

# Supplementary Data for The Dual Alignments of the Solstitial Churches in North Wales

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**TABLE SF 1.** The declination of Welsh historical churches – North Wales subset

Data is sorted from highest to lowest value for Dec E. The churches that have eastern declinations that are judged to be orientated towards the summer solstice are emphasised with a grey band.

Key: Alt E = altitude east; Alt W = altitude west; Az E = true azimuth east; Dec E = declination east; Dec W = declination west; HWT = Live link to HeyWhatsThat image for the churches' locations; LF = live field work; VF = virtual field work

| ID           | Method    | Name                                  | Town                           | Historic County        | Longitude        | Latitude         | Az E        | Alt E       | Dec E              | Alt W      | Dec W               | HWT   |
|--------------|-----------|---------------------------------------|--------------------------------|------------------------|------------------|------------------|-------------|-------------|--------------------|------------|---------------------|---|
| HC169        | VF        | St Stephen's Church                   | Bodfari                        | Flintshire             | -3.3606          | 53.2203          | 32.5        | 11.5        | 40.88304218        | 1.5        | -28.93602741        | <a href="http://www.heywhatsthat.com/main-0904.html?view=IRIP5SJV">http://www.heywhatsthat.com/main-0904.html?view=IRIP5SJV</a> |
| HC176        | VF        | St Michael's Church                   | Abergele                       | Denbighshire           | -3.583417        | 53.282944        | 7.5         | 0           | 36.35232838        | 4          | -32.37025911        | <a href="http://www.heywhatsthat.com/main-0904.html?view=MQVG9N4E">http://www.heywhatsthat.com/main-0904.html?view=MQVG9N4E</a> |
| HC141        | LF        | St Cynfarch and St Mary's Church      | Llanfair Dyffryn               | Denbighshire           | -3.293755        | 53.089522        | 38          | 3.5         | 31.41163774        | 2.6        | -25.88043212        | <a href="http://www.heywhatsthat.com/main-0904.html?view=EUT506KB">http://www.heywhatsthat.com/main-0904.html?view=EUT506KB</a> |
| HC142        | VF        | St Mary's Church                      | Betws-y-Coed                   | Caernarfonshire (east) | -3.802839        | 53.091554        | 42          | 3.5         | 29.62152885        | 23.7       | -5.00554893         | <a href="http://www.heywhatsthat.com/main-0904.html?view=RJJ8VNAH">http://www.heywhatsthat.com/main-0904.html?view=RJJ8VNAH</a> |
| HC146        | VF        | St Mary's Church                      | Cyffylliog                     | Denbighshire           | -3.407209        | 53.109345        | 58          | 10.5        | 27.29211255        | 3.2        | -15.84072179        | <a href="http://www.heywhatsthat.com/main-0904.html?view=O87BC43Q">http://www.heywhatsthat.com/main-0904.html?view=O87BC43Q</a> |
| HC148        | VF        | St Mwrog's Church                     | llanfrog                       | Denbighshire           | -3.325609        | 53.110242        | 48.5        | 3.6         | 26.5635541         | 4.5        | -19.49828528        | <a href="http://www.heywhatsthat.com/main-0904.html?view=IPSOI7HN">http://www.heywhatsthat.com/main-0904.html?view=IPSOI7HN</a> |
| HC157        | LF        | St Cynhafal's Church                  | Llangynhafal, Denbigh          | Denbighshire           | -3.297999        | 53.160658        | 61          | 11.5        | 26.38505624        | 1.4        | -15.72607685        | <a href="http://www.heywhatsthat.com/main-0904.html?view=CN0IL224">http://www.heywhatsthat.com/main-0904.html?view=CN0IL224</a> |
| <b>HC127</b> | <b>LF</b> | <b>St Trillo's Church</b>             | <b>Llandrillo yn Edeyrnion</b> | <b>Denbighshire</b>    | <b>-3.437787</b> | <b>52.922365</b> | <b>54</b>   | <b>4.5</b>  | <b>24.57458921</b> | <b>7</b>   | <b>-14.74411215</b> | <a href="http://www.heywhatsthat.com/main-0904.html?view=PEF36K52">http://www.heywhatsthat.com/main-0904.html?view=PEF36K52</a> |
| <b>HC177</b> | <b>LF</b> | <b>St Mael and St Sulien's Church</b> | <b>Cwm</b>                     | <b>Flintshire</b>      | <b>-3.4378</b>   | <b>53.285896</b> | <b>65.5</b> | <b>12.5</b> | <b>24.55336443</b> | <b>0.4</b> | <b>-14.02294995</b> | <a href="http://www.heywhatsthat.com/main-0904.html?view=V8MJDELO">http://www.heywhatsthat.com/main-0904.html?view=V8MJDELO</a> |
| <b>HC190</b> | <b>LF</b> | <b>St Dwynwen's Church</b>            | <b>Llanddwyn</b>               | <b>Anglesey</b>        | <b>-4.412903</b> | <b>53.1375</b>   | <b>48</b>   | <b>0.7</b>  | <b>24.27733756</b> | <b>0</b>   | <b>-23.66630683</b> | <a href="http://www.heywhatsthat.com/main-0904.html?view=IDI9BVOJ">http://www.heywhatsthat.com/main-0904.html?view=IDI9BVOJ</a> |
| <b>HC165</b> | <b>LF</b> | <b>St Cwyfan's Church</b>             | <b>Llandyrnog</b>              | <b>Denbighshire</b>    | <b>-3.317818</b> | <b>53.186399</b> | <b>63</b>   | <b>10.3</b> | <b>24.25513416</b> | <b>1.3</b> | <b>-14.70273144</b> | <a href="http://www.heywhatsthat.com/main-0904.html?view=N9AJKVCT">http://www.heywhatsthat.com/main-0904.html?view=N9AJKVCT</a> |

