# 天然源面波数据处理

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#### 概述

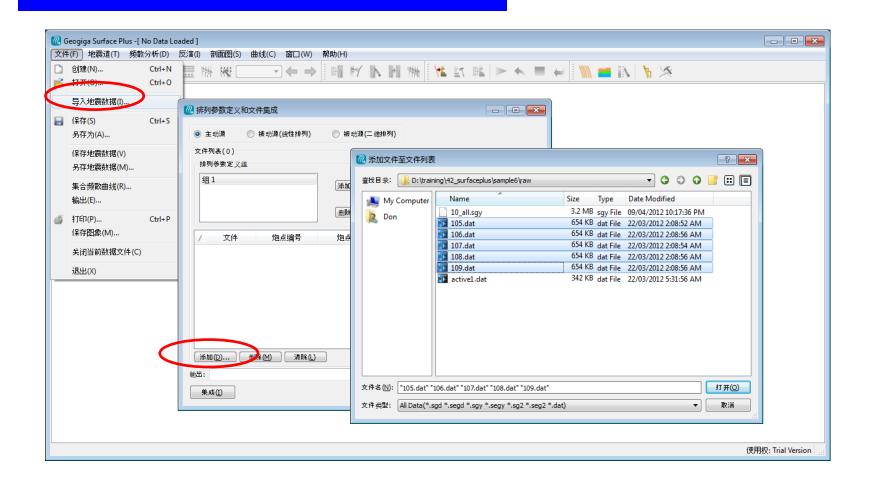
天然源面波数据处理流程与人工源面波 类似,包括五个基本步骤:

