Mapping Enabled
Winlink Forms
Winlink for Emergency Communication

Phil Sherrod – W4PHS / NCS398
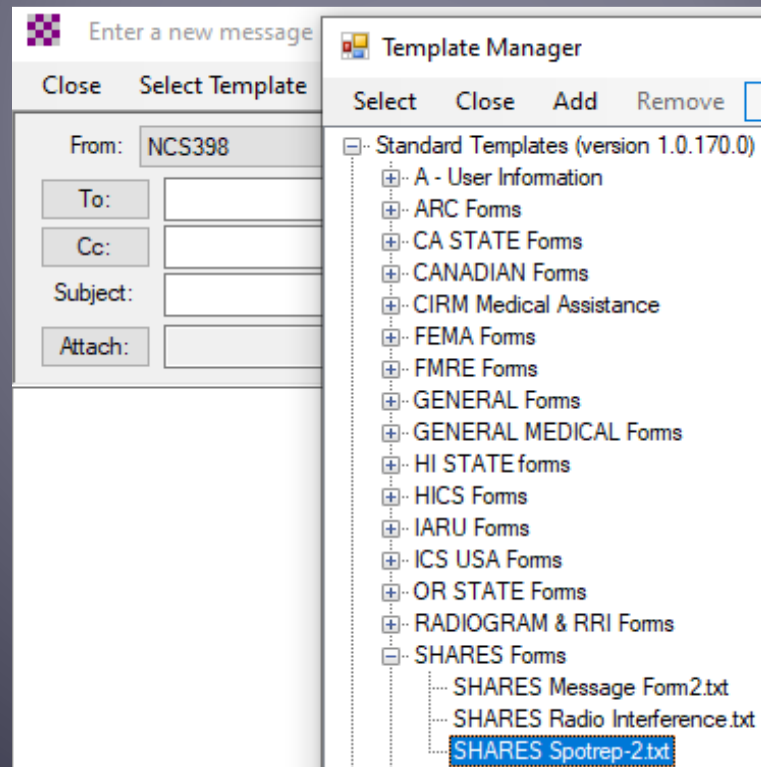
Developed by
The Winlink Development Team

Situation Reports and Other Mapping Enabled Forms

- Timely situation reports, weather reports, and other status reports are essential for incident management.

- Often reports come from no-Internet locations.

- Winlink Express offers several forms that provide position reports for mapping and data for CSV spreadsheet files.

- When received at the incident management center, Winlink Express can display a map showing status markers for reports, and it can generate a .csv spreadsheet data file with information from reports.

Sending a SPOTREP-2 Report

- Start composing a new message
- Click "Select Template"
- Select SHARES Spotrep-2.txt from the SHARES group.

Enter a new message

Close   Select Template

From: NCS398

To:

Cc:

Subject:

Attach:

Template Manager

Select   Close   Add   Remove   E

Standard Templates (version 1.0.170.0)
- A - User Information
- ARC Forms
- CA STATE Forms
- CANADIAN Forms
- CIRM Medical Assistance
- FEMA Forms
- FMRE Forms
- GENERAL Forms
- GENERAL MEDICAL Forms
- HI STATE forms
- HICS Forms
- IARU Forms
- ICS USA Forms
- OR STATE Forms
- RADIOGRAM & RRI Forms
- SHARES Forms
  - SHARES Message Form2.txt
  - SHARES Radio Interference.txt
  - SHARES Spotrep-2.txt

Amateur Radio Safety Foundation, Inc.

SPOTREP-2 Form

PRECEDENCE: (R) - Routine ▼   **DATE/TIME:** 2021-11-12 17:32:49Z   **TASK #** _____

FROM: NCS398

TO: _____

INFO (CC): _____

Call signs or E-mails entered into the TO or INFO fields above, can be multiples separated by a semicolon ;

1. City/State/Territory: _____

2. Latitude and longitude: LAT 36.0077   LON -86.7667   . *MGRS* Ex:11SNR0184195204
   LAT and LON are required to map this SpotRep. If entering manually use Decimal Degree format or from an attached GPS device.

