

**Leopard Seal (*Hydrurga leptonyx*)  
Immature Male Play Behaviour  
Supplemental Appendix**

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## Supplemental Appendix

Details of the Supplemental Video accompanying the verbal descriptions of behaviour described in this paper

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Video file	Date and time	Textual description of video
20190376_ VIDEO_A_09082019	9 Aug 2019, 1743 h Duration: 03:24 min	<p>Shows interactions between individuals 2019002 and 2019010 such as following behaviour, twisting, and close contact swimming.</p> <p>2019010 is on the left following 2019002 on the right; both are swimming while making body contact which is seen at 00:08. At 00:40, 2019002 is seen twisting at the surface letting 20190010 rest its face on its ventrum. At 00:56, 2019010 is seen reaching its fore flippers around 2019002, but a clear hold is not seen. At 01:28, 2019002 is seen twisting at the surface again letting 2019010 make contact with its ventrum. A clear hold by 20190010 with its fore flippers on 2019002 is seen at 02:32. At 03:04, 2019002 is seen with its mouth open at the surface while 2019002 is attempting a hold.</p>
20190376_ VIDEO_B_09082019	9 Aug 2019, 1850 h Duration: 01:01 min	<p>Shows interactions between individuals 2019002 and 2019010 such as following and holding behaviour.</p> <p>At 00:13, 2019002 is seen half breaching out of the water followed by 2019010. At 00:20, you can see 2019010 holding 2019002 with his fore flippers.</p>
20190377_ VIDEO_A_09082019	9 Aug 2019, 1755 h Duration: 02:18 min	<p>Shows interactions between individuals 2019002 and 2019010 such as following and holding behaviour.</p> <p>At 00:12, 2019010 is shown holding 2019002 with its fore flippers. At 00:19, 2019002's head is up out of the water before diving quickly followed by 2019010. At 01:01, 2019002 is shown very slowly twisting in the water, with 2019010 still swimming in close contact. At 01:21, 2019002 is seen briefly lying at the surface with his ventral facing upwards still with 2019010 swimming in close contact.</p>
20190377_ VIDEO_B_09082019	9 Aug 2019, 1853 h Duration: 01:43 min	<p>Shows interactions between individuals 2019002 and 2019010 such as following and holding behaviour.</p> <p>Both individuals are seen resting close (within 1 m) to each other at the surface at 00:17. Both dive at 00:50. At 1:03, 2019010 is seen resting his head on 2019002's back while both twist in the water. At 01:19, 2019002 is seen with its head out of the water facing back. At 01:29, bubbles can be seen on the right of 2019010 who is visible at the surface. At 01:37, you can see 2019010 holding 2019002 with his fore flippers.</p>
20190400_ VIDEO_120820219	12 Aug 2019, 1715 h Duration: 02:09 min	<p>Shows interactions between individuals 2019002 and 2019010 such as close contact swimming, twisting, holding behaviour, and light biting.</p> <p>At 00:15, 2019010 is seen holding 2019002 while both are twisting in the water. At 01:08, 2019002 is seen half breaching out of the water, twisting back towards 2019010. At 01:18, 2019002 is holding 2019010 with his fore flippers. At 01:23, 2019010 is back to holding 2019002 with his fore flippers. At 01:41, 2019010 is seen lightly biting the back of 2019002.</p>

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