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S2 Supplementary Data for The Dual Alignments of the Solstitial Churches in North Wales

Table SF1 Continued

| ID    | Method | Name                                     | Town                   | Historic County           | Longitude  | Latitude  | Az E | Alt E | Dec E       | Alt W | Dec W        | HWT   |
|-------|--------|--|------------------------|---------------------------|------------|-----------|------|-------|-------------|-------|--------------|---|
| HC153 | LF     | St Rhychwyn's Church                     | Llanrhychwyn           | Caernarfonshire (east)    | -3.832992  | 53.137542 | 49   | 1     | 24.04604103 | 6.5   | -17.48559237 | <a href="http://www.heywhatsthat.com/main-0904.html?view=U2NJPJ4P">http://www.heywhatsthat.com/main-0904.html?view=U2NJPJ4P</a> |
| HC233 | LF     | St Michael and All Angels Church         | Llanrug                | Caernarfonshire (central) | -4.2039523 | 53.144478 | 50   | 1.5   | 23.97618638 | 0     | -22.67748754 | <a href="http://www.heywhatsthat.com/main-0904.html?view=K7DQGPi6">http://www.heywhatsthat.com/main-0904.html?view=K7DQGPi6</a> |
| HC185 | LF     | St Beuno's Church                        | Aberffraw              | Anglesey                  | -4.4662495 | 53.190751 | 48   | 0.3   | 23.89727523 | 1.5   | -22.32228294 | <a href="http://www.heywhatsthat.com/main-0904.html?view=C6C16C7Q">http://www.heywhatsthat.com/main-0904.html?view=C6C16C7Q</a> |
| HC191 | LF     | St Eugrad's Church                       | Llaneugrad             | Anglesey                  | -4.260823  | 53.332958 | 48   | -0.2  | 23.37692541 | 4.4   | -19.68599562 | <a href="http://www.heywhatsthat.com/main-0904.html?view=A4K905SP">http://www.heywhatsthat.com/main-0904.html?view=A4K905SP</a> |
| HC145 | LF     | St Garmon's Church                       | Llanarmon-yn-Ial       | Denbighshire              | -3.2099    | 53.0965   | 58   | 5     | 22.74839525 | 2.5   | -16.44049925 | <a href="http://www.heywhatsthat.com/main-0904.html?view=M8B324SC">http://www.heywhatsthat.com/main-0904.html?view=M8B324SC</a> |
| HC225 | LF     | St Deiniol's Cathedral                   | Bangor                 | Caernarfonshire (central) | -4.127501  | 53.22652  | 55   | 3     | 22.63282485 | 2.3   | -18.11653154 | <a href="http://www.heywhatsthat.com/main-0904.html?view=M8SOHS53">http://www.heywhatsthat.com/main-0904.html?view=M8SOHS53</a> |
| HC159 | LF     | St Tyrnog's Church                       | Llandyrnog, Denbigh    | Denbighshire              | -3.3363    | 53.1755   | 58.5 | 5     | 22.44       | 1.7   | -16.81503    | <a href="http://www.heywhatsthat.com/main-0904.html?view=UFM0N4MF">http://www.heywhatsthat.com/main-0904.html?view=UFM0N4MF</a> |
| HC188 | LF     | St Peulan's Church                       | Llanbeulan             | Anglesey                  | -4.440916  | 53.251337 | 54   | 2     | 22.29       | 0.6   | -20.07595    | <a href="http://www.heywhatsthat.com/main-0904.html?view=T1E1EV50">http://www.heywhatsthat.com/main-0904.html?view=T1E1EV50</a> |
| HC154 | LF     | St Hychan's Church                       | Llanychan              | Denbighshire              | -3.325644  | 53.1487   | 61   | 5     | 21.0630456  | 2.6   | -14.72389542 | <a href="http://www.heywhatsthat.com/main-0904.html?view=EBCGOBAQ">http://www.heywhatsthat.com/main-0904.html?view=EBCGOBAQ</a> |
| M226  | VF     | St Mary's Priory                         | Beddgelert             | Caernarfonshire (central) | -4.101741  | 53.010753 | 67   | 9     | 20.92507    | 14.7  | -1.415666686 | <a href="http://www.heywhatsthat.com/main-0904.html?view=G782VQDO">http://www.heywhatsthat.com/main-0904.html?view=G782VQDO</a> |
| HC246 | LF     | Old St Peter's Church                    | Llangedr Dyffryn Clywd | Denbighshire              | -3.2792631 | 53.128482 | 67   | 9     | 20.89803    | 1     | -12.73547563 | <a href="http://www.heywhatsthat.com/main-0904.html?view=ILPVC92V">http://www.heywhatsthat.com/main-0904.html?view=ILPVC92V</a> |
| HC197 | LF     | St Cwyfan's Church                       | Llangwyfan             | Anglesey                  | -4.491992  | 53.185534 | 56   | 1.3   | 20.68069054 | 0     | -19.57757217 | <a href="http://www.heywhatsthat.com/main-0904.html?view=O6CLIDUV">http://www.heywhatsthat.com/main-0904.html?view=O6CLIDUV</a> |
