

# ICT for Geography & Science

[www.advisory-unit.org.uk](http://www.advisory-unit.org.uk)



The Advisory Unit  
Computers in Education

**Award winning**  
**AEGIS GIS for schools**  
**Weather products**

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**EW**

**Success with AEGIS - basic kit**  
Nine GIS lessons at KS3 and GCSE  
See page 7



The Advisory Unit  
Computers in Education



The Advisory Unit: Computers in Education continues to develop and support GIS and weather products.

This year an experienced teacher shows how AEGIS may be used to teach core Geography topics in secondary schools for the new 'Nine GIS lessons at KS3 and GCSE'. This pack includes all you need for introducing GIS and is the first in the 'Success with AEGIS' series. This provides an excellent starting point for teachers who are unsure how to embed GIS into their lessons.

The growing AEGIS user base can look forward to Ordnance Survey online mapping becoming more accessible for all teachers in the coming year.



The Advisory Unit follows the BESA code of practice



Geographical Association award for AEGIS 3



International EMMA Award for Riverside Explorer CD, sent free to all schools in England with a Welsh version for all schools in Wales



#### Reputable software

Long-standing products, such as The Weather Reporter and AEGIS are continually developed to suit 21st century classrooms while maintaining and upgrading systems for existing users.

#### Adding value to your purchases

The Advisory Unit has a policy of supporting schools that purchase products through free technical helplines, website forums for technical and curriculum queries, free software upgrades, manuals and curriculum materials.

The Advisory Unit catalogue has GIS and weather products for Geography, Science and ICT from Key Stage 2 upwards.



#### AEGIS 3

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**For Geography and ICT KS3, GCSE and above**

AEGIS 3 Geographical Information System has been widely adopted as the leading GIS for schools. It is particularly commended for its curriculum examples and its flexibility as a creative tool for teachers and students to develop their own maps and information systems.

The AEGIS modules provide access to a wide range of map data formats and assist in data capture in the field.



#### Weather products

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**Datalogging in Geography, Science and ICT for KS2 and above**

The *Weather Reporter* provides continuous weather data for your school and the *Weather Tracker* collects data on the move.



#### Training courses

Tailor-made courses for your Geography Department set the right course for delivering GIS in your school.

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#### Prices and licensing

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# AEGIS 3 Highly commended by the Geographical Association

Ready-made GIS activities from Year 7 to A level, plus free digital maps to support your own fieldwork

# Modules for AEGIS

The Goad and ECW module extends teaching and learning opportunities

### Use the example worksheets

AEGIS 3 comes with resources right through the secondary curriculum. Coastal, limestone and glacial landscapes in the UK with photos, world development, London Olympics, changes in Italy, France and Brazil, London census examples and more.

Practise GIS techniques by adding fieldwork data to digital maps. Full manual and online Flash tutorial guidance provided.

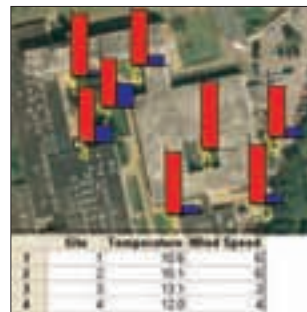
GIS mapping skills include creating choropleth and thematic maps, flow line maps and located proportional circles, pie charts and bar charts.

### Online digital mapping

AEGIS provides access to Ordnance Survey and other online mapping services. New developments are taking place this year enabling more access to online mapping. We can advise on which version of AEGIS you require to gain the most from these services. The maps are ready for you to add your own fieldwork data and digital photos with notes at places on the maps.

### Free AEGIS 3 resources

The AEGIS web pages have free upgrades, worksheets, help sheets, online tutorials, links to other sites and other support information



Download the free AEGIS 3 Viewer with samples from [www.advisory-unit.org.uk/aegis3/welcome\\_to\\_aegis\\_3.html](http://www.advisory-unit.org.uk/aegis3/welcome_to_aegis_3.html)



### Goad Town Plans

Goad and ECW module for AEGIS enables you to use digital Goad Town Plans. These plans come complete with recently surveyed data on the functions of buildings in the CBD or retail park ready for mapping. Students therefore spend time exploring patterns of landuse in the town, rather than collecting the data themselves and hand-colouring maps.

