

# Crude Oil Marketwire

Volume 44 / Issue 130 / July 5, 2023

### Key benchmarks (\$/barrel)

PCAA page 2210				Mid	Change
Dubai (Oct)         PCAAU00         74.91-74.93         74.920         +0.230           Dubai (Nov)         PCAAV00         74.34-74.36         74.350         +0.220           MEC (Sep)         AAWSA00         75.42-75.44         75.430         +0.230           MEC (Oct)         AAWS800         74.91-74.93         74.920         +0.230           MEC (Nov)         AAWSC00         74.34-74.36         74.350         +0.220           Brent (Dated)         PCAAS00         76.85-76.86         76.855         +0.860           Brent (Dated)         PCAAS00         76.85-76.86         76.855         +0.860           Dated North Sea Light         AAOFD00         76.85-76.86         76.855         +0.860           Dated Brent (CIF)         PCAK000         76.85-76.86         76.855         +0.860           Dated Brent (CIF)         PCAK000         76.69-76.87         76.690         +0.610           Brent (Sep)         PCAAR00         76.45-76.47         76.600         +0.600           Brent (Nov)         PCARR00         76.45-76.47         76.600         +0.580           Sulfur de-escalator         AAUX100         1.6079         1.6079           Oseberg QP (Jul)         AAXDX00         1.2021	(PGA page 2210)				· ·
Dubai (Nov)         PCAAV00         74.34-74.36         74.350         +0.220           MEC (Sep)         AAWSA00         75.42-75.44         75.430         +0.235           MEC (Oct)         AAWSB00         74.91-74.93         74.920         +0.235           MEC (Nov)         AAWSC00         74.34-74.36         74.350         +0.220           Brent (Dubai (Sep)         AAJMS00         0.00/0.02         0.010         -0.105           (PGA page 1212)         Brent (Dated)         PCAAS00         76.85-76.86         76.855         +0.860           Dated North Sea Light         AAOFD00         76.85-76.86         76.855         +0.860           Dated Brent (CIF)         PCAK000         76.85-76.86         76.855         +0.860           Dated Brent (Sep)         PCAAR00         76.68-76.70         76.690         +0.610           Brent (Sep)         PCAAR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCAR800         76.45-76.47         76.600         +0.580           Sulfur de-escalator         AAUX00         0.20         0seberg QP (Jul)         AAXD00         1.6079           Oseberg QP (Jul)         AAXD00         1.6079         1.6079         1.6079 <t< td=""><td>Dubai (Sep)</td><td>PCAAT00</td><td>75.42-75.44</td><td>75.430</td><td>+0.235</td></t<>	Dubai (Sep)	PCAAT00	75.42-75.44	75.430	+0.235
MEC (Sep)         AAWSA00         75.42-75.44         75.430         +0.235           MEC (Oct)         AAWSB00         74.91-74.93         74.920         +0.230           MEC (Nov)         AAWSC00         74.34-74.36         74.920         +0.230           MEC (Nov)         AAWSC00         74.34-74.36         74.350         +0.220           Brent/Dubai (Sep)         AAJMS00         0.00/0.02         0.010         -0.105           (PGA page 1212)         PCAS00         76.85-76.86         76.855         +0.860           Dated Brent (CIF)         PCAK00         76.85-76.86         76.855         +0.860           Dated Brent (CIF)         PCAK00         76.85-76.86         76.855         +0.860           Brent (Sep)         PCAR00         76.65-76.70         76.690         +0.610           Brent (Nov)         PCAR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCAR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCAR00         76.160         +0.580           Sulfur de-escalator         AAUX 00         0.20           Oseberg QP (Jul)         AAXD00         1.6079           Oseberg QP (Aug)         AAXD00 <td>Dubai (Oct)</td> <td>PCAAU00</td> <td>74.91-74.93</td> <td>74.920</td> <td>+0.230</td>	Dubai (Oct)	PCAAU00	74.91-74.93	74.920	+0.230
MEC (Oct)         AAWS800         74.91-74.93         74.920         +0.230           MEC (Nov)         AAWSC00         74.34-74.36         74.350         +0.220           Brent/Dubai (Sep)         AAJMS00         0.00/0.02         0.010         -0.105           (PGA page 1212)         Brent (Dated)         PCAAS00         76.85-76.86         76.855         +0.860           Dated North Sea Light         AAOFD00         76.85-76.86         76.855         +0.860           Dated Brent (CIF)         PCAKM00         76.85-76.86         76.855         +0.860           Dated Brent (CIF)         PCAKM00         76.690         +0.610           Brent (Sep)         PCAAQ00         76.68-76.70         76.600         +0.610           Brent (Nov)         PCARR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCARR00         76.45-76.47         76.460         +0.580           Sulfur de-escalator         AAUXL00         0.20           Oseberg QP (Jul)         AAXDW00         1.6079           Oseberg QP (Aug)         AAXDW00         1.3083           Ekofisk QP (Jul)         AAXDW00         1.0796           Troll QP (Aug)         ATFN800         2.3165	Dubai (Nov)	PCAAV00	74.34-74.36	74.350	+0.220
MEC (Nov)         AAWSC00         74.34-74.36         74.350         +0.220           Brent (Dubai (Sep)         AAJM\$00         0.00/0.02         0.010         -0.105           (PGA page 1212)         Frent (Dated)         PCAA\$00         76.85-76.86         76.855         +0.860           Dated North Sea Light         AA0F000         76.85-76.86         76.855         +0.860           Dated Brent (CIF)         PCAKM00         77.945         +0.880           Brent (Sep)         PCAAR00         76.67-76.47         76.690         +0.610           Brent (Oct)         PCAAR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCARR00         76.45-76.47         76.60         +0.600           Brent (Nov)         PCARR00         76.45-76.47         76.460         +0.600           Sulfur de-escalator         AAUXL00         0.20         0.20           Sulfur de-escalator         AAUXL00         1.2021	MEC (Sep)	AAWSA00	75.42-75.44	75.430	+0.235
Brent/Dubai (Sep)         AAJMS00         0.00/0.02         0.010         -0.105           (PGA page 1212)           Brent (Dated)         PCAAS00         76.85-76.86         76.855         +0.860           Dated North Sea Light         AAOFD00         76.85-76.86         76.855         +0.860           Dated Brent (CIF)         PCAK000         76.85-76.86         76.855         +0.880           Brent (Sep)         PCAAR00         76.68-76.70         76.690         +0.610           Brent (Oct)         PCAAR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCARR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCARR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCARR00         76.45-76.47         76.460         +0.580           Sulfur de-escalator         AAUX.00         0.20         0.20           Oseberg QP (Jul)         AAXD00         1.6079         0.20           Oseberg QP (Jul)         AAXD00         1.2021         1.2021         1.2021         1.2021         1.2021         1.2021         1.2021         1.2021         1.2021         1.2021         1.2021         1.2021         1.2021	MEC (Oct)	AAWSB00	74.91-74.93	74.920	+0.230
