

## Chapter 4

# Meaconing, Intrusion, Jamming, and Interference Reporting

### 4-1. Introduction

a. Meaconing, intrusion, and jamming are deliberate actions intended to deny an enemy the effective use of the electromagnetic spectrum. Interference is the unintentional disruption of the effective use of the electromagnetic spectrum by friendly, enemy, or atmospheric sources. Collectively, meaconing, intrusion, jamming, and interference incidents are referred to as MIJI incidents.

b. MIJI reports document all disruptions of--

- Radios.
- Radars.
- Navigational aids (NAVAIDS).
- Satellites.
- Electro-optics.

Disruptions caused by equipment malfunctions or destruction are exceptions. The MIJI report serves two purposes. First, it provides information to the tactical commander allowing timely decisions to be made to overcome the MIJI problem. Second, it provides a historical record of MIJI incidents from which appropriate ECCM techniques and measures can be developed. This helps us to counter future attempts by the enemy to deny us the effective use of the electromagnetic spectrum.

c. This chapter gives instructions for completing MIJI reports for communications and noncommunications emitters. To fulfill the two purposes stated above, there are two kinds of MIJI reports. The MIJIFEEDER voice template message is a brief report of a MIJI incident. It serves as a decision-making tool for the command. The MIJIFEEDER record message is a complete report of a MIJI incident. This provides a historical record from which appropriate ECCM techniques and measures can be developed. DA Pam 25-7 gives instructions for completing the MIJI reports.

**4-2. Terms**

a. **Meaconing.** Meaconing is a system of receiving radio beacon signals from NAVAIDs and rebroadcasting them on the same frequency to confuse navigation. The enemy conducts meaconing operations against us to prevent our aircraft and ships from arriving at their intended targets or destinations. Successful enemy meaconing causes--

- Aircraft to be lured into hot landing zones or enemy airspace.
- Ships to be diverted from their intended routes.
- Bombers to expend ordnance on false targets.
- Ground stations to receive inaccurate bearings or position locations.

b. **Intrusion.** Intrusion is intentionally inserting electromagnetic energy into transmission paths in any manner. The object is to deceive equipment operators or cause confusion. The enemy conducts intrusion operations against us by inserting false information into our receiver paths. This false information may consist of voice instructions, ghost targets, coordinates for fire missions, or even rebroadcasting of prerecorded data transmissions.

c. **Jamming.** Jamming is deliberately radiating, reradiating, or reflecting electromagnetic energy to impair the use of electronic devices, equipment, or systems. The enemy conducts jamming operations against us to prevent us from effectively employing our radios, radars, NAVAIDs, satellites, and electro-optics.

d. **Interference.** Interference is any electrical disturbance that causes undesirable responses in electronic equipment. As a MIJI term, interference refers to the unintentional disruption of the use of radios, radars, NAVAIDs, satellites, and electro-optics. This interference may be of friendly, enemy, or atmospheric origin. For example, a civilian radio broadcast may interfere with military communications.

**4-3. MIJIFEEDER Voice Template**

a. **Purpose and use.** The MIJIFEEDER voice template has only the information needed to adequately inform the tactical commander of the incident in a timely manner. It is used to make evaluation of enemy actions or intentions easier and to provide data to implement appropriate counter-countermeasures.

b. **Reporting procedure.**

(1) The MIJIFEEDER voice template is forwarded through the chain of command to the unit operations center by the equipment operator experiencing the MIJI incident. The report should be forwarded using the most expeditious secure communications means available.

(2) Upon receiving the MIJFEEDER voice template, the signal officer--

(a) Coordinates the unit response to the MIJI incident with the unit operations officer, intelligence officer, fire support officer, and unit commander(s), as applicable and appropriate.

(b) Consolidates the voice templates referring to the same MIJI incident.

(c) Forwards one MIJFEEDER voice template report for each MIJI incident through operations channels to the corps operations center or as appropriate. This report should be accompanied by any requests for support the command needs to overcome the MIJI problem.

(d) Initiates staff action to complete the MIJFEEDER record message as quickly as possible. (Coordination will not delay reporting the incident within 24 hours.)

(3) Upon receiving the MIJFEEDER voice template, in the process of forwarding it through operations channels, the signal officer at each operations center takes the following actions:

(a) Provides support as requested by the unit submitting the voice template report, if possible and deemed appropriate by the command.

