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RESEARCH DEPARTMENT
MEMORANDUM



To: RD, FD Division and Section Heads, Evaluation Section
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From: Patricia de Rosnay, Glenn Carver, Frédéric Vitart, Gianpaolo Balsamo, Nils Wedi, Emanuel Dutra, John Hodkinson, Lars Isaksen, Gábor Radnóti, Tomas Jóhannesson and Sigurdur Thorsteinsson
Date: 28 August 2013 File: RD13-293
Subject: Icelandic glacier mask update in IFS cycle 38r2

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 esuite 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 esuite 38r2 and the esuite 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





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To maintain site running, we need your help to cover our server cost (about \$400/m.) a small donation will help us a lot. Please help us share our service with your friends. Spend enough time on the Internet ortypes of technology- save, and you are obliged to hear about BitTorrent. Probably, if you're new to the concept, you have some questions, and probably some misconceptions about what is exactly torrenting. What is a torrent file? How do you use it? Is it safe? Is it legal? Torrenting can be a complicated process, so before entering the meat of how to download and use torrent files in a secure and legal way, we will cover important terminology. Updated 3-3-2016 by Brendan Hesse: This article received a massive review to provide clearer and more detailed information about torrent files, how to download them and how the process works. What's a Torrent? If you have agitated at all in the torrent download, they have almost certainly met the terms "smile", "peer", and "leech". A seed (or viewer) is someone who is sharing the file; the more seeds, the more potential places to download the file. Someone who's downloading the seeded file is a leech. The more you read a file against seeds will make the file download slower, as there are more people who access the file. Besides, if no one is watching, no one can download. The entire group of seedlings and milks are their pairs, so BitTorrent is called "peer-to-peer" to share files. Collect a file directly through another person, instead of downloading from a server. This pair cluster is also known as a "swarm", which are loading and downloading the same file. How does this work exactly? Essentially, the file is divided into pieces, with each piece being downloaded and compiled by the download program. After you have downloaded enough data, you will start uploading simultaneously the parts of the file you have downloaded, thus increasing the download speed for your other pairs in the shutter.Download clients give preferential treatment to those who assign more bandwidth to climb, and which are are records. Basically, how much more share, you receive. Another mining that may have found is à € øTrackerà € . A tracker is a server that keeps the follow-up (IGMA) of all pairs in a swarm, but does not house any part of the file. Instead, a tracker acts as something of a traffic police, directing pairs to available files. Your download customer will connect to this server as indicated in the .orrent file. There is one thing like the download à € øTrackerlessà € , which we will cover more in a moment. Install a Bittorrent customer and download QBitTorrent files to open a .orrent file and start downloading, you need a download customer to handle the file. 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Considering that there are two download methods, you might be asking what the difference between the two is. .torrent files can be essentially described as treasure maps. These small files contain locations for various parts of the files. Your download client will use the file to find the various parts of what your download is, download the parts, compile them in the file. Magnet files work the same way, but they are a direct line that connects the downloader to each file, instead of needing to follow a "map" provided by a .torrent file. In addition, there are more technical differences that have to do with the tracking servers and DHT procedures, but we will leave those alone for now. If your goal is to simply download a file with a BitTorrent client, both methods work great. Magnetic links take a little longer to start because of establishing direct connections, but they also remove the step of downloading and opening a .torrent file. 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Not only is it likely to land in hot water with your employer, but you will be taking tons of partners accidentally seeing the modern boxes of Thom Yorke tomorrow for a year). Is it legal? The download through a torrent is not inherently illegal. Torrenting is simply an effective means for users to switch files directly. Often, completely legal files are delivered through torrents. A main example is the Linux distros, which are usually downloaded through torrent due to its large sizes. Sometimes filmmakers, musicians or game developers will distribute their work free of charge through torrent files. Well-known game development studio, Blizzard, uses a modified BitTorrent client to offer great updates and game files through peer sharing. However, torrent files have the reputation of being used as a means of piracy, and, to be sure, they are the main method for piracy. Its nature between pairs means that you can get large files without having to deal with the upload or download of a server, so the copyrighted material becomes readily available. That direct access to files doesn't mean you can't catch it, though. Magnetic links and .torrent files may be tracked equally, and some organizations will report such activity to their ISP (then why HBO is able to release numbers in how many times the last episode of Game of Thrones was hacked). It is believed that the download is less offensive than to see, as seeing a file you are offering it to others to download, but you can still be caught by your ISP simply to download it. The consequences can vary from your ISP tracking your activity and accelerating your Internet speeds to incredibly steep fines. Capitol v. Thomas, a particularly high profile case, gave rise to a 1.9 million-dollar fine to share only 24There are some procedures that you can use to keep your activity secret, such as VPNS (Virtual Private Networks) that will obsess your IP address activity and notify you with a cover against the follow-up for your ISP. But really, the sure course sure it's just not participating in piracy at all. Recommendations of the editors



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