



# Green Bank Observatory's Astronomy Merit Badge Weekend

|          | Group 1 (~15 scouts)                          | Group 2 (~15 scouts)       | Group 3 (~15 scouts)       |
|----------|-----------------------------------------------|----------------------------|----------------------------|
| 8:00 AM  | Breakfast for anyone who arrives Friday night |                            |                            |
| 9:00 AM  | Welcome and intro to weekend; safety (#1)     |                            |                            |
| 9:30 AM  | Intro to the 40 Foot                          |                            |                            |
| 10:00 AM | Tour (#8a)                                    | 40' (#3c,d)                | Exhibit Hall (#8a)         |
| 11:00 AM | Exhibit Hall (#8a)                            | Stellarium (#4b, c, 5, 7c) | 40' (#3c,d)                |
| 12:00 PM | 40 Foot (#3c,d)                               | Exhibit Hall (#8a)         | Tour                       |
| 1:00 PM  | LUNCH                                         |                            |                            |
| 2:00 PM  | Stellarium (#4b, c, 5, 7c)                    | Tour (#8a)                 | Stellarium (#4b, c, 5, 7c) |
| 3:00 PM  | RFI Detective (#2)                            |                            |                            |
| 4:00 PM  | Moon Phases (#6cd)                            |                            |                            |
| 5:00 PM  | Supper                                        |                            |                            |

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:15 PM                         | <p>Star Party on the Star Party Patio (#3b, 3d, 4a, 4d, 5d, 8a, 9)</p> <p>If weather does not permit, we will meet all of these requirements with Stellarium during this time.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| On your own through the evening | <ol style="list-style-type: none"> <li>1. Observe at the 40 Foot – small groups (#3b and 4d)</li> <li>2. Classroom: Moon sketch (#6a)</li> <li>3. Classroom: Learn how a refracting telescope works by taking apart and reassembling the cardboard tube telescopes. While you are doing this, keep in mind that this device is very similar to (but probably better than) the one Galileo used to make his earth shattering discoveries back in the early 1600s. (# 3a)</li> <li>4. With your adult's permission, use the computer lab (web browser &amp; Stellarium) to complete any of the requirements not covered (6b, 7a, and 7b).</li> <li>5. Review all of the following, which should be completed: 1, 2, 3, 4, 5, 6acd, 7c, and 8a</li> </ol> |

Sunday 11/20

|          |                                 |
|----------|---------------------------------|
| 8:00 AM  | Breakfast and Pack up Bunkhouse |
| 9:00 AM  | 40 Foot Data Debrief            |
| 9:45 AM  | GBT Control Room Tour (#9)      |
| 10:30 AM | Bye! We'll miss you             |