(b) Informs the operations officer and intelligence officer of the details of the MIJI incident.

c. Report format and contents. The MIJFEEDER voice template has been developed for use under the JINTACCS program. It is designed to ensure interoperability on the battlefield during combined, joint, and intra-Army operations. The standardized, simple format permits the expeditious notification of appropriate action elements in time-critical situations. Only the completed and underlined areas (as appropriate) of the format are transmitted. As shown in Figure 4-1, MIJFEEDER voice templates are self-explanatory and contain ten items of information. When the message is transmitted over nonsecure means, each line number is stated and the completed information must be encrypted. When a secure means is used, the title of each line is transmitted along with the completed information. The operator of the affected system fills out the MIJFEEDER voice template as shown below.

- Line 1 - Enter the unit designation.
- Line 2 - Enter the type of interference encountered:
  - Meaconing
  - Jamming
  - Intrusion
  - Interference
  - Chaff

## FM 24-33

- Line 3 - Enter the unit location in either of two ways: Longitude and latitude in minutes and seconds, or in complete grid coordinates down to 10 or 100 meter increments.

- Line 4 - Enter 2 digits each for day, hour, minute, and 1 letter for the time zone for the start of the MIJI incident.

Line 5 - Enter 2 digits each for day, hour, minute, and 1 letter for the time zone for the end of the MIJI incident.

- Line 6 - Enter the nomenclature for the equipment affected.

- Line 7 - Enter the channel, frequency, or frequency range affected and the unit of measure. Examples: 3456.2 kHz, 42.35 MHz, or 2.5 to 2.7 GHz.

- Line 8 - Enter, in your own words, a brief description or other information regarding the MIJI incident.

- Line 9 - When required, enter the hour, minute, and time zone.

- Line 10 - Enter the message authentication in accordance with the joint task force (JTF) requirements.

Figure 4-2 is an example of a completed voice template. The circled numbers to the right of each line in Figure 4-2 correspond to extracts of the MIJIFEEDER record message format in Annex 81, DA Pam 25-7.

MIJIFEEDER VOICE TEMPLATE Pg 1 of 1

THIS IS \_\_\_\_\_ MIJIFEEDER \_\_\_\_\_ OVER  
 addressee \_\_\_\_\_ originator \_\_\_\_\_  
 addressee answers then \_\_\_\_\_ THIS IS \_\_\_\_\_  
 originator responds \_\_\_\_\_ addressee \_\_\_\_\_ originator \_\_\_\_\_

FLASH    IMMEDIATE    PRIORITY    ROUTINE    (Underline and transmit the  
          TOP SECRET    SECRET    CONFIDENTIAL    precedence of this message.)  
          UNCLASSIFIED    (Underline and transmit the  
              security classification of  
              this message.)

MIJIFEEDER  
LINE 1 (or) UNIT \_\_\_\_\_ (Unit Identification)  
LINE 2 (or) TYPE \_\_\_\_\_ (Type of Interference)  
LINE 3 (or) LOCATION \_\_\_\_\_ (Location - LAT/LONG or UTM)  
LINE 4 (or) ONTIME \_\_\_\_\_ (Start Day-Time-Zone)  
LINE 5 (or) OFFTIME \_\_\_\_\_ (End Day-Time-Zone)  
LINE 6 (or) EFFECTS \_\_\_\_\_ (Operations/Equipment Affected)  
LINE 7 (or) FREQUENCY \_\_\_\_\_ (Frequency/Frequency Range)  
LINE 8 (or) NARRATIVE \_\_\_\_\_  
    \_\_\_\_\_  
    \_\_\_\_\_  
    \_\_\_\_\_

LINE 9 (or) TIME \_\_\_\_\_ (Message Hour-Minute-Zone when  
    required)  
LINE 10 (or) AUTHENTICATION IS \_\_\_\_\_ (Message Authentication IAW JTF  
    Procedures)  
                  OVER

Figure 4-1. MIJIFEEDER voice template.

MIJIFEEDER VOICE TEMPLATE Pg 1 of 1

3H28 THIS IS 7M21 MIJIFEEDER OVER  
 addressee originator

addressee answers then THIS IS 7M21  
 originator responds addressee originator

FLASH IMMEDIATE PRIORITY ROUTINE  
 TOP SECRET SECRET CONFIDENTIAL

UNCLASSIFIED

(Underline and transmit the  
 precedence of this message.)  
 (Underline and transmit the  
 security classification of  
 this message.)

