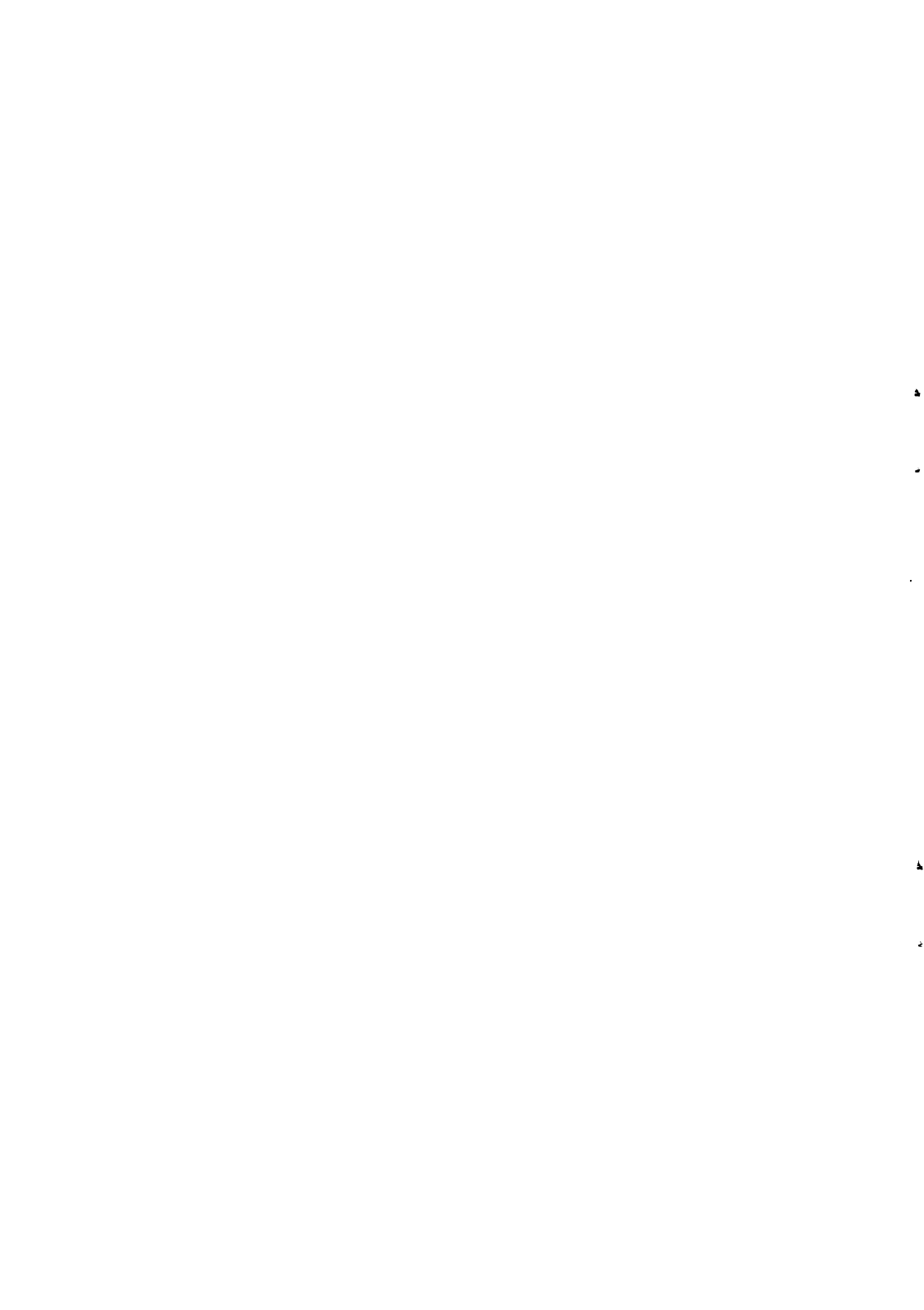


CARDIFF ASTRONOMICAL SOCIETY

HANDBOOK 2003-2004

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INTRODUCTION

Cardiff Astronomical Society was founded in July 1975 by Dr Bob Owens and Dave Powell at an out of London meeting of the British Astronomical Association held at Dyffryn Gardens. They are both still members today as the Society continues to develop its activities supported by a very active and enthusiastic committee.

Membership has increased to over 200 and is drawn from a wide geographical area South and South West Wales, and into the West Country. Despite the travelling involved members attending meetings usually number over 60 and on several occasions during the year this number will reach over 100.

