

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_cgs.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 |

Guidelines and Specifications for Flood Hazard Mapping Partners

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

Guidelines and Specifications for Flood Hazard Mapping Partners

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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 |

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 |
|-----|---------------------|