MIJIFEEDER

LINE 1 (or) ~~UNIT~~ 56TH INF. DIV. (Unit Identification) 5  
 LINE 2 (or) ~~TYPE~~ INTRUSION (Type of Interference) 8  
 LINE 3 (or) ~~LOCATION~~ 32TMV 123123 (Location - LAT/LONG or UTM) 6  
 LINE 4 (or) ~~ONTIME~~ 252330Z (Start Day-Time-Zone) 9  
 LINE 5 (or) ~~OFFTIME~~ 260230Z (End Day-Time-Zone) 10  
 LINE 6 (or) ~~EFFECTS~~ SEARCH RADAR (Operations/Equipment Affected) 13  
 LINE 7 (or) ~~FREQUENCY~~ 42.35 MHZ (Frequency/Frequency Range) 19  
 LINE 8 (or) ~~NARRATIVE~~ RADAR PICTURE TO NORTHEAST  
ERRATIC. 37

~~LINE 9~~ (or) ~~TIME~~ 0235Z (Message Hour-Minute-Zone when  
 required)

~~LINE 10~~ (or) ~~AUTHENTICATION IS~~ JU (Message Authentication IAW JTF  
 Procedures)

OVER

Figure 4-2. Completed MIJIFEEDER voice template.

#### 4-4. MIJFEEDER Record Message Report

a. Purpose and use. The MIJFEEDER record message is a complete report of a MIJI incident. It provides a basis for developing appropriate counteraction measures to be implemented at proper command levels. AR 105-3 and DA Pam 25-7 establish the information to be included in this report. The Joint Electronic Warfare Center (JEWEC) is the action agency for this report. All MIJFEEDER record message reports initially evaluated as nonexercise should be forwarded as soon as possible to the JEWEC. The JEWEC uses these reports to develop trends and to evaluate foreign ECM operations. They are also used by the JEWEC to recommend operational methods and equipment changes that will reduce MIJI vulnerability of our:

- Radios.
- Radars.
- NAVAIDs.
- Satellites.
- Electro-optics.

b. Reporting procedures.

(1) The MIJFEEDER record message is forwarded by the signal officer of the affected unit to the JEWEC SAN ANTONIO TX//OPM//through operations channels to the corps operations center. All MIJFEEDER reports are forwarded via secure means within 24 hours of the MIJI incident.

(2) Items such as photographs, diagrams, and tape recordings, that cannot be included in the message are forwarded by other means (for example, US mail) to the JEWEC/OPM, San Antonio, TX 78243-5000, as soon as possible.

(3) Each operations center receiving this report should check the contents for information that may be of use to the entire command.

c. Report format and contents. Excerpts from a joint message form and DA Pam 25-7 at Figure 4-3 illustrate the proper MIJFEEDER record message format. The circled numbers on the joint message form correspond with the explanation in Annex 81, DA Pam 25-7. Entry lists 11, 97, and 98, referenced in the explanation column, are Appendices A, B, and C of this manual.

JOINT MESSAGE FORM										SECURITY CLASSIFICATION	BOOK	MESSAGE HANDLING INSTRUCTIONS
PAGE	DTG/RELEASE TIME			PRECEDENCE		CLASS	SPECAT	LWF	CIC	ORIG MSG IDENT		
OF	DATE TIME	MONTH	YR	ACT	INFO							
1	EXER/BOLD PUSH 85/UMPIRES ONLY//											
2	OPER/YELLOWSTONE/IECORPS 1602/3ELLY DEAN/APPLE REF//											
3	MSGID/MIJIFEEDER/56TH INF 2EV/2509003/SEP/AMP/1//											

EX	SET NAME FIELD NAME	CAT s f	NR OF CHAR	EXPLANATION
				NOTE: The initial sets (EXER, OPER, MSGID, REF) are described briefly below. See Annex 1 for complete details.
				NOTE: Do not use both EXER and OPER in the same message. If there is no exercise or operation do not use either.
1	EXER	c		
	exer name	m	1-56ANBS	Enter the exercise name.
	add id	o	1-16AB	Enter the additional exercise identifier.
2	OPER	c		
	oper name	m	1-32ANBS	Enter the operation name.
	plan orig & number	o	3-23ANS	Enter the headquarters originating the plan and the plan number.
	option name	o	1-23ANBS	Use these two fields to enter code names for options within the operations plan.
	2d option	o	1-23ANBS	
3	MSGID	m		
	title	m	10A	Enter MIJIFEEDER
	originator	m	1-20ANBS	Enter unit name of message originator.
	serial nr	o	1-7ANBS	Enter message serial number.
	month	o	3A	Enter first 3 letters of the month.
	qualifier	o	3A	Enter qualifier code.
	qlf serial	o	1-3N	Enter qualifier serial number.

Figure 4-3. Sample MIJIFEEDER record message format.