PCAAS00   76.85 - 76.86   76.855   +0.860	MEC (Nov)	AAWSC00	74.34-74.36	74.350	+0.220
Brent (Dated)	Brent/Dubai (Sep)	AAJMS00	0.00/0.02	0.010	-0.105
Dated North Sea Light         AAOFD00         76.85-76.86         76.855         +0.860           Dated Brent (CIF)         PCAKM00         77.945         +0.880           Brent (Sep)         PCAAQ00         76.68-76.70         76.460         +0.610           Brent (Oct)         PCAAR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCARR00         76.45-76.47         76.460         +0.600           Sulfur de-escalator         AAUX100         0.20         0.20           Oseberg QP (Jul)         AAXD000         1.3083         1.6079           Ekofisk QP (Jul)         AAXD000         1.2021         1.2021           Ekofisk QP (Aug)         AAXD000         1.3663         1.7096           Troll QP (Jul)         ATFN800         2.3165         1.701           Troll QP (Aug)         ATFN800         73.	(PGA page 1212)				
Dated Brent (CIF)         PCAKM00         77.945         +0.880           Brent (Sep)         PCAAQ00         76.68-76.70         76.690         +0.610           Brent (Oct)         PCAAR00         76.45-76.47         76.600         +0.600           Brent (Nov)         PCARR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCARR00         76.160         +0.580           Sulfur de-escalator         AAUXL00         0.20           Oseberg QP (Jul)         AAXDW00         1.6079           Oseberg QP (Aug)         AAXDW00         1.2021           Ekofisk QP (Aug)         AAXDW00         1.2021           Ekofisk QP (Aug)         AAXDW00         1.0796           Troll QP (Jul)         ATFN800         2.3165           Troll QP (Aug)         ATFN800         2.3165           Troll QP (Aug)         ATFN800         1.8663           (PGA page 210)         Platts AGS         AGSAA00         73.750         +1.210           WTI FOB USGC Decades Avg         ADECA00         73.940         NANA           WTI (Sep)         PCACG00         71.78-71.89         71.80         +1.100           WTI (Sep)         PCACH00         71.87-71.89         71	Brent (Dated)	PCAAS00	76.85-76.86	76.855	+0.860
Brent (Sep)         PCAAQ00         76.68-76.70         76.690         +0.610           Brent (Oct)         PCAAR00         76.45-76.47         76.460         +0.600           Brent (Nov)         PCARR00         76.45-76.47         76.460         +0.600           Sulfur de-escalator         AAUX.00         0.20           Oseberg QP (Jul)         AAXDW00         1.6079           Oseberg QP (Aug)         AAXDW00         1.3083           Ekofisk QP (Jul)         AAXDY00         1.2021           Ekofisk QP (Aug)         AAXDY00         1.0796           Troll QP (Jul)         ATFN800         1.8663           Troll QP (Jul)         ATFN800         1.8663           Troll QP (Jul)         ATFN800         1.8663           Troll QP (Jul)         ATFN800         73.750         +1.210           WITI FOB USGC Decades Avg         ADECA00         73.940         NANA           WTI (Aug)         PCAC600         71.78-71.80         71.790         +1.080           WTI (Sep)         PCAC600         71.87-71.89         71.80         +1.100           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           Light Houston Sweet         AAXEW00	Dated North Sea Light	AAOFD00	76.85-76.86	76.855	+0.860
Brent (Oct)         PCAAR00         76.45-76.47         76.460         +0.600           Brent (Now)         PCARR00         76.45-76.47         76.460         +0.580           Sulfur de-escalator         AAUXL00         0.20         0.20           Oseberg QP (Jul)         AAXDW00         1.5079           Oseberg QP (Aug)         AAXDW00         1.3083           Ekofisk QP (Jul)         AAXDZ00         1.0796           Ekofisk QP (Aug)         AAXDZ00         1.0796           Troll QP (Jul)         ATFN800         2.3165           Troll QP (Jul)         ATFN800         1.8663           (PGA page 210)         PILSTANO         73.750         +1.210           WTI FOB USGC Decades Avg         ADECA00         73.750         +1.210           WTI FOB USGC Decades Avg         ADECA00         71.78-71.80         71.790         +1.080           WTI (Sep)         PCACG00         71.78-71.80         71.790         +1.080           WTI (Sep)         PCACH00         71.87-71.89         71.880         +1.100           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           Light Houston Sweet         AAXEW00         73.590         +1.180	Dated Brent (CIF)	PCAKM00		77.945	+0.880
Brent (Nov)         PCARR00         76.160         +0.580           Sulfur de-escalator         AAUXL00         0.20           Oseberg QP (Jul)         AAXDW00         1.6079           Oseberg QP (Aug)         AAXDW00         1.3083           Ekofisk QP (Jul)         AAXDW00         1.2021           Ekofisk QP (Aug)         AAXDZ00         1.0796           Troll QP (Jul)         ATFNB00         2.3165           Troll QP (Aug)         ATFNB00         1.8663           (PGA page 210)         THA00         1.8663           WTI FOB USGC Decades Avg         ADECA00         73.750         +1.210           WTI (Aug)         PCACG00         71.78-71.80         71.90         +1.080           WTI (Sep)         PCACG00         71.78-71.89         71.80         +1.100           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.180           Light Houston Sweet         AAXEW00         73.590         +1.180           Light Houston Sweet M2         AAYRY00         73.580         +1.150           LOOP Sour (Sep)         AALSM01         72.990         +1.000	Brent (Sep)	PCAAQ00	76.68-76.70	76.690	+0.610
Sulfur de-escalator         AAUXL00         0.20           Oseberg QP (Jul)         AAXDW00         1.6079           Oseberg QP (Aug)         AAXDX00         1.3083           Ekofisk QP (Aug)         AAXDX00         1.2021           Ekofisk QP (Aug)         AAXDZ00         1.0796           Troll QP (Jul)         ATFN800         2.3165           Troll QP (Aug)         ATFN800         1.8663           (PGA page 210)         Telescolor         Telescolor           Platts AGS         AGSAA00         73.750         +1.210           WTI FOB USGC Decades Avg         ADECA00         73.940         NANA           WTI (Sep)         PCACG00         71.78-71.80         71.790         +1.080           WTI (Sep)         PCACH00         71.87-71.89         71.880         +1.100           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           WTI (Sep)         PCACH00         73.590         +1.180           Uight Houston Sweet         AAYRY00         73.590         +1.180           Light Houston Sweet M2         AAYRY00         73.590         +1.080           LOOP Sour (Aug)         AALSM01         72.990         +1.080           LOOP	Brent (Oct)	PCAAR00	76.45-76.47	76.460	+0.600
