

# Map MODERNIZATION

Federal Emergency Management Agency



**FEMA's Flood Hazard Mapping Program**

# Guidelines and Specifications *for* Flood Hazard Mapping Partners

*List of Acronyms and Abbreviations*



**FEDERAL EMERGENCY MANAGEMENT AGENCY**

[www.fema.gov/mit/tsd/dl\\_cg.htm](http://www.fema.gov/mit/tsd/dl_cg.htm)

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## **List of Acronyms and Abbreviations**

The following acronyms and abbreviations will be encountered by the Federal Emergency Management Agency (FEMA) and its Flood Hazard Mapping Partners throughout these *Guidelines* and in the completion of activities as part of the Flood Hazard Mapping Program:

### **A**

AML	ARC Macro Language
AAER	Average Annual Erosion Rate
ACSM	American Congress of Surveying and Mapping
ANI	Area Not Included
AO	(FEMA) Assistance Officer
ASC	Area of Special Consideration
ASCE	American Society of Civil Engineers
ASCII	American Standard Code for Information Interchange
ASFPM	Association of State Floodplain Managers
ASPRS	American Society of Photogrammetry and Remote Sensing

### **B**

BERD	Blocked Erosion Rate Database
BFE	Base Flood Elevation
BIL	Band Interleaved by Line (Format)
BM	Bench Mark
BSQ	Band Sequential Format
BU	Building (Line)

**C**

CAC	Community Assistance Call
CAD	Computer-Assisted Drafting
CAV	Community Assistance Visits
CADD	Computer-Assisted Drafting and Design
CBN	Cooperative Base Network
CBRA	Coastal Barrier Resources Act (of 1982)
CBRS	Coastal Barrier Resources System
CCO	Consultation Coordination Officer
CD-ROM	Compact Disk Read-Only Memory
CEO	Chief Executive Officer
CFR	Code of Federal Regulations
CID	Community Identification (Number)
CIS	Community Information System
CLOMA	Conditional Letter of Map Amendment
CLOMR	Conditional Letter of Map Revision
CLOMR-F	Conditional Letter of Map Revision Based on Fill
CMA	Community Map Action (Form)
CMAS	Circular Map Accuracy Standard
CO	Contracting Officer
COGO	Coordinate Geometry
CORS	Continuously Operating Reference Stations
CRS	Community Rating System
CSIS	Credited Structures Inventory System
CTP	Cooperating Technical Partners (Initiative)

**D**

DBMS	Database Management System
DEM	Digital Elevation Model
DFIRM	Digital Flood Insurance Rate Map
DFO	Disaster Field Office
DGN	Design (File)
DGPS	Differential Global Positioning System
DLG	Digital Line Graph
DLG-3	Digital Line Graph Level 3
DMRS	Data Management and Retrieval System
DOI	U.S. Department of the Interior
DOQ	Digital Orthophoto Quadrangle
DTM	Digital Terrain Model
DU	Dune (Line)
DWG	Drawing (File)
DXF	Drawing Exchange (Interchange) File

**E**

EDR	External Data Request
EO	Exterior Orientation (Parameter)
EPA	U.S. Environmental Protection Agency
ERM	Elevation Reference Mark
ERP	Elevation Reference Point
ESDP	Engineering Study Data Package
ESDPF	Engineering Study Data Package Facility
ESF	Emergency Support Function
EST	Emergency Support Team
ET	End-of-Transect (Line)
ETJ	Extraterritorial Jurisdiction (limits)

**F**

FAAT	Fully Analytical Aerial Triangulation
FBFM	Flood Boundary and Floodway Map
FDN	Federal Base Network
FCSA	Fee-Charge System Administrator
FEDD	Flood Elevation Determination Docket
FEMA	Federal Emergency Management Agency
FGCC	Federal Geodetic Coordinating Committee
FGDC	Federal Geographic Data Committee
FHAR	Flood Hazard Analyses Report
FHBM	Flood Hazard Boundary Map
FIMA	Federal Insurance and Mitigation Administration (FEMA)
FIPS	Federal Information and Processing Standards (Code)
FIRM	Flood Insurance Rate Map
FIRM-DLG	Flood Insurance Rate Map-Digital Line Graph
FIS	Flood Insurance Study
FOIA	Freedom of Information Act
FPI	Floodplain Information Report
FTP	File Transfer Protocol

**G**

GeoTIFF	Georeferenced Tagged Image File Format
GIS	Geographic Information System
GLWRM	(FEMA) Great Lakes Wave Runup Model
GPO	U.S. Government Printing Office
GPS	Global Positioning System
GRASS	Geographic Resources Analysis and Support System
GRS	Geodetic Reference System

