

DAFTAR PUSTAKA

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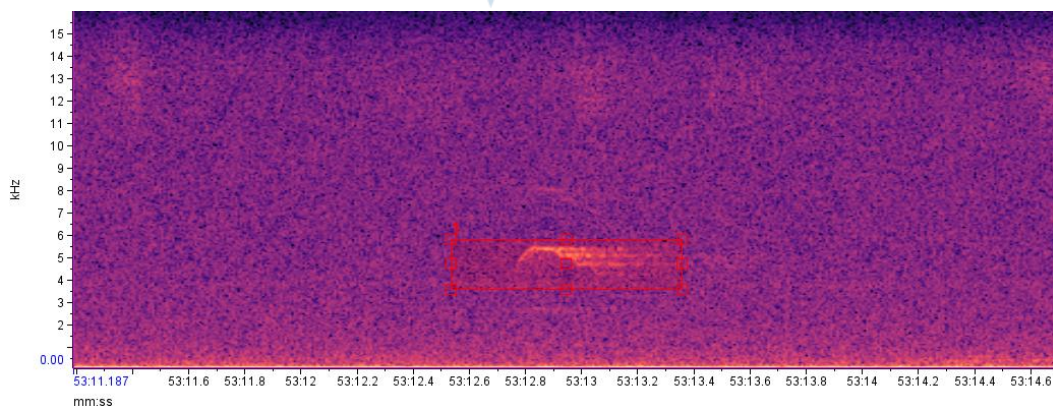
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LAMPIRAN

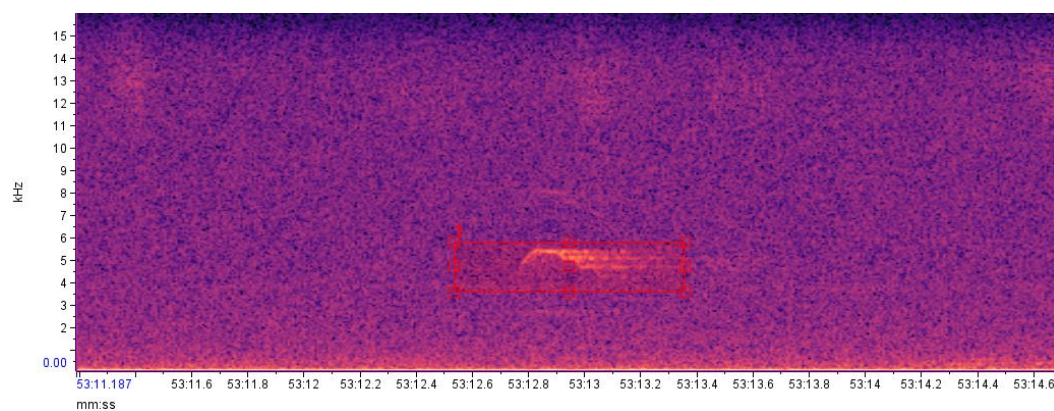
Lampiran 1. Koding R Model Regresi log(jarak)

```
> # data
> kalibrasi <- data.frame(
+   Jarak = c(1,1,1,2,2,2,5,5,5),
+   Energy = c(20.022, 18.639, 18.453, 14.801, 14.547, 14.757, 11.242, 10.671,
10.989)
+ )
>
> kalibrasi$logJarak <- log10(kalibrasi$Jarak)
>
> model <- lm(Energy ~ logJarak, data = kalibrasi)
>
> plot(kalibrasi$logJarak, kalibrasi$Energy,
+   main = "Regresi Log(Jarak) terhadap Energi",
+   xlab = "Log(Jarak) [log10(m)]",
+   ylab = "Energi (dB FS)",
+   pch = 16, col = "blue", cex = 1.2)
> abline(model, col = "red", lwd = 2)
> legend("topright", legend = c("Data", "Regresi"), col = c("blue", "red"), pch =
c(16, NA), lty = c(NA, 1))
>
> # Persamaan dan R2
> a <- round(coef(model)[2], 3)
> b <- round(coef(model)[1], 3)
> r2 <- round(summary(model)$r.squared, 3)
>
> text(0.1, 19, paste0("E = ", a, " * log(Jarak) + ", b), cex = 0.9)
> text(0.1, 18.2, paste0("R2 = ", r2), cex = 0.9)
```