Meetings are held on alternate Thursday evenings September to July at University of Wales College Cardiff, beginning at 7:30pm. UWCC has a world class astronomy and physics department and the Society receives tremendous support from everyone there led by our own President Professor Mike Disney.

The programme is varied comprising of lectures, short talks and debates. The aim is to cater for all interests at whatever level, beginner or advanced. The Society is able to attract the very best speakers from all over the UK. We hold regular observing evenings at one of two designated sites where members can look up at the night sky with the help of more experienced observers and some of the telescopes owned by the Society. For those who need help there is a naked eye sky tour to start the night off.

A comprehensive library is available for use by all members and telescopes can be borrowed by arrangement. We publish a regular newsletter that gives information on forthcoming events, activities, current phenomena etc. All members are invited to contribute.

The Society is frequently featured in locally made science education programmes on television and radio and we are actively involved with national events such as Science Week and at Techniquet Discovery Centre in Cardiff Bay.

The map on page 13 shows the location of the venue. It is easy to get to and close to bus and train routes. Ample car parking is available nearby. If in doubt contact any Committee member (phone numbers on page 5 & 6). Please make every effort to attend - it is encouraging for speakers to have a large audience and makes it easier for the Society to attract the best.

Subscription: Adults £13.50 Juniors £2.50 Family £18.50

Subscriptions are due on September 1st and prompt payment is appreciated.

A warm and friendly welcome promised for all!!

Rhagarweiniad

Sefydlwyd y Cymdeithas Seryddol Caerdydd yn nghorffennaf 1975 gan Dr Bob Owens a Dave Powell trwy cyfarfod allan o dre yn Llundian gan y Cymdeithas Seryddiaeth Prydeinig a chynhelir yng gherddi Dyffryn. Mae'r ddau o hyd yn aelod, ac mae'r cymdeithas dal yn datblugy ei weithgareddau, trwy cefnogiaeth brwdfrydol y pwyllgor.

Erbyn hyn fe cynnyddir y nifer o aelodau I dros 200 sy'n dod o lefydd daearyddol aeang, gan cynnwys De Cymru, De Gorllewin Cymru, a'r Gwlad Gorllewin. Er gwaethaf y teithio hyr, mae ynna fel arfer dros 60 o aelodau yn troi I fyny, ac ambell i dro mae'r nifer dros 100.

Cynhelir y cyfarforfiadau ar prynhawn Iau pob yn ail, o Medi i Gorffennaf, yn prif ysgol Cymru, Caerdydd, ac yn dechrau am 7:30. Mae gan y prifysgol adrannau seryddiaeth a fisseg byd enwog ac mae'r cymdeithas yn derbyn cefnogaeth anferth oddi wrth pawb ynno gan cynnwys ein proffeswr llywyddol Mike Disney. Mae'r rhaglen yn cynnwys amryw o drafodaethau, dadleuon, a darlithiau. Anelyir y rhaglennu tuag at pob lefel o diddordeb gan gynnwys rhai i dechreuwr a rhai cymleth a cynhwysfawr. Mae'r cymdeithas yn atynnu areithwyr rhagorol o led led Prydain. Cynhelir nifer o sessiynau sylwedyddi yn un o ddau lefydd penodol - lle mae'r aelodau yn cael siawns i edrych tau'r awyr nos gyda cymorth sylwedydd profiadol, ac i defnyddio telescopau'r cymdeithas. I'r rhai sydd angen cymorth fe cynhelir twr llygad noeth i dechrau'r nôs.

Mae ynna llyfyrgeall cynhwysfawr ar gael i bob aeolod, ac mae telescopau ar gael i'w benthg trwy trefniant hawdd. Cyhoeddir llythyr-newyddion o dro i dro sy'n cynnwys gwybodaeth o digwyddiadau a gweithgareddau fuan. Mae gan bob aelod y siawns i gyfranu.

Mae'r cymdeithas aml yn cael ei gynnwys yn rhaglenni addysg leol, ar y deledu, a'r radio, a hefyd yn ymuno mewn digwyddiadau cenedlaethol er enghraifft yr wythnos gwybodaeth a'r canolfan dargynfyddiad Techniquet.

Mae ynna map ar tudalen 13 sy'n dangos safle'r cymdeithas, sydd yn hawdd i dod o hyd iddo ac yn agos i'r orsaf trên a bws. Mae ynno llawer o lefydd agos ermwyn parcio ceir.

