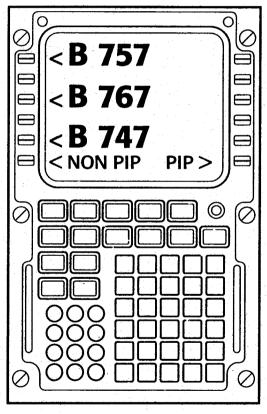
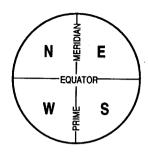
FMC USER'S GUIDE



by Bill Bulfer and Skeet Gifford

COORDINATES



Examples:

N LatW Long N46W050 is coded 4650N N LatE Long N50E020 is coded 5020E

S LatE Long S50E020 is coded 5020S S LatW Long S52W075 is coded 5275W

N LatW Long NO6 N LatE Long NO6 S LatW Long S20 S LatE Long S06

N37W125 is coded 37N25 N06E110 is coded 06E10 S20W125 is coded 20W25

S06E110 is coded 06S10

COMPUTER CREATED WAYPOINTS

Example:

SEA-05 on ELMAA ONE DEPARTURE at Seattle, and MTY-08 on CIENEGA ONE ARRIVAL at Monterrey.

DUPLICATE IDENTIFIERS

Examples:

SHAWNEE (Co.) SHAE1 SHAWNEE (Ca.) SHAE2

Examples:

SHAWNEE (Ok.) SHA1E

NAMING

Entry and exit positions in the database to Oceanic Control Areas are often defined by wpts which are "un-designated", made available as geographical coordinates expressed in full degrees.

The four digits include two for latitude and two f longitude. The first two digits of the ID are the degrees of latitude. The third and fourth digits of the ID are the second and third lon digits. The first lon digit does not appear in the ID.

Positions in the northern hemisphere use the letters "N" and "E"; the southern hemisphere use the letters "S" and "W".

The letter "N" is used for north latitude and west longitude. The letter "E" is used for north latitude and east longitude.

The letter "S" is used for south latitude and east longitude. The letter "W" is used for south latitude and west longitude.

Placement of the letter in the five character set indicates what the first digit of longitude is published as.

The letter is the last character if the *longitude* is less than 100° (above example).

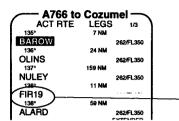
The letter is the third character if the longitude i. 100° or greater.

Occasionally a turn point will exist that has not been assigned a name. The FMC recognizes the need for a "path and terminator", and assigns a name. Since it is 6 characters, the pilot is unable to check its location in the Nav Data Base WPT IDENT.

Should application of these rules result in more than one wpt having the same identifier, a new identifier is generated for each wpt by developing a four (or less) character identifier and adding a suffix mumber or letter.

If the suffix number reaches 10, start over with one and place the suffix in the fourth-character position. The original fourth character is placed in the fifth-character position.

FIR, UIR, CONTROLLED AIRSPACE



For an FIR, FIR plus a numeric from 02 to 99 is used.

For a UIR, UIR plus a numeric from 02 to 99 is used. For Controlled Airspace, use the 3 letter character for the type of controlled airspace plus a numeric from 02 to 99. An identifier so developed is unique within the geographic area.

ATZ for Aerodrome Traffic Zone

CTA for Control Area

CTR for Control Zone

FIR for Flight Information Region [FIR19] on Jeppesen chart.

TIZ for Traffic Information Zone TMA for Terminal Control Area UIR for Upper Flight Information Region

NAMED WAYPOINTS

National Flight Data Center is responsible for naming waypoints. This is the convention used.

One Word Names

Full name is used if five or less characters are involved.

Example: LOGAN

More than 5 letters:

Eliminate double letters.

Example: KIMMEL becomes KIMEL

Keep the first letter, first vowel, and last letter.

Drop other vowels starting from right to left.

Example: BURWELL becomes BURWL Drop consonants, starting from right to left.

Example: ANDREWS becomes ANDRS

BRIDGEPORT becomes BRIDT

Multiple Word Names

Use first letter of the first word and abbreviate the last word using the above rules sequentially until a total of five characters remain.

Example: CLEAR LAKE becomes CLAKE

Phonetic Letter Names

When an ICAO phonetic alpha character is used as a wpt name (Alpha, Bravo, Charlie, etc) the rules above are used.

Example: November becomes NOVMR.

When a double phonetic such as Tango India is used as the wpt name, use the rules established above under multiple word names.

When a phonetic alpha character followed by a numeric and/or other alpha characters (A1, A1N, B2, etc.) is used as the wpt name, it will appear the same in the database as shown on charts

NON DIRECTONAL BEACONS (NDB)

At Jeppesen, most NDBs are now identified by the use of the station identifier and loaded in the NDB file. Ex: Galveston NDB is GLS. Until recently, where more than one NDB with the same identifier existed, only one was placed in the NDB file; the other was placed in the wpt file - meaning it could only be accessed by its full name.

The suffix **NB** is used in certain installations; in this case the fix is loaded in the wpt file. Ex: GLSNB