| HC129 | LF     | Llangar Church                           | Llangar                | Denbighshire              | -3.3959    | 52.9712   | 69   | 9.6   | 20.23856228 | 2.6   | -10.33353907 | <a href="http://www.heywhatsthat.com/main-0904.html?view=MOABJO46">http://www.heywhatsthat.com/main-0904.html?view=MOABJO46</a> |
| HC243 | VF     | St Beuno's Church                        | Pistyll                | Caernarfonshire (west)    | -4.4897832 | 52.95215  | 72   | 11.8  | 20.20973639 | -0.2  | -10.89221269 | <a href="http://www.heywhatsthat.com/main-0904.html?view=JQB59FDM">http://www.heywhatsthat.com/main-0904.html?view=JQB59FDM</a> |
| HC232 | VF     | St Rhedyw's Church                       | Llanllyfni             | Caernarfonshire (central) | -4.282656  | 53.044283 | 62   | 3.3   | 19.13387932 | 1.5   | -15.14308487 | <a href="http://www.heywhatsthat.com/main-0904.html?view=M131VGIO">http://www.heywhatsthat.com/main-0904.html?view=M131VGIO</a> |
| HC180 | VF     | St Melyd's Church                        | Meliden                | Flintshire                | -3.408148  | 53.318459 | 72   | 10.5  | 19.1263533  | 1     | -9.821084198 | <a href="http://www.heywhatsthat.com/main-0904.html?view=IJ52V5PM">http://www.heywhatsthat.com/main-0904.html?view=IJ52V5PM</a> |
| HC170 | VF     | Church of Corpus Christi                 | Tremeirchion           | Flintshire                | -3.376     | 53.246798 | 67   | 6.3   | 18.68173208 | 0.8   | -12.86131757 | <a href="http://www.heywhatsthat.com/main-0904.html?view=D5LO8IPI">http://www.heywhatsthat.com/main-0904.html?view=D5LO8IPI</a> |
| HC245 | VF     | St Beuno's Church                        | Gwyddel Wern           | Denbighshire              | -3.380495  | 53.009451 | 68   | 5.8   | 17.75562757 | 6.2   | -7.921333487 | <a href="http://www.heywhatsthat.com/main-0904.html?view=E8SBED7T">http://www.heywhatsthat.com/main-0904.html?view=E8SBED7T</a> |
| HC163 | LF     | St Marcella's Church                     | Llanfarchell           | Denbighshire              | -3.3898    | 53.1848   | 65.5 | 3.5   | 17.27206861 | 2.8   | -12.06930281 | <a href="http://www.heywhatsthat.com/main-0904.html?view=O4U3U6LO">http://www.heywhatsthat.com/main-0904.html?view=O4U3U6LO</a> |
| HC138 | LF     | St Trillo's Church (Foddyd?)             | Clocaenog              | Denbighshire              | -3.371907  | 53.077371 | 64   | 2.3   | 17.17051668 | 5.5   | -10.69082728 | <a href="http://www.heywhatsthat.com/main-0904.html?view=H2J1PIGQ">http://www.heywhatsthat.com/main-0904.html?view=H2J1PIGQ</a> |
| HC155 | LF     | St Saeran's Church (6th cent. monastery) | Llanynys, Denbighshire | Denbighshire              | -3.342531  | 53.153607 | 67.5 | 4.7   | 17.11459291 | 2.6   | -11.12479792 | <a href="http://www.heywhatsthat.com/main-0904.html?view=HPH52IHK">http://www.heywhatsthat.com/main-0904.html?view=HPH52IHK</a> |
| HC196 | VF     | St Christiolus' Church                   | Llangristiolus         | Anglesey                  | -4.3237625 | 53.236495 | 63   | 1     | 16.59826688 | 1     | -14.93343555 | <a href="http://www.heywhatsthat.com/main-0904.html?view=NC7AMTT6">http://www.heywhatsthat.com/main-0904.html?view=NC7AMTT6</a> |
| HC178 | VF     | St Bridget's (Ffaid or Bride) Church     | Dyserth                | Denbighshire              | -3.417821  | 53.303047 | 74   | 8.7   | 16.50523025 | 1.5   | -8.260312647 | <a href="http://www.heywhatsthat.com/main-0904.html?view=TN747182">http://www.heywhatsthat.com/main-0904.html?view=TN747182</a> |
| HC167 | VF     | St Cadwaladr's Church                    | Llangadwaladr          | Anglesey                  | -4.430968  | 53.195872 | 63   | 0.5   | 16.19779152 | 0     | -15.78195648 | <a href="http://www.heywhatsthat.com/main-0904.html?view=DJ2NDA5F">http://www.heywhatsthat.com/main-0904.html?view=DJ2NDA5F</a> |
| HC199 | VF     | St Iestyn's Church                       | Llaniestyn             | Anglesey                  | -4.1244726 | 53.294409 | 62   | -0.3  | 16.04564911 | 1.4   | -15.12544671 | <a href="http://www.heywhatsthat.com/main-0904.html?view=U11UGJLP">http://www.heywhatsthat.com/main-0904.html?view=U11UGJLP</a> |

