

Lab 9 Weather Map Analysis Answers

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the science of forecasting has not changed but the internet and new marvels of technology have completely redefined the process it s not a rare thing for weather hobbyists and national weather service forecasters to get a product from the very same site with more and more charts and tools appearing on the internet by the week how do you make sense of the avalanche of weather imagery and data using a double page format the weather map handbook demonstrates nearly every type of weather map image and product in common use an overview of each item s origin purpose shortfalls and tips are outlined standards for analysis symbology and chart markings are summarized the surface 850 mb 700 mb 500 mb and 300 200 mb charts get two pages each complete with philosophy objectives and techniques for each chart thickness isentropic and q vector products get their own sections

the wsr 88d doppler radar in use by the united states weather services has played a vast part in the weather information revolution in the weather map handbook it gets thirty pages packed with the fundamentals and algorithms of the wsr 88d much of this information is obscure and nearly impossible to find from the workings of the composite reflectivity product to the exact process used by the mesocyclone detection algorithm to deconstruct a radar scan any nexrad radar product on the internet can be understood from the wrf to the ngm from the gfs to the gem each numerical forecast model is revealed in incredible detail ensemble forecasts are highlighted the satellite chapter explains visible infrared and water vapor imagery how it is created and how to interpret it even the metar taf synop and radiosonde formats get their own sections complete with decoding instructions topping off the book is an appendix with surface and upper level station plot models a vast technical glossary compiled from the depths of the nws spc and ncep and much more whether you re a hobbyist private forecaster a professional or a student the weather map handbook is the book you can t be without

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