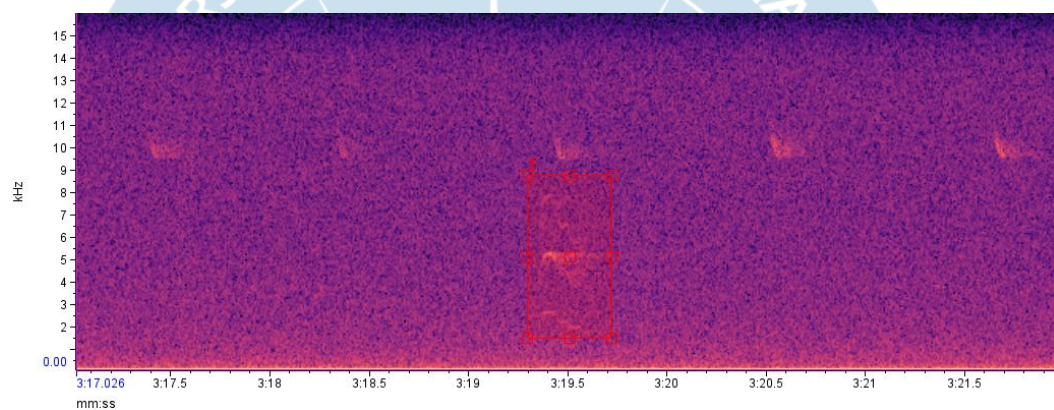
Lampiran 2. Spektrogram OA 2



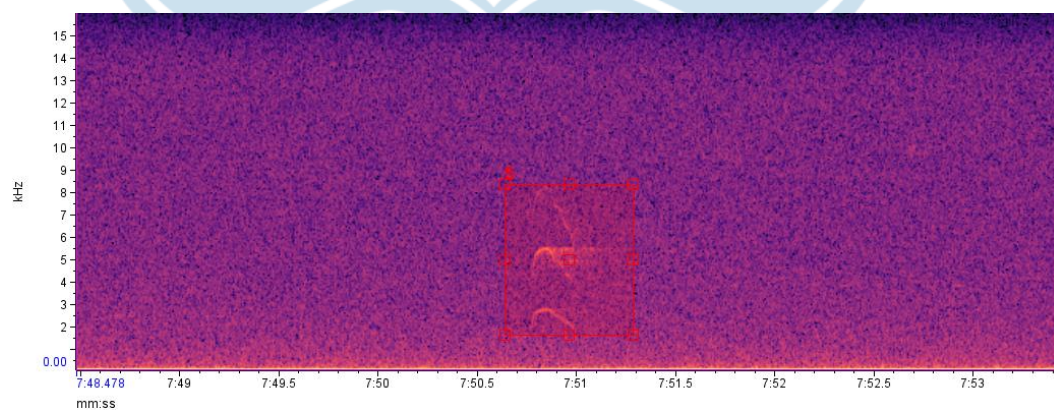
Lampiran 3. Spektogram OA 3



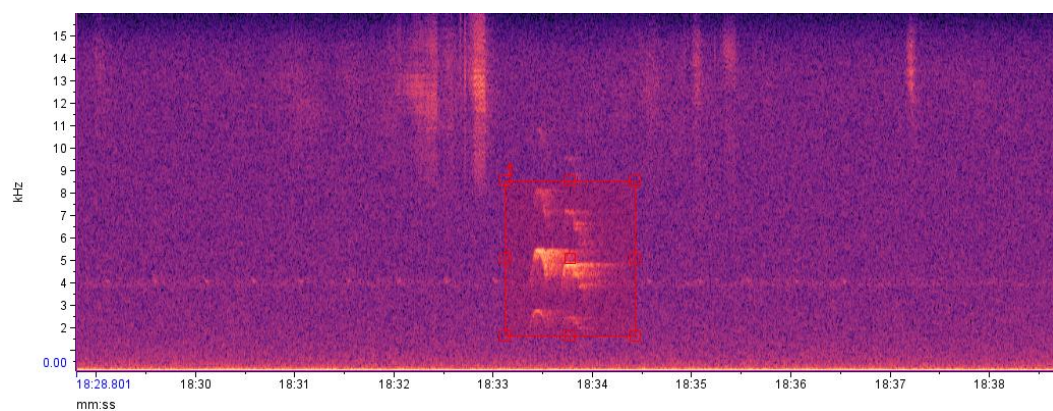
Lampiran 4. Spektogram OA 4



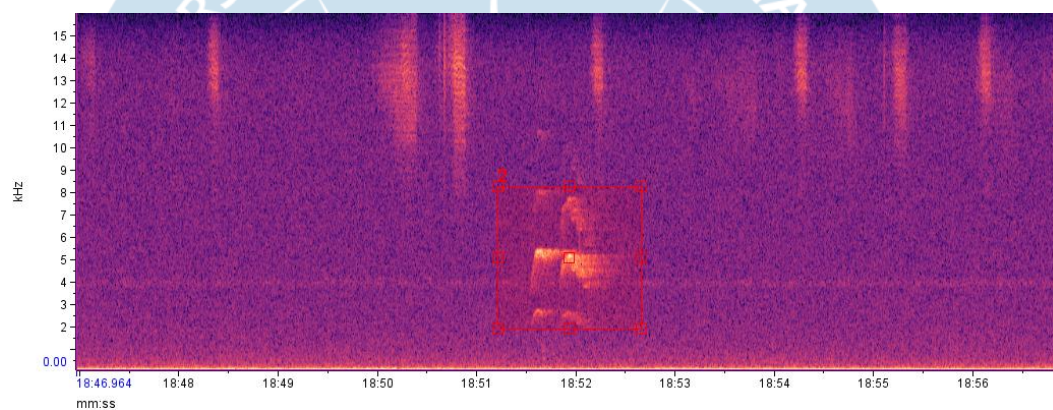
Lampiran 5. Spektogram OA 5



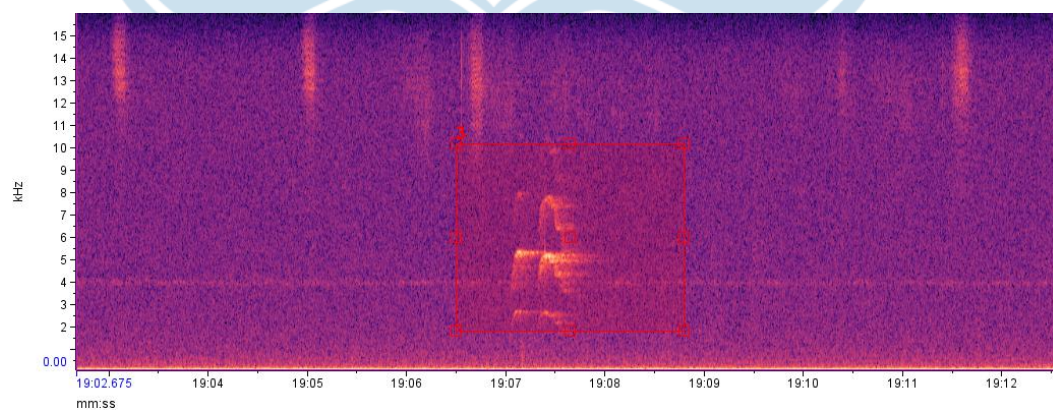
Lampiran 6. Spektogram OA 6



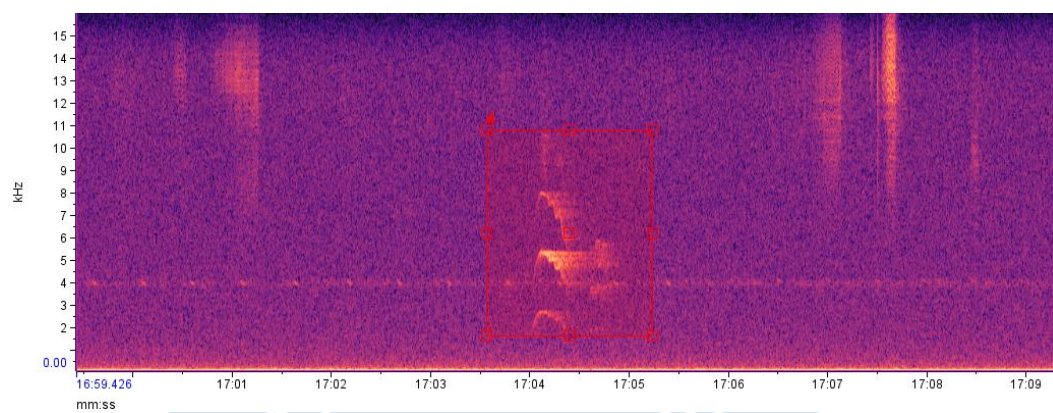
Lampiran 7. Spektogram OA 7



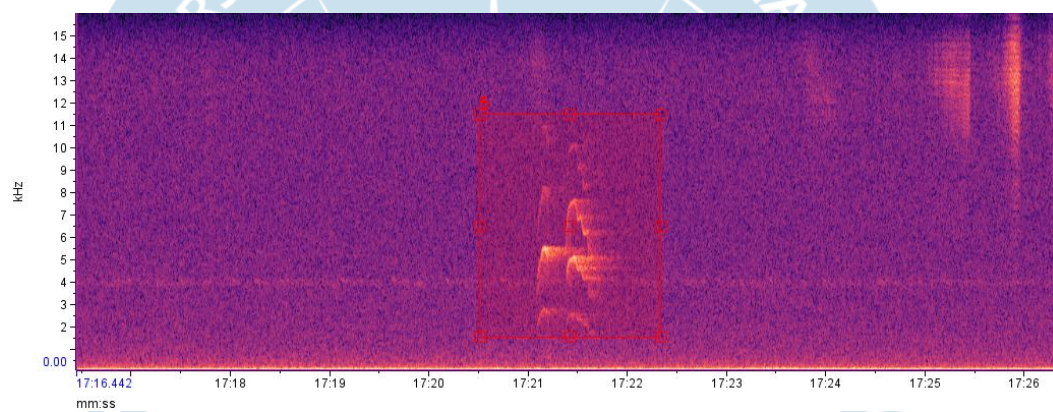
Lampiran 8. Spektogram OA 8



Lampiran 9. Spektogram OA 9



Lampiran 10. Spektogram OA 10



Tabel data

Lokasi	Nama Sampel	Tanggal	Switch	Jarak (m)	Repetisi	Elevasi	Jam	Low Freq (Hz)	High Freq (Hz)	Freq 5% (Hz)	Freq 95% (Hz)	Peak Power (dB/Hz)	Peak Freq (Hz)	Energy (dB FS)	Adu rasi (s)	bandwidth	Bandwidth Efektif	Center Frequency	Estimasi Jarak (m)	Radius
