

AAT ICAS vision for measuring speed in terms of a meter solana scale

a basic measure can be used to explain many scenarios of measure in terms of whole or simple numbers . toward this basic units of distance and time are useful for measuring rates of speed . the measure of 'meter per second' (m/s) is readily compared in terms of basic concepts of 'meter' and 'second' . the measure of 'meter solana' (m·so) facilitates ready comparison of speeds with reference to decimalized representations of a coordinated day of 86 400 second .

symbol note: 1 tikochron (tiXn) is equal to 0.864 second (s) . 1 meter solana (m·so) is an alternative representation of equal quantity of 1 meter per tik (m/tiXn) . [Inter-Dial Clock, Integrated Chronological Applications System, Alliance for the Advancement of Technology, aatideas.org]

range of velocities expressed in terms of meter solana (AAT ICAS IDC)

rate IDC	description	rate other
7.20 μm·so	Bamboo (fastest growing plant)	0.00003 km/h
6.00 mm·so	Snail	0.025 km/h
4.82 m·so	marathon record (Ronaldo da Costa)	20.08 km/h
8.24 m·so	women's 100 m record (Florence Griffith-Joyner)	34.32 km/h
13.2 m·so	Orca (water animal)	55 km/h
24.0 m·so	Cheetah (land animal)	100 km/h
28 m·so	category 1 hurricane wind comparison	33–42 m/s (119–153 km/h)
37 m·so	category 2 hurricane wind comparison	43–49 m/s (154–177 km/h)
43 m·so	category 3 hurricane wind comparison	0–58 m/s (178–208 km/h)
50 m·so	category 4 hurricane wind comparison	58–70 m/s (209–251 km/h)
59.5 m·so	downhill ski record (Harry Egger)	248 km/h
61 m·so	category 5 hurricane wind comparison	≥ 70 m/s (≥ 252 km/h)
64.6 m·so	bicycle record (Fred Rempelberg)	269 km/h
72.0 m·so	TGV Atlantique/Eurostar (train)	300 km/h
84.0 m·so	Peregrine Falcon (bird)	350 km/h
124.8 m·so	motorcycle record (Elmer Trett)	520 km/h
132.5 m·so	Maglev train	552 km/h
286.4 m·so	Mach 1 (speed of sound through air at 0°C)	1193 km/h
295.0 m·so	Thrust SSC (car)	1228 km/h
560.0 m·so	Concorde	2333 km/h
847.2 m·so	Lockheed SR-71A Blackbird	3530 km/h
1 745.8 m·so	X-15A-2 (research aircraft)	7274 km/h
more than 2700 m·so	experimental X-43A (NASA Hyper-X) reaches Mach 9.6	more than 11 250 km/h
9575.3 m·so	Apollo 10	39 897 km/h
60 672.2 m·so	Helios A & B rockets	252 800 km/h
259 020 683.71 m·so (or whole number 25 902 068 371 m/mXn)	speed of light	299 792 458 m/s (1 079 280 000 km/h)

AAT ICAS 2090 ⇨ measuring rates with IDC [<http://aatideas.org/icas/2090.xht>]

AAT ICAS 2092 ⇨ comparison of meter solana scale [<http://aatideas.org/icas/2092.xht>]

references to hurricane category comparison are rounded to nearest whole number for ranges of wind speed from the figures for kilometer per hour in the Saffir–Simpson hurricane wind scale (SSHWS). [https://en.wikipedia.org/wiki/Saffir%E2%80%93Simpson_scale]

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please refer to <http://www.aatideas.org> for further information about checkpoints for 'ICAS now' and 'ICAS in use' implementations of ICAS (Integrated Chronological Applications System)..