**H**

HARN	High Accuracy Reference Network
HEC	Hydrologic Engineering Center (U.S. Army Corps of Engineers)
H&H	Hydrologic and Hydraulic (Analyses)
HMGP	Hazard Mitigation Grant Program
HQ	Headquarters (FEMA)
HS	Human Services (applications)
HSLD	Historic Shoreline Location Database
HSPCD	Historic Shoreline Positional Change Database
HWL	High Water Line

**I**

IE	Initial Elevation (Line)
IF	Inland Fetch (Line)
ILGD85	International Great Lakes Datum of 1985
IMU	Inertial Measurement Unit
INS	Inertial Navigation System

**L**

LAG	Lowest Adjacent Grade
LAN	Local Area Network
LFD	Letter of Final Determination
LFFE	Lowest Finished Flood Elevation
LIDAR	LIght Detection and Ranging (System)
LIDEF	Levee Inventory Data Entry Form
LMMP	Limited Map Maintenance Program Project Revision
LODR	Letter of Determination Review
LOMA	Letter of Map Amendment
LOMC	Letter of Map Change
LOMC-VALID	Letter of Map Change Revalidation (Letter)
LOMR	Letter of Map Revision

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LOMR-F Letter of Map Revision Based on Fill

**M**

MAS Mapping Activity Statement  
MCC Flood Map Production Coordination Contractor  
MG Marsh Vegetation (Line)  
MHWL Mean High Water Line  
MICS Monitoring Information on Contracted Studies (System)  
MIS Management Information System  
MNAP Mapping Needs Assessment Process  
MNUSS Map Needs Update Support System  
MOA Memorandum of Agreement  
mph Miles per Hour  
MRR Measurement Residual Ratio  
MSC Map Service Center (FEMA)

**N**

NAD27 North American Datum of 1927  
NAD83 North American Datum of 1983  
NAVD88 North American Vertical Datum of 1988  
NASA National Aeronautic and Space Administration  
NCSSA National Cartographic Standards for Spatial Accuracy  
NFIF National Flood Insurance Fund  
NFIP National Flood Insurance Program  
NFIRA National Flood Insurance Reform Act of 1994  
NGVD29 National Geodetic Vertical Datum of 1929  
NGRS National Geodetic Reference System  
NGS National Geodetic Survey  
NMAS National Map Accuracy Standard  
NOAA National Oceanic and Atmospheric Administration

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NOS	National Ocean Survey
NP	Navigation Processor
NRC	National Research Council
NRCS	Natural Resources Conservation Service
NSRS	National Spatial Reference System
NSSDA	National Standard for Spatial Data Accuracy
NWS	National Weather Service

**O**

ODC	Other Direct Cost
OF	Over-water Fetch (Line)
OGC	Office of General Counsel
OPA	Otherwise Protected Area

**P**

pdf	Portable Document Format
PDF	Probability Density Function
PDOP	Position Dilution of Precision
PE	Professional Engineer
PLSS	U.S. Public Land Survey System
PMR	Physical Map Revision
PO	Project Officer (FEMA HQ)

**Q**

QA	Quality Assurance
QC	Quality Control
QA/QC	Quality Assurance/Quality Control



**R**

RDBMS	Relational Database Management System
RFIS	Flood Insurance Restudy
RLE	Run Length Encoding
RLS	Registered Land Surveyor
RMM	River Mile Marker
RMS	Root Mean Square
RMSE	Root Mean Square Error
RO	Regional Office (FEMA)
ROC	Regional Operations Center (FEMA)
RPO	Regional Project Officer (FEMA RO)
RTK	Real Time Kinematic
RXDS	Existing Data Restudy

**S**

SC	Study Contractor
SCRR	Special Conversion Recommendation Report
SDTS	Spatial Data Transfer System
SFHA	Special Flood Hazard Area
SIF	Standard Interchange Format
SOMA	Summary of Map Actions
SOS	Status of Studies
SOW	Statement of Work
SPR	Special Problem Report
SWEL	Stillwater Flood Elevation
SWFL	Stillwater Flood Level

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**T**

TBM	Temporary Bench Mark
TCS	(Standard Flood Hazard) Tracking and Correspondence System
TIGER	Topologically Integrated Geographic Encoding and Reference (System)
TIN	Triangulated Irregular Network
TSDN	Technical Support Data Notebook
TVA	Tennessee Valley Authority

**U**

USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
USGS-DLG	U.S. Geological Survey Digital Line Graph (Format)
UTM	Universal Transverse Mercator

**V**

VAX	Virtual Address Extension
VE	Rigid Vegetation Line
VMAS	Vertical Map Accuracy Standard
VMS	Virtual Memory System
VPS	Vector Product Format

**W**

WAN	Wide Area Network
WORM	Write Once Read Many (CD-ROM Drive)
WSEL	Water-Surface Elevation
WWL	Wind/Water Line

**X**

XDS	Existing Data Study
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