Lab Lingkungan	1m_1	09/04/2024	-	1	1	-	-	1965,341	16110,453	4651,172	7493,555	-19,6	5340,234	20,022	-	14145,112	2842,4	6072,4	0,77	2,01
Lab Lingkungan	1m_2	09/04/2024	-	1	2	-	-	1544,904	13833,917	4823,438	7493,555	-19,31	5340,234	18,639	-	12289,013	2670,1	6158,5	1,02	3,50
Lab Lingkungan	1m_3	09/04/2024	-	1	3	-	-	1658,588	15151,673	4797,794	7045,233	-20,94	5375,505	18,453	-	13493,085	2247,4	5921,5	1,05	3,78
Lab Lingkungan	2m_1	09/04/2024	-	2	1	-	-	1929,418	11339,29	4737,305	5512,5	-24,82	5340,234	14,801	-	9409,872	775,2	5124,9	2,20	16,44
Lab Lingkungan	2m_2	09/04/2024	-	2	2	-	-	1689,315	16092,944	4823,438	5512,5	-25,45	5340,234	14,547	-	14403,629	689,1	5168,0	2,31	18,21
Lab Lingkungan	2m_3	09/04/2024	-	2	3	-	-	1645,91	11620,085	4657,015	5613,864	-24,83	5317,703	14,757	-	9974,175	956,8	5135,4	2,22	16,73
Lab Lingkungan	5m_1	09/04/2024	-	5	1	-	-	1824,658	10941,485	4823,438	5426,367	-23,71	5340,234	11,242	-	9116,827	602,9	5124,9	4,50	68,93