- 1. 输入数据
- 2. 频散计算
- 3. 频散提取
- 4. 反演
- 5. 成果图输出

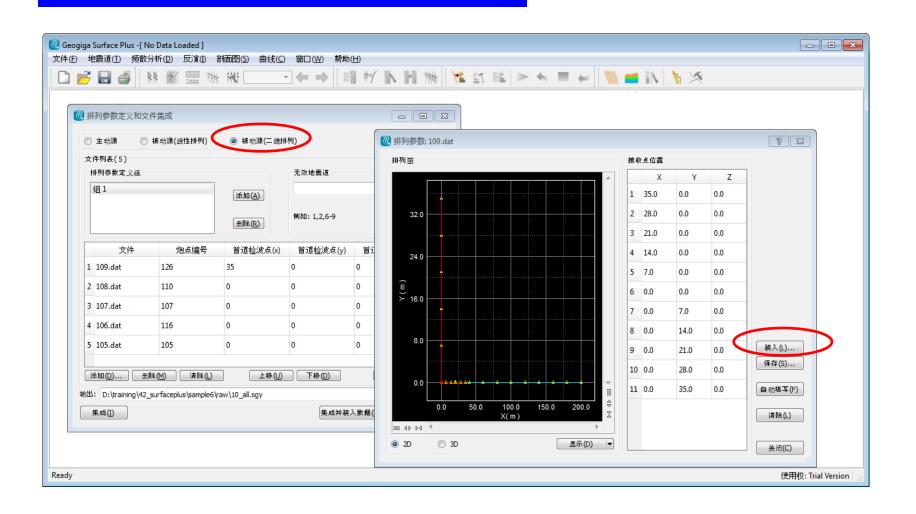
下面演示每个步骤的具体操作。



#### 输入数据-同时装入多个记录

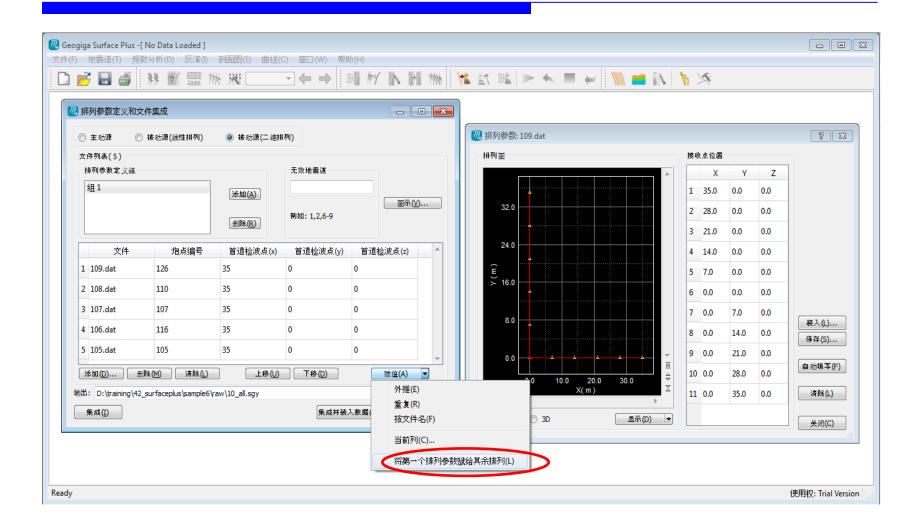


#### 输入数据-定义第一个记录的排列参数

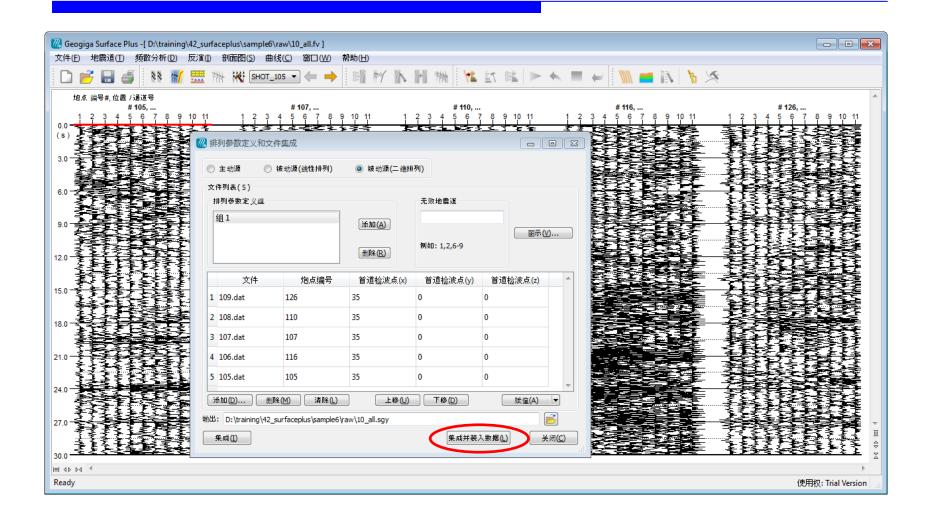




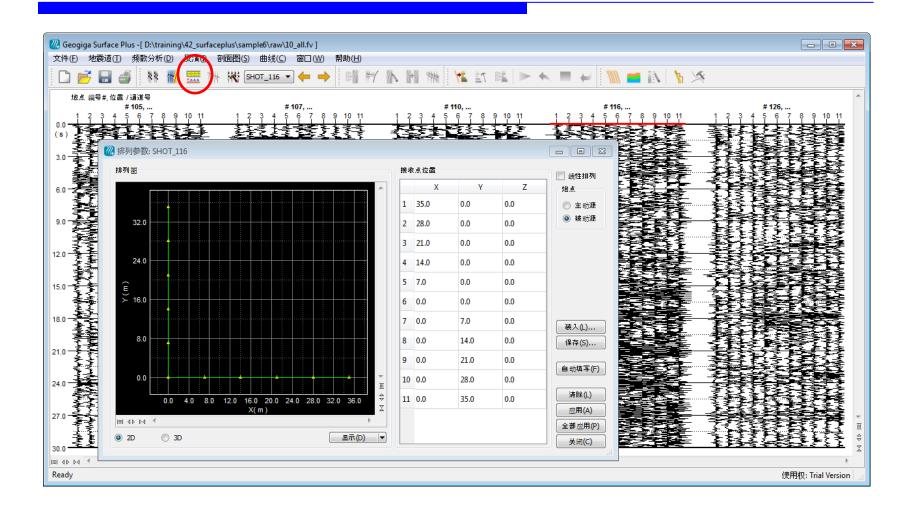
