Dowling François Forget and Sebastien Lebonnois Vladimir Krasnopolsky Adam Showman Part III Clouds Hazes and Precipitation Larry Esposito A M tt nen K P rot F Montmessin and A Hauchecorne Nilton Renno Zibi Turtle Mark Marley Part IV Surface Atmosphere Interactions Colin Goldblatt Teresa Segura et al John Grotzinger Adrian Lenardic D A Brain F Leblanc J G Luhmann T E Moore and F Tian Part V Solar Influences on Planetary Climate Aaron Zent Jerry Harder F Tian E Chassefiere F Leblanc and D Brain David Des Marais **Encyclopedia of Astronomy &** Astrophysics P Murdin, 2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia's authority is assured by editorial and advisory boards drawn from the world's foremost astronomers and astrophysicists This first class resource is an essential source of information for undergraduates graduate students researchers and seasoned professionals as well as

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