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Table SF1 Continued

| ID    | Method | Name                            | Town                            | Historic County           | Longitude  | Latitude    | Az E | Alt E | Dec E       | Alt W | Dec W        | HWT   |
|-------|--------|---------------------------------|---------------------------------|---------------------------|------------|-------------|------|-------|-------------|-------|--------------|---|
| HC182 | VF     | Hen Chapel                      | Lligwy                          | Anglesey                  | -4.256489  | 53.352442   | 63.5 | 0     | 15.44608446 | 2     | -13.77847432 | <a href="http://www.heywhatsthat.com/main-0904.html?view=JSNGV96Q">http://www.heywhatsthat.com/main-0904.html?view=JSNGV96Q</a> |
| HC174 | VF     | St Winefride's Chapel           | Holywell                        | Flintshire                | -3.2232277 | 53.277176   | 72   | 5.6   | 15.19526971 | 8.8   | -3.438436408 | <a href="http://www.heywhatsthat.com/main-0904.html?view=A8L5DEKC">http://www.heywhatsthat.com/main-0904.html?view=A8L5DEKC</a> |
| HC239 | VF     | St Maelrhys' Church             | Llanfaelrhys                    | Caernarfonshire (west)    | -4.6570028 | 52.809343   | 70   | 4     | 15.17731222 | -0.1  | -12.01282968 | <a href="http://www.heywhatsthat.com/main-0904.html?view=VCQ7BVNE">http://www.heywhatsthat.com/main-0904.html?view=VCQ7BVNE</a> |
| HC230 | VF     | St Mary's Church                | Lanfair-is-Gaer (Bryn Llanfair) | Caernarfonshire (central) | -4.24304   | 53.16997353 | 68   | 2.55  | 15.06677061 | 0.2   | -12.81242789 | <a href="http://www.heywhatsthat.com/main-0904.html?view=VTS8SVAK">http://www.heywhatsthat.com/main-0904.html?view=VTS8SVAK</a> |
| HC184 | VF     | St Patrick's Church             | Llanbadrig                      | Anglesey                  | -4.445423  | 53.423465   | 69   | 2.6   | 14.46327989 | 0     | -12.33047531 | <a href="http://www.heywhatsthat.com/main-0904.html?view=SL4K8TBC">http://www.heywhatsthat.com/main-0904.html?view=SL4K8TBC</a> |
| HC132 | VF     | St Mary's Church                | Pentraeth                       | Anglesey                  | -4.214684  | 53.283327   | 71.5 | 4     | 14.19117516 | 0.7   | -10.36369865 | <a href="http://www.heywhatsthat.com/main-0904.html?view=A3P45IHU">http://www.heywhatsthat.com/main-0904.html?view=A3P45IHU</a> |
| HC143 | VF     | St Michael's Church             | Efenechtyd                      | Denbighshire              | -3.328128  | 53.091795   | 76   | 6.7   | 13.74375878 | 7.2   | -2.517275891 | <a href="http://www.heywhatsthat.com/main-0904.html?view=JDK0VTDD">http://www.heywhatsthat.com/main-0904.html?view=JDK0VTDD</a> |
| HC198 | VF     | St Nidan's Church               | Llanidan                        | Anglesey                  | -4.253469  | 53.177858   | 68.5 | 0.9   | 13.42679956 | 0     | -12.68884539 | <a href="http://www.heywhatsthat.com/main-0904.html?view=AFEQAFLI">http://www.heywhatsthat.com/main-0904.html?view=AFEQAFLI</a> |
| HC123 | VF     | St Hywyn's Church               | Aberdaron                       | Caernarfonshire (west)    | -4.711426  | 52.80383    | 73   | 4     | 13.40822135 | 3     | -7.748246393 | <a href="http://www.heywhatsthat.com/main-0904.html?view=ARBFI806">http://www.heywhatsthat.com/main-0904.html?view=ARBFI806</a> |
| HC228 | VF     | St Peblig's Church              | Llanbeblig                      | Caernarfonshire (central) | -4.262475  | 53.136216   | 71   | 2.5   | 13.2985735  | 0.1   | -11.18143131 | <a href="http://www.heywhatsthat.com/main-0904.html?view=DL4L5V3C">http://www.heywhatsthat.com/main-0904.html?view=DL4L5V3C</a> |
| HC205 | VF     | St Ceidio's Church              | Rhodwydd Geidio                 | Anglesey                  | -4.3876165 | 53.342289   | 68   | 0.1   | 13.00595753 | 1.5   | -11.68765787 | <a href="http://www.heywhatsthat.com/main-0904.html?view=GG80E9BJ">http://www.heywhatsthat.com/main-0904.html?view=GG80E9BJ</a> |
| HC130 | LF     | St Mael and St Sulien's Church  | Corwen                          | Denbighshire              | -3.373259  | 52.980096   | 73   | 3.2   | 12.72839695 | 10.1  | -1.907693776 | <a href="http://www.heywhatsthat.com/main-0904.html?view=G8VVMNEU">http://www.heywhatsthat.com/main-0904.html?view=G8VVMNEU</a> |
