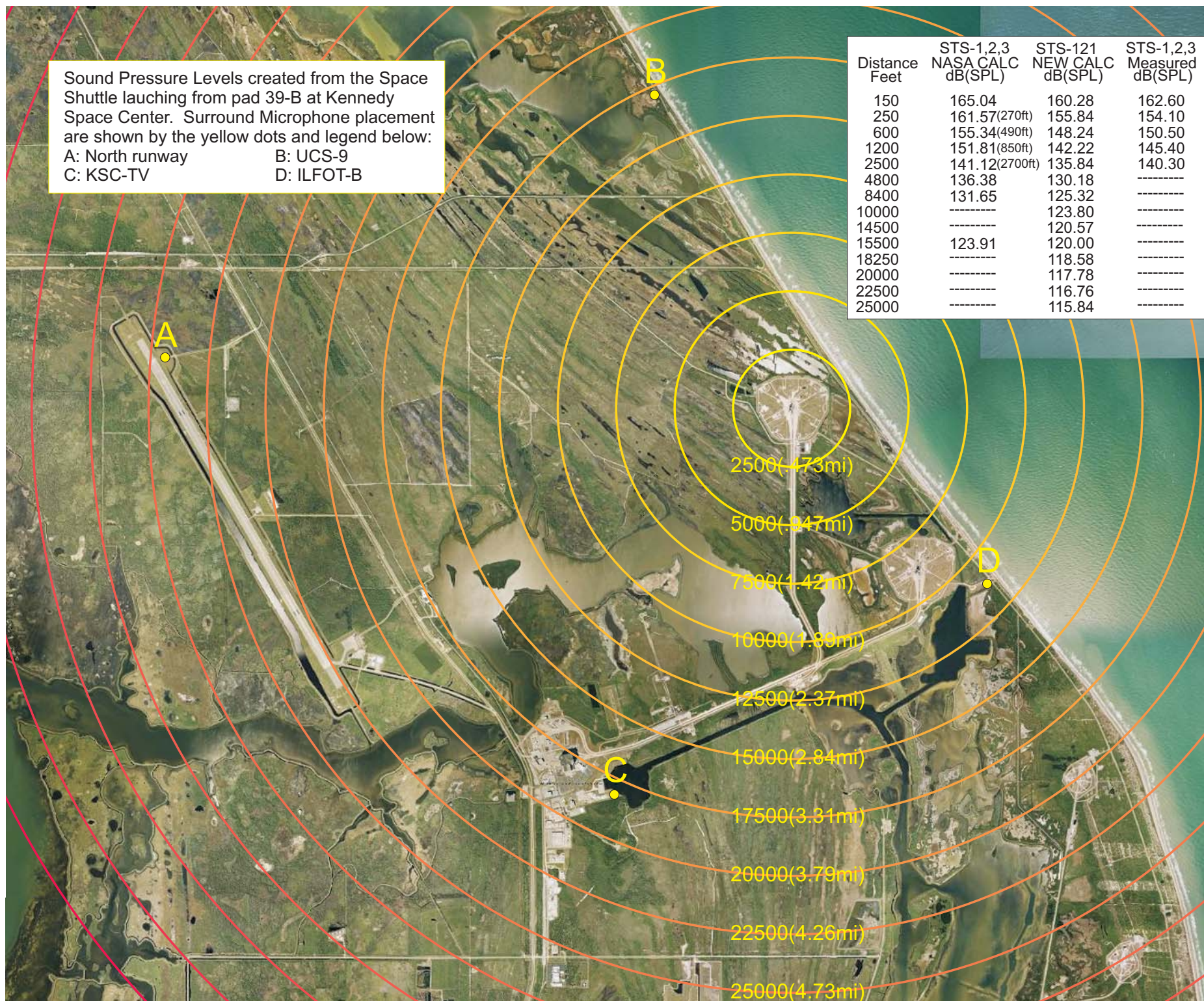


Sound Pressure Levels created from the Space Shuttle launching from pad 39-B at Kennedy Space Center. Surround Microphone placement are shown by the yellow dots and legend below:
A: North runway B: UCS-9
C: KSC-TV D: ILFOT-B

Distance Feet	STS-1,2,3 NASA CALC dB(SPL)	STS-121 NEW CALC dB(SPL)	STS-1,2,3 Measured dB(SPL)	STS-121 Measured dB(SPL)
150	165.04	160.28	162.60	-----
250	161.57(270ft)	155.84	154.10	-----
600	155.34(490ft)	148.24	150.50	-----
1200	151.81(850ft)	142.22	145.40	-----
2500	141.12(2700ft)	135.84	140.30	-----
4800	136.38	130.18	-----	-----
8400	131.65	125.32	-----	-----
10000	-----	123.80	-----	-----
14500	-----	120.57	-----	121.65
15500	123.91	120.00	-----	-----
18250	-----	118.58	-----	117.35
20000	-----	117.78	-----	-----
22500	-----	116.76	-----	-----
25000	-----	115.84	-----	-----