Oseberg QP (Jul)         AAXDW00         1.6079           Oseberg QP (Aug)         AAXDW00         1.3083           Ekofisk QP (Jul)         AAXDY00         1.2021           Ekofisk QP (Aug)         AAXDZ00         1.0796           Troll QP (Jul)         ATFN800         2.3165           Troll QP (Aug)         ATFN800         1.8663           (PGA page 210)         FORTON TOWN TOWN TOWN TOWN TOWN TOWN TOWN T		PCARR00			+0.580
Oseberg QP (Aug)         AAXDX00         1.3083           Ekofisk QP (Jul)         AAXD200         1.2021           Ekofisk QP (Aug)         AAXD200         1.0796           Troll QP (Jul)         ATFN800         2.3165           Troll QP (Aug)         ATFN800         1.8663           (PGA page 210)         VITTOB USGC Decades Avg         ADECA00         73.750         +1.210           WTI FOB USGC Decades Avg         ADECA00         73.940         NANA           WTI (Sep)         PCACG00         71.78-71.80         71.790         +1.080           WTI (Sep)         PCACH00         71.87-71.89         71.880         +1.100           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           Light Houston Sweet         AAXEW00         73.590         +1.180           Light Houston Sweet M2         AAYRY00         73.580         +1.150           LOOP Sour (Sep)         AALSM01         72.990         +1.080           LOOP Sour (Oct)         AALSM02         72.580         +1.400           Bakken         AAYP00         73.030         +1.420           Bakken         AAYN00         71.440         +0.810           AQHN00         72.590		AAUXL00			
Ekofisk QP (Jul)         AAXDY00         1.2021           Ekofisk QP (Aug)         AAXDZ00         1.0796           Troll QP (Jul)         ATFNB00         2.3165           Troll QP (Aug)         ATFNA00         1.8663           (PGA page 210)           Platts AGS         AGSAA00         73.750         +1.210           WTI FOB USGC Decades Avg         ADECA00         73.940         NANA           WTI (Aug)         PCACG00         71.78-71.80         71.790         +1.080           WTI (Sep)         PCACH00         71.87-71.89         71.880         +1.100           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           WII (Sep)         PCACH00         73.590         +1.180           Light Houston Sweet         AAXEW00         73.590         +1.180           Light Houston Sweet M2         AAYRY00         73.580         +1.150           LOOP Sour (Sep)         AALSM01         72.990         +1.080           LOOP Sour (Oct)         AALSM02         72.580         +1.400           Bakken         AAXPP00         73.030         +1.420           Eagle Ford Marker         AAYAJ00         72.590         +1.080 </td <td></td> <td>AAXDW00</td> <td></td> <td>1.6079</td> <td></td>		AAXDW00		1.6079	
Ekofisk QP (Aug)         AAXDZ00         1.0796           Troll QP (Jul)         ATFN800         2.3165           Troll QP (Aug)         ATFN800         1.8663           (PGA page 210)         Platts AGS         AGSAA00         73.750         +1.210           WTI FOB USGC Decades Avg         ADECA00         73.940         NANA           WTI (Aug)         PCAC600         71.78-71.80         71.790         +1.000           WTI (Sep)         PCAC600         71.87-71.89         71.800         +1.100           WTI (Oct)         AAG1700         71.71-71.73         71.720         +1.000           WITI (Oct)         AAKEW00         73.590         +1.180           Light Houston Sweet         AAYRY00         73.590         +1.180           LOOP Sour (Aug)         AALSM01         72.990         +1.080           LOOP Sour (Sep)         AALSM02         72.580         +1.400           Bakken         AAXPP00         73.030         +1.420           Bagle Ford Marker         AAYAJ00         71.440         +0.810           AOM* (Aug)         AAOHN00         72.58-72.60         72.590         +1.080	Oseberg QP (Aug)	AAXDX00		1.3083	
Troll QP (Jul)         ATFN800         2.3165           Troll QP (Aug)         ATFNA00         1.8663           (PGA page 210)         T         T           Platts AGS         AGSAA00         73.750         +1.210           WTI FOB USGC Decades Avg         ADECA00         73.940         NANA           WTI (Aug)         PCAC600         71.78−71.80         71.790         +1.080           WTI (Sep)         PCACH00         71.87−71.89         71.720         +1.000           WTI (Oct)         AAGIT00         71.71−71.73         71.720         +1.000           Light Houston Sweet         AAXEW00         73.580         +1.180           Light Houston Sweet M2         AAYR700         73.580         +1.150           LOOP Sour (Aug)         AALSM01         72.90         +1.080           LOOP Sour (Sep)         AALSM02         72.580         +1.400           LOOP Sour (Oct)         AALSM03         72.120         +1.400           Bakken         AAXPP00         73.030         +1.420           Eagle Ford Marker         AAVAJ00         72.580         +1.080           AOH*(Aug)         AAOHN00         72.58-72.60         72.590         +1.080		AAXDY00			
Troll QP (Aug)         ATFNA00         1.8663           (PGA page 210)		AAXDZ00			
(PGA page 210)           Platts AGS         AGSAA00         73.750         +1.210           WTI FOB USGC Decades Avg         ADECA00         73.940         NANA           WTI (Aug)         PCACG00         71.78-71.80         71.790         +1.080           WTI (Sep)         PCACH00         71.87-71.89         71.880         +1.100           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           Light Houston Sweet         AAXEW00         73.590         +1.180           Light Houston Sweet M2         AAYRY00         73.580         +1.150           LOOP Sour (Aug)         AALSM01         72.990         +1.080           LOOP Sour (Sep)         AALSM02         72.580         +1.400           LOOP Sour (Oct)         AALSM03         72.120         +1.400           Bakken         AAXPP00         73.030         +1.420           Eagle Ford Marker         AAVAJ00         71.440         +0.810           ACM* (Aug)         AAQHN00         72.58-72.60         72.590         +1.000		ATFNB00			
