Astrophysics 2012 Senior Review
Presentation to AAS

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Senior Review of Operating Missions

• The Senior Review assists NASA in maximizing the scientific productivity from its Operating Missions. NASA will use the findings from the Senior Review to
  – Prioritize the operating missions and projects
  – Define an implementation approach to achieve astrophysics strategic objectives
  – Provide programmatic direction to the missions and projects concerned for 2011 and 2012; and
  – Issue initial funding guidelines for 2013 and 2014 (to be revisited in the 2012 Senior Review).

• Held every two years, the Senior Review evaluates proposals for continued funding for its operating missions and programs. It is the highest level of peer review within the Astrophysics program

• Missions in this review include Great Observatories, Explorers, and Foreign led missions in which U.S is a minor partner
## Senior Review 2010 Rankings

### Rank ordering

1. Planck (9.6)
2. Chandra (9.5)
3. Warm Spitzer (8.7)
4. Swift (8.5)
5. XMM-Newton (8.2)
6. WMAP (7.6)
7. Suzaku (7.5)
8. GALEX (6)
9. RXTE (5.5)
10. INTEGRAL (3.5)

### Astro SR 2010 Ranking

![Bar chart showing the ranking of different missions](http://science.nasa.gov/astrophysics/2012-senior-review/)

- **Decommissioning or ending partnerships**
2012 Senior Review of Operating Missions

<table>
<thead>
<tr>
<th>Invited Missions</th>
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<tbody>
<tr>
<td>Planck</td>
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<tr>
<td>Chandra</td>
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<td>Warm Spitzer</td>
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<td>Suzaku</td>
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<td>Swift</td>
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<td>XMM-Newton</td>
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2012 Senior Review Schedule

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<tr>
<th>Event</th>
<th>Date</th>
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<tr>
<td>Draft Call for proposals</td>
<td>July 1, 2011</td>
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<tr>
<td>Call for Proposals</td>
<td>August 10, 2011</td>
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<td>EPO SR Proposals Due</td>
<td>Dec 15, 2011</td>
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<td>SR Proposals Due</td>
<td>Jan 15, 2011</td>
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<td>EPO Section Review</td>
<td>Jan 23 – 25, 2012</td>
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<td>SRC Meets</td>
<td>Feb 28-March 2, 2012</td>
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<tr>
<td>Final Report</td>
<td>March 30, 2012</td>
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- Suzaku invited to SR in September 2011 after the Division performed a review of the overall portfolio of operating missions

http://science.nasa.gov/astrophysics/2012-senior-review/
Changes since Astro SR 2012

Process Changes for 2012 SR

• Better defined process for inviting missions into Senior Review
  – Program Office held independent reviews to assess how mission in its prime phase has met or is on its way to meeting level-1 requirements
  – Fermi and Kepler underwent this review

• EPO review part of Senior Review 2012
  – In 2010, the EPO review was performed separately, after the Senior Review

New Projects in the Senior Review

• Kepler and Fermi were invited to participate in the Senior Review after completing L1 requirements review

• The Astrophysics Subcommittee had recommended (in 2009) that HST be invited to the 2012 Senior Review