Lab Lingkungan	5m_2	09/04/2024	-	5	2	-	-	2012,167	16516,54	4737,305	5426,367	-29,73	5340,234	10,671	-	14504,373	689,1	5081,8	5,05	86,76
Lab Lingkungan	5m_3	09/04/2024	-	5	3	-	-	1816,635	10501,095	4851,622	5222,083	-27,739	5387,941	10,989	-	8684,460	370,5	5036,9	4,74	76,33
Selo	OA 1	10/12/2022	1	?	-	2140	04:00	1542,601	13488,789	4500	8000	-34,49	5312,5	5,96	12,593	11946,188	3500,0	6250,0	13,05	578,61
Selo	OA 2	10/12/2022	2	?	-	1945	03:00	923,077	8512,821	1125	7750	-53,37	5125	-10,853	2,044	7589,744	6625,0	4437,5	385,45	505133,89
Selo	OA 3	10/12/2022	2	?	-	1945	03:00	1435,897	8717,949	1687,5	7812,5	-52,5	5187,5	-13,265	2,513	7282,052	6125,0	4750,0	626,50	1334524,26

Selo	OA 4	10/1 4/20 22	2	?	-	19 45	19:00	3542,3 48	5777,1 17	4312, 5	5375	-47,94	5062,5	-8,442	3,91 8	2234,76 9	1062,5	4843,8	237,19	191276, 43	
