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Lesson 61 Trouble with the Hubble

哈勃望远镜的困境 将来进行时 将来完成时 将来完成进行时

与课文关联的 17 个单词(点击每个单词可查看详细介绍) 

Hubble /'hʌb(ə)l/ n. 哈勃

telescope /'telɪskəʊp/ n. 望远镜

launch * /lɔːntʃ/ v. 发射

space * /speɪs/ n. 空间

NASA /'næsə/

billion * /'bɪljən/ n. 10 亿

n. (National Aeronautics and Space Administration) 国家航空和航天局

faulty /'fɔːlti/ adj. 有错误的

astronaut /'æstrənɔːt/ n. 宇航员

shuttle /'ʃʌt(ə)l/ n. 航天飞机

endeavour /ɪn'devə(r)/

robot-arm /'rəʊbɒt a:m/

grab /græb/ v. 抓

n. Endeavour “奋进”号

n. 机器人

atmosphere /'ætməsfiə(r)/

distant /'dɪstənt/ adj. 遥远的

galaxy /'gæləksi/ n. 星系

n. 大气层

universe /'juːnɪvɜːs/ n. 宇宙

eagle eye /iːgl 'aɪ/ n. 鹰眼

课文理解 哈勃望远镜 难度：4 级

※ The Hubble telescope **was launched** into space by NASA **on April 20, 1990** at a cost of over a billion dollars.

『 at a cost of ... 造价为..., 耗资, 以...的价格/费用 』

- He **has** just **built** a new house for his family **at a cost of** \$10,000.

『 **NASA = National Aeronautics and Space Administration** (美国)国家航空和宇宙航行局 (单词缩写一般都是组织或者机构) 』

- The growth mainly came from China's forest protection programs, **NASA** said. NASA 说, 增长主要来自于中国的森林保护计划。

※ Right from the start **there was** trouble with the Hubble.

『 **right from the start** 从最开始 (right 起强调作用) 』

- He didn't want to work at the firm **(right) from the start**.
- She is here. → She is **right here**.
- from the start 从一开始 → **right from the start** 自始至终

『 **trouble with...** 关于...有麻烦 』

- What's the **trouble with** you? 你有什么麻烦? (医生常这样问)
- There is (engine) **trouble with** my car. 伴随着麻烦

※ The pictures it **sent** us **were** very **disappointing** because its main mirror **was** **faulty**!

| fault n. 错误 | faulty adj. 有错误的 |
|-----------------------|-------------------------------|
| Sorry, it's my fault. | The answer is faulty . |

『 分析长难句的步骤: 』

1. 准备: 数谓语动词
2. 断开: 标点 / 连接词 / 分析主谓

| | | | | | |
|-------------------|----------------------|-----------------------------------|---------|--------------------|-----------------------|
| The pictures § | it sent us | were very disappointing | because | its main mirror | was faulty! |
| 先行词 | 定语从句 | 谓语 + 表语 | 原因 | 主语 | 谓语 + 表语 |
| 主语 | | | | | |
| 原因状语主句 | | | 原因状语从句 | | |

※ NASA **is now going to put** the telescope **right**, so it **will** soon **be sending up four astronauts to repair it**.

put sth. right 修好 (故障等), 校正, 纠正

- Remember to **put** the lights **right** tomorrow.

『 **send up** 往上送 』

- They will **send up** another satellite into space next year. 明年他们将发送另一颗人造卫星到太空。
- They are determined to **send up** another man-made satellite. 他们决定发射另一颗人造卫星。

※ A robot-arm from the Endeavour **will grab** the telescope **and hold it while** the astronauts **make** the necessary **repairs**.

『 **hold it** 抓住它 』

| | | | |
|---|------------|---|-------------------------------|
| A robot-arm from the Endeavour will grab the telescope | and | (it will) hold it while the astronauts make | the necessary repairs. |
| 简单句 | 并列连词 | 时间状语从句 | (宾语)名词 (adj.+ n.) |

※ it **will** soon **be sending** us **the clearest pictures of the stars and distant galaxies that we have ever seen**.