Os gennych unrhyw problemau allwch cysyllti a pwyllgorwr (rhifau ffôn ar tudalenau 5 a 6).

Byddau'n pleswr mawr as allwch wneud ymdrech i mynychu – mae'n cefnogol i'r arweithwyr os bydd gennym cynulleidfâ brais ac yn wneud iddi'n hawddach i atynu'r arweithwyr gorau.

Tanysgrifiad: Oedolion: £13.50 Plant: £2.50 Teuluoedd: £18.50

By disgwyl y tanysgrifiad erbyn Medi 1^{af} ac rydyn yn gwerthfawrogi taliad brau.

Fe addewid croeso cynhes a cyfeillgar i bawb.

COMMITTEE 2003-2004**PRESIDENT**

Professor M J Disney FRAS
 Professor of Observational Astronomy
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THE BILL SUTHERLAND AWARD

This award was set up in memory of Bill Sutherland an early member of CAS, who passed away in 1990. It is awarded each year at the AGM, to a CAS member who has shown outstanding enthusiasm for astronomy and the Society.

Work for the award can be of any astronomical or Society nature and may include (but not exclusively) things like observational drawings, photographs, CCD images, newsletter articles, Talks given to the Society.

Obviously some work comes to the attention of the awarding committee automatically (such as a newsletter article), other work by its nature may need to be brought to the attention of the awarding committee by its author (e.g. photographs).

Remember we are not necessarily looking for technical excellence but rather enthusiasm for astronomy and CAS, so enter your work for consideration for this award.

Cardiff Astronomical Society Program 2003/2004

Please note that while we try not to alter the programme, occasionally changes have to be made, sometimes at short notice. We will do our best to inform you in advance, via the newsletter, WEB site or at meetings.

Cardiff Astronomical Society Program 2003/2004

2003

4 th September	Comets and their exploration by spacecraft.	Dr David Hughes University of Sheffield
18 th September	The Astronomical Work of Robert Hooke.	Dr Allan Chapman University of Oxford
2 nd October	The Lives and Deaths of Stars	Dr Alan Longstaff London
16 th October	White Dwarf Stars.	Dr Nigel Bannister University of Leicester
30 th October	Light Pollution.	Joy Griffiths Somerset
13 th November	Adventures In Deep Space From Wiltshire	Philip Perkins Ramsbury, Wiltshire.
27 th November	Time and the Stars	Bob Mizon Dorset.
11 th December	The Sun.	Lucie Green University of Glamorgan

2004

8 th January	The Kuiper Belt and Planet X	Martin Griffiths University of Glamorgan
22 nd January	Recent results in X-Ray Astronomy with Chandra and XMM-Newton	Dr Katherine Gunn University of Southampton
5 th February	The solution to a 40 year old astronomical puzzle	Dr D Ward Thompson University of Cardiff
19 th February	The Annular Eclipse of the Sun 2003 as seen from Iceland	Jerry Workman Essex
4 th March	The Sun, Space Weather, Aurora And The Antarctic. Are They Really Linked.	Dr Alan Rodgers British Antarctic Survey
18 th March	The Origins of Astronomy	Prof Mike Edmunds University of Cardiff.
1 st April	Cassini-Huygens to Saturn and Titan.	Dr Andrew Coates University of London.
15 th April	Annual General Meeting.	
29 th April	Its Been a wonderfully clear day, then why does the sky cloud over just after sunset.	Bob Irwin-Edmunds Ross-on-Wye.
13 th May	Astronomy in Wales	Peter Grossi - Cardiff Astronomical Society.
27 th May	Cold Dark Matter in Galaxies, A problem or triumph for cosmology.	Dr Erwin de Blok. University of Cardiff
10 th June	Journey into Space	SQU Leader D Clark - RAF College Cranwell
24 th June	Astronomical Holiday Destinations	Martin Chick - Cardiff Astronomical Society
July 8 th	Three Short Talks.	Cardiff Astronomical Society Members.

CONSTITUTION

1. NAME

The Society shall be named the Cardiff Astronomical Society.

2. AIMS

The Society shall be an organization to stimulate public interest in the science of astronomy; to further the knowledge of its members and to promote and conduct research and observations.

3. MEMBERSHIP

Membership shall be open to all persons interested in astronomy.