3. LandLines functioning?   ○ YES ○ NO ● Unknown - N/A
   [Comments]

4. Cell Phones functioning?   ○ YES ○ NO ● Unknown - N/A
   [Comments]

5. AM/FM Broadcast Stations functioning?   ○ YES ○ NO ● Unknown - N/A
   [Comments]

6. TV Stations functioning?   ○ YES ○ NO ● Unknown - N/A
   [Comments]

7. Public Water Works functioning?   ○ YES ○ NO ● Unknown - N/A
   [Comments]

8. Commercial Power functioning?   ○ YES ○ NO ● Unknown - N/A
   [Comments]

9. Internet functioning?   ○ YES ○ NO ● Unknown - N/A
   [Comments]

10. Additional Comments *Brief summary of current situation - expected outage times, major observations, etc.*

11. POC   Amateur Radio Safety Foundation, Inc.

How Default Position is Determined

- When a form is opened, the default position is determined as follows:

1. If a GPS unit is present, use GPS latitude/longitude.
2. If no GPS is present and "Use Position Report Location" is checked, use Position Report lat/lon.
3. If no GPS is present and "Use Position Report Location" is not checked, use center of grid square latitude/longitude.

You can manually enter latitude and longitude to override the default position.

Submitting the Report

- Enter one or more recipient addresses in the TO field. Separate recipients by comma or semicolon. You can specify both Winlink callsigns and e-mail addresses, but only Winlink Express can process reports.

- Enter latitude and longitude. If you have a GPS dongle, it will be entered automatically. Otherwise, it will default to the grid square position.

- Click Yes/No/Unknown buttons for each resource, and add any comments.

- Click Submit at the bottom of the form.

- This will generate a message ready to be posted to the Outbox.

SPOTREP-2 Message Ready to Send

Enter a new message

Close   Select Template   Sitrep   SitRep   Attachments   Post to Outbox   Spell Check   Save in Drafts

From: NCS398   Send as: Winlink Message   ☐ Request message receipt   Set Defaults

To: NNA4TN

Cc:

Subject: //WL2K R/ SPOTREP 2021-11-12 17:40:53Z

Attach: RMS_Express_Form_Shares_Spotrep-2_Viewer.xml;

PRECEDENCE: R
DATE/TIME Group: 2021-11-12 17:40:53Z
TASK# 1
FROM: NCS398
TO: NNA4TN
INFO (CC):
BT
UNCLASS

SUBJ SPOTREP 2021-11-12 17:40:53Z

1. City/State/Territory: Brentwood, TN
2. Latitude :36.0077 Longitude:-86.7667   MGRS:
3. LandLines functioning? [NO]
4. Cell Phones functioning? [YES]
5. AM/FM Broadcast Stations functioning? [--]
6. TV Stations functioning? [--]
7. Public Water Works functioning? [YES]
8. Commercial Power functioning? [NO]
9. Internet functioning? [NO]

Reception of Reports

- When a message with an attached form data report is received by someone running Winlink Express, the information from the report is extracted from the message automatically and stored in a database.

- Messages do not need to be selected or displayed for the data to be added to the database; it's done on download.

- Click "Message" on the main menu bar followed by "Generate maps and csv files for forms." There also is a "world" toolbar icon you can click to get to this screen.

Showing Maps and Creating csv Files

SPOTREP-2 Map

- Click a marker for information about the report.

