

MTReD: 3D Reconstruction Dataset for Fly-over Videos of Maritime Domain

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These supplementary materials outline the details of the MTReD dataset. The video names and Youtube links of each video are provided in the first two columns. Following this, the selected segments from each video are detailed as a set of ranges. For example [30, 190] would mean that we only extract images starting from the 30 second mark, up until the 190th second. Lastly, the frame skip frequency details how many frames are skipped before an image is saved, within each segment.

Video name	Youtube link	Selected segments (Seconds)	Frame Skip Frequency
Vladi Strecker - Sailor's Dream	https://www.youtube.com/watch?v=QUrBPEa0R3Iz	[30, 190]	2
Small Cargo Ship	https://www.youtube.com/watch?v=jhWQ8Ie2fE8	[1, 14], [17, 50], [54, 95], [98, 105], [110, 115], [119, 137]	2
Breathtaking Aerial Views of Cargo Ship Near Tacoma, WA	https://www.youtube.com/watch?v=JidbbnJXOB8	[0, 127]	2
Aerial view of Grounded Ship at theThousand Island Bridge	https://www.youtube.com/watch?v=oAKvdI34aNg	[0, 146]	2
Drone footage of cargo ship at anchor	https://www.youtube.com/watch?v=mQxYhry0ADE	[0, 177]	4
A Bird's Eye View of the Beijing Spirit	https://www.youtube.com/watch?v=CZ-m3DknAeI	[0, 2], [4, 6], [14, 25], [34, 42], [44, 54], [55, 58], [67, 90], [95, 103], [170, 204]	1
5 Cruise Ships docked in Nassau - 4K DRONE FOOTAGE	https://www.youtube.com/watch?v=3iqEq10G-Z8	[2, 5], [8, 24], [27, 38], [40, 61], [64, 70], [73, 90], [95, 109], [112, 123], [127, 150], [155, 160], [163, 190], [193, 230], [232, 244], [248, 264], [270, 276]	2
DJI MAVIC AIR - Small Island Drone Tour 4K - Izmir	https://www.youtube.com/watch?v=qMLdxcoRKp0	[0, 57]	1
Little Samphire Island Flyover, Fenit , County Kerry, Ireland - DJI Phantom 4	https://www.youtube.com/watch?v=JLVYI8FwmlQ	[0, 2], [8, 123]	1
Guamus - Cocos Island — Secret of South Pacific Place — Most Beautiful Ocean Scenery — 4K Drone	https://www.youtube.com/watch?v=NQbZTVFQda0	[30, 120], [184, 484]	4
Birds eye view of Hummocky Island	https://www.youtube.com/watch?v=giU0gnNLPpY	[0, 294]	2
A Birds Eye View of Ram Island	https://www.youtube.com/watch?v=DsPAXaS8kIE	[24, 180]	1
Little Island (Pier 55) NYC Drone	https://www.youtube.com/watch?v=RbWChxZmTFU	[2, 230]	2
FLY OVER BONDI BEACH - DJI MAVIC PRO	https://www.youtube.com/watch?v=WzdkbzMDEMY	[10, 170]	2
6 July 24 San Pedro Drone. Lighthouse?	https://www.youtube.com/watch?v=fe68mC2-euQ	[0, 327]	2
South Africa coast, beach ocean view, coastal flyover footage, mountains, high quality (4K Ultra-HD)	https://www.youtube.com/watch?v=o42mcNjSyZc	[0, 12], [15, 23], [26, 36], [38, 67], [69, 88], [91, 101], [104, 118], [122, 138], [141, 200]	2
Hokkaido Coastline flyover sample	https://www.youtube.com/watch?v=5GILVrRnJrw	[2, 57], [61, 85], [88, 194]	2
Drone footage of the Perth coastline	https://www.youtube.com/watch?v=HMy52R2yLOA	[2, 7], [9, 12], [15, 18], [21, 25], [28, 35], [38, 44], [48, 55], [58, 62], [65, 73], [75, 82], [84, 92], [94, 112]	1
The Jurassic Coast - Drone Footage	https://www.youtube.com/watch?v=iTuZCiOLLtk	[13, 250]	2

Table 1. Content ranges for each data point in the proposed MTReD along with reduction ratios to keep within memory constraints.