



DEPARTMENT OF THE ARMY
DEPUTY CHIEF OF STAFF OF THE ARMY, G3
450 ARMY PENTAGON
WASHINGTON DC 20310-0450



DAMO-TRS

18 April 2003

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Acquisition of Integrated Training Area Management (ITAM) Installation Range and Related Geographic Information Systems (GIS) Data for HQDA G-3 (S: 15 May 03)

1. References.

a. Executive Order 12906, Coordinating Geographic Data Acquisition and Access: The National Spatial Data Infrastructure, April 13, 1994

b. Memorandum, DAIM-MD, 16 Oct 2001, Subject: Data Standards for Computer Aided Drafting and Design (CADD), Geographic Information Systems (GIS) and Related Technologies, October 16, 2001 (jointly signed by the ACSIM and the Army Director of Training).

2. This is to request IMA, MACOM and NGB assistance in collecting GIS data from ITAM Category I and II installations by 15 May 03.

3. References establish requirements for Federal agencies to document and share all geospatial data created using Federal funding, to adhere to a common set of spatial data standards, and to participate in enterprise solutions to GIS. Army range programs embrace these standards as the method to achieve situational awareness of installation training battle space at all echelons. Such data also helps us achieve Range Information Excellence, a tenet of the Sustainable Range Program (SRP). Although the G-3 has, and is, funding the collection of this data at installation level, we have not previously required MACOMs to provide it to us. Emerging requirements related to stationing, Objective Force training requirements, and OSD Transformation of Training (T2) require us to maintain this data at the HQDA level for analysis.

4. The ITAM program maintains two GIS Regional Support Centers (RSCs) that provide basic GIS services to ITAM Category III and IV installations, and central mapping and analytical services to Range and Training offices at MACOMs and HQDA. The RSCs produce standardized data sets, military maps, and spatial information services, but cannot conduct program-wide mapping and spatial analysis without standard data from all ITAM installations. We intend to use the RSCs to maintain the requested HQDA range GIS data. Response to this memo will provide the ability for our

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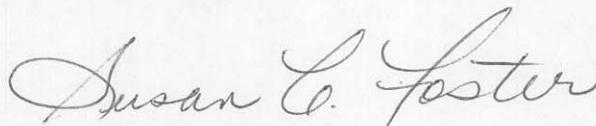
RSCs to provide critical mission-support mapping and analytical services to DAMO-TR and the G-3.

5. DAMO-TRS requests ITAM Category I and II installation GIS data sets IAW Enclosure 1. Requested GIS data sets are reflected in Enclosure 2. Request installations also provide accompanying metadata.

6. DAMO-TRS will ensure that all range-specific data will be safeguarded due to issues of public safety, environmental liabilities, and homeland security. Range GIS data collected as a result of this request will be housed on secure ITAM RSC data servers meeting Army and DoD security standards, and access and use will be strictly controlled by DAMO-TRS. No other Army office will make use of this data without written approval by DAMO-TRS. As a matter of policy, DAMO-TRS does not release this data outside the Army. Data collected will be available to IMA, MACOMs, and NGB to support validated requirements within those offices and agencies. The RSCs will perform data conversions and standardization to meet requirements established in References 2.a and 2.b, and provide standardized datasets and military maps to the installation ITAM offices.

7. Request data be provided to the AEC POC NLT 15 May 2003. The ITAM RSCs will be available to provide technical support in meeting this suspense. This includes providing ftp access for data transfer.

8. Point of contact is Ms Casey Colosky, DAMO-TRS, (703) 692-6411 (DSN 222), casey.colosky@hqda.army.mil. The USAEC will coordinate acquisition, media type, and data formats. Technical POC for coordinating this action is Mr James Furlo, US Army Environmental Center, Range and Munitions Division, phone commercial 410-436-1505 (DSN 584), james.furlo@aec.apgea.army.mil.