EX	SET NAME FIELD NAME	CAT s f	NR OF CHAR	EXPLANATION
4	REF	o r		Use this set to reference other messages.
	serial letter	m	1A	Enter letter A for the first message you reference, B for the second etc.
	msg title or ref type	m	1-20ANBS	Enter the JINTACCS message short title OR one of the following codes for other types of references: CON DOC LTR RMG TEL VMG. (Add a free text set to explain.)
	originator	m	1-20ANBS	Enter unit name of reference originator.
	dtg	m	6-12AN	Enter date-time group of reference.
	serial nr	o	1-7ANBS	Enter serial number of the reference.
	special not	o	5A	Enter PASEP or NOTAL.
	nasis code	o r	3A	FOR NATO USE ONLY. Enter the NASIS code for message subject matter.
	AMPN NARR	o c		You must use a free text set to explain the reference if it is not a JINTACCS message.
				NOTE: Remember you can add free text sets throughout the message. See chapter 2, section VI for free text instructions
5	UNIT	m		Use this set to report the MIJI victim.
	unit name	m		Enter the unit name in one of the following ways:
			6-21ANS	Enter the following:
			1-4AN	• Enter unit number or UNK.
			1S	• Then enter a hyphen (-).
			2-8A	• Then enter organization type.
			1S	• Then enter a hyphen (-).
			1-7A	• Then enter echelon.
6	location	m		OR Enter the unit designation.
				Enter the friendly unit location at the time of the event in one of the following ways:

Figure 4-3. Sample MIJIFEEDER record message format (continued).

4 REF/A/PLANNED/II CORPS/24+Y8835005/240900L/NOTAL/ABE//  
 UNIT/HQ 56TH INF DIV/32THV123123/CHARLIE EQU//  
 MIJITYP/INTRUS/252130Z/ABRUPT/252142Z/FADEOUT/SEARCH RADAR//

EX	SET NAME FIELD NAME	CAT s f	NR OF CHAR	EXPLANATION																
7	call sign	o	11-15AN	Lat/Long (min. or sec.)																
			11-13AN	UTM (10 m or 100 m)																
			1-17ANBS	Enter the victim's call sign.																
8	MIJITYP	m	3-8A	NOTE: Sets MIJITYPE, MIJIEFF, MIJIPRM, MIJISAT and NARR are a repeatable segment. Repeat them as a group to report multiple MIJI types. You must repeat the sets in their original order. You must include the mandatory sets in each repetition.																
				Use this set to report MIJI type, place and time of event, and operator position/equipment affected.																
				Enter the code for MIJI type:																
9	time on	m	7AN	<table><tr><td>TYPE</td><td>CODE</td><td>TYPE</td><td>CODE</td></tr><tr><td>Interference</td><td>INTERFER</td><td>Meaconing</td><td>MEACON</td></tr><tr><td>Intrusion</td><td>INTRUS</td><td>Chaff</td><td>CHAFF</td></tr><tr><td>Jamming</td><td>JAMMING</td><td>Other</td><td>OTR</td></tr></table>	TYPE	CODE	TYPE	CODE	Interference	INTERFER	Meaconing	MEACON	Intrusion	INTRUS	Chaff	CHAFF	Jamming	JAMMING	Other	OTR
				TYPE	CODE	TYPE	CODE													
				Interference	INTERFER	Meaconing	MEACON													
Intrusion	INTRUS	Chaff	CHAFF																	
Jamming	JAMMING	Other	OTR																	
10	mi ji began	m	5-6A	Explain OTR in a free-text set.																
				Enter 2 digits each for day, hour, minute, 1 letter for time zone for the start of the MIJI event.																
				Enter the code describing how the MIJI incident began:																
11	time off	m	7AN	<table><tr><td>TYPE</td><td>CODE</td></tr><tr><td>Abrupt</td><td>ABRUPT</td></tr><tr><td>Fade-In</td><td>FADEIN</td></tr><tr><td>Other</td><td>OTHER</td></tr></table>	TYPE	CODE	Abrupt	ABRUPT	Fade-In	FADEIN	Other	OTHER								
				TYPE	CODE															
				Abrupt	ABRUPT															
Fade-In	FADEIN																			
Other	OTHER																			
				Explain OTHER in a free text set.																
				Enter the time as in the time on field for the end of the MIJI event.																

Figure 4-3. Sample MIJIFEEDER record message format (continued).

