# Activity 10.4: TX/RX Full Sensor Data

Team #3344

## Task 1: Transmit LunaSat Set-Up

- ☑ ~~Connect the Transmit LunaSat to the FTDI and laptop~~
- ☑ ~~Select the correct board, processor, and port~~
- ☑ ~~Open up the "**TX_RX_FullSensorData"** sketch~~
- ☑ ~~Change the Team ID~~
- ☑ ~~Compile and upload the code~~

## Task 2: Verify Transmission

- ☑ ~~Open the serial monitor~~
- ☑ ~~Verify that data is being transmitted~~
- ☑ ~~Verify that your Team ID is the first number~~

```
The radio is ready for use!
11_11,701,22.180,-0.0806,0.0579,1.1897,21.03,-75.10,36.30,20.85,21.85,682
Transmitting Data
Tranmission success!
```

```
The radio is ready for use!
44,706,27.453,-0.0601,0.0112,1.1775,11.42,-13.57,-1.43,24.48,25.85,697
Transmitting Data
Tranmission success!
Datarate: 258.47 bps
```

## Task 3: Receive LunaSat Set-Up

- ☑ ~~Connect the Receive LunaSat to the FTDI and laptop (without disconnecting the Transmit LunaSat or closing the "**TX_RX_FullSensor Data**" sketch)~~
- ☑ ~~Select the correct board, processor, and port~~
- ☑ ~~Open up the "**RF_Receive**" sketch~~
- ☑ ~~Change the Team ID if not correct~~
- ☑ ~~Compile and upload the code~~

## Task 4: Verify Data Received

- ☐ Open the serial monitor for the Receive LunaSat
- ☑ ~~Verify that data is being received~~
- ☑ ~~Verify that your Team ID is the first number~~

# Activity 10.4: TX/RX Full Sensor Data

Team #3344

```
Waiting for Data
Data received
Message: 11,16203,22.297,-0.0710,0.0537,1.2002,12.02,-78.10,26.62,20.97,21.85,682
Return Signal Strength Indicator: -115.00
```

```
17:24:28.343 -> Waiting for Data
17:24:30.723 -> Data received
17:24:30.723 -> Message: 71742,27.500,-0.0630,0.0066,1.1780,10.71,-14.28,-1.43,24.36,25.85,697
17:24:30.828 -> Return Signal Strength Indicator: -116.00
```