

# RESEARCH DEPARTMENT MEMORANDUM

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To: RD, FD Division and Section Heads, Evaluation Section

Copy:

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Date: 28 August 2013

File: RD13-293

Subject: Icelandic glacier mask update in IFS cycle 38r2

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## 1 Introduction

ECMWF revised the IFS glacier mask over Iceland. The new glacier mask was implemented on the fly on 8 May 2013 in the suite 38r2, both in HRES and EDA. It became operational on 25 June 2013.

This research memorandum presents the motivations for this update and it shows the updated glacier mask at different resolutions used in operations. The implementation procedure is presented as well as results from experiments. The Icelandic glacier mask update has a local impact on surface and near surface weather parameters over Iceland. Comparisons between the suite 38r2 and the suite 38r1 are shown and impact on the EFI and ENS products is discussed as well as ongoing actions to account for the revised glacier mask in the re-forecast ENS. This work was conducted in close collaboration between ECMWF and the Icelandic Meteorological Office.

## 2 Motivations and updated glacier mask over Iceland

The Icelandic Meteorological Office (IMO) reported in 2012 systematic unrealistic cold two-metre temperature forecasts in the highland of Iceland in the ECMWF products. The bias, also present in the previous years, was particularly important in summer. It was due to an overestimation of the glacier extent in the IFS, and resulted in a permanent snow depth of 10 m (water equivalent) present in areas of Iceland which are in reality

# Grade 1rhino Research Memo

**Clemens Wendtner**



## **Grade 1rhino Research Memo:**

Africa Research Bulletin ,2005      *Proceedings RMRS.* ,1998      **Official Gazette of the United States Patent and Trademark Office** ,1991      **Science and Stewardship to Protect and Sustain Wilderness Values** ,2003 The Seventh World Wilderness Congress met in Port Elizabeth South Africa in 2001 The symposium on science and stewardship to protect and sustain wilderness values was one of several symposia held in conjunction with the Congress The papers contained in this proceedings were presented at this symposium and cover seven topics state of knowledge on protected areas issues in South Africa traditional and ecological values of nature wilderness systems and approaches to protection protection of coastal marine and river lake wilderness spiritual benefits religious beliefs and new stories personal and societal values of wilderness and the role of science education and collaborative planning in wilderness protection and restoration      **Science and Stewardship to Protect and Sustain Wilderness Values** Alan E. Watson,Janet Sproull,2003      **The Journal of the Acoustical Society of America** Acoustical Society of America,1963      **Journal of the American Medical Association** ,1924 Includes proceedings of the association papers read at the annual sessions and lists of current medical literature

Music in Epic Film Stephen Meyer,2016-09-01 As both a distinct genre and a particular mode of filmmaking the idea of the epic has been central to the history of cinema Including contributions from both established and emerging film music scholars the ten essays in Music in Epic Film Listening to Spectacle provide a cross section of contemporary scholarship on the subject They explore diverse topics including the function of music in epic narratives the socio political implications of cinematic music and the use of pre existing music in epic films Intended for students and scholars in film music film appreciation and media studies the wide range of topics and the diversity of the films that the authors discuss make Music in Epic Film Listening to Spectacle an ideal introduction to the field of music in epic film      *Official Gazette of the United States Patent Office* United States. Patent Office,1959      **Music, Sound and Filmmakers** James Eugene Wierzbicki,2012 Music Sound and Filmmakers Sonic Style in Cinema is a collection of essays that examine the work of filmmakers whose concern is not just for the eye but also for the ear The bulk of the text focuses on the work of directors Wes Anderson Ingmar Bergman the Coen brothers Peter Greenaway Krzysztof Kie lowski Stanley Kubrick David Lynch Quentin Tarantino Andrey Tarkovsky and Gus Van Sant Significantly the anthology includes a discussion of films administratively controlled by such famously sound conscious producers as David O Selznick and Val Lewton Written by the leading film music scholars from Europe North America and Australia Music Sound and Filmmakers Sonic Style in Cinema will complement other volumes in Film Music coursework or stand on its own among a body of research      *Books in Series* ,1980      *Scientific and Technical Aerospace Reports* ,1978 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Math Advantage Grace M. Burton,1999      The Medical Journal of Australia ,1964      **Guide to Microforms in Print**

,1989      *Billboard* ,1996-02-03 In its 114th year Billboard remains the world s premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends

**National Union Catalog** ,1970 Includes entries for maps and atlases      **Billboard** ,1999-07-10 In its 114th year Billboard remains the world s premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends      **School Library Journal** ,1995      The Medical Directory ...  
,1951

The Top Books of the Year Grade 1rhino Research Memo The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. Grade 1rhino Research Memo : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Grade 1rhino Research Memo : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Grade 1rhino Research Memo : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## **Grade 1rhino Research Memo Introduction**

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