『 **the + adj.最高级 + n. + sb. + have ever done** 曾经做过的最xx的事。 』

- It is one of the ugliest faces **I have ever seen**.
- 'This is the prettiest carpet **I have ever seen**,' she said.
- Unfortunately, the show was one of the dullest **we have ever seen**.

※ The Hubble **will tell** us **a great deal** about **the age and size of the universe**.

| | |
|---|---|
| a great deal 大量(配合介词of、about等使用) | a great deal of... 大量的...(可接不可数名词) |
| Emma, I trust your opinion a great deal . 埃玛, 我非常相信你的观点。 | The race gave everyone a great deal of pleasure. |

※ By the time you read this, the Hubble's eagle eye will have sent us thousands and thousands of wonderful pictures.

| | |
|--|---|
| <p>by the time 到那时(by+将来的时间)</p> | <ul style="list-style-type: none"> • He will have arrived by this time tomorrw. • He will phone us later today. He will have received his exam results by then. |
| <p>By the time you read this</p> | <ol style="list-style-type: none"> 1. by + 时间 表示“截止到……时间”，与完成时连用 2. by the time + 句子 引导时间状语从句 3. 时间与条件状语从句中的一般现在时表将来 |
| <p>by the time + 句子 (一般现在时) 表示“截至到将来”</p> | <ul style="list-style-type: none"> • The conference will have lasted a full week by the time it ends. • By the time he arrives in Beijing, we will have stayed here for two days. |

语法知识 将来完成进行时 难度：5 级

| | | |
|------------------------------------|--|---|
| <p>将来完成进行时 (强调过程)</p> | <p>will/shall have been + doing</p> | <ul style="list-style-type: none"> • By Friday midday, they will have been working on it for seven days. • They will have been preparing for a month. • By this time next week, I will have been working for this firm for twenty years. • By Friday midday, they will have been working on it for seven days. (work on sth. 关于...的工作) |
| <p>将来完成时 (强调结果)</p> | <p>will/shall have + done</p> | <ul style="list-style-type: none"> • Soon the astronauts will have repaired the telescope. • By next Sunday, they will have finished all the preparation. • Workers will have completed the new roads by the end of this year. |
| <p>一般将来时 (不那么确定的将来)</p> | <p>will + do</p> | <p>They will be here tomorrow.</p> |

| | | |
|--------------|-----------------|---|
| 将来进行时(确定的将来) | will be + doing | They will be arriving here tomorrow . |
|--------------|-----------------|---|

『在时间状语从句中 要用现在完成时代替将来完成时』

- By the time I've **completed** this one, I'll **have been writing** for six years. 到我写完这本书时，我将已经写了 6 年书了。
- **When I've built** this one, I'll **have built** five all together.

| 原型 (do) | 过去式 (did) | 过去分词 (done) | 现在分词 (doing) |
|---------|-----------|-------------|--------------|
| grab | grabbed | grabbed | grabbing |



Beat around the bush

拐弯抹角，旁敲侧击

共有4道练习题(解题方法与答案需要在“ncego.com”笔记官网查看)

1. The Hubble telescope _____. (单选)

- A、 will tell us a great deal about the universe
- B、 cost a lot but was almost worthless
- C、 will measure the size of the earth
- D、 requires constant care from the astronauts

2. A robot-arm will hold the telescope _____ the astronauts to repair it. (单选)

- A、 for
- B、 so that
- C、 so long as
- D、 which for

3. The main mirror of the Hubble _____. (单选)

- A、 had problems
- B、 was distant
- C、 was the clearest
- D、 requires repairs

4. The Hubble is _____ the earth's atmosphere. (单选)

- A、 below
- B、 over
- C、 within
- D、 outside

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