The maps are ready to add fieldwork data, such as pedestrian count or traffic flow, to personalise students' investigations and provide activities for controlled assessments.

A plan of Grantham comes with the module, but there are over 1,000 more plans of town centres, retail parks and motorway service stations in Britain and Ireland to purchase from the Advisory Unit. A list of plans with the latest survey dates may be found on the Advisory Unit's web site.

### What is ECW?

This is a highly compressed raster format for digital maps and aerial photographs and is useful for fast access to maps. The Goad and ECW module allows AEGIS users to obtain a range of free or online mapping.

### Tutorial disk

Mainly for teachers, this essential AEGIS course has over 50 web-based animations with follow-up tasks and self assessment sheets.



## OS MasterMap module and Recorder module

### OS MasterMap module for access to large scale maps

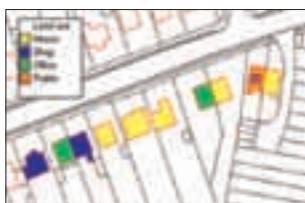
This AEGIS module allows teachers to use the vector version of OS MasterMap in which all the features are in separate layers.

Decide which layers you wish to work with - buildings, land or roads – and a data table will be filled with information about these features on the map. From there it is a small step to add your own survey data to the table.

Making an urban or rural land use map is now a simple activity because all the buildings and fields are polygons and may be coloured according to your own survey data.

Ordnance Survey MasterMap has an Integrated Transport Network layer making it easy to add traffic survey data from fieldwork as flowlines.

Local Authority schools can obtain vector OS MasterMap files from their Local Authority OS Liaison Officer. The Advisory Unit can give advice for independent schools on purchasing OS MasterMap extracts.



### The Recorder module opens up AEGIS to outdoor learning

Use the *AEGIS Recorder* for setting up data capture sheets on PC for transfer to PDA for data collection in the field. Data and even photos from the PDA can then be transferred to PC and inserted directly into AEGIS.

If your PDA has GPS, then you can plot data automatically onto geo-referenced maps in AEGIS. In any case, *GPS devices*, such as Garmin, can be used independently to locate positions accurately on digital maps.

AEGIS is also compatible with Wild Knowledge's *WildKey* and *WildMap* PDA applications for plotting wildlife recordings or geo-referenced multimedia trail data.



## Nine GIS lessons at KS3 and GCSE

### All you need to teach nine successful lessons

Written by Helen Young, a teacher experienced in using AEGIS, these nine lessons on key Geography topics are ideal for those starting to use AEGIS.

The kit comprises a Teacher's Book and CD-ROM with a Light Edition AEGIS program and an accompanying Student Book.

It's easy to fulfil GIS requirements with the materials, guidance and support provided.

### Teacher's Book and CD-ROM

- Guidance manual
- GIS skills assessment sheet
- Lesson plans
- Student Response sheets
- Answer sheets
- AEGIS files

A Light Edition AEGIS program (without the Editor) is provided for schools that do not already have AEGIS.



### Student Book

- Background content on each lesson
- Easy to use step-by-step guide to working through each AEGIS lesson

Topics covered include siting a wind farm, European migration, tectonics, coasts, rivers, urban disparities, a global multinational and world development.

These GIS teaching and learning materials are recommended both for teachers who are new to AEGIS, and for those who already have the program.

## Weather Reporter Mark III

An automatic weather station ready to fix to your school roof to collect continuous weather data

### Easy to install and use

The Weather Reporter comes complete with robust mast, sensors, cables, site licence software, user manual and curriculum guide.

The sensors collect data every minute of every hour and save hourly and daily weather summaries in the mast for 60 days at a time for:

- wind speed, average gusts, wind chill, wind direction
- temperature, maximum, minimum
- sunshine hours, daylight hours
- rainfall
- barometric pressure
- relative humidity



### Weather Reporter Reader

This program collects weather data from the mast, distributes it to network stations, stores data on the school network and uploads data to your own or other websites.

### Weather Reporter Viewer

Use the Viewer to see weather on screen as it happens and for hourly or daily summaries. Save data for Excel to create user-defined graphs and statistics.

### Remote access

Want to see the weather at your site from a distance?

Run the Viewer program on your computer and link via the internet to the school.

Do you want to set up the Weather Reporter without any cables attached? Link the Weather Reporter to your computer with a serial Bluetooth device.