#### 输入数据-定义其余记录的排列参数



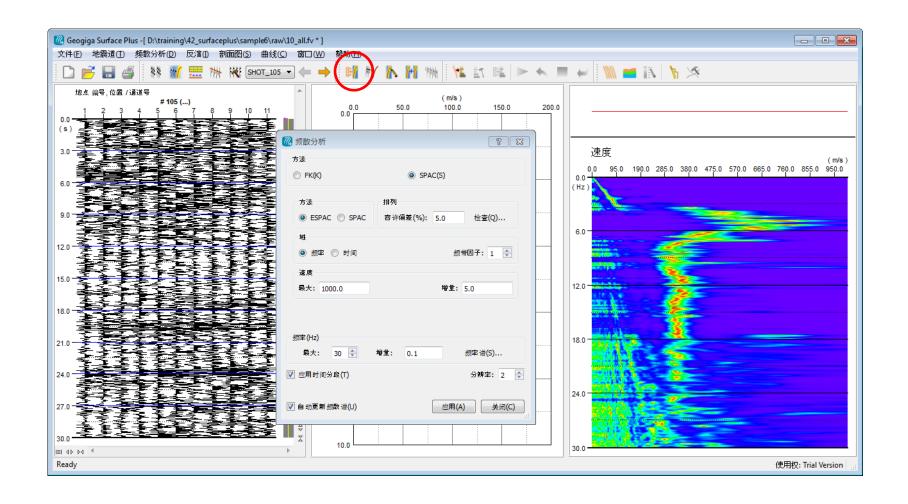
# 输入数据-集成并装入数据



### 输入数据-检查排列参数

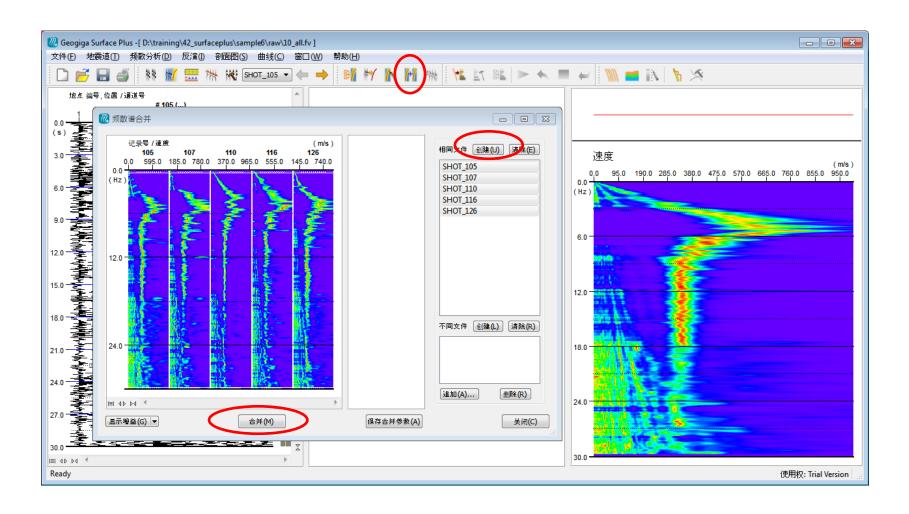


# 频散计算-单个记录

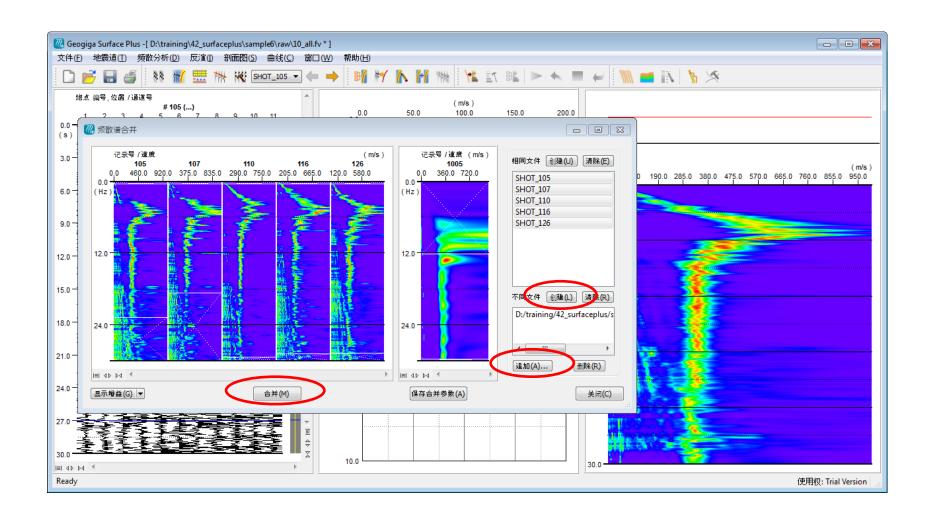




# 频散计算-合并多个记录的频散谱

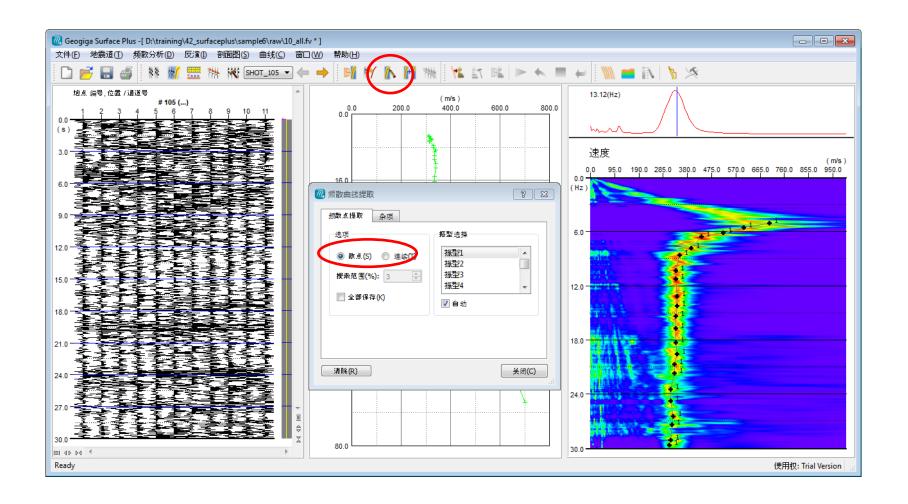