EX	SET NAME FIELD NAME	CAT s f	NR OF CHAR	EXPLANATION																																				
12	mi ji ended	m	5-7A	Enter the code describing how the MIJI incident ended:  <table><tr><td><u>TYPE</u></td><td><u>CODE</u></td></tr><tr><td>Abrupt</td><td>ABRUPT</td></tr><tr><td>Fade-Out</td><td>FADEOUT</td></tr><tr><td>Other</td><td>OTHER</td></tr></table> Explain OTHER in a free text set.	<u>TYPE</u>	<u>CODE</u>	Abrupt	ABRUPT	Fade-Out	FADEOUT	Other	OTHER																												
<u>TYPE</u>	<u>CODE</u>																																							
Abrupt	ABRUPT																																							
Fade-Out	FADEOUT																																							
Other	OTHER																																							
13	pos, equip	m	1-20ANBS	Enter the name(s) of the operator position(s) and/or nomenclature of equipment affected.																																				
	MIJIEFF	m		Use this set to describe the MIJI effects.																																				
14	interference	m	3-10A	Enter the code for interference type:  <table><tr><td><u>TYPE</u></td><td><u>CODE</u></td><td><u>TYPE</u></td><td><u>CODE</u></td></tr><tr><td>Analog</td><td>ANALOG</td><td>Continuous</td><td>CWRANDOM</td></tr><tr><td>Analog</td><td>ANALCHAT</td><td>wave (CW)/</td><td></td></tr><tr><td>chatter</td><td></td><td>random</td><td></td></tr><tr><td>Analog</td><td>ANALMUSIC</td><td>Intentional</td><td>INTNOISE</td></tr><tr><td>music</td><td></td><td>noise</td><td></td></tr><tr><td>Analog</td><td>ANALVOICE</td><td>Noise/Static</td><td>NOISESTATC</td></tr><tr><td>voice</td><td></td><td>Chaff</td><td>CHAFF</td></tr><tr><td>Bagpipes</td><td>BAGPIPES</td><td>Other</td><td>OTR</td></tr></table> Explain CHAFF or OTR in a free-text set.	<u>TYPE</u>	<u>CODE</u>	<u>TYPE</u>	<u>CODE</u>	Analog	ANALOG	Continuous	CWRANDOM	Analog	ANALCHAT	wave (CW)/		chatter		random		Analog	ANALMUSIC	Intentional	INTNOISE	music		noise		Analog	ANALVOICE	Noise/Static	NOISESTATC	voice		Chaff	CHAFF	Bagpipes	BAGPIPES	Other	OTR
<u>TYPE</u>	<u>CODE</u>	<u>TYPE</u>	<u>CODE</u>																																					
Analog	ANALOG	Continuous	CWRANDOM																																					
Analog	ANALCHAT	wave (CW)/																																						
chatter		random																																						
Analog	ANALMUSIC	Intentional	INTNOISE																																					
music		noise																																						
Analog	ANALVOICE	Noise/Static	NOISESTATC																																					
voice		Chaff	CHAFF																																					
Bagpipes	BAGPIPES	Other	OTR																																					
15	ecm effect	m	3-10A	Enter the code for ECM effect:  <table><tr><td><u>EFFECT</u></td><td><u>CODE</u></td><td><u>EFFECT</u></td><td><u>CODE</u></td></tr><tr><td>Denial</td><td>DENIAL</td><td>Loss of Secure</td><td>LOSTSECURE</td></tr><tr><td>Increased DELAYS</td><td></td><td>mode</td><td></td></tr><tr><td>handling</td><td></td><td>Nuisance</td><td>NUISANCE</td></tr><tr><td>time</td><td></td><td>Break Lock</td><td>BREAKLOCK</td></tr><tr><td>Inter-</td><td>INTER-</td><td>Other</td><td>OTR</td></tr><tr><td>mittent</td><td>MITNT</td><td></td><td></td></tr></table> Explain OTR in a free-text set.	<u>EFFECT</u>	<u>CODE</u>	<u>EFFECT</u>	<u>CODE</u>	Denial	DENIAL	Loss of Secure	LOSTSECURE	Increased DELAYS		mode		handling		Nuisance	NUISANCE	time		Break Lock	BREAKLOCK	Inter-	INTER-	Other	OTR	mittent	MITNT										
<u>EFFECT</u>	<u>CODE</u>	<u>EFFECT</u>	<u>CODE</u>																																					
Denial	DENIAL	Loss of Secure	LOSTSECURE																																					
Increased DELAYS		mode																																						
handling		Nuisance	NUISANCE																																					
time		Break Lock	BREAKLOCK																																					
Inter-	INTER-	Other	OTR																																					
mittent	MITNT																																							
16	eccm action	m	3-10A	Enter the code for friendly ECCM action:  <table><tr><td><u>ECCM ACTION</u></td><td><u>CODE</u></td></tr><tr><td>Worked Through</td><td>WORKTHRU</td></tr><tr><td>Cease Emitting</td><td>CEASEXMTR</td></tr><tr><td>Change Band</td><td>CHANGEBAND</td></tr><tr><td>Change Frequency</td><td>CHANGEFREQ</td></tr><tr><td>Change Location</td><td>CHANGELOC</td></tr><tr><td>Increase Power</td><td>INCRSPWR</td></tr><tr><td>Change Mode</td><td>CHANGEMODE</td></tr><tr><td>Change Technical</td><td>CHANGETECH</td></tr><tr><td>Characteristics</td><td></td></tr><tr><td>Change Directivity</td><td>CHANGEDIR</td></tr><tr><td>Chaff</td><td>CHAFF</td></tr><tr><td>Other</td><td>OTR</td></tr></table> Explain OTR in a free-test set.	<u>ECCM ACTION</u>	<u>CODE</u>	Worked Through	WORKTHRU	Cease Emitting	CEASEXMTR	Change Band	CHANGEBAND	Change Frequency	CHANGEFREQ	Change Location	CHANGELOC	Increase Power	INCRSPWR	Change Mode	CHANGEMODE	Change Technical	CHANGETECH	Characteristics		Change Directivity	CHANGEDIR	Chaff	CHAFF	Other	OTR										
<u>ECCM ACTION</u>	<u>CODE</u>																																							
Worked Through	WORKTHRU																																							
Cease Emitting	CEASEXMTR																																							
Change Band	CHANGEBAND																																							
Change Frequency	CHANGEFREQ																																							
Change Location	CHANGELOC																																							
Increase Power	INCRSPWR																																							
Change Mode	CHANGEMODE																																							
Change Technical	CHANGETECH																																							
Characteristics																																								
Change Directivity	CHANGEDIR																																							
Chaff	CHAFF																																							
Other	OTR																																							