Sender: NCS398
Date/time: 2021-11-01 15:59 (local)
Age: 11.0 days
Task #:1
Location: Brentwood, TN
Latitude Longitude: 35° 30.46' N 085° 04.00' W
MGRS: 16SFE7534031066
Range and bearing: 101.0 mi @ 109
Landline [Unknown]
Cell phones [Unknown]
AM/FM broadcast [Unknown]
TV stations [Unknown]
Water [Unknown]
Commercial power [Unknown]
Internet [Unknown]
POC: Phil Sherrod
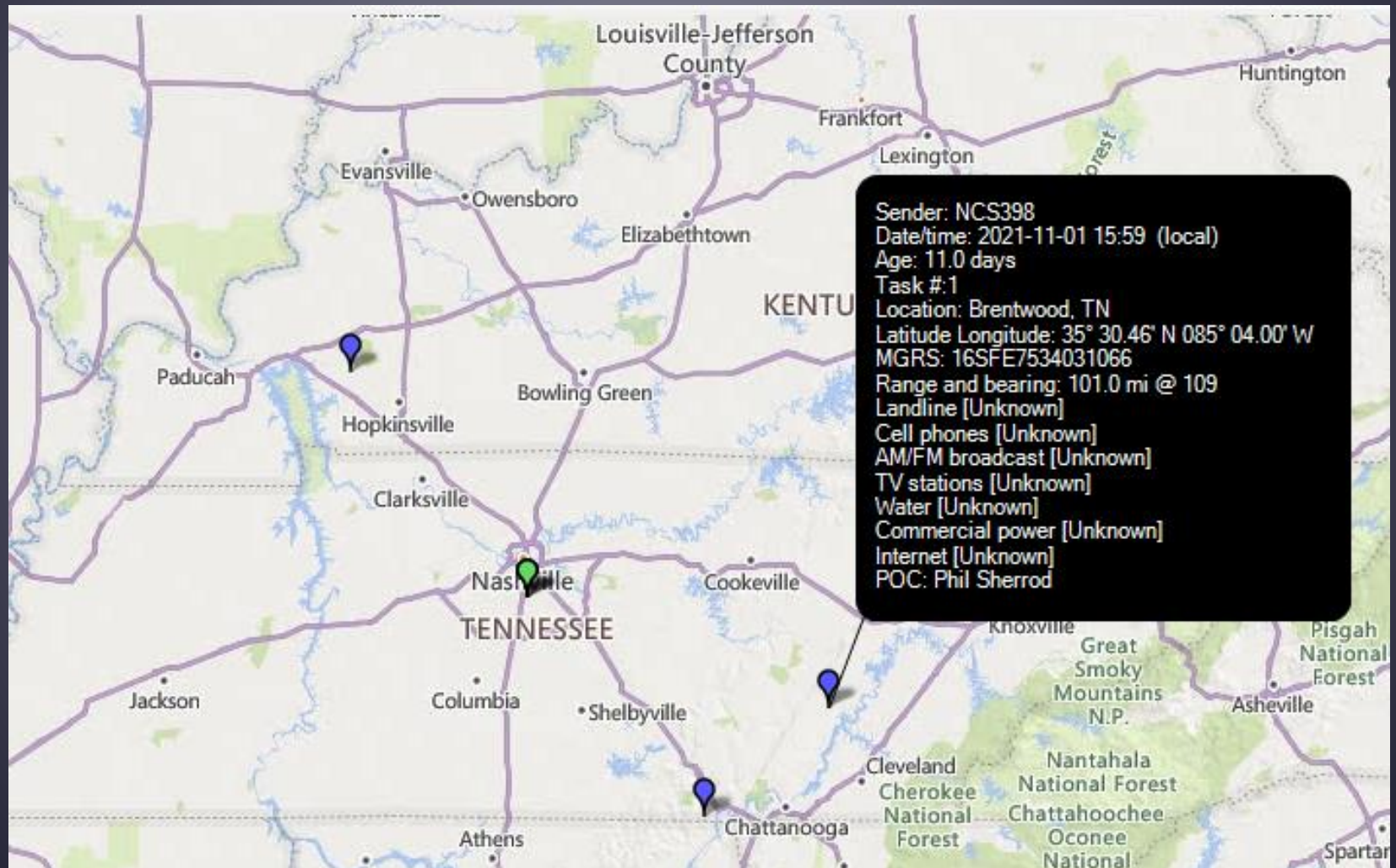
Click "Set Filters" to Filter Map Markers

Select only recent reports

Mark selected outages in red

Select which reports are to be displayed

Map Filters for SPOTREP-2   — ☐ ✕

Display reports no more than this many hours old: 24

Filter Map by Field Values

Form reports are displayed if any of the field values match the selection value. If the Mark Red box is checked, markers will be red if the specified value matches.