**Weather Reporter is delivered by courier with one year's warranty, free technical helpline, spare part and refurbishment service.**

**Software upgrades are available for existing Weather Reporters.**

## Weather Tracker

The Kestrel 4000 Pocket Weather Tracker monitors weather while on the move

The Weather Tracker covers datalogging requirements at KS2 and KS3 and is accurate, robust and easy to use and set up.

The Weather Tracker measures:

- wind speed
- temperature, wind chill, heat index and wet bulb temperature
- barometric pressure
- relative humidity
- altitude and density altitude all with time and date.

The Weather Tracker has accurate rapid response sensors, backlit screen and shows graphs in three display modes.

Capture time-stamped microclimate data as you walk around your school grounds or field study area or set up the Weather Tracker to record environmental data at chosen intervals on one site for indoor or outdoor experiments.



The Weather Tracker comes complete with batteries, PC interface, support disk, cradle and serial lead. We can also supply a USB converter.

### Download weather data

When you have finished recording, download your weather data in CSV format using the cradle and leads provided. The data is ready to go into Excel and you can also map microclimate in AEGIS.

### New support materials

The Weather Tracker comes with specially-written educational software and teachers' materials complete with manual, PowerPoint guide, teaching ideas and handouts.

## Making the most of your investment

We are always ready to support our products with free technical or curriculum advice by telephone, email or through the Advisory Unit's forums on the web site.

Phone:  
01707 281102

Fax:  
01707 281103

Email:  
sales@advisory-unit.org.uk

On the AEGIS forum:  
[www.advisory-unit.org.uk/snitz/login.asp?target=default.asp](http://www.advisory-unit.org.uk/snitz/login.asp?target=default.asp)

You will receive expert guidance to help you to make the most of the product. You will also benefit from the feedback that our valued customers have given us over the years.



### Training courses

We run courses for new AEGIS users at the University of Hertfordshire in the Summer Term. Please ask to be put on the mailing list.

### AEGIS courses for your department

Geography CPD can be arranged for your department on integrating AEGIS into lessons. The practical sessions include learning the basics of AEGIS and preparing examples to fit with your curriculum planning.

Many schools have taken advantage of these training courses and have found them excellent value.

### What teachers have said about Advisory Unit courses

“Brilliant - lots of useful discussion - good hands-on.”

“Incredibly helpful and knowledgeable course leader - very impressed.”

“An excellent course, very informal, good ratio of students to teacher.”

“This course was very enjoyable - I will not hesitate to recommend it to other members of staff.”

“Without doubt the most practical and useful course I have been on for some time. Stimulating and motivating.”

“A very useful day. I wish more courses were like this.”

Product	Single user	20 station	Full site
<b>AEGIS 3</b>	£100	£250	£500
<b>OS MasterMap® module*</b>	£50	£100	£150
<b>Goad and ECW module*</b>	£50	£100	£150
<b>Goad map for Goad and ECW module:</b>	3 year site licence per map		£75
<b>Nine GIS lessons at KS3 and GCSE – Teacher's Book and CD-ROM</b>			£75
<b>Nine GIS lessons at KS3 and GCSE – Student Book</b>			£7
<b>Nine GIS lessons at KS3 and GCSE – Class set of 30 Student Books</b>			£200
<b>AEGIS Recorder module*</b>	£50	£100	£150
<b>WildForm for AEGIS data capture</b>	Go to <a href="http://www.wildknowledge.co.uk">www.wildknowledge.co.uk</a> and enter the code WildAegis08 for online purchase and download		
<b>AEGIS Tutorial disk</b>			£150
<b>Weather Reporter</b>	Full system with software and cables Delivery by courier	£660 £15	
<b>Weather Reporter</b>	Software upgrade	£75	
<b>Weather Tracker</b>	With educational software and cable	£335	

\* these modules require AEGIS 3. All software is for PCs with MS Windows.

The AEGIS program and modules are 'one-off' purchases – no annual fees or subscriptions. All prices are exclusive of VAT, but include postage and packing.

## How to order

Fax your order with school order number to **01707 281103**

Phone: **01707 281102** Email: [sales@advisory-unit.org.uk](mailto:sales@advisory-unit.org.uk)

Post: **AU Enterprises Ltd, The Innovation Centre, Hatfield Herts AL10 9AB**