Platts AGS         AGSAA00         73.750         +1.210           WTI FOB USGC Decades Avg         ADECA00         73.940         NANA           WTI (Aug)         PCACG00         71.78-71.80         71.790         +1.080           WTI (Sep)         PCACH00         71.87-71.89         71.880         +1.100           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           Light Houston Sweet         AAXEW00         73.590         +1.180           Light Houston Sweet M2         AAYRY00         73.580         +1.180           LOOP Sour (Aug)         AALSM01         72.990         +1.080           LOOP Sour (Sep)         AALSM02         72.580         +1.400           LOOP Sour (Oct)         AALSM03         72.120         +1.400           Bakken         AAXPP00         73.030         +1.420           Eagle Ford Marker         AAYAJ00         71.440         +0.810           ACM* (Aug)         AAQHN00         72.58-72.60         72.590         +1.080	Troll QP (Aug)	ATFNA00		1.8663	
WTI FOB USGC Decades Avg         ADECA00         73.940         NANA           WTI (Aug)         PCACG00         71.78-71.80         71.790         +1.080           WTI (Sep)         PCACH00         71.87-71.89         71.880         +1.100           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           Light Houston Sweet         AAXEW00         73.590         +1.180           Light Houston Sweet M2         AAYRY00         73.580         +1.150           LOOP Sour (Aug)         AALSM01         72.990         +1.080           LOOP Sour (Sep)         AALSM02         72.580         +1.400           LOOP Sour (Oct)         AALSM03         72.120         +1.400           Bakken         AAXPP00         73.030         +1.420           Eagle Ford Marker         AAYAJ00         71.440         +0.810           ACM* (Aug)         AAQHN00         72.58-72.60         72.590         +1.080					
WTI (Aug)         PCACG00         71.78-71.80         71.790         +1.080           WTI (Sep)         PCACH00         71.87-71.89         71.880         +1.100           WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           Light Houston Sweet         AAXEW00         73.590         +1.180           Light Houston Sweet M2         AAYRY00         73.580         +1.150           LOOP Sour (Aug)         AALSM01         72.990         +1.080           LOOP Sour (Sep)         AALSM02         72.580         +1.400           LOOP Sour (Oct)         AALSM03         72.120         +1.400           Bakken         AAXPP00         73.030         +1.420           Eagle Ford Marker         AAYAJ00         71.440         +0.810           ACM* (Aug)         AAQHN00         72.58-72.60         72.590         +1.080		AGSAA00			
WTI (Sep)         PCACH00         71.87-71.89         71.880         +1.100           WTI (Oct)         AAG1T00         71.71-71.73         71.720         +1.000           Light Houston Sweet         AAXEW00         73.590         +1.150           Light Houston Sweet M2         AAYRY00         73.580         +1.150           LOOP Sour (Aug)         AALSM01         72.990         +1.080           LOOP Sour (Sep)         AALSM02         72.580         +1.400           LOOP Sour (Oct)         AALSM03         72.120         +1.400           Bakken         AAXP00         73.030         +1.420           Eagle Ford Marker         AAYAJ00         71.440         +0.810           ACM* (Aug)         AAQHN00         72.58-72.60         72.590         +1.080		ADECA00		73.940	
WTI (Oct)         AAGIT00         71.71-71.73         71.720         +1.000           Light Houston Sweet         AAXEW00         73.590         +1.180           Light Houston Sweet M2         AAYRY00         73.580         +1.150           LOOP Sour (Aug)         AALSM01         72.990         +1.080           LOOP Sour (Sep)         AALSM02         72.580         +1.400           LOOP Sour (Oct)         AALSM03         72.120         +1.400           Bakken         AAXPP00         73.030         +1.420           Eagle Ford Marker         AAYAJ00         71.440         +0.810           ACM* (Aug)         AAQHN00         72.58-72.60         72.590         +1.080		PCACG00		71.790	+1.080
Light Houston Sweet         AAXEW00         73.590         +1.180           Light Houston Sweet M2         AAYRY00         73.580         +1.150           LOOP Sour (Aug)         AALSM01         72.990         +1.080           LOOP Sour (Sep)         AALSM02         72.580         +1.400           LOOP Sour (Oct)         AALSM03         72.120         +1.400           Bakken         AAXPP00         73.030         +1.420           Eagle Ford Marker         AAYAJ00         71.440         +0.810           ACM* (Aug)         AAQHN00         72.58-72.60         72.590         +1.080		PCACH00			
Light Houston Sweet M2     AAYRY00     73.580     +1.150       LOOP Sour (Aug)     AALSM01     72.990     +1.080       LOOP Sour (Sep)     AALSM02     72.580     +1.400       LOOP Sour (Sep)     AALSM03     72.120     +1.400       Bakken     AAXPP00     73.030     +1.420       Eagle Ford Marker     AAYAJ00     71.440     +0.810       ACM* (Aug)     AAQHN00     72.58-72.60     72.590     +1.080		AAGIT00	71.71–71.73		
LOOP Sour (Aug)         AALSM01         72.990         +1.080           LOOP Sour (Sep)         AALSM02         72.580         +1.400           LOOP Sour (Oct)         AALSM03         72.120         +1.400           Bakken         AAXPP00         73.030         +1.420           Eagle Ford Marker         AAYAJ00         71.440         +0.810           ACM* (Aug)         AAQHN00         72.58-72.60         72.590         +1.080		AAXEW00			
LOOP Sour (Sep)         AALSM02         72.580         +1.400           LOOP Sour (Oct)         AALSM03         72.120         +1.400           Bakken         AAXPP00         73.030         +1.420           Eagle Ford Marker         AAYAJ00         71.440         +0.810           ACM* (Aug)         AAQHN00         72.58-72.60         72.590         +1.080		AAYRY00			
LOOP Sour (Oct)     AALSM03     72.120     +1.400       Bakken     AAXPP00     73.030     +1.420       Eagle Ford Marker     AAYAJ00     71.440     +0.810       ACM* (Aug)     AAQHN00     72.58-72.60     72.590     +1.080		AALSM01			
Bakken     AAXPP00     73.030     +1.420       Eagle Ford Marker     AAYAJ00     71.440     +0.810       ACM* (Aug)     AAQHN00     72.58-72.60     72.590     +1.080		AALSM02			
Eagle Ford Marker         AAYAJ00         71.440         +0.810           ACM* (Aug)         AAQHN00         72.58-72.60         72.590         +1.080					
ACM* (Aug) AAQHN00 72.58-72.60 72.590 +1.080					
		AAYAJ00			
ACM* (Sep) AAQHO00 72.17-72.19 72.180 +1.400		AAQHN00			
ACM* (Oct) AAQHP00 71.71–71.73 71.720 +1.400	ACM* (Oct)	AAQHP00	71.71–71.73	71.720	+1.400

