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Generation of Ballistic Meteorological Messages - Surface to Surface (METB3s) from Computer Meteorological Messages (METCMs) 5a. CONTRACT NUMBER 5b. GRANT NUMBER 5c. PROGRAM ELEMENT NUMBER 6. AUTHOR(S) James Cogan and David Sauter 5d. PROJECT NUMBER 5e. TASK NUMBER 5f. WORK UNIT NUMBER 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

Generation of Ballistic Meteorological Messages - Surface ...

DTIC ADA587490: Generation of Ballistic Meteorological Messages - Surface to Surface (METB3s) from Computer Meteorological Messages (METCMs) The armed forces of many North Atlantic Treaty Organization (NATO) members and other nations have used ballistic meteorological (MET) messages for surface to surface trajectories (METB3s) for many decades.

DTIC ADA587490: Generation of Ballistic Meteorological ...

The message generation programs produce several Met messages from vertical profiles of Met variables. They are coded in the C programming language, as per the standard set by the American National Standards Institute (ANSI). The current versions of the software can receive input soundings from a Meteorological Measuring Set (MMS), Marwin1, and other radiosonde

Meteorological Message and Test Analysis Software for an ...

The ballistic met message is a coded message containing information about current atmospheric conditions. There are two types of ballistic met messages provided for artillery. Type 2 messages...

FM 6-40 Chptr 11 Meteorological Techniques

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Generation Of Ballistic Meteorological Messages Surface

The aim of this agreement is to define a ballistic meteorological message and to standardize the number of its information digits and their meanings for use by any artillery service of any country. This will make it possible for all armed forces to understand and be able to use ballistic meteorological information issued by any service of any ...

NATO - STANAG 4061 - Adoption of a Standard Ballistic ...

Meteorological messages provide information needed to compensate for the effects of weather on the projectile in flight. ... The ballistic MET message gives wind data in hundreds of mils for ...

MET and the Mortars: Solving the Puzzle

Meteorological data is a critical for the accurate prediction of ballistic trajectories within the atmosphere. A projectile moving through the air is effected by a number of forces including wind, temperature, barometric pressure, and humidity, so accurate monitoring of these parameters is essential.

Ballistic Meteorology / Missile Test Sites | Industries ...

Standard Ballistic Meteorological Message (METB) is used artillery armies that implemented STANAG 4061, in preparation for firing elements of an alternative manner. The validity at steady weather is given in the third group of meteorological reports, which indicates the period of the beginning of the report and the duration of its validity. ...

Meteorological reports in the Perspective Automated ...

METB3 Standard Ballistic Meteorological Message (STANAG 4061) METCM Standard Artillery Computer Meteorological Message (STANAG 4082) METFM Standard Fallout Meteorological Message (STANAG 2103) METGM Standard Gridded Data Meteorological Message (STANAG 6022) METSR Sound Ranging Meteorological Message METSRX Sound Ranging Meteorological Message

STANAG Messages DigiCORA® III USER S GUIDE

Ballistic elements are presented in the ballistic meteorological messages. The basis for creation of STANAG 4061 in 1957 were chosen WFFs. The original materials are not available today and...

(PDF) SOME PROBLEMS WITH THE ESTIMATION OF PROJECTILE ...

The drag also depends on the air density which is a function of the weather conditions and altitude. For ballistic flight, the ball is normally inclined at some angle to the vertical (or horizontal) as it is launched. We resolve the initial velocity into a vertical component V_0 and a horizontal component U_0 .

Ballistic Flight Equations - NASA

STANAG 4082 - Adoption of a Standard Artillery Computer Meteorological Message (METCM) is a NATO Standardization Agreement to provide meteorological information for External ballistics. The information consists of virtual temperature, pressure, and wind speed/direction. The custodian of this STANAG is the MILMET panel, formerly BMWG, within NATO Headquarters.

STANAG 4082 - Wikipedia

buy stanag 4103 : 0 format for requests for meteorological message for ballistic and special purposes from sai global

STANAG 4103 : 0 | FORMAT FOR REQUESTS FOR METEOROLOGICAL ...

The aim of this agreement is to define the format of a request for meteorological messages for ballistic and special purposes. STANAG 4103. April 17, 1990 Format of Requests for Meteorological Messages for Ballistic and Special Purposes AIM The aim of this agreement is to define the format of a request for meteorological messages for ballistic ...

NATO - STANAG 4103 - Format of Requests for Meteorological ...

These products support areas such as meteorological message processing, terrain elevation management for crest clearance, indirect fire effectiveness calculations, and the generation of tabular ...

Development of firing tables for accuracy stretches back ...

Magnitudes of the WFs shown in the Standard Ballistic Meteorological Message are practically used for all calibres, types of projectiles, and charges. Based on the simulations carried out, it is probable that the WFs are sufficiently accurate for standard projectiles of calibre of 175 and 203 mm and high charges ($v_0 = 900\text{--}950$ m/s).

Problem of the reference height of the projectile ...

The METEO11 meteorological messages were generated by the METEO11 MAKER software according to the abstracts of the measured meteorological data and by the METCM & METB3 to METEO11 software were converted the METEO11 from the METCM and METB3 meteorological messages.

METEO11 Meteorological Message gained from the METB3 ...

The Kestrel 5700 Ballistics Weather Meter with LiNK is a uniquely powerful measuring and data logging compact instrument. Take the guesswork out of long-range shooting and is an ideal companion for hunters, competitive, and recreational shooters.

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