4. SUBSCRIPTIONS

The amount of the annual subscription (and any reduction for juniors etc.) shall be proposed by the committee and shall be subject to the approval of the general membership at an Annual general Meeting, or at an Extraordinary General Meeting convened for that purpose.

5. FINANCIAL YEAR

The financial year of the Society shall commence on March 1st.

6. MEETINGS

a) An Annual General Meeting shall be held in the Spring of each year. Such meetings will be devoted primarily to the reports of the officers and the election of Officers for the next session.

b) Ordinary meetings shall take place once per fortnight, September to July, at the Society's headquarters, unless the committee should decide otherwise.

7. COMMITTEE

a) The committee shall be made up of the following members.

President
Vice President
Chairman

CONSTITUTION continued

Vice Chairman

Secretary

Assistant Secretary

Treasurer

Assistant Treasurer

Membership Secretary

Publications Officer

Publicity Officer

Librarian

Director of Observations

Curator of Instruments

Public Events Organizer

University Liaison Officer

Dark Sky Coordinator

Junior Representative

Two Ordinary Members

- b) All officers eligible shall be elected for the ensuing year at the Annual General Meeting
- c) For each committee meeting, there shall be a quorum which shall be not less than one half of the committee membership.
- d) The President and Vice President are ex-officio members of the committee.
- e) The committee shall meet at least once per quarter
- f) The committee shall be the administrative body of the Society and shall be responsible for its activities.
- g) Committee members for election shall be proposed and seconded by a Society member.
- h) No person shall stand for election without his or her prior consent.

8. HEADQUARTERS

The headquarters of the Society shall be University of Wales College of Cardiff.

RULES

1. The Society shall consist of ORDINARY, HONORARY, JUNIOR (*Under 18 years old*) and ASSOCIATE members. *JUNIOR members under the age 14 years must be accompanied by an adult.* ORDINARY, HONORARY and *The JUNIOR REPRESENTATIVE* shall have the right of attending and voting at all meetings of the Society, of proposing candidates for election to the committee, of serving if elected on the committee or in any office of the Society. *JUNIOR members have rights as outlined above with respect to the JUNIOR Representative.* ORDINARY, HONORARY, JUNIOR members have the right of receiving newsletters and notices issued during their membership.
2. ORDINARY and JUNIOR members shall pay an annual subscription. This shall become due on the first day of September every year. Members whose subscription are in arrears by over three months may be considered for removal from the Society at the discretion of the committee.
3. The management of the Society shall be vested in a committee as stated in 7A of the Constitution. The Chairman is elected to serve for one year with the option of standing for a second. The Chairman will stand down from the position following his/her term of office. The Secretary and Treasurer are not subject to re-election unless desired by the membership (*under rule 6*), the committee (*at a committee meeting or under rule 12*), or the incumbent. All other posts to come up for re-election annually, but the incumbent may be re-elected for as many years as the membership, the committee, or the incumbent desires.
4. In addition there shall be two ordinary members who may stand for one year only, after which they must stand down. One year must elapse before they are eligible for re-election. The above members to be elected at appropriate Annual General Meetings. The committee has the right to co-opt members for a special purpose. The committee shall fill any vacancies that may arise until the next Annual General Meeting. The President and Vice President are *Ex-officio posts*, not subject to election. They may change from time to time at the discretion of the committee, or when the incumbent wishes to be relieved of the post.
5. Before each Annual General Meeting there shall be issued to each Ordinary and Honorary member of the Society a

Newsletter which shall contain the names of such members as may be nominated by the committee to serve on the committee for the following year. Additional nominations may be made by Ordinary members provided that the candidate is supported by not less than two Ordinary members, and that such nominations are received by the Secretary not less than fourteen days before the date of the Annual General Meeting. Minutes shall be kept of committee meetings, Annual General Meetings and Special General Meetings of the Society.

6. The committee shall, upon a requisition signed by not less than ten ORDINARY members of the Society, convene a Special General Meeting of the Society. A notice of the date and object of such a Special General Meeting shall be sent to each member of the Society not less than seven days before such a meeting, and no business shall be considered other than that for which it was convened.
7. The accounts of the Society shall be made up to the last day of February in each year, and audited by one individual excluding any serving member of the committee.
8. In the event of dissolution of the Society, such property or effects shall be disposed of by gift. Such gift shall be for the benefit of astronomy in general and not for the benefit of any individual. The disposal shall be determined by the vote of a Special General Meeting.
9. No rule shall be altered except by the majority vote of the Ordinary members present at a Special General Meeting convened for that purpose.
10. A copy of these rules shall be sent to each ORDINARY member upon election.
11. In the absence of the Chairman and Vice Chairman the committee shall be chaired by an officer elected by the committee.
12. Special meetings of the committee shall be called by not less than three committee members whose names shall appear on the summoning notice, together with the stated reason for the meeting. No minutes shall be read at a Special Meeting, and no business other than that stated on the agenda shall be transacted.