<sup>\*</sup>Americas Crude Marker.

### Forward Dated Brent (\$/barrel) (PGA page 1250)

			Mid	Change
North Sea Dated strip	AAKWH00	76.86-76.88	76.870	+0.760
Mediterranean Dated strip	AALDF00	76.86-76.88	76.870	+0.755
33-63 Day Dated strip	AALEJ00	76.35-76.36	76.355	+0.475
BTC Dated strip	AAUFI00	76.83-76.85	76.840	+0.750
15-45 Day Dated strip	AALGM00	76.76-76.77	76.765	+0.740
30-60 Day Dated strip	AAXRK00	76.37-76.39	76.380	+0.470
North Sea CIF Dtd strip	AAHXE00		76.855	+0.750
23-63 Day Dated Strip	ADBRA00		76.400	+0.475

### Brent/WTI spreads and EFPs (PGA page 218)

			IVIIa	Change
Brent/WTI 1st	AALAU00	4.74/4.76	4.750	-0.080
Brent/WTI 2nd	AALAV00	4.67/4.69	4.680	-0.060
Brent/WTI 3rd	AALAY00		4.610	-0.070
Brent EFP (Sep)	AAGVX00	0.12/0.14	0.130	+0.110
Brent EFP (Oct)	AAGVY00	0.12/0.14	0.130	+0.110
Brent EFP (Nov)	AAMVY00		0.130	+0.110
WTI EFP (Aug)	AAGVT00	-0.01/0.01	0.000	-0.070
WTI EFP (Sep)	AAGVU00	-0.01/0.01	0.000	0.000
WTI EFP (Oct)	AAGVV00	-0.01/0.01	0.000	

### Middle East (\$/barrel)

(PGA page 2210)	-/		Mid	Change
Oman (Sep)	PCABS00	75.52-75.54	75.530	+0.250
Oman (Oct)	AAHZF00	75.01-75.03	75.020	+0.250
Oman (Nov)	AAHZH00	74.44-74.46	74.450	+0.240
Upper Zakum (Sep)	AAOUQ00	75.41-75.45	75.430	+0.235
Murban (Sep)	AAKNL00	76.01-76.05	76.030	+0.300
Murban (Oct)	MBNSA00		75.520	+0.300
Murban (Nov)	MBNSB00		74.950	+0.290
Al Shaheen	AAPEV00	75.43-75.47	75.450	+0.220
	5	Spread vs Dubai		
Dubai	DBDDC00		1.080	+0.015
Oman	DBDOC00		1.180	+0.030
Murban	AARBZ00		1.680	+0.080
Al Shaheen	AAPEW00	1.05-1.15	1.100	0.000
Upper Zakum	DBDUZ00		1.080	+0.015
	Q	uality Premiums		
Murban QP	AASVA00		0.0000	
(PGA page 2658)				
Dubai Swap (Aug)	AAHBM00	74.90-74.94	74.920	+0.230
Dubai Swap (Sep)	AAHBN00	74.33-74.37	74.350	+0.220
Dubai Swap (Oct)	AAHB000	73.86-73.90	73.880	+0.220

### ESPO (FOB Kozmino, London Close)



### Market Commentary

# Platts Middle East Sour Crude Daily Market Analysis

- Ceypetco awards September-delivery tender
- August-delivery Far East Russian ESPO Blend trades

Tender results and trades emerged in the regional sour crude oil complex July 5.

Market participants have adopted a conservative approach for Middle East's upcoming term nominations in light of Saudi Arabia's extended voluntary production cuts.

"The cuts are supportive for sour crude on

(continued on page 3)

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### Asia Pacific and Middle East crude assessments (\$/barrel)

			(Asia MOC)				(Asia MOC)				(Asia close)			(London close	<u>e)</u>
	API Gravity	Code		Mid	Change	Code		Mid	Change	Code	Mid	Change	Code	Mid	Change
Condensate									8-		PGA page 2212)	•		(PGA page 2213)	
001100110010						-	Diff to Dubai				Asian Dated		_   <del></del>	(i ar i pago LL io)	
NW Shelf	61.9	PCAGX00	61.74-61.78	61.760	+0.290		DITT to Dubai			AAPAI00	-13.300	-0.050	AAPAH00	63.120	+0.430
Ichthys FC	48.9	ICFCA00	01.74-01.76	69.160	+0.240					ICFCB00	-5.900	-0.100	AAPARUU	03.120	TU.430
DFC	56.82	ADFCA00	67.88-67.92	67.900	+0.170	ADFCB00	-6.50/-6.40	-6.450	-0.050	ADFCC00	-7.160	-0.170	ADFCD00	68.970	+0.310
Qatar LSC	56.9	AARBB00	67.28-67.32	67.300	+0.170	AARBD00	-7.10/-7.00	-7.050	-0.050	AARBC00	-7.760	-0.170	AARBA00	68.370	+0.310
South Pars	57.4	AARAV00	63.03-63.07	63.050	+0.170	AARAX00	-11.35/-11.25	-11.300	-0.050	AARAW00	-12.010	-0.170	AARAU00	64.120	+0.310
Journal at 5	37.4	AARAVUU	03.03-03.07	05.050	+0.170	AARAAUU		-11.500	-0.000	AARAWUU	-12.010	-0.170	AARAUUU	04.120	+0.510
0	E//		E0 00 E0 70	E0 740	. 0. 000		Diff to ICP	0.000	0.050		45.050	0.050		04.070	. 0 /00
Senipah	54.4	AAEOE00	59.69-59.73	59.710	+0.290	AAEOK00	-8.35/-8.25	-8.300	-0.050	AAPBE00	-15.350	-0.050	AAPBD00	61.070	+0.430
Light crude										(F	PGA page 2214)	)	(	(PGA page 2215)	
							Diff to ICP			Diff to	Asian Dated	Brent			
Cossack	47.7	PCAGZ00	68.94-68.98	68.960	+0.240					AAPAC00	-6.100	-0.100	AAPAB00	70.320	+0.380
Tapis	45.2	PCACB00	78.59-78.63	78.610	+0.340					AAOZW00	3.550	0.000	AAOZV00	79.970	+0.480
Belida	45.1	PCAFL00	63.54-63.58	63.560	+0.240	PCAFM00	-4.85/-4.75	-4.800	-0.050	AAPBQ00	-11.500	-0.100	AAPBP00	64.920	+0.380
Kutubu	44.3	PCAFJ00	67.29-67.33	67.310	+0.240					AAPAE00	-7.750	-0.100	AAPAD00	68.670	+0.380
Attaka	42.3	PCAAJ00	63.44-63.48	63.460	+0.240	PCAAK00	-5.75/-5.65	-5.700	-0.050	AAPBC00	-11.600	-0.100	AAPBB00	64.820	+0.380
Ardjuna	38	PCACQ00	68.99-69.03	69.010	+0.340	PCACR00	-1.80/-1.70	-1.750	0.000	AAPBG00	-6.050	0.000	AAPBF00	70.370	+0.480
Banyu Urip	32	PCAFQ00		79.110	+0.340	PCAQQ00		2.250		AAPBU00	4.050		AAPBR00	80.470	+0.480
							Diff to Dubai								
Sakhalin Blend	45.5	AARBN00	60.33-60.37	60.350	+0.720	AARCN00	-14.05/-13.95	-14.000	+0.500	AARDN00	-14.710	+0.380	AAREN00	61.420	+0.860
ESP0 M1	34.8	AARWF00	66.93-66.97	66.950	+0.520	AASEU00	-7.45/-7.35	-7.400	+0.300						
ESP0 M2	34.8	AAWFE00	66.36-66.40	66.380	+0.520	AAWFG00	-7.55/-7.45	-7.500	+0.300						
Sokol	39.7	AASCJ00	64.33-64.37	64.350	+0.720	AASCK00	-10.05/-9.95	-10.000	+0.500	AAPA000	-10.710	+0.380	AAPAN00	65.420	+0.860
Kikeh	34.9	AAWUH00	81.34-81.38	81.360	+0.340					AAOZY00	6.300		AAOZX00	82.720	+0.480
Miri Light	32.3	PCABQ00	81.04-81.08	81.060	+0.340					AAPAS00	6.000	0.000	AAPAR00	82.420	+0.480
Labuan	32	PCABL00	82.79-82.83	82.810	+0.340					AAPAQ00	7.750	0.000	AAPAP00	84.170	+0.480
Kimanis	38.6	AASCL00		82.510	+0.340					AASCM00	7.450	0.000	AASCN00	83.870	+0.480
Medium crude										(F	PGA page 2216)	)		(PGA page 2217)	
										Diff to	Asian Dated	Brent	_		
Su Tu Den	36.8	AARAR00	80.29-80.33	80.310	+0.340					AARAS00	5.250	0.000	AARAQ00	81.670	+0.480
Bach Ho	40.7	PCAHY00	81.34-81.38	81.360	+0.340					AAPAK00	6.300	0.000	AAPAJ00	82.720	+0.480
Nanhai	40	PCAFR00	70.34-70.38	70.360	+0.340					AAPAG00	-4.700	0.000	AAPAF00	71.720	+0.480
Nile Blend	33.9	AAPLC00	72.79-72.83	72.810	+0.340					AAPAM00	-2.250	0.000	AAPAL00	74.170	+0.480
Daqing	32.2	PCAAZ00	71.84-71.88	71.860	+0.340					AAPAW00	-3.200		AAPAV00	73.220	+0.480
Heavy crude										(F	PGA page 2218	)	(	(PGA page 2219)	
							Diff to ICP			Diff to	Asian Dated	Brent	_		
Dar Blend	25	AARAB00	73.49-73.53	73.510	+0.340		= -=!			AARAC00	-1.550	0.000	AARAA00	74.870	+0.480
Shengli	24.2	PCABY00	75.04-75.08	75.060	+0.340					AAPAY00	0.000	0.000	AAPAX00	76.420	+0.480
Duri	20.8	PCABA00	78.39-78.43	78.410	+0.340	PCABB00	2.70/2.80	2.750	0.000	AAPBM00	3.350	0.000	AAPBL00	79.770	+0.480
Vincent	18.3	AARAK00		80.110	+0.340			00		AARAL00	5.050	0.000	AARAJ00	81.470	+0.480

