
Fronts Frontogenesis Revealed High Time Resolution

fronts and frontogenesis as revealed - nasa - nasa reference publication 1005 fronts and frontogenesis as revealed by high time resolution data albert e. frank and david a. barber **an abstract of the thesis of redacted for privacy ...** - an abstract of the thesis of albert e. frank for the degree of master of science in atmospheric sciences presented on april 5, 1977 title: fronts and frontogenesis as revealed by high time **detection and climatology of fronts in a high-resolution ...** - detection and climatology of fronts in a high-resolution model reanalysis over the alps 3 such as the european alps (hafner et al., 1987). in fact, **the impact of mathematics on meteorology and weather ...** - of fronts (frontogenesis), and the properties of the equations that facilitate such studies are revealed through a transformation of coordinates. de ning new coordinates (sometimes called **effects of ocean surface gravity waves: on turbulence ...** - the second major portion of the talk will address the importance of stokes forces on oceanic fronts. high resolution high resolution simulations and observations of the ocean surface boundary layer have revealed 100m to 10km frontal structures in **real-time detection of split fronts using mesoscale models ...** - a mesoscale high pressure region within the cold pool. the enhanced northerly flow in the eastern and southern portions of this anticyclone increases low-level cold ad- **j. fluid mech. (2013), . 736, pp. doi:10.1017/jfm.2013.526 ...** - a generalized mathematical model of geostrophic adjustment and frontogenesis: ... direct observation of atmospheric fronts has revealed a wide range of behaviours and scales. perhaps the most well known are synoptic-scale fronts of o.1000 km/ in length, associated with large-scale atmospheric high and low pressure systems. these fronts are distinctive elongated features of near-surface ... **upper ocean thermohaline structure and its temporal ...** - these series revealed that the position of major fronts varied interannually (nagata et al., 1988) and that a long-term trend and 4-5 year cycle variability were present in the upper ocean temperature field (aoki, 1997). **the harmattan over west africa: nocturnal structure and ...** - the frontogenesis is possibly linked with the development of structures showing characteristics of canonical mesoscale phenomena, including internal bores and gravity currents. **a case study of subtropical frontogenesis during a ...** - a case study of subtropical frontogenesis during a blocking event george tai-jen chen department of atmospheric sciences, national taiwan university, taipei, taiwan **direct observations of microscale turbulence and ...** - fronts are also known to be sites of high biological produc-tivity [franks and walstad, 1997], and therefore, as fertile fishing grounds [uda, 1936]. [3] the ageostrophic circulation near a front has been tra-ditionally inferred using inviscid balanced equations, such as quasigeostrophic (qg) and semigeostrophic (sg) omega equations. these imply a downwelling tendency on the dense side and ...

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