☑ Enable map filtering

Form field	Selection Value	Mark Red
AM/FM Broadcast Stations functioning?	(Ignore)	☐
Cell Phones functioning?	(Ignore)	☐
Commercial Power functioning?	NO	☑
Internet functioning?	NO	☐
LandLines functioning?	(Ignore)	☐
Precedence	(Ignore)	☐
Water Works functioning?	(Ignore)	☐
TV Stations functioning?	(Ignore)	☐

Clear all selections

You Can Select Different Types of Maps

Maps and CSV Files for Forms

Select form: SPOTREP-2

Number of stored reports: 10

Map provider: Bing

- ArcGIC Imagry
- ArcGIS Physical
- ArcGIS Shaded Relief
- ArcGIS Streets
- ArcGIS Terrain
- ArcGIS Topo
- Bing
- Bing Hybrid
- Bing Satellite
- Google
- Google Hybrid
- Google Satellite
- Google Terrain
- Open Cycle
- Open Cycle Transport
- Open Street Map
- Wiki Map
- (Simple map for no Internet)

Simple map if no Internet and no cached map

Spreadsheet Report Data

- Export reports to a csv file and import them into a spreadsheet program.
- You can generate custom reports or use report positions for your own mapping.

Recommended GPS Dongle

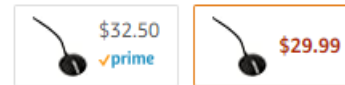GlobalSat BU-353-S4 USB GPS Receiver (Black) (Improved-New)

Brand: GlobalSat

★★★★½ ∨   1,198 ratings | 302 answered questions

Price: $29.99

Get a **$10 bonus** when you reload **$100 or more** to your gift card balance (Restrictions apply).

Eligible for **amazon**smile donation.

Color: **IMPROVED-NEW**

$32.50 ✓prime	$29.99

Brand	GlobalSat
Color	IMPROVED-NEW
Connectivity Technology	USB
Map Type	Satellite

About this item

- Built-In GPS Patch Antenna
- Built-In Roof Mount Magnet
- 48-Channel All-In-View Tracking
- SiRF Star IV GPS Chipset
- WAAS/ EGNOS Support

› See more product details

image to open expanded view

Setting up GPS in Winlink Express

- Open Settings - GPS/Position Reports screen

Select COM port of GPS unit

Standard speed is 4800 baud

GPS info streams here

Your position shown here

Check option to update grid square from GPS position

Check to use position report location as default position

GPS / Position Report

GPS Serial Port
GPS Serial Port: COM16   GPS Baud Rate: 4800

GPS Status
$GPRMC,140535.000,A,3600.4674,N,08646.0026,W,0.00,355.03,050122,,,A*72

Last fix at 2022-01-05 14:05:35 UTC

GPS Latitude: 36-00.47N   GPS Longitude: 086-46.00W
GPS Speed: 0.00   Knots   GPS Course: 355   True
☑ Automatically update grid square from GPS position: EM66OA

Position Report
Your last position report was posted at 2020-10-11 16:34:03 UTC

[Use GPS Position]   [Use Current Time]

Report Date/Time: 2022/01/05 14:05:12   UTC

(Latitude/longitude may be entered as decimal degrees, DD-MM.MMx, or DD-MM-SSx)

Latitude: 36-00.47N   Longitude: 086-46.00W
Speed: 0.0   Knots   Course: 317   True
MGRS coordinates: 16S EE 21027 84842   [Use MGRS]

Comment - 148 Characters Maximum:

[Add Marine Weather Report]   [Post Report]   [Close]

☐ If no GPS position, use position report location as my current location

Amateur Radio Safety Foundation, Inc.

WINLINK 2000
Global Radio Email System

- Winlink team:
    - Lor Kutchins, W3QA   (President, ARSFi)
    - Phil Sherrod, W4PHS   (Developer and BoD)
    - Steve Waterman, K4CJX   (Administrator and BoD)
- Winlink web site: www.winlink.org
- White papers about Winlink: www.qrz.com/db/W4PHS
- Support group: https://groups.google.com/forum/#!forum/winlink-programs-group