

Ham 315 - As3 skywarn

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Skywarn Plus is a super weather app to add to your AllStar node.
Skywarn is the National Weather Service system.
You can configure your node with which county and what type warnings you want to receive.
You can auto link, sound a siren, or just stay updated.

The process is straightforward, with just a few lines of set-up.
Familiarity with Raspberry Pi operations and Python programming eliminates apprehensions, but is not necessary.
The code modifications by Mason 10198 are from GitHub at <https://github.com/Mason10198/SkywarnPlus>
These instructions are a short synopsis of those details.
Then scroll down for the install instructions.



Use another browser to connect to the node, ie, 192.168.1.xxx:9090. Login with password.
Select Software Updates. Install all before adding new code.
Select Terminal. A black screen with the node name appears.
Change folder. The app will be placed at /usr/local/bin/SkywarnPlus

```
cd /usr/local/bin/
```

Copy the complete line. Paste in Bash Shell. <enter>.
Crontab, timing, and SuperMon is auto set. Accept the defaults. Then <Y> to accept install.

```
sudo bash -c "$(curl -fsSL https://raw.githubusercontent.com/Mason10198/Skywarn-Plus/main/swp-install)"
```

In a separate browser, look up county code. Avoid zone code. Tulsa is OKC143.
At <https://alerts.weather.gov/>. >Land area with zones > Next to the state, select county zones. Get County Code.
Or <https://github.com/Mason10198/SkywarnPlus/blob/main/CountyCodes.md>.

Back to Pi Terminal. Edit the configuration yaml file. (Yet Another Multi-column Layout).
In ASL3, Asterisk is not root, so sudo is not needed.

```
nano /SkywarnPlus/config.yaml ;First time you will be prompted.
```

Scroll down to Asterisk stanza under nodes. Delete message 'Your_Node'. Leave dash and 1 space. '- '
Enter the Node's Number, ie 584000.
Scroll downtown to County code. Delete message 'Your_County'. Leave dash and 1 space. '- '
Enter the county code, ie OKC143. <Ctrl-X>, <Y>es, <enter> to save.

When first starting and after reboot, SkywarnPlus will not announce. It is awaiting a change. To test go to [Dev].

```
nano config.yaml
INJECT: True
INJECTALERTS:
- Tornado Warning
```

<Ctrl-X>, <Y>es, <enter> to save. Exit back to normal run. May have to call from Linux CLI.

The configuration allows myriad options. Changes for testing, tail messages, courtesy tones, Sky Describe, Alert Script, are in the readme file on GitHub.

Numerous sounds are loaded, eg /usr/local/bin/SkywarnPlus/SOUNDS/TONES/YellowJacket.ulaw.
These can be used by skywarn or other coding in rpt.conf.

Edit repeater configuration for sounds and DTMF control. As an example.

```
nano /etc/asterisk/rpt.conf
841 = cmd,/usr/local/bin/SkywarnPlus/SkyDescribe.py 1 ; SkyDescribe the 1st alert
<Ctrl-X>, <Y>es, <enter> to save.
```

Type 'exit' from Bash Shell.
Life is good. Enjoy!