FAR FIELD
PREDICTED AVERAGE SOUND PRESSURE LEVELS
(50 PERCENT CONFIDENCE LEVELS)

Direction:
322° T from Pad Centerline

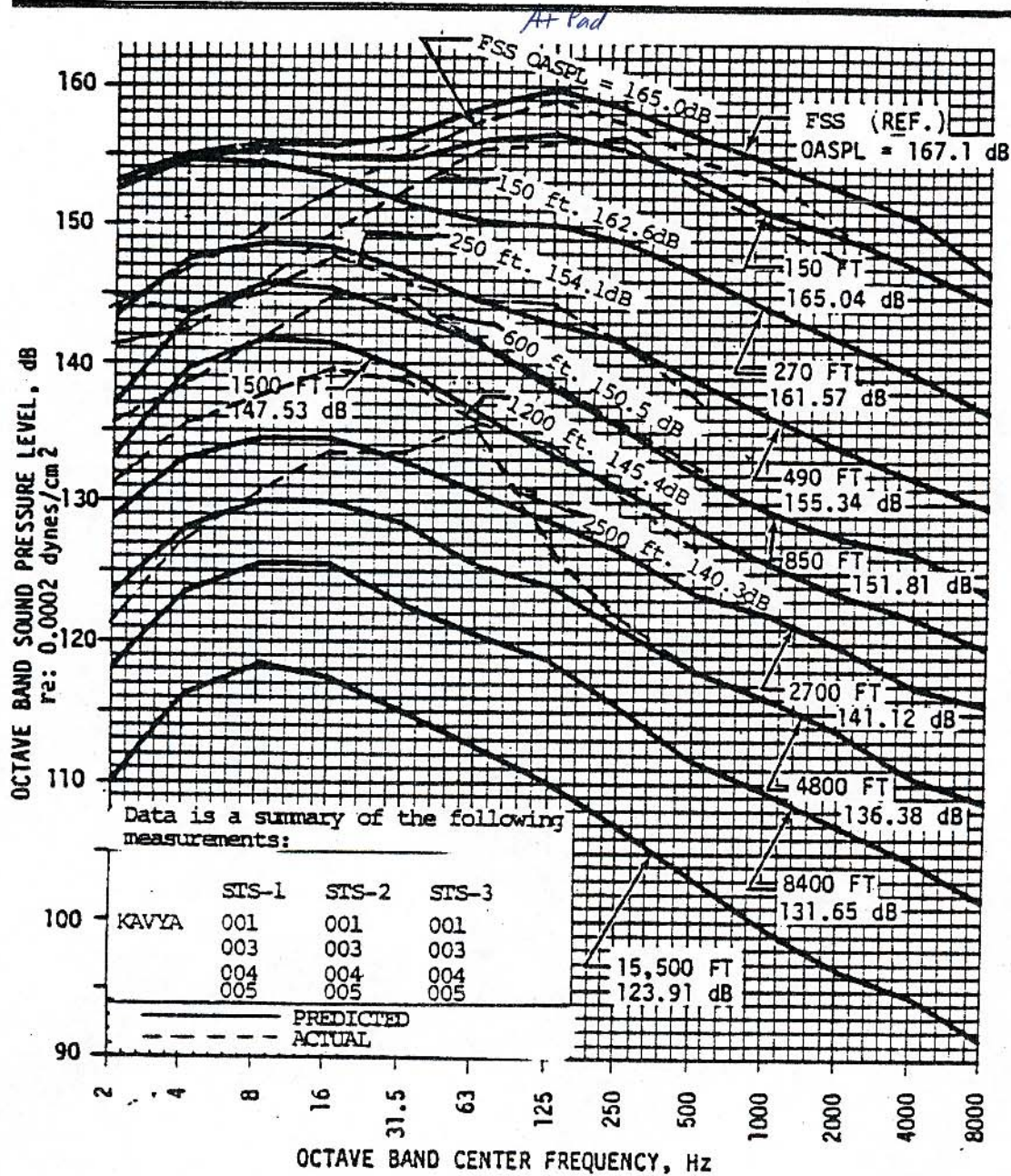


Figure 2-96. Predicted and Actual Sound Pressure Levels Data Summary*

2-104 Depending on roll
Dark Black = Predictions
Light = Actuals