Figure 4-3. Sample MIJIFEEDER record message format (continued).

MIJIFE/INTRUS/25230Z/ABRUPT/252345Z/EADEFW/SEARCH-BAZAB//  
 MIJIFE/NOISE/STATC/DELAYS/WORKTHRU/INCRSPW/75//  
 MIJIPRM/42.35MHZ/42MHZ/43MHZ/RSS:4/R45T/L2AB/23KPPS/45.35MHZ  
 45.45HZ/CIRC//

EX	SET NAME FIELD NAME	CAT s f	NR OF CHAR	EXPLANATION
17	enemy reaction	c	3-10A	Enter the code as in the previous field for enemy reaction to ECCM actions.
18	percent effect	o	1-2N	Enter the percent of effectiveness of the MIJI prior to starting countermeasures.
19	MIJIPRM freq	m r m	3-11ANS 1-8NS 2-3A	<p>Use this set to report MIJI data.</p> <p>Enter the frequency in use at time of MIJI event as follows:</p> <ul style="list-style-type: none"> <li>Enter the number (use decimal point if needed).</li> <li>Then enter unit of measure: hertz HZ, kilohertz KHZ, megahertz MHZ, or gigahertz GHZ.</li> </ul> <p>NOTE: Use the next 2 fields to report a bandwidth being interfered with</p>
20	lower freq	c	3-11ANS	Enter the lowest frequency affected by ECM.
21	upper freq	c	3-11ANS	Enter the highest frequency affected by ECM.
22	signal strength MSS: or RSS:	o	1-2N 1N	<p>Enter one of the following field names and signal strength:</p> <p>Measured signal strength in decibels.</p> <p>OR</p> <p>Rated signal strength. Enter a scale value: 1 (lowest), 2,3,4, or 5 (highest).</p>
23	miji bearing or loc	o	4-15AN	Enter the bearing or location of the source of the MIJI from the victim in one of the following ways:

Figure 4-3. Sample MIJIFEEDER record message format (continued).

