

## NPS WFMI – Mass Update of Coordinates

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### Introduction

The following document contains a procedure for updating multiple fire occurrence coordinates in the Wildland Fire Management Information (WFMI) Fire Reporting module. If a Park has numerous coordinate updates for several years, rather than manually editing each individual fire report via the WFMI Fire Reporting module, the following procedure will allow you to process multiple updates for multiple years.

### Technical Support

Questions regarding this procedure can be directed to [Karen Folger](mailto:kfolger@nps.gov) (559-565-3795) or your Regional contact.

#### Regional Contacts

REGION	NAME	POSITION	PHONE	APPROVAL ORDER
Alaska	<a href="#">Karen LaMay</a>	Regional FPMA	907-644-3707	Primary
	<a href="#">Brian Sorbel</a>	GIS Specialist	907-644-3413	Alternate 1
	<a href="#">Dan Warthin</a>	Regional FMO	907-644-6423	Alternate 2
Pacific West	<a href="#">Christie Neill</a>	Deputy Regional FMO	415-623-2217	Primary
Intermountain	<a href="#">Dave Hammond</a>	GIS Specialist	303-969-2953	Primary
	<a href="#">Jesse Duhnkrack</a>	Fire Planner	303-969-2678	Alternate 1
MidWest	<a href="#">Kathie Hansen</a>	GIS Specialist	920-866-1767	Primary
Northeast	<a href="#">Justin Shedd</a>	FPA Planner	919-513-7532	Primary
	<a href="#">Dan Hurlbert</a>	GIS Specialist	540-999-3500 x3302	Alternate 1
	<a href="#">Doug Wallner</a>	Acting Regional FMO	215-597-7140	Alternate 2
Southeast	<a href="#">Justin Shedd</a>	FPA Planner	919-513-7532	Alternate 1
	<a href="#">Caroline Noble</a>	Regional Ecologist	404-507-5774	Alternate 2
	<a href="#">Samuel Larry</a>	Regional FMO	404-562-3108 x653	Alternate 3
National Capital	<a href="#">Justin Shedd</a>	FPA Planner	919-513-7532	Primary
	<a href="#">Tammy Stidham</a>	GIS Specialist	202-619-7474	Alternate 1
	<a href="#">Don Boucher</a>	Reg FMO & Emerg. PM	202-619-7039	Alternate 3

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## Procedure for Multiple Coordinate Updates

*(Note - One spreadsheet per Park)*

At the beginning of calendar year 2007, additional accuracy and precision fields were added to the WFMI Fire Reporting module. **Please do not include calendar year 2007 data** when submitting multiple coordinate updates since additional fields were added.

Fire occurrence coordinates should be entered as either UTM/NAD83 or Lat/Long NAD83. Changes to UTM will automatically update the corresponding Latitude Longitude and vice versa; and both coordinate types will show as changed in the fire report.

Create an Excel spreadsheet as described below and save in a comma delimited format (CSV) file.

- **For UTM Coordinates**

- **Header (3 rows followed by blank row, with field name in column A and data in column B):**

AuthorizedBy     *Name of the Park FMO*  
UnitIdentifier     *Unit Identifier of the Park*  
CoordinateType   UTM

- **Data (starting in row 5; 1 row for each fire report; 5 columns per row):**

CalendarYear (4 digits)  
FireNumber (up to 4 digits)  
UtmZone (2 digits)  
UtmEasting (6 digits)  
UtmNorthing (7 digits)

- **UTM Example:**

AuthorizedBy	John Doe			
UnitIdentifier	CAKNP			
CoordinateType	UTM			
CalendarYear	FireNumber	UtmZone	UtmEasting	UtmNorthing
2000	1	11	346160	4019042
2001	6	11	348539	4051664
2004	115	11	343861	4046963
2005	99	11	347076	4051761

Sample spreadsheet: [ExampleA Sample Input UTM.csv](#)

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- For Latitude Longitude Coordinates:

- Header (3 rows followed by blank row, with field name in column A and data in column B):

AuthorizedBy     Name of the Park FMO  
UnitIdentifier     Unit Identifier of the Park  
CoordinateType    LL

- Data (starting in row 5; 1 row for each fire report; 4 columns per row):

CalendarYear   (4 digits)  
FireNumber     (up to 4 digits)  
LatitudeDD     (decimal degrees in format 99.9999999)  
LongitudeDD    (decimal degrees in format -999.9999999)