SUSAN C. FOSTER
Chief, Training Simulations
Division

Enclosures

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DISTRIBUTION:

HQDA, Assistant Chief of Staff for Installation Management (DAIM-ZA)
Director, Installation Management Agency (SFIM-Z)
Commander, US Army Test and Evaluation Command (CSTE-ILE)
Commander, 8th US Army (EAGC-TD)
Chief, Army National Guard (NGB-ART)
Commander, US Army Europe (AEAC-T)
Commander, US Army Pacific (APOP-T)

CF:

Commander, US Army Forces Command (AFOP-T)
Commander, Military District of Washington (ANOP-T)
Commander, US Army Reserve Command (AFRC-OP-T)
Commander, US Army Training and Doctrine Command (ATIC)
Commander, US Army Medical Command (MCCS-BCB)

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**ATTACHMENT A
ITAM CATEGORY I AND II INSTALLATIONS**

Senior Mission MACOM	IMA Region	Installation	GIS Data Collection by:
ATEC	N/A	Aberdeen PG, MD	ATEC
ATEC	N/A	Dugway PG, UT	ATEC
ATEC	N/A	White Sands MR, NM	ATEC
ATEC	N/A	Yuma PG, AZ	ATEC
FORSCOM	SE	Fort Bragg, NC	IMA
FORSCOM	SE	Fort Campbell, KY	IMA
FORSCOM	NW	Fort Carson, CO	IMA
FORSCOM	NE	Fort Drum, NY	IMA
FORSCOM	SW	Fort Hood, TX	IMA
FORSCOM	SW	Fort Irwin, CA	IMA
FORSCOM	NW	Fort Lewis, WA	IMA
FORSCOM	SW	Fort Polk, LA	IMA
FORSCOM	NW	Fort Riley, KS	IMA
FORSCOM	SE	Fort Stewart, GA	IMA
FORSCOM	NW	Pinyon Canyon, CO	IMA
FORSCOM	NW	Yakima TC, WA	IMA
MDW	NE	Fort A.P. Hill, VA	IMA
NGB	N/A	Camp Atterbury, IN	NGB
NGB	N/A	Camp Blanding, FL	NGB
NGB	N/A	Camp Grayling, MI	NGB
NGB	N/A	Camp Gruber, OK	NGB
NGB	N/A	Camp Ripley, MN	NGB
NGB	N/A	Camp Roberts, CA	NGB
NGB	N/A	Camp San Loius Obispo, CA	NGB
NGB	N/A	Camp Shelby, MS	NGB
NGB	N/A	Fort Chaffee, AR	NGB
NGB	N/A	Fort McClellan, AL (Pellham Range)	NGB
NGB	N/A	Fort Pickett, VA	NGB
NGB	N/A	Orchard TA, ID	NGB
TRADOC	SE	Fort Benning, GA	IMA
TRADOC	SW	Fort Bliss, TX	IMA
TRADOC	SW	Fort Huchuca, AZ	IMA
TRADOC	SE	Fort Jackson, SC	IMA
TRADOC	SE	Fort Knox, KY	IMA
TRADOC	SW	Fort Leonard Wood, MO	IMA
TRADOC	SE	Fort Rucker, AL	IMA
TRADOC	SW	Fort Sill, OK	IMA
USARC	NW	Fort McCoy, WI	IMA
USAREUR	N/A	Grafenwoehr	USAREUR
USAREUR	N/A	Hohenfels	USAREUR
USARPAC	N/A	Fort Richardson, AK	USARPAC
USARPAC	N/A	Fort Wainwright, AK (all sites)	USARPAC
USARPAC	N/A	Pohakuloa Tng Area, HI	USARPAC
USARPAC	N/A	Schofield Barracks (all sites)	USARPAC

**ATTACHMENT B
GIS DATA LIST AND DEFINITIONS**

LAYER	SUB LAYERS	DEFINITION	MINIMUM ATTRIBUTES
Installation Boundary	NA	Polygon feature representing extent of all land (regardless of ownership used by garrison.	Name
			Acreage
			MACOM
			IMA Region
			State
Military Range/Training Features	Training/Maneuver Areas	Polygon feature representing areas where training occurs.	Name/ Description
			Training Type or FCC
			Acreage
			Status (Active/ Inactive)
	Impact Area	Polygon feature where explosive munitions land after firing.	Name/ Description
			Impact Type (duded/ non)
	Firing Ranges	Polygon feature used for training. i.e. rifle range, bombing range, artillery range.	Acreage
			Status (Active/ Inactive)
			Name/ Description
			Range Type or FCC
	Firing Fans	Polygon feature for Surface Danger Zones.	Acreage
			Status (Active/ Inactive)
			Name/ Description
	Drop Zones	Polygon feature where parachute training is conducted.	Range Type or FCC
			Acreage
Status (Active/ Inactive)			
Landing Zones/Airstrips	Polygon feature of unimproved areas where aircraft (typically helicopters) can land to pickup or offload troops and cargo.	Name/ Description	
		Range Type or FCC	
		Acreage	
Firing Points	Point feature where a weapon is discharged or fired - usually the point of convergence of firing fan.	Status (Active/ Inactive)	
		Name/ Description	
		Range Type or FCC	
		Grid Coordinates	
Observation Points	Point feature where information pertaining to the military training observation areas.	Status (Active/ Inactive)	
		Name/ Description	
		Range Type or FCC	
ASP	Polygon area where ordnance or other explosive/hazardous devices are stored.	Grid Coordinates	
		Acreage	
		Status (Active/ Inactive)	
Tank Trails	Line feature of trails used for driving tanks or other tracked vehicles.	Name	
		Category/ Description	
		Length	
		Restrictions	
Cantonment Area	Polygon of area of installation that contains main post area.	Name/ Description	
		Acreage	
Special Use Airspace	Polygon region of airspace for activities that must be confined because of their nature. Limitations may be imposed upon aircraft operations that are not a part of the airspace activities. The types of SUA are Alert Area, Controlled Firing Area, Military Operating Area (MOA), Prohibited Area, Restricted Area, and Warning Area.	Name/ Description	
		Type or FCC	
		Area	
Restricted Areas		Status (Active/ Inactive)	
		Limits	
			Name/ Description