| HC195 | VF     | St Ceinwen's Church             | Llangeinwen                     | Anglesey                  | -4.3354784 | 53.16658    | 69.5 | 0.7   | 12.69191909 | 1     | -11.29995957 | <a href="http://www.heywhatsthat.com/main-0904.html?view=DOQSD264">http://www.heywhatsthat.com/main-0904.html?view=DOQSD264</a> |
| M175  | LF     | St Mary and All Saints Church   | Conwy                           | Denbighshire              | -3.828826  | 53.280639   | 70   | 1     | 12.61805346 | 4.2   | -8.351033222 | <a href="http://www.heywhatsthat.com/main-0904.html?view=J195F5NA">http://www.heywhatsthat.com/main-0904.html?view=J195F5NA</a> |
| HC131 | LF     | St Tysilio's Church             | Llantysilio                     | Denbighshire              | -3.201852  | 52.983232   | 79   | 7.5   | 12.59824732 | 3.4   | -3.860093166 | <a href="http://www.heywhatsthat.com/main-0904.html?view=VASCDO4R">http://www.heywhatsthat.com/main-0904.html?view=VASCDO4R</a> |
| HC248 | VF     | St Eilian's Church              | Llaneilian-yn-Rhos              | Denbighshire              | -3.7056662 | 53.272642   | 70   | 0.8   | 12.45667821 | 4.4   | -8.188970711 | <a href="http://www.heywhatsthat.com/main-0904.html?view=F2ACVBND">http://www.heywhatsthat.com/main-0904.html?view=F2ACVBND</a> |
| HC237 | VF     | St Pedrog's Church              | Llanbedrog                      | Caernarfonshire (west)    | -4.482566  | 52.855487   | 70   | 0.6   | 12.40714048 | 7.6   | -5.697907735 | <a href="http://www.heywhatsthat.com/main-0904.html?view=G6IBN8JG">http://www.heywhatsthat.com/main-0904.html?view=G6IBN8JG</a> |
| HC156 | LF     | St Dyfnog's Church              | Denbigh (LL16 4NN)              | Denbighshire              | -3.376275  | 53.16042    | 74   | 3.3   | 12.18454612 | 5.4   | -5.11849057  | <a href="http://www.heywhatsthat.com/main-0904.html?view=N3BNLRI4">http://www.heywhatsthat.com/main-0904.html?view=N3BNLRI4</a> |
| HC149 | LF     | St Peter's Church               | Ruthin                          | Denbighshire              | -3.3108    | 53.1154     | 75   | 4     | 12.16692783 | 2.5   | -6.909873075 | <a href="http://www.heywhatsthat.com/main-0904.html?view=U7VB776N">http://www.heywhatsthat.com/main-0904.html?view=U7VB776N</a> |
| HC187 | VF     | St B(P)abo's Church             | Llanbabo                        | Anglesey                  | -4.4383384 | 53.352913   | 71   | 0.2   | 11.36894711 | 2.8   | -8.911058635 | <a href="http://www.heywhatsthat.com/main-0904.html?view=JR3S5RQF">http://www.heywhatsthat.com/main-0904.html?view=JR3S5RQF</a> |
| HC133 | VF     | St Beuno's Church               | Clynnog Fawr                    | Caernarfonshire (central) | -4.365325  | 53.020999   | 78.5 | 5.5   | 11.29958865 | 0     | -6.887731128 | <a href="http://www.heywhatsthat.com/main-0904.html?view=N91A6UH2">http://www.heywhatsthat.com/main-0904.html?view=N91A6UH2</a> |
| HC172 | VF     | St Mary and St Nicholas' Church | Beaumaris                       | Anglesey                  | -4.094462  | 53.263465   | 71   | 0     | 11.22919237 | 4     | -7.952802312 | <a href="http://www.heywhatsthat.com/main-0904.html?view=PFEPQA73">http://www.heywhatsthat.com/main-0904.html?view=PFEPQA73</a> |
| HC229 | VF     | St Baglan's Church              | Llanfaglan                      | Caernarfonshire (central) | -4.309516  | 53.12102653 | 75.5 | 2.7   | 10.82288277 | 0     | -8.641978547 | <a href="http://www.heywhatsthat.com/main-0904.html?view=BS0VP9AJ">http://www.heywhatsthat.com/main-0904.html?view=BS0VP9AJ</a> |
| HC150 | VF     | St Mary's Church                | Llanfair Mathafarn Eithaf       | Anglesey                  | -4.243501  | 53.321835   | 72   | 0     | 10.63675682 | 2     | -9.002637882 | <a href="http://www.heywhatsthat.com/main-0904.html?view=I5N3IC4V">http://www.heywhatsthat.com/main-0904.html?view=I5N3IC4V</a> |
| HC136 | VF     | St Elidan's Church              | Llanelidan                      | Denbighshire              | -3.329147  | 53.044696   | 78   | 3.8   | 10.23464337 | 4.6   | -3.468790967 | <a href="http://www.heywhatsthat.com/main-0904.html?view=RJ5J59OI">http://www.heywhatsthat.com/main-0904.html?view=RJ5J59OI</a> |