- **Latitude Longitude Example:**

AuthorizedBy	John Doe		
UnitIdentifier	CAKNP		
CoordinateType	LL		
CalendarYear	FireNumber	LatitudeDD	LongitudeDD
2000	21	36.3041110	-118.713440
2000	117	36.6068400	-118.755840
2005	14	37.6761211	-119.786670
2006	39	36.7666667	-118.691390

Sample spreadsheet: [ExampleB Sample Input LL.csv](#)

### Data Submission and Approval Process

Submit the spreadsheet containing the coordinate updates (as an e-mail attachment) to [Andy Kirsch](#), NPS Fire Reporting Subject Matter Expert.

- The Park point of contact (POC) will submit the multiple years update request to Andy Kirsch.
- Andy Kirsch will approve the request and forward it to the WFMI staff to process.
- The WFMI staff will do a test-run to produce an error report and send it back to the Park POC.

Sample error report: [ExampleC Sample LL Out.csv](#)

- The Park POC will open the error report and fix any errors that are reported.
- The Park POC will re-submit the update request to the WFMI staff for another test-run, if needed.
- The Park POC will review the preliminary error report (from the WFMI staff) of changes to be made.
- The Park POC will submit the changes to the Park FMO for authorization.
- The Park FMO will email the Regional contact with a request for approval to proceed.
- Regional contact will email Andy Kirsch and WFMI staff with approval for final run for the Park.
- WFMI staff will send output file from final update run to Park POC, Regional contact, and Andy Kirsch.

Sample output file: [ExampleD Sample Fire Report Remarks.html](#)

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### Error Reporting and Output Report

An output report will be generated showing updated coordinates, existing coordinates, and a status. The status should indicate either “Update” or “UpdateWarning”; otherwise, the fire report will not be updated in WFMI. Additionally, a pdf version of the fire report will be created for fires with an “UpdateWarning” status.

Process will take into account the existing bounding rectangles that the WFMI Fire Reporting data entry program already uses for fire report entry.

Status codes can be any of the following:

- **Updated** – A single fire report was found and updated.
- **UpdateWarning** – Update was completed, but the fire report is incomplete with warning related to location data. *See below for details.* Please review the fire report online.
- **Duplicate** - More than one fire report matched your criteria. No update was made.
- **Missing** - No fire report was found for your Park with this Calendar Year and Fire Number. No update made.
- **ErrorZone** - The UTM Zone value is invalid.
- **ErrorLatitude** - The Latitude value is invalid.
- **ErrorLongitude** - The Longitude value is invalid.

#### ***For example:***

11,346160,4019042 . . . **Update**

Valid UTM for CAKNP. Status code is set to Update

10,346160,4019042 . . . **UpdateWarning**

A valid UTM zone is entered but its location is outside of CAKNP boundary. Status code is set to UpdateWarning.

An PDF export of the fire report will be generated for these errors that contains the following in the Remarks section:

*Location: The location for the fire is outside the range allowed for this Park; either correct the location or contact user support to have the range for this Park adjusted.*

72,346160,4019042 . . . **ErrorZone**

An invalid UTM zone is entered. Since the value cannot be stored, the fire report is not updated and the Status code is set to ErrorZone.

10,346160,4019042...**Current**

Neither the UTM zone nor the coordinate pair has changed; therefore, a note will be made in the output report that states “**Current**”, and no changes will be produced (no notes in the remarks).

In addition to the output report, a before and after excel export file will be provided.

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### What you will see in the Fire Report Remarks

This will depend upon type of coordinate used above:

- NPS batch update of location coordinates on 11/06/2007.  
Authorized By: *Name of the Park FMO*
- Coordinate Type entered changed from LL to UTM
- Datum changed from NAD27 to NAD83
- UTM Zone changed from 99 to 99
- UTM Easting: changed from 347,099 to 346,160  
UTM Northing: changed from 4,019,385 to 4,019,042  
Latitude: changed from 36:18:33 (36.3092) North to 36:18:14.80 (36.30411) North  
Longitude: changed from 118:42:11 (118.7031) West to 118:42:48.38 (118.71344) West
- End of NPS batch update of location coordinates notes

### What you will see in the Fire Report Modification History

- NPS batch update of location coordinates Authorized by: *Name of the Park FMO*