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		Polygon region outlining areas off limits to training/ no-go areas due to safety, security or other reasons.	Type or FCC Acreage Status (Active/ Inactive)
General Vegetation	NA	Polygon feature representing woodlands, scattered trees, or scrub.	Area Type Area Name Acreage
Buildings	NA	Polygon feature representing an existing structure that was created, by man, for occupation, storage, or to facilitate an activity.	Name Building Number Address
Hydrography and Water Bodies	NA	Line or polygon feature a standing or flowing body of water that can be natural or man-made including lakes, ponds, rivers, streams, etc.	Name Description Length Restrictions
Wetlands	NA	Polygon feature with areas that are inundated or saturated by surface or ground to support a prevalence of vegetation typically adapted for life in saturated soil conditions.	Name/ Description Area NWI Information
Roads	NA	Line feature representing the center of the roadway as measured from the edge of the paved surface. The segments of a road centerline will coincide with the road segments in order to have similar characteristics	Name Category/ Description Length Restrictions
Railroads	NA	Line feature representing the center of a railway as measured from the outside edge of the rails. The centerline represents rail portions with similar characteristics such as the number of tracks or the segment between two switches.	Name Category/ Description Length
Contours	NA	Connecting points on the surface of the earth of equal vertical elevation representing some fixed elevation interval	Elevation Units of measure
Utilities	Power Lines	Line feature used to carry electrical energy from point to point.	Name Category/ Description Length
	Power Substation	Point or Polygon feature in an electrical system where the voltage is reduced from transmission levels to distribution levels	Name Category/ Description Grid Coordinates or Area Status (Temp/ Permanent)
	Pipelines	Line feature representing a pipe used to carry a substance (water, gas, oil, etc) from location to location.	Name Category/ Description Length Size/ Diameter
Political	State Boundary	Polygon Feature representing land and water under the right, power, or authority of various local, state, and city governments.	Name Area State FIPS
	County Boundary	Polygon Feature representing land and water under the right, power, or authority of various local, state, and city governments.	Name Area County FIPS
	City/Village Boundary	Polygon Feature representing land and water under the right, power, or authority of various local, state, and city governments.	Name Area Local FIPS
ISR/ Encroachment Factors			Species No training/ limited training Acreage
	Endangered Species	Polygon areas where there are training restrictions due to the presence of endangered species or endangered species habitat.	Number of days restricted, months restricted
	Air Quality	Polygon areas where the use of smoke or obscurants is limited or precluded or where maneuver training is	Number of days affected No training/ limited training

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		limited due to dust resulting from vehicle maneuver.	Acreage Number of days restricted, months restricted
Noise		Polygon area where training is limited or prevented due to noise constraints.	Number of days affected No training/ limited training Acreage Number of days restricted, months restricted
Water Quality		Polygon representing erosion buffers around all surface water areas (including intermittent creeks and ponds)	Number of days affected No training/ limited training Acreage Number of days restricted, months restricted
Cultural Resources		Polygon area where cultural resources such as cemeteries, burial mounds etc... exist and limit or restrict training.	Type of cultural resource Number of days affected No training/ limited training Acreage Number of days restricted, months restricted
Civilian/ Conflicting Land Use Area		Polygon areas where training is limited or prevented due to other land use requirements (such as recreation activities, agricultural out-lease, etc...)	Type of land use Number of days affected No training/ limited training Acreage Number of days restricted, months restricted