Continued

S4 Supplementary Data for The Dual Alignments of the Solstitial Churches in North Wales

Table SF1 Continued

| ID    | Method | Name                             | Town                      | Historic County           | Longitude  | Latitude    | Az E | Alt E | Dec E       | Alt W | Dec W        | HWT   |
|-------|--------|----------------------------------|---------------------------|---------------------------|------------|-------------|------|-------|-------------|-------|--------------|---|
| HC160 | VF     | St Mary's Church                 | Cilcain                   | Flintshire                | -3.2325    | 53.1769     | 73   | 0     | 10.09215489 | 4.2   | -6.669088918 | <a href="http://www.heywhatsthat.com/main-0904.html?view=TTOPUKOO">http://www.heywhatsthat.com/main-0904.html?view=TTOPUKOO</a> |
| HC192 | VF     | St Mary's Church                 | Llanfair-yn-Neubwll       | Anglesey                  | -4.5551647 | 53.270048   | 75.5 | 1.3   | 9.664745055 | 1.2   | -7.638412314 | <a href="http://www.heywhatsthat.com/main-0904.html?view=V4U320KJ">http://www.heywhatsthat.com/main-0904.html?view=V4U320KJ</a> |
| HC242 | VF     | St Mary's Church                 | Nefyn                     | Caernarfonshire (west)    | -4.518043  | 52.936499   | 83   | 6.7   | 9.558150802 | 1.5   | -3.011539948 | <a href="http://www.heywhatsthat.com/main-0904.html?view=CNPQ1BS7">http://www.heywhatsthat.com/main-0904.html?view=CNPQ1BS7</a> |
| HC235 | VF     | St Michael and All Angels Church | Treflys                   | Caernarfonshire (central) | -4.18121   | 52.917852   | 78   | 1.8   | 8.647736278 | 2.3   | -5.350335303 | <a href="http://www.heywhatsthat.com/main-0904.html?view=E8SMERVB">http://www.heywhatsthat.com/main-0904.html?view=E8SMERVB</a> |
| HC144 | VF     | St Michael's Church              | Betws-y-Coed              | Caernarfonshire (east)    | -3.799444  | 53.0925     | 92   | 12    | 8.380562636 | 8.5   | 7.985189005  | <a href="http://www.heywhatsthat.com/main-0904.html?view=TQKQLJ6">http://www.heywhatsthat.com/main-0904.html?view=TQKQLJ6</a>   |
| HC183 | VF     | St Eilian's Church               | Llaneilian                | Anglesey                  | -4.30477   | 53.409737   | 76   | 0     | 8.291351973 | 0.5   | -7.885545279 | <a href="http://www.heywhatsthat.com/main-0904.html?view=EHIEP3DR">http://www.heywhatsthat.com/main-0904.html?view=EHIEP3DR</a> |
| HC221 | VF     | St Mary's Church                 | Caerhun                   | Caernarfonshire (east)    | -3.833306  | 53.216518   | 86.5 | 7.7   | 8.252504702 | 5.7   | 2.47428004   | <a href="http://www.heywhatsthat.com/main-0904.html?view=Q84K1DEQ">http://www.heywhatsthat.com/main-0904.html?view=Q84K1DEQ</a> |
| HC147 | VF     | St Meugan's Church               | Llanrhudd (mother church) | Denbighshire              | -3.286124  | 53.110105   | 87   | 8     | 8.187892441 | 1.7   | -0.439782427 | <a href="http://www.heywhatsthat.com/main-0904.html?view=U6V45L5N">http://www.heywhatsthat.com/main-0904.html?view=U6V45L5N</a> |
| HC168 | VF     | St Michael's Church              | Nannerch                  | Flintshire                | -3.249452  | 53.217569   | 82   | 2.8   | 7.028256481 | 3     | -2.367157323 | <a href="http://www.heywhatsthat.com/main-0904.html?view=O29E2M21">http://www.heywhatsthat.com/main-0904.html?view=O29E2M21</a> |
| HC128 | VF     | St Collen's Church               | Llangollen                | Denbighshire              | -3.167739  | 52.969417   | 82   | 1.5   | 6.008988775 | 8.6   | 2.091920889  | <a href="http://www.heywhatsthat.com/main-0904.html?view=C57K8A3J">http://www.heywhatsthat.com/main-0904.html?view=C57K8A3J</a> |
| HC224 | VF     | St Celynin's Church              | Llangelynnin              | Caernarfonshire (east)    | -3.872981  | 53.245823   | 81   | 0.2   | 5.532128365 | 6.5   | -0.132149045 | <a href="http://www.heywhatsthat.com/main-0904.html?view=ANHMPEU1">http://www.heywhatsthat.com/main-0904.html?view=ANHMPEU1</a> |
| HC204 | LF     | St Beuno's Church                | Tredfraeth                | Anglesey                  | -4.3842678 | 53.206805   | 82   | 0.6   | 5.263485554 | 0.8   | -4.138385169 | <a href="http://www.heywhatsthat.com/main-0904.html?view=TAO37DQT">http://www.heywhatsthat.com/main-0904.html?view=TAO37DQT</a> |
| HC137 | VF     | St Mary's Church                 | Derwen                    | Denbighshire              | -3.388681  | 53.045449   | 82   | 0.5   | 5.200344534 | 5     | -0.7851275   | <a href="http://www.heywhatsthat.com/main-0904.html?view=TOQU2CRD">http://www.heywhatsthat.com/main-0904.html?view=TOQU2CRD</a> |