EX	SET NAME FIELD NAME	CAT s f	NR OF CHAR	EXPLANATION
	bearing	o	4AN	Enter the bearing of the source of the MIJI from the victim as follows:
			3N 1A	<ul style="list-style-type: none"> <li>• Enter the angle in degrees.</li> <li>• Then enter T (for True North) or M (for Magnetic North).</li> </ul>
	or miji fix - utm 100 meters	o	11AN	Enter the location of the MIJI source in UTM coordinates to 100 meters. <b>ENTRY LIST 11</b>
	or miji cut - utm 1000 meters	o	9AN	Enter the location of the MIJI source in UTM coordinates to 1000 meters. <b>ENTRY LIST 11</b>
	or miji fix - seconds	o	15AN	Enter the location of the MIJI source in Lat/Long coordinates to the nearest second. <b>ENTRY LIST 11</b>
	or miji cut - minutes	o	11AN	Enter the location of the MIJI source in Lat/Long coordinates to the nearest minute. <b>ENTRY LIST 11</b>
24	elint notation	o	4-5AN	Enter the ELINT notation or sorting code equating to the ECM signal IAW Data Requirement No E-5A, DIAM 65-6-6.
25	pulse repetition freq	o	3-7AN	Enter the pulse repetition frequency of ECM as follows:
			1-4AN	• Enter the number. K or M permitted as last character.
			2-3A	• Enter PPS.
26	ecm	o	3-11ANS	Enter the ECM center frequency as follows:
			1-8NS	• Enter the number (use decimal point if needed).
			2-3A	• Then enter unit of measure: hertz HZ, kilohertz KHZ, megahertz MHZ, or gigahertz GHZ.
27	scan rate	o	3-8ANS	Enter the ECM rate as follows:
			1-5NS	• Enter the number (Use decimal point if needed).
			2-3A	• Then enter unit of measure: Hertz HZ, or seconds per cycle SPC.
28	scan type	o	2-4A	Enter the ECM scan type. <b>ENTRY LIST 92</b>

Figure 4-3. Sample MIJIFEEDER record message format (continued).

MIJIPBM/42.35MHz/42MHz/43MHz/SSS:4/045T/42DB/23KPPS/45.35MHz/43.45MHz/CIRC//  
 MIJISAT/426/DOWN/42.35/1234DB/DIPOLE/125/1235DB/45//

EX	SET NAME FIELD NAME	CAT s f	NR OF CHAR	EXPLANATION
	MIJISAT	c		This set is required if the MIJI incident being reported affects satellite links.
29	space obj id	m	3-6N	Enter the NSSC code for the space object.
30	link	m	2-4A	Enter the signal links affected by the MIJI. Use UP for uplink or DOWN for downlink.
31	freq	m	1-8NS	Enter the receiver's frequency bandwidth in megahertz (use decimal point if needed).
32	receiver sensitivity	m	3-6ANS	Enter receiver sensitivity in decibels, followed by DB. (Use hyphen for negative values.)
33	antenna type	m	5-17ANS	Enter the code for antenna type:  <div style="display: flex; justify-content: space-between;"> <div> <u>TYPE</u>  Dipole  Omnidirectional  Phased Array  Other </div> <div> <u>CODE</u>  DIPOLE  OMNIDIRECTIONAL  PHASED ARRAY  OTHER </div> </div> <p>Explain OTHER in free text set.</p>
34	antenna size	m	1-3N	Enter the size of the antenna in feet.
35	antenna gain	m	3-6ANS	Enter antenna gain in decibels, followed by DB. (Use hyphen for negative values.)
36	antenna elevation	m	2N	Enter the angular elevation of the antenna to the space object.

Figure 4-3. Sample MIJFEEDER record message format (continued).

EX	SET NAME FIELD NAME	CAT s f	NR OF CHAR	EXPLANATION
37	NARR	o		Enter free text as necessary concerning sets MIJITYP, MIJIEFF, MIJIPRM, and MIJISAT.
	MIJIOTR	m		Use this set to report other information regarding the MIJI incident.
38	contact name	m	1-20ANBS	Enter the name of the person knowledgeable about the MIJI incident.
39	contact number	m		Enter the MIJI contact number in one of the following ways:
	phone number		3-15ANBS	Enter the telephone number of the person entered in the contact name field.
	or freq		1-8NS	<u>OR</u> Enter the contact frequency in megahertz of the person entered in the contact name field. (Use decimal point if needed.)
	or designator		1-8AN	<u>OR</u> Enter the contact frequency designator of the person entered in the contact name field.
40	technical assistance	m	1A	Enter Y (for yes) if technical assistance is required. Otherwise, enter N (for no).
41	nickname or codeword	m		Enter the nickname or codeword in one of following ways:
	exercise nickname		1-56ANBS	Enter the nickname of an exercise being conducted nearby, in which the reporting unit is <u>not</u> participating.
	or operation codeword		1-32ANBS	<u>OR</u> Enter the name or codeword of an operation being conducted nearby, in which the reporting unit is <u>not</u> participating.

