

## **TINYTAG DATA LOGGERS RELATIVE TO USE WITH WWW.WEATHERWITHOUTTECHNOLOGY.CO.UK**

### **Weather Without Technology**

I am an amateur climatologist working from home as what started as a hobby and now has extended to the above website which is used by numerous businesses, organisations, other amateurs like myself, weather professionals and national newspapers and magazines.

The object of the website is to educate, inform, entertain and enlighten the reader that you do not need technology to be able to advance predict weather at least three months ahead and in some cases six months ahead, with a reasonable (85/90% consistent) accuracy.

Our forefathers managed very well without any technology, and if they managed then what not myself?

It is a combination of using the moon (without which none of us would survive), the phases of the moon with ancient tried, tested and reliable moon weather data; the tides; nature's signs, birds, animals, flora and fauna; some 5000 tried tested and reliable saw/sayings and much local data going back 40 years. Combining all the above into a tried and tested methodology manages to produce weather patterns/predictions months before they occur.

I am asked three main questions: 1. Will it snow at Christmas? 2. What will Easter be like? 3. When will be the best time for summer holidays?

If I can satisfy all three questions with reliable replies, months in advance, just using my own methodology, then the system proves itself.

A current easy example: currently 29th April the newspapers are full of the problems of 'Polar cold currents,' snow, ice and storms - as if they just appeared. There are four quarter days in the year: 21st March, 24th June, 29th September and 21st December. The direction in which the wind blows on this day will be the predominant wind direction for the next ninety days until the next such quarter day. On 21st March the wind direction was WNW - in itself an unusual direction since in 30 years I have had one previous recording of this direction.

So, as a result, the predominant wind direction will be for Northern Ireland, Scotland and north of England WNW and such cold winds (coming from the arctic) will bring unusually cold weather, and if cold enough, snow. Which is why this region has had some really cold weather lately. However, the methodology highlighted this fact, when, combined with another lot of data from Christmas day; viz; How many hours sunshine on Christmas day (6 hours) will result in six snowfalls, light or heavy, before the end of May in the year following. Up to 26th April there were five such falls. So the sixth fall on 28th April completed the saying; which for me and my methodology proves the system works.

I also encourage people to look and see, since everyone looks but less than 1% see what is around them, which is why the website draws attention to birds, trees, plants etc. I try to educate and interest in a simple free accurate way.

I study nature and nature tells me at least six months ahead what the weather will be. There is most reliable saying 'If the grass grows on New Year's day (1st January) then only one hay harvest.' So, in January, I know that the hay harvest is in June and that since it will be the sole harvest (the other normally being September), the weather in June, will be hot, dry calm and good for hay

harvest, and that the hay will be excellent too. It is of interest that this saying also applies to the pea crop therefore a good pea crop that is also harvested in June.

The second part is that growing conditions after June will not be suitable to support a second hay crop, therefore a period of less rain (as in September 2014) will not produce another hay crop. So nature as told me two things about June and September. There are other vital data considerations that all back up the above information too - all of which can be found on the website.

### **The objective of the monitoring**

The object is to prove that whilst modern technology is invaluable for short term forecasting (day to day weather), no computer system will be able to replicate or predict what nature tells me - and having the knowledge, skill and ability to interpret what nature tells me provides the advance predictions that no weather unit in the whole UK does. If you can tell the fruit farmers that there will be no May frosts to kill the blossoms - and why - then it must be advantageous to them - and all at least six months ahead too. Similarly if you can predict a period of water shortage/drought six months ahead then provision can be made for this. Again I do this and the warnings are six months ahead.

The object is to predict at least two growing seasons ahead what weather is to come, without reference to any technology at all. Yes it is possible and does work too.

### **Using Tinytag Data Loggers**

I have aTGP-4500 Tinytag Plus 2 Temp/RH and a TH-2500 Tinytag Thermohygrometer. Both loggers are contained with a standard Stephenson Screen and are used to monitor all the necessary temperature and humidity readings on a permanent 24 hour basis , working as a back-up to and a verification of all such readings taken from a DAVIS VP2 automatic weather station that is positioned externally elsewhere in my garden; and also to back the certified and tested sheathed Max, Min and standard thermometers also with the same Stephenson Screen.

### **How the data is used**

The data is used on daily weather sub-missions to the Met Office WOW weather site; and is used monthly on submissions to the Climatologist Observers Link (COL) of which I am a member. It is also used when special requests are made for weather data for a particular day or period (insurance companies find such specialised data vital).

All records are recorded daily and provide a true database for future use.

### **Why choose Tinytags?**

I find the instruments to be reliable, robust accurate and exactly what I require for my use, the battery life is excellent, they are virtually fail-safe too. I would not now be without them. Of interest, the Royal Meteorological Society (RmetS) has purchased such instruments and these are loaned to members for usage.

Photographs:

The Stephenson Screen closed in situ in my garden



The same screen open where all the instruments can be clearly seen



A view of the DAVIS VP2 automatic weather station on its pole in the garden



NB: you will notice in the pictures some wine bottles and funnels. There are ten such bottles across the garden, the funnels are standard 5.5 inch and should a bird decide to drop a seed or berry into the black water collection of the DAVIS VP system and thereby block any rain measuring capability, then by emptying each bottle at 9am daily and taking the mean average any such disasters are avoided!!