TELESCOPES

The Society possesses the following instruments which are available for loan to members. Please contact the Curator of Instruments for further information.

1. 20x70 Binoculars with tripod.
2. 3 inch *f*16 refracting telescope †.
3. 3¾ inch *f*12 refracting telescope.
4. 90mm (3½ inch) *f*5.5 refractor †.
5. 4½ inch *f*7.3 'Siberia' Newtonian reflecting telescope †.
6. 6 inch *f*8 open frame Newtonian reflecting telescope †.
7. 6 inch *f*4 rich field Newtonian reflecting telescope ‡.
8. 6 inch *f*8 'Siberia' Newtonian reflecting telescope †.
9. 8¾ inch *f*5.6 'Dark Star' Newtonian reflecting telescope *.

† Equatorial mount. ‡ Alt/Az Mount. * Dobsonian Mount.

In addition the Society also possesses an eight-inch Meade Schmidt-Cassegrain telescope which is for use at observing sessions, and is NOT available for loan to members.

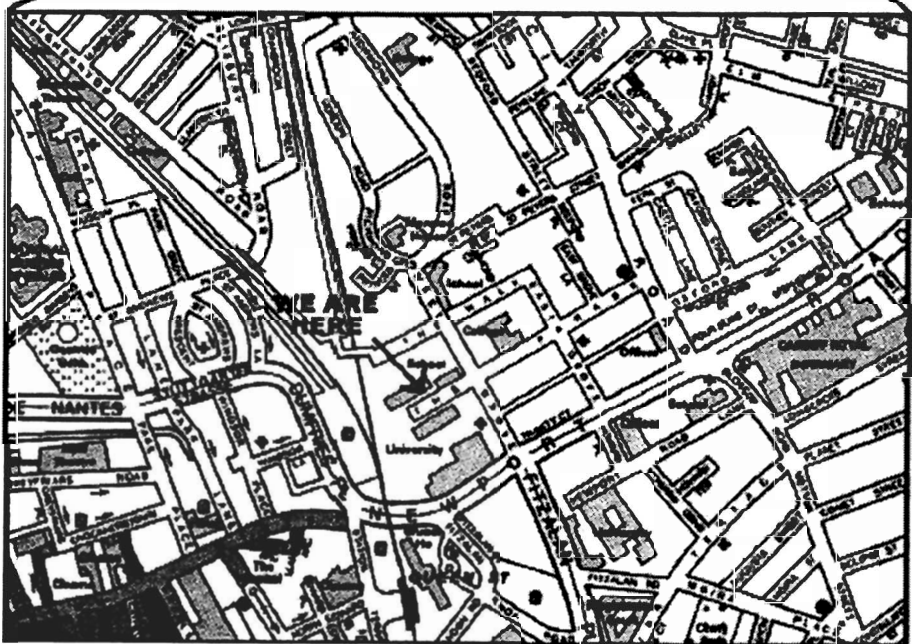
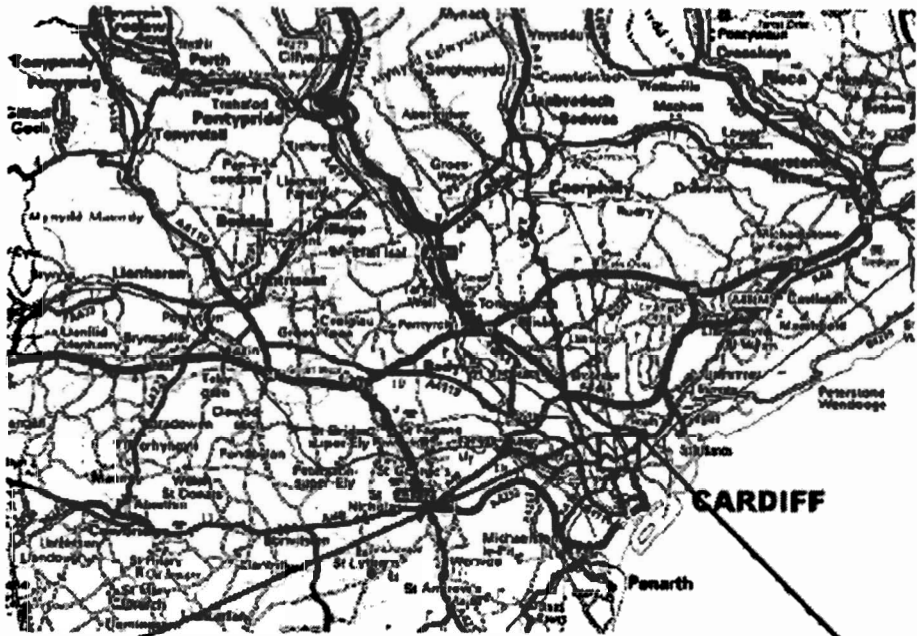
LIBRARY