### Delivered - Asia spot crude assessments (\$/barrel) (PGA page 2238)

		Diff t	o Dubai	Diff to A	Asian Dated Brent	
US Delivered - Asia Spot Crudes						
WTI Midland (DES Singapore) wtmsa00	77.480 +0.370	WTMSD00	3.600 +0.150	WTMSB00	2.680 +0.020	
WTI Midland (DES Yeosu) WTMYA00	77.980 +0.370	WTMYD00	4.100 +0.150	WTMYB00	3.180 +0.020	
Brazil Delivered-Asia Spot Crudes						
Tupi (DES Qingdao) LUQDA00	78.230 +0.520	LUQDD00	4.350 +0.300	LUQDB00	3.430 +0.170	

### Middle East spot assessments (\$/barrel) (PGA page 2220)

			Mid	Change	Spread vs Dul	<u>bai</u> Mid	Change		Spread vs OSP	Mid	Change
Umm Lulu	AUFAA00		76.180	+0.300	DBDUL00	1.830	+0.080				
Das Blend	AAXOF00	75.31-75.35	75.330	+0.300	DBDDS00	0.980	+0.080				
Qatar Land	AAKNP00	74.63-74.67	74.650	+0.300	QALDA00	0.300	+0.080	AAKUJ00	0.10/0.20	0.150	0.000
Qatar Marine	AAKNR00	74.38-74.42	74.400	+0.250	QAMDA00	0.050	+0.030	AAKUH00	-0.05/0.05	0.000	0.000
Banoco Arab Medium	AAKNT00	75.13-75.17	75.150	+0.250				AAKUD00	-1.20/-1.10	-1.150	0.000
Basrah Medium M1	BSMAM01	-	75.000	+0.250				BSMBM01		0.450	0.000
Basrah Medium M2	BSMAM02	-	74.200	+0.250				BSMBM02		0.200	0.000
Basrah Heavy M1	AALZC00	-	71.900	+0.250				AALZJ00		0.450	0.000
Basrah Heavy M2	AALZD00	-	71.100	+0.250				AALZK00		0.200	0.000

the surface for sure, but the market has grown increasingly skeptical until there's visible impact," said a crude trader.

Refiners may be forced to allocate full nominations regardless of an increased OSP differential, depending on their respective inventory levels, the trader added.

Sri Lanka's Ceypetco was heard to have purchased 700,000 barrels of Murban crude for delivery Sept. 24-27 via a tender, at a premium of \$4.99/b to the ADNOC September OSP on a DAP basis from BB Energy.

Ceypetco had last bought a similar-sized cargo of Murban for delivery Aug. 20-24 at a premium of \$5.39/b over ADNOC August OSP on a DAP basis from Vitol.

Meanwhile, August-delivery barrels of Far East Russian ESPO Blend were heard purchased at a discount of \$4.05/b to ICE October Brent futures on a delivered basis to Shandong.

Some market participants had valued Augustdelivery barrels of the grade at discounts around \$4-\$4.20/b to ICE October Brent futures, while trade of September-delivery barrels have yet to start.

In other news, China's Unipec was heard to have purchased a cargo of West African Djeno crude for September delivery from Chevron, while Shenghong was heard to have purchased Oman crude from TotalEnergies for delivery over the same period. Price levels for the trades were not yet heard.

### Asian market parity prices (\$/barrel) (PGA page 2280)

	(Asia close	)	(London	close)
		Mid Change		Mid Change
Minas	PCABO00	71.115 +0.580	AAPAZ00	72.475 +0.720
Cinta	PCAAX00	61.390 +0.675	AAPBJ00	62.750 +0.815
Widuri	PCAFE00	59.685 +0.750	AAPBN00	61.045 +0.890
Cambay	AMPPA00	73.905 +0.285		
Ravva	AMPPB00	78.770 +0.520		
Rajasthan	AMPPC00	75.090 -0.015		

### Asian Crude Indices (\$/barrel) (PGA page 2206)

16:30 Singapore	<u>Int</u>	erim Asian Close	Diff to Dated Brent		<u>Final London Close</u>	
Asian Dated Brent (ADB)	AAXPG00	75.355				
ADB Strip Asia	AARBV00	75.060		AARBX00	76.420	
ADB Strip Middle East	AARBW00	75.060		AARBY00	76.130	
ADB Strip M3	ADBS003	74.800				

For definitions see http://www.platts.com/IM.Platts.Content/MethodologyReferences/MethodologySpecs/Crude-oil-methodology.pdf

# Platts Mideast Sour Crude Daily Rationales & Exclusions

Dubai Mo01 < PCAAT00> assessment rationale: The September cash Dubai assessment July 5 took into consideration cash Dubai partials trades, including offers at \$75.43/b that traded at the end of the Platts Market on Close assessment process and shortly during extension.