| HC200 | LF     | St Rhwydrus' Church              | Llanrhwydrus              | Anglesey                  | -4.5257476 | 53.4091     | 82   | 0.3   | 5.000451901 | 0     | -4.758768382 | <a href="http://www.heywhatsthat.com/main-0904.html?view=GDE31ORR">http://www.heywhatsthat.com/main-0904.html?view=GDE31ORR</a> |
| HC152 | VF     | St Berres' Church                | llanferres                | Denbighshire              | -3.214488  | 53.135984   | 89   | 5.5   | 4.997042083 | 10    | 7.389755834  | <a href="http://www.heywhatsthat.com/main-0904.html?view=KJ45R5TM">http://www.heywhatsthat.com/main-0904.html?view=KJ45R5TM</a> |
| HC222 | VF     | St Peter's Church                | Llanbedr-y-Cennin         | Caernarfonshire (east)    | -3.857161  | 53.208677   | 86.5 | 2.8   | 4.337906222 | 12.5  | 7.910969321  | <a href="http://www.heywhatsthat.com/main-0904.html?view=PSP27LHT">http://www.heywhatsthat.com/main-0904.html?view=PSP27LHT</a> |
| HC234 | VF     | St Beuno's Church                | Penmorpha                 | Caernarfonshire (central) | -4.1720702 | 52.940177   | 86.5 | 2.5   | 4.103843922 | 5.2   | 2.045091965  | <a href="http://www.heywhatsthat.com/main-0904.html?view=DFQ08HG4">http://www.heywhatsthat.com/main-0904.html?view=DFQ08HG4</a> |
| HC194 | VF     | St Figael's Church               | Llanfigael                | Anglesey                  | -4.5114259 | 53.315842   | 84.5 | 0.7   | 3.844659442 | 0.3   | -3.041477184 | <a href="http://www.heywhatsthat.com/main-0904.html?view=FPBI4364">http://www.heywhatsthat.com/main-0904.html?view=FPBI4364</a> |
| HC241 | VF     | Holy Cross Church                | Llanor                    | Caernarfonshire (west)    | -4.449205  | 52.907517   | 85   | 0.96  | 3.77972962  | 1     | -2.214160557 | <a href="http://www.heywhatsthat.com/main-0904.html?view=LP1BIAOB">http://www.heywhatsthat.com/main-0904.html?view=LP1BIAOB</a> |
| HC227 | VF     | St Aelhaearn's Church            | Llanaelhaearn             | Caernarfonshire (central) | -4.403704  | 52.976342   | 90.5 | 5     | 3.689496314 | 13.9  | 11.35548623  | <a href="http://www.heywhatsthat.com/main-0904.html?view=VI1AAH6T">http://www.heywhatsthat.com/main-0904.html?view=VI1AAH6T</a> |
| HC240 | VF     | St Gwyn's Church                 | Llangynadl                | Caernarfonshire (west)    | -4.6623994 | 52.866716   | 90   | 4.3   | 3.426929257 | 1.6   | 1.275512984  | <a href="http://www.heywhatsthat.com/main-0904.html?view=BNLOLDIN">http://www.heywhatsthat.com/main-0904.html?view=BNLOLDIN</a> |
| HC201 | VF     | St Sadwrn's Church               | Llansadwrn                | Anglesey                  | -4.169269  | 53.259842   | 85   | 0.2   | 3.148977869 | 1.4   | -1.864789956 | <a href="http://www.heywhatsthat.com/main-0904.html?view=S4V3FFCV">http://www.heywhatsthat.com/main-0904.html?view=S4V3FFCV</a> |
| HC181 | VF     | St Gallgo's Church               | Llanallgo                 | Anglesey                  | -4.252399  | 53.341152   | 85   | 0     | 2.982805248 | 1.5   | -1.77755199  | <a href="http://www.heywhatsthat.com/main-0904.html?view=QSPD60I4">http://www.heywhatsthat.com/main-0904.html?view=QSPD60I4</a> |
| HC231 | VF     | St Cybi's Church                 | Llangybi                  | Caernarfonshire (central) | -4.340131  | 52.94512552 | 86   | 0.7   | 2.968135956 | 2.3   | -0.571388138 | <a href="http://www.heywhatsthat.com/main-0904.html?view=M8PPKVHL">http://www.heywhatsthat.com/main-0904.html?view=M8PPKVHL</a> |
| HC125 | VF     | St Egan's Church                 | Llanengan                 | Caernarfonshire (west)    | -4.53282   | 52.81375    | 96   | 8.2   | 2.928917114 | 1.3   | 4.659614778  | <a href="http://www.heywhatsthat.com/main-0904.html?view=N3DLQIQ7">http://www.heywhatsthat.com/main-0904.html?view=N3DLQIQ7</a> |
| HC162 | LF     | St Tysilio's Church              | Church Island             | Anglesey                  | -4.17126   | 53.22242    | 92   | 4.5   | 2.407863167 | 3     | 3.599703588  | <a href="http://www.heywhatsthat.com/main-0904.html?view=DPOFIJPA">http://www.heywhatsthat.com/main-0904.html?view=DPOFIJPA</a> |
| HC249 | LF     | St Cynfran's Church              | Llysfaen                  | Denbighshire              | -3.661473  | 53.282824   | 86   | 0     | 2.390212983 | 2.6   | -0.303625766 | <a href="http://www.heywhatsthat.com/main-0904.html?view=TG03E15H">http://www.heywhatsthat.com/main-0904.html?view=TG03E15H</a> |