An updated list of books in the library will be published in a forthcoming newsletter, and it is proposed to purchase new titles to fill gaps in the coverage. In the meantime, if you would like to borrow any books, please contact the Librarian at meetings, who will be happy to make them available.

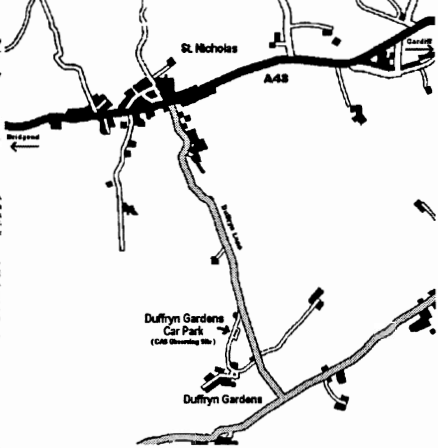
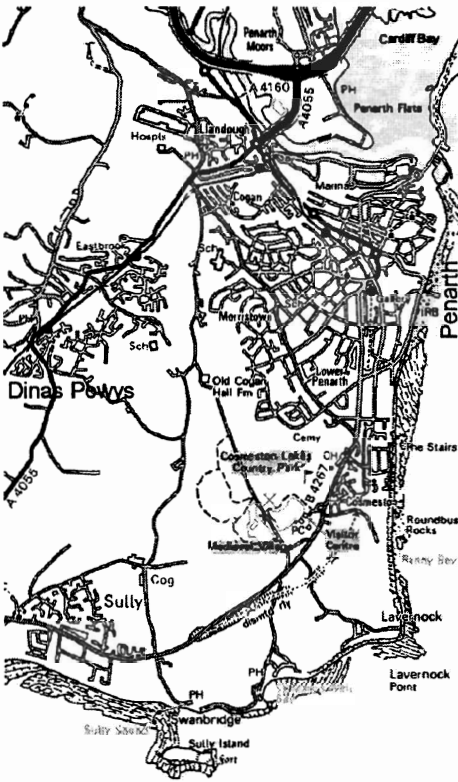
DATA PROTECTION ACT

Your membership details are kept on computer. They will only be used for the administration of Cardiff Astronomical Society and not disclosed to anyone who is not a member. However, you have the right to have the information deleted from the computer if you wish.

WHERE TO FIND US

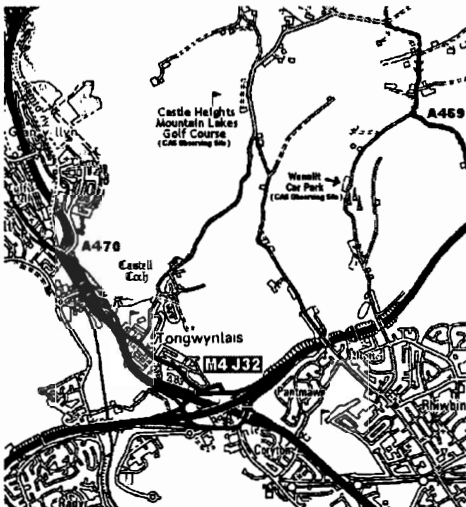
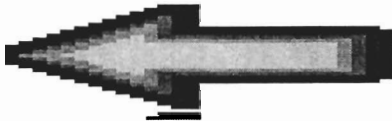


OUR OBSERVING SITES



CAS Observing Site at Duffryn Gardens Car Park

CAS Observing Sites at Castle Heights Golf Course and Wenallt Car Park



CAS Observing Site at Cosmeston Lakes Country Park