### Oman Blend Mo01 < PCABS00 > assessment rationale:

The September cash Oman assessment July 5 took into consideration values heard in the broader market.

Exclusions: No data was excluded from the Middle East sour crude MOC process.

# Platts Oil Mideast Sour Crude Convergences

None reported

# Platts Middle East Sour Crude Bids, Offers, Trades

Bids:

PLATTS DUBAI: SEP23: VITOL BIDS 25KB AT \$75.40 PLATTS DUBAI: SEP23: EQUINOR BIDS 25KB AT \$75.40

PLATTS DUBAI: SEP23: PETROCHINA BIDS 25KB AT \$75.35

PLATTS DUBAI: SEP23: MITSUI BIDS 25KB AT \$75.30

PLATTS DUBAI: SEP23: GUNVOR NO LONGER BIDS AFTER TRADE

Offers:

PLATTS DUBAI: SEP23: RELIANCE OFFERS 25KB AT \$75.43 AND TRADES DURING EXTENSION

PLATTS DUBAI: SEP23: PETROCHINA OFFERS 25KB AT \$75.45

PLATTS DUBAI: SEP23: BP OFFERS 25KB AT \$75.50 PLATTS DUBAI: SEP23: UNIPEC OFFERS 25KB AT \$75.50

PLATTS DUBAI: SEP23: TRAFIGURA OFFERS 25KB AT \$75.55

PLATTS DUBAI: SEP23: VITOL OFFERS 25KB AT \$75.70

PLATTS DUBAI: SEP23: EXXONMOBIL NO LONGER OFFERS AFTER TRADE

Trades:

PLATTS DUBAI: SEP23: TRAFIGURA SELLS TO EQUINOR\* 25KB AT \$75.35 (08:27:56)

PLATTS DUBAI: SEP23: PETROCHINA SELLS TO EQUINOR\* 25KB AT \$75.40 (08:29:13)

PLATTS DUBAI: SEP23: RELIANCE SELLS TO GUNVOR\* 25KB AT \$75.40 (08:29:17)

PLATTS DUBAI: SEP23: PETROCHINA SELLS TO

EQUINOR\* 25KB AT \$75.40 (08:29:40) PLATTS DUBAI: SEP23: SHELL BUYS FROM

RELIANCE\* 25KB AT \$75.43 (08:29:52)

PLATTS DUBAI: SEP23: PETROCHINA SELLS TO GUNVOR\* 25KB AT \$75.40 (08:29:55)

PLATTS DUBAI: SEP23: EQUINOR BUYS FROM EXXONMOBIL\* 25KB AT \$75.43 (08:30:00)

PLATTS DUBAI: SEP23: SHELL BUYS FROM RELIANCE\* 25KB AT \$75.43 (08:30:02)

This assessment commentary applies to the following market data codes: Dubai M1 < PCAAT00>, Oman M1 < PCABS00>

### North Sea spot crude assessments (\$/barrel) (PGA page 1212)

			Mid	Change	Sprea	d vs fwd Dated Brent	Mid	Change
Dated Brent Diff					AAXEZ00	-0.02/-0.01	-0.015	+0.100
BNB	AAVJA00	77.03-77.05	77.040	+0.760	AAVJB00	0.16/0.18	0.170	0.000
Forties	PCADJ00	77.05-77.06	77.055	+0.770	AAGWZ00	0.18/0.19	0.185	+0.010
Oseberg	PCAEU00	78.57-78.58	78.575	+0.760	AAGXF00	1.70/1.71	1.705	0.000
Ekofisk	PCADI00	78.26-78.28	78.270	+0.785	AAGXB00	1.39/1.41	1.400	+0.025
Troll	AAWEX00	79.35-79.36	79.355	+0.760	AAWEY00	2.48/2.49	2.485	0.000
FOB N Sea WTI Midland	ALNDA00		76.885	+0.890	ALNDB00		0.015	+0.130
Statfjord	PCAEE00	78.56-78.58	78.570	+0.760	AAGXD00	1.69/1.71	1.700	0.000
Flotta Gold	PCACZ00	77.56-77.58	77.570	+0.760	AAGXH00	0.69/0.71	0.700	0.000
Duc	AAWEZ00	77.81-77.83	77.820	+0.760	AAWFL00	0.94/0.96	0.950	0.000
Grane Blend	PCALA00		78.220	+0.760	PCALB00		1.350	0.000
Johan Sverdrup	AJSVA00		78.155	+0.760	AJSVB00		1.285	0.000
Statfjord (CIF)	AASAS00	79.65-79.66	79.655	+0.750	AASAT00	2.79/2.81	2.800	0.000
Gullfaks (CIF)	AASAU00	79.95-79.96	79.955	+0.750	AASAV00	3.09/3.11	3.100	0.000
Alvheim (CIF)	ALVHA00		80.155	+0.750	ALVHB00		3.300	0.000
Asgard (CIF)	ASGCA00		78.105	+0.750	ASGCB00		1.250	0.000
North Sea basket	AAGIZ00	77.73-77.74	77.735	+0.770				
North Sea Dated Strip	AAKWH00	76.86-76.88	76.870	+0.760				
European Sour Crude Index	CSBEA00		78.145	+0.760	CSBEB00		1.275	0.000
					Spread	vs fwd CIF Dated Bren	ţ	
Dated Brent (CIF)	AAVJG00		77.945	+0.880	AAVJF00		1.090	+0.130
BNB (CIF)	PCAKP00		79.165	+0.830	AAVJC00		2.310	+0.080
Forties (CIF)	PCAKR00		78.525	+0.810	AAHXC00		1.670	+0.060
Oseberg (CIF)	PCAKT00		79.910	+0.800	AAHXD00		3.055	+0.050
Ekofisk (CIF)	PCAKV00		79.445	+1.035	AAHXB00		2.590	+0.285
Troll (CIF)	AAXJ000		80.700	+0.800	AAXJN00		3.845	0.050
WTI Midland (CIF)	WMCRD00		77.945	+0.880	WMCRB00		1.090	+0.130
North Sea CIF Dated Strip	AAHXE00		76.855	+0.750				

### Freight Adjustment Factors

(\$/barrel)		Change	
Sullom Voe-Rotterdam	FSVRM00	1.6824 -0.0059	
Hound Point-Rotterdam	FHPRM00	1.1684 -0.0040	
Sture-Rotterdam	FSTRM00	1.0626 -0.0036	
Teesside-Rotterdam	FTSRM00	0.9408 -0.0031	
Mongstad-Rotterdam	FMGRM00	1.0698 -0.0036	
North Sea-Rotterdam	FSFRM00	1.0651 -0.0036	
(%)			
FAF Weighting	FAFWA00	0.80	

### European US Spot Crude Assessments (\$/barrel) (PGA page 1238)

		Mid	Change	Spread vs fwd Dated Brent	Mid	Change
WTI Midland (DAP Rotterdam)	AWTIC00	77.745	+0.630	AWTID00	1.345	+0.155
WTI Midland (DAP Augusta)	AWTIA00	78.395	+0.630	AWTIB00	1.995	+0.155
Eagle Ford 45 (DAP Rotterdam)	AEFAC00	76.845	+0.630	AEFAD00	0.445	+0.155
Eagle Ford 45 (DAP Augusta)	AEFAA00	77.495	+0.630	AEFAB00	1.095	+0.155

### **Platts Dubai Derivatives Bids Summary**

BIDS ON CLOSE

NO BIDS REPORTED

WITHDRAWALS

\_\_\_\_\_

NO WITHDRAWALS REPORTED

Platts' End-of-Day assessments for Dubai derivatives prices can be found on PPA2606.