Continued

Table SF1 Continued

| ID    | Method | Name                             | Town                    | Historic County        | Longitude  | Latitude  | Az E  | Alt E | Dec E        | Alt W | Dec W        | HWT   |
|-------|--------|----------------------------------|-------------------------|------------------------|------------|-----------|-------|-------|--------------|-------|--------------|---|
| HC203 | VF     | St Michael's Church              | Penrhos Llugwy          | Anglesey               | -4.28406   | 53.348283 | 88    | 1     | 1.996116338  | 4.4   | 2.337068749  | <a href="http://www.heywhatsthat.com/main-0904.html?view=PJSO8QB9">http://www.heywhatsthat.com/main-0904.html?view=PJSO8QB9</a> |
| HC238 | VF     | St Tudwen's Church               | Llandudwen              | Caernarfonshire (west) | -4.5676048 | 52.901423 | 88    | 0.8   | 1.844390732  | 0.7   | -0.64774982  | <a href="http://www.heywhatsthat.com/main-0904.html?view=PCE3TIV1">http://www.heywhatsthat.com/main-0904.html?view=PCE3TIV1</a> |
| HC186 | VF     | St Llwdian's Church              | Heneglwys               | Anglesey               | -4.3664928 | 53.258633 | 88    | 0.6   | 1.677136272  | 0.7   | -0.635161706 | <a href="http://www.heywhatsthat.com/main-0904.html?view=D30AE0F4">http://www.heywhatsthat.com/main-0904.html?view=D30AE0F4</a> |
| HC250 | VF     | St Mary's Church                 | Rhuddlan                | Flintshire             | -3.4694736 | 53.290792 | 90.5  | 2.4   | 1.625075249  | 0.5   | 0.699713922  | <a href="http://www.heywhatsthat.com/main-0904.html?view=JCQ4485C">http://www.heywhatsthat.com/main-0904.html?view=JCQ4485C</a> |
| HC254 | VF     | St Kentigern and St Asa's Church | St Asaph                | Denbighshire           | -3.4452613 | 53.257016 | 94    | 3.8   | 0.657119414  | 1.3   | 3.434038624  | <a href="http://www.heywhatsthat.com/main-0904.html?view=H3D2MLK5">http://www.heywhatsthat.com/main-0904.html?view=H3D2MLK5</a> |
| HC202 | VF     | St Cynfarwy's Church             | Llechcynfarwy           | Anglesey               | -4.430737  | 53.301976 | 89    | 0     | 0.59757799   | -0.1  | -0.677761637 | <a href="http://www.heywhatsthat.com/main-0904.html?view=CQ0C25IQ">http://www.heywhatsthat.com/main-0904.html?view=CQ0C25IQ</a> |
| HC164 | VF     | St Mary's Church                 | Llanfair-yng-Nghornwy   | Anglesey               | -4.516384  | 53.38793  | 90    | 0.5   | 0.401344116  | 4.8   | 3.851315172  | <a href="http://www.heywhatsthat.com/main-0904.html?view=E9I22HE2">http://www.heywhatsthat.com/main-0904.html?view=E9I22HE2</a> |
| HC252 | VF     | St Mary Magdalene's Church       | Gwaenysgor              | Flintshire             | -3.3896832 | 53.318073 | 90    | 0.1   | 0.080196397  | 0.03  | 0.024058923  | <a href="http://www.heywhatsthat.com/main-0904.html?view=M7MJ19U8">http://www.heywhatsthat.com/main-0904.html?view=M7MJ19U8</a> |
| HC193 | VF     | St Mechell's Church              | Llanfechell             | Anglesey               | -4.453619  | 53.393029 | 96.4  | 0.9   | -3.087115734 | 1.8   | 5.258736893  | <a href="http://www.heywhatsthat.com/main-0904.html?view=SE2O5Q1A">http://www.heywhatsthat.com/main-0904.html?view=SE2O5Q1A</a> |
| HC179 | LF     | St Cybi's Church                 | Holyhead                | Anglesey               | -4.632515  | 53.31131  | 96    | 0     | -3.580582968 | 3.7   | 6.549996445  | <a href="http://www.heywhatsthat.com/main-0904.html?view=JK2CSA2M">http://www.heywhatsthat.com/main-0904.html?view=JK2CSA2M</a> |
| HC134 | LF     | St Michael's Church              | Llanfihangel Glyn Myfyr | Denbighshire           | -3.5081    | 53.0325   | 106   | 7     | -3.85039517  | 4.5   | 13.17545787  | <a href="http://www.heywhatsthat.com/main-0904.html?view=L9KONDFH">http://www.heywhatsthat.com/main-0904.html?view=L9KONDFH</a> |
| HC236 | VF     | St Cawrdaf's Church              | Abererch                | Caernarfonshire (west) | -4.3854506 | 52.902667 | 98    | 1     | -4.014683638 | 2.7   | 6.97432974   | <a href="http://www.heywhatsthat.com/main-0904.html?view=A7TKIJLV">http://www.heywhatsthat.com/main-0904.html?view=A7TKIJLV</a> |
| HC158 | VF     | St Mary's Church                 | Mold                    | Flintshire             | -3.142947  | 53.169131 | 99    | 0.8   | -4.737501827 | 2.1   | 7.067718903  | <a href="http://www.heywhatsthat.com/main-0904.html?view=MVM8RNMI">http://www.heywhatsthat.com/main-0904.html?view=MVM8RNMI</a> |
| HC189 | VF     | St Mary's Church                 | Llanbeulan              | Anglesey               | -4.4483323 | 53.227721 | 107   | 1.7   | -8.695543797 | 0.1   | 10.16142268  | <a href="http://www.heywhatsthat.com/main-0904.html?view=TAUD0VOV">http://www.heywhatsthat.com/main-0904.html?view=TAUD0VOV</a> |
| HC223 | VF     | St Tudno's Church                | Llandudno               | Caernarfonshire (east) | -3.8491376 | 53.337039 | 110   | 2     | -10.14285652 | 4     | 15.05113626  | <a href="http://www.heywhatsthat.com/main-0904.html?view=NFO55377">http://www.heywhatsthat.com/main-0904.html?view=NFO55377</a> |
| HC244 | VF     | St Aelrhwi's Church              | Rhiw with Llanfaelrhys  | Caernarfonshire (west) | -4.6225257 | 52.826193 | 108.5 | 0.6   | -10.56623454 | 11.5  | 20.28775468  | <a href="http://www.heywhatsthat.com/main-0904.html?view=NS4KT5NR">http://www.heywhatsthat.com/main-0904.html?view=NS4KT5NR</a> |
| HC247 | LF     | St Trillo's Chapel               | Llandrillo-yn-Rhos      | Denbighshire           | -3.7396847 | 53.314413 | 114   | 1.2   | -13.07030217 | 2     | 15.71382874  | <a href="http://www.heywhatsthat.com/main-0904.html?view=NOLDR7GF">http://www.heywhatsthat.com/main-0904.html?view=NOLDR7GF</a> |