Selo	OA 5	10/1 4/20 22	2	?	-	19 45	19:00	4136,7 01	5705,7 95	4625	5437,5	-48,58	5437,5	-7,988	4,42 9	1569,09 4	812,5	5031,3	216,46	159310, 85	
Selo	OA 6	10/1 6/20 22	2	?	-	19 45	20:00	1569,0 94	8487,3 7	4312, 5	5437,5	-35,81	5375	3,492	4,04 4	6918,27 6	1125,0	4875,0	21,44	1563,52	
Selo	OA 7	10/1 6/20 22	2	?	-	19 45	20:00	1830,6 09	8249,6 29	4437, 5	5375	-29,36	5125	5,503	4,68 5	6419,02 0	937,5	4906,3	14,30	695,55	
Selo	OA 8	10/1 6/20 22	2	?	-	19 45	20:00	1735,5 13	10151, 56	4375	5500	-30,76	5125	4,59	5,53 6	8416,04 7	1125,0	4937,5	17,19	1004,69	
Selo	OA 9	10/1 6/20 22	2	?	-	19 45	20:00	1569,0 94	10769, 688	4250	6625	-35	5187,5	2,541	4,94 0	9200,59 4	2375,0	5437,5	25,97	2293,28	
Selo	OA 10	10/1 6/20 22	2	?	-	19 45	20:00	1473,9 97	11459, 138	4250	6937,5	-34,99	5437,5	3,042	4,85 5	9985,14 1	2687,5	5593,8	23,48	1874,21	
															Rata rata	4,95 6				Total Vokalisa si	10