### 频散计算-合并主动源记录频散谱



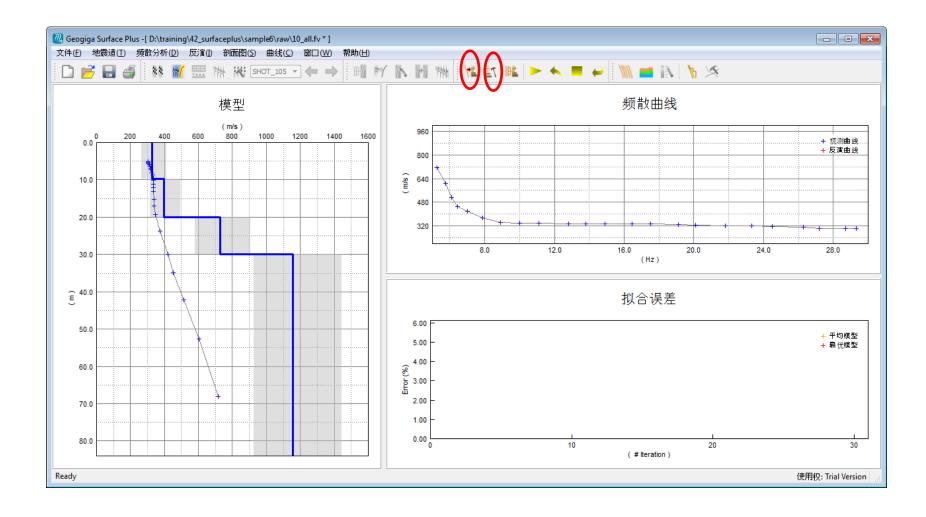


#### 频散提取



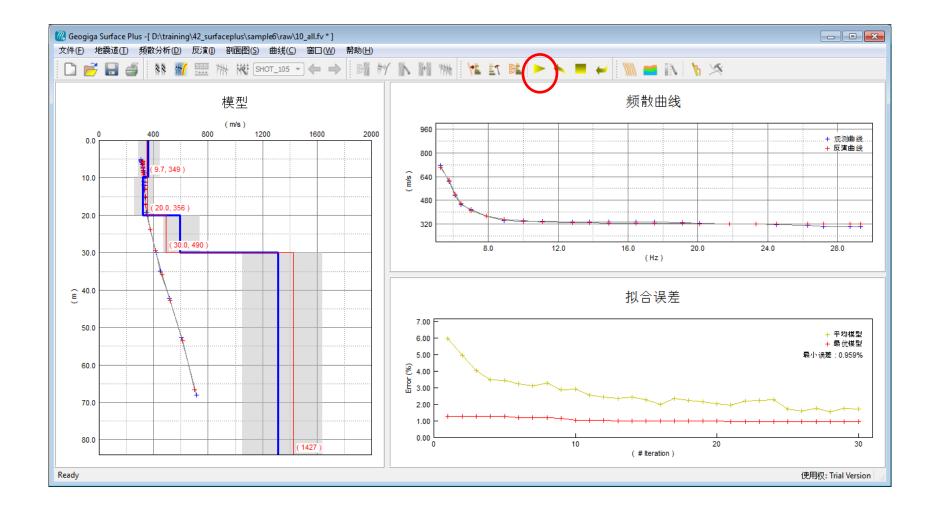


### 反演-定义初始模型

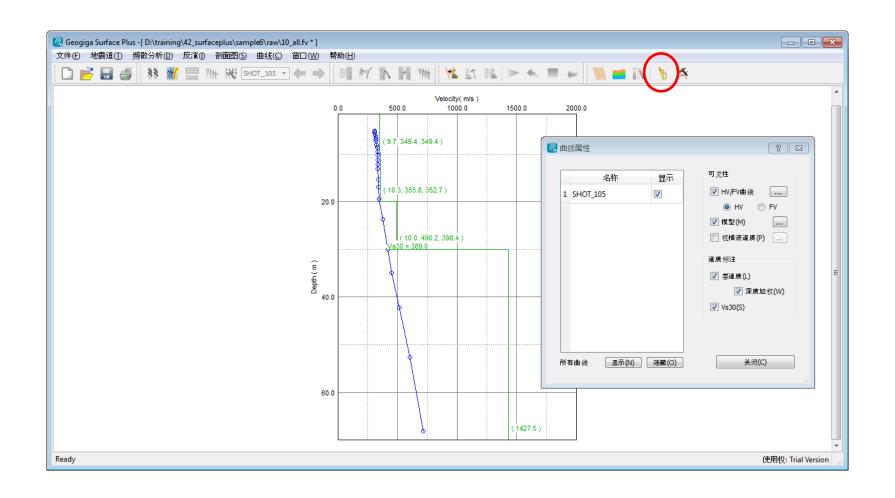




# 反演-结果

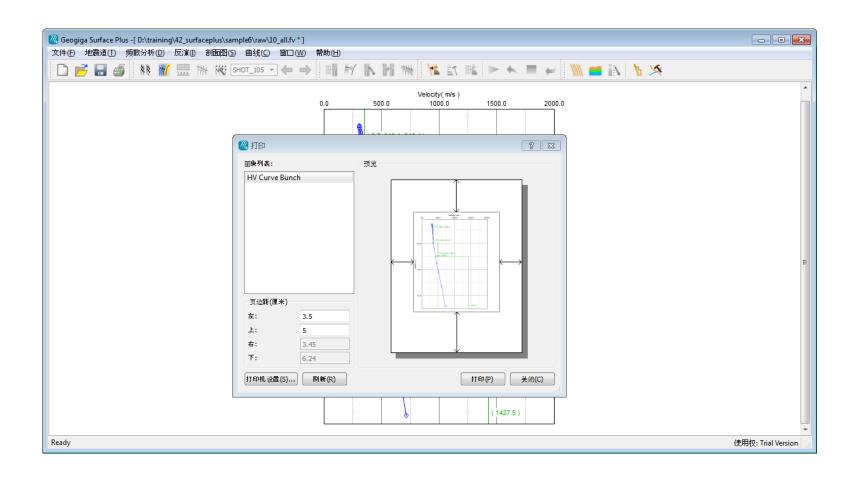


# 成果图输出-设置曲线属性

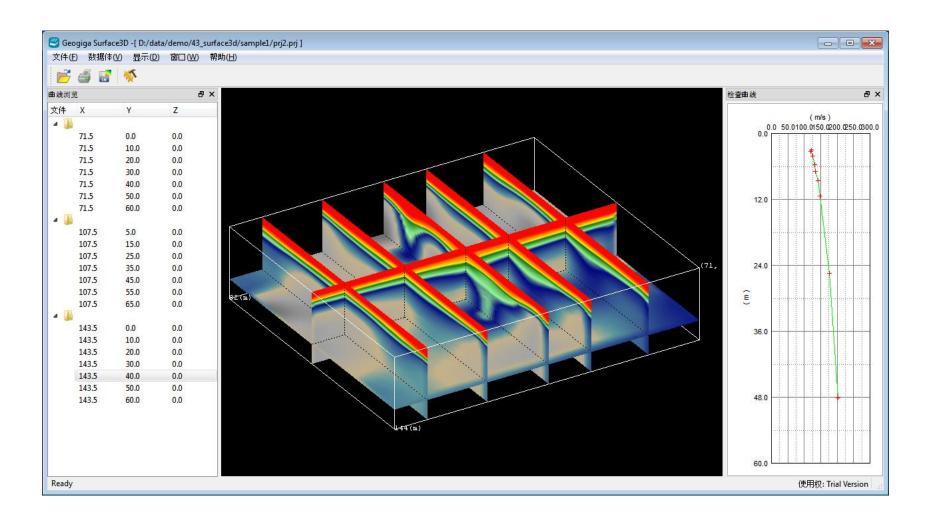




#### 成果图输出-打印



### 成果图输出-三维图示



#### 练习(1)

#### 数据目录: training/42\_surfaceplus

Sample1: \L'形排列

Sample2: 两组嵌套三角形排列

Sample3:人工源+天然源(同一记录)

Sample4: 天然源+人工源(人员走动产生)

Sample5: 单个三角形排列("之"形拐点)

Sample6: 天然源+人工源(单独记录)

Surace\_benchmarking:天然源+人工源(线性长排列)



#### 练习(2)

数据目录: training/43\_surface3d

Sample: 三维面波成果图示