

Freight -FFA							30-Nov-22				
Dry FFA Spot \$/Day	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest/day	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range \$/Day	Trading Exchange
Cape5TC	17,010	2,505	43,030	16,690	283.9	801,110	158,314	13,626	116.0%	770.2	EEX, SGX
Panamax4TC	20,002	9,620	29,410	17,816	356.4	855,169	171,589	17,105	37.4%	290.3	EEX, SGX
Supramax10TC	22,993	12,736	33,366	8,268	190.1	396,849	82,353	9,125	25.4%	91.0	EEX, SGX
Options	/	/	/	7,619	159.3	365,703	200,135	7,644	/	/	EEX, SGX
Wet FFA Spot \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume/mt	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest/mt	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range \$/mt	Trading Exchange
TD3C	10.92	5.81	23.68	6,140,292	67.0	294,734,000	69,696,000	3,217.7	61.2%	0.830	ICE, CME
TD20	16.11	7.40	31.83	2,167,583	34.9	104,044,000	31,489,000	1,676.3	45.7%	0.701	ICE, CME
TC2_37	31.08	14.74	49.48	1,202,875	37.4	57,738,000	10,424,000	1,794.5	49.4%	0.781	ICE, CME
TC5	44.78	19.54	77.60	1,807,167	80.9	86,744,000	18,950,000	3,884.2	62.8%	1.543	ICE, CME
TC6	18.57	9.11	33.36	515,896	9.6	24,763,000	5,946,000	459.8	79.2%	0.606	ICE, CME
TC14	35.29	14.43	79.67	852,833	30.1	40,936,000	9,238,000	1,444.6	132.9%	2.994	ICE, CME
Iron Ore							30-Nov-22				
Iron Ore Spot \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
Iron Ore 62% Fe	120.23	79.50	162.75	47,853,304	5,753.5	2,296,958,600	95,425,000	276,169	50.2%	0.599	CME, SGX
Iron Ore 65% Fe	139.72	90.80	191.70	801,721	112.0	38,482,600	2,497,900	5,377	49.2%	0.616	CME, SGX
Options IO 62% Fe	/	/	/	10,363,277	1,246.0	497,437,300	74,932,500	59,808	/	/	CME, SGX
Energy							30-Nov-22				
Coking Coal Spot \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
Coking Coal Australia	370.22	188.00	670.50	101,319	37.5	4,863,300	1,384,800	1,801	28.2%	1.798	SGX
Fuel Oil Spot \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
Singapore 380cst Fuel Oil	497.57	342.39	715.96	9,775,646	4,864.1	469,231,000	19,083,000	233,475	31.5%	2.920	ICE, CME, SGX
3.5% FOB Rotterdam Barges	483.73	336.00	694.00	5,623,875	2,720.4	269,946,000	12,535,000	130,581	50.7%	9.765	ICE, CME
Marine Fuel 0.5% Singapore	754.68	555.48	1057.61	7,861,896	5,933.2	377,371,000	12,018,000	284,793	20.3%	3.960	ICE, CME, SGX
Emissions Active Contracts /mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million €/€	YTD Market Volume	Open Interest	YTD Notional Value Million €	30 Day Volatility	14 Day True Range	Trading Exchange
EUA Futures €/mt	80.40	57.93	97.67	154,842,167	12,449.5	7,432,424,000	837,272,000	597,574	46.2%	3.044	ICE, EEX
EUA Options €/mt	/	/	/	41,209,896	3,313.3	1,978,075,000	390,364,000	159,039	/	/	ICE, EEX
GEO Futures \$/mt	5.28	2.90	9.00	837,125	4.4	40,182,000	12,500,000	212	36.7%	0.054	CME
N-GEO Futures \$/mt	10.37	5.14	16.14	2,690,854	27.9	129,161,000	15,196,000	1,339	28.1%	0.071	CME
Natural Gas Active Contracts	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
LNG Japan/Korea Marker \$/MMBtu	34.57	20.03	69.96	112,177,292	3,878.5	5,384,510,000	730,470,000	186,167	66.8%	1.074	ICE, CME
LPG Propane Far East \$/mt	755.46	606.04	1001.03	3,603,792	2,722.5	172,982,000	14,004,000	130,682	36.4%	3.666	ICE, CME
LPG Propane Saudi CP \$/mt	724.23	549.84	968.48	1,236,354	895.4	59,345,000	4,895,000	42,980	29.0%	9.639	ICE, CME
Ferrous Metals							30-Nov-22				
Active Contract \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
CME CRU HRC \$/short ton	1089	655	1647	100,423	109.4	4,820,320	438,300	5,251.1	31.1%	6.932	CME
CME European HRC	923	630	1400	16,987	15.7	815,360	127,340	752.6	24.3%	3.436	CME
US Busheling Scrap	548	350	900	12,747	7.0	611,840	164,560	335.1	25.8%	2.255	CME
LME Steel Scrap	455	340	700	81,558	37.1	3,914,800	115,720	1,780.5	15.6%	2.504	LME
LME Steel Rebar	735	625	950	19,036	14.0	913,730	21,510	671.9	20.9%	3.173	LME
LME China HRC	698	514	898	9,374	6.5	449,950	25,450	314.0	19.3%	3.863	LME
Base Metals							30-Nov-22				
Active Contract \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
CME Aluminium Premium US \$/pound	0.3049	0.1972	0.4001	40,232	27.1	1,931,125	750,625	1,298.5	8.3%	0.0002	CME
CME Aluminium Premium EU EDP	469.20	252.78	615.00	29,184	13.7	1,400,850	495,125	657.3	39.0%	1.356	CME
CME Aluminium Premium EU AEP	383.88	198.86	505.00	11,026	4.2	529,225	184,675	203.2	24.4%	1.264	CME
LME Aluminium High Grade	2,732	2,107	3,876	26,919,386	73,548	1,292,130,525	10,495,725	3,530,310	36.7%	58.7	LME
LME Copper	8,928	7,162	10,701	14,916,215	133,170	715,978,325	3,824,700	6,392,164	34.2%	157.7	LME
LME Lead	2,160	1,742	2,471	5,107,385	11,032	245,154,475	328,980	529,558	32.6%	36.2	LME
LME Nickel	25,474	19,155	48,211	1,474,128	37,552	70,758,120	662,364	1,802,488	67.0%	1,020.8	LME
LME Tin	32,570	17,673	48,855	97,040	3,161	4,657,925	33,955	151,711	49.2%	517.8	LME
LME Zinc	3,504	2,726	4,523	10,831,868	37,956	519,929,675	3,498,675	1,821,908	40.2%	64.0	LME
EV Metals							30-Nov-22				
Active Contract \$/tonne	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
Cobalt standard grade in-whs Rotterdam	70,529	50,155	88,471	297	20.9	14,238	10,766	1,004.2	31.8%	473.332	CME, LME
Fertilizer							30-Nov-22				
Spot \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
Urea (gran) CFR Brazil	695	540	995	3,958	2.8	190,000	2,500	132.0	7.1%	5.965	CME
Urea (gran) FOB Middle East	703	513	962	14,031	9.9	673,500	39,000	473.3	53.8%	12.290	CME
Urea (gran) FOB US Gulf	626	440	909	42,533	26.6	2,041,600	153,200	1,278.5	35.9%	7.857	CME

Data Source: Baltic, CME, SGX, LME, ICE Exchanges and Bloomberg data. Spot price implies to the settlement price and index of the future product, index publishers include Baltic Freight, Fastmarkets MB, Platts, TSI, Argus, CRU, Profercy Indices.

Please Note: LME volume and trades in some cases generated three reportable lots instead of one lot.

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