Figure 4-3. Sample MIJIFEEDER record message format (continued).

37 HARR/RADAR-236THUR-12-NORTHEAST-ERRATIC//  
MISSIOIR/LT JONES/AV456-0113/Y/HOT DOG TWO/DIS/ANT/MNT//  
10TRUNIT  
/LIST/UNITDES  
/CONF/545-820-8N (I-NAWK)  
/NEAR/35TH 228-24//

EX	SET NAME FIELD NAME	CAT s f	NR OF CHAR	EXPLANATION																
42	trouble shooting action       10TRUNIT	m r     o	3A	<p>Enter the troubleshooting action taken at receiver site to isolate the source or cause of the MIJI incident. Select from one of the following:</p> <table><tr><td>TYPE</td><td>CODE</td></tr><tr><td>Disconnect Antenna</td><td>DIS</td></tr><tr><td>On/Off Check</td><td>OFF</td></tr><tr><td>Different Receiver</td><td>RCV</td></tr><tr><td>Switch Antenna</td><td>ANT</td></tr><tr><td>Check Filters</td><td>FIL</td></tr><tr><td>Maintenance Check</td><td>MNT</td></tr><tr><td>Other</td><td>OTR</td></tr></table> <p>Explain OTR in free text set.</p> <p>Use this set to identify other units confirming the MIJI incident or nearby units/vessels which could have caused the incident.</p> <p>Enter the set name, then the column headers on the next line. Start each header in the space shown below:</p> <p>/LIST      /UNITDES 1           6</p>	TYPE	CODE	Disconnect Antenna	DIS	On/Off Check	OFF	Different Receiver	RCV	Switch Antenna	ANT	Check Filters	FIL	Maintenance Check	MNT	Other	OTR
TYPE	CODE																			
Disconnect Antenna	DIS																			
On/Off Check	OFF																			
Different Receiver	RCV																			
Switch Antenna	ANT																			
Check Filters	FIL																			
Maintenance Check	MNT																			
Other	OTR																			
43	LIST	m	4A	<b>LEFT JUSTIFY</b> Enter the code CONF for confirming units or NEAR for nearby units.																
44	UNITDES	m	1-24ANBS	<b>LEFT JUSTIFY</b> Enter the unit designator.																

Figure 4-3. Sample MIJIFEEDER record message format (continued).



EX	SET NAME FIELD NAME	CAT s f	NR OF CHAR	EXPLANATION
45	DECL	c		If the message is classified, use this set to enter declassification or downgrading instructions.
	inst	m	1-25ANBS	Enter the instructions in one of the following ways:  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>INSTRUCTIONS</u></p> <p>Declassify</p> <p>Downgrade to CONFIDENTIAL</p> <p>Downgrade to SECRET</p> <p>Originating Agency's Determination Required</p> </div> <div style="width: 45%;"> <p><u>ENTER</u></p> <p>date or event</p> <p>DG(C), then date or event</p> <p>DG(S), then date or event</p> <p>OADR</p> </div> </div>

Figure 4-3. Sample MIJIFEEDER record message format (continued).

4-5. Meaconing, Intrusion, Jamming, and Interference Security Classification Guide

Security classification of MIJI incidents or MIJI evaluation reports is determined principally by intent and location of the implied or stated source of the problem. Stations in combat areas or having a sensitive military mission ordinarily classify all MIJI reports.

Information Revealing:	Classification
a. The specific identification of an unfriendly platform or location by country or coordinates as the source of meaconing, intrusion, or jamming incident.	S; OADR
b. The term meaconing, intrusion, jamming and interference; the acronym MIJI; and that MIJI analysis is a function of the JEWIC.	U
c. That an organization submits MIJI incident reports.	U
d. Broadly stated objectives of the MIJI program, including explanation of each of the terms that comprise the acronym MIJI.	U
e. Suspected meaconing, intrusion, or jamming, but sources cannot be identified.	C; OADR
f. Interference when source is clearly identified as US or friendly nation electromagnetic emitters.	U
g. Interference to US or friendly country electromagnetic equipment caused by ECM exercise in unfriendly nations.	C; OADR
h. Interference from unfriendly radio broadcast stations, meteorological stations, and other such fixed stations.	C; OADR

i. Parametric data of classified US electromagnetic equipment. Refer to classification guide for the equipment affected.

Classify correspondence equal to the security category assigned to the equipment affected.

j. Specific or general susceptibility or vulnerability of US electronic system to foreign exploitation.

S; OADR