Platts Oil Paper Bids, Offers and Trade Page Index found on <PGA4000>

Platts has defined standards for entities it considers to be related and verifies through a variety of inputs whether counterparties in reported trades meet these criteria.

### **Platts Dubai Derivatives Offers Summary**

OFFERS ON CLOSE

\_\_\_\_\_

NO OFFERS REPORTED WITHDRAWALS

\_\_\_\_\_

NO WITHDRAWALS REPORTED

Platts' End-of-Day assessments for Dubai derivatives prices can be found on PPA2606.

Platts Oil Paper Bids, Offers and Trade Page Index found on <PGA4000>

Platts has defined standards for entities it considers to be related and verifies through a variety of inputs whether counterparties in reported trades meet these criteria.

### Platts Dubai Derivatives Trades Summary

TRADES SUMMARY

\_\_\_\_\_

NO TRADES REPORTED

Platts' End-of-Day assessments for Dubai

### Dated Brent/BFOE swaps (\$/barrel) (PGA page 1214)

Week		Week Date		Brent CFD*	Mid	Change		Dated Brent swap	Mid	Change
CFD Week 1	(Oct)	Jul 03-07	PCAKA00	0.53/0.55	0.540	+0.210	AAJNV00	76.99/77.01	77.000	+0.810
CFD Week 2	(Oct)	Jul 10-14	PCAKC00	0.53/0.55	0.540	+0.210	AAJOS00	76.99/77.01	77.000	+0.810
CFD Week 3	(Oct)	Jul 17-21	PCAKE00	0.48/0.50	0.490	+0.210	AAJOU00	76.94/76.96	76.950	+0.810
CFD Week 4	(Oct)	Jul 24-28	PCAKG00	0.39/0.41	0.400	+0.125	AAJOW00	76.85/76.87	76.860	+0.725
CFD Week 5	(Oct)	Jul 31-04	AAGLU00	0.31/0.33	0.320	+0.160	AAJPC00	76.77/76.79	76.780	+0.760
CFD Week 6	(Oct)	Aug 07-11	AAGLV00	0.24/0.26	0.250	+0.140	AAJPE00	76.70/76.72	76.710	+0.740
CFD Week 7	(Oct)	Aug 14-18	AALCZ00	0.17/0.19	0.180	+0.140	AALAW00	76.63/76.65	76.640	+0.740
CFD Week 8	(Oct)	Aug 21-25	AALDA00	0.10/0.12	0.110	+0.140	AALAX00	76.56/76.58	76.570	+0.740

Brent Swaps Weeks 1 to 8 are differentials to Brent Mo02 (Oct) PCAAR00 found on page 1.

### Dated Brent/Brent Frontline Swaps (DFL) (\$/barrel) (PPE page 1614)

		Swaps	Change		DFL	Change	
Balance month* (Jul 23)	BDLBM00	76.670	+0.510	ABWFZ00	0.120	+0.010	
Month 1 (Aug 23)	BDLM001	76.420	+0.480	AAEAA00	0.100	-0.010	
Month 2 (Sep 23)	BDLM002	76.130	+0.480	AAEAB00	0.110	+0.010	
Month 3 (Oct 23)	BDLM003	75.830	+0.450	AAEAC00	0.110	-0.010	
Month 4 (Nov 23)	BDLM004	75.540	+0.440	AAEAD00	0.130	-0.010	

<sup>\*</sup>Balance month swaps are assessed from the 1st through the 20th of the month.

### Cash BFOE intraday assessments (\$/barrel) (PGA page 1216)

		Cash BFOE	Change			Inter-Month Spread	
10:30 London Time							
BF0E M1 (Sep)	PBCAAM1	75.950	+0.410				
BFOE M2 (Oct)	PBCAAM2	75.770	+0.430	Sep/Oct	PBAM1M2	0.180	
BFOE M3 (Nov)	PBCAAM3	75.470	+0.430	Oct/Nov	PBAM2M3	0.300	
12:30 London Time							
BF0E M1 (Sep)	PBCABM1	76.070	+0.300				
BFOE M2 (Oct)	PBCABM2	75.880	+0.330	Sep/Oct	PBBM1M2	0.190	
BFOE M3 (Nov)	PBCABM3	75.590	+0.320	Oct/Nov	PBBM2M3	0.290	
14:30 London Time							
BF0E M1 (Sep)	PBCACM1	76.730	+0.940				
BFOE M2 (Oct)	PBCACM2	76.500	+0.920	Sep/Oct	PBCM1M2	0.230	
BFOE M3 (Nov)	PBCACM3	76.180	+0.870	Oct/Nov	PBCM2M3	0.320	
16:30 London Time							
BF0E M1 (Sep)	PCAAQ00	76.690	+0.610				
BFOE M2 (Oct)	PCAAR00	76.460	+0.600				
BFOE M3 (Nov)	PCARR00	76.160	+0.580				
19:30 London Time							
BF0E M1 (Sep)	PBCADM1	NA	_				
BFOE M2 (Oct)	PBCADM2	NA	_	Sep/Oct	PBDM1M2	NA	
BFOE M3 (Nov)	PBCADM3	NA	_	Oct/Nov	PBDM2M3	NA	

derivatives prices can be found on PPA2606.

Platts Oil Paper Bids, Offers and Trade Page Index found on <PGA4000>

Platts has defined standards for entities it considers to be related and verifies through a variety of inputs whether counterparties in reported trades meet these criteria.

### **Platts Dubai Derivatives Exclusions**

Exclusions: No market data was excluded from the July 5, 2023 Dubai derivatives assessment process.

# Platts Asia Pacific Sweet Crude Daily Market Analysis

- Outcome of Pertamina's condensate tender awaited
- Indonesia, Brunei issue fresh OSPs

Market participants in the Asia Pacific sweet crude market were awaiting the outcome of Pertamina's tender seeking, on behalf of TPPI, condensate for September delivery. The tender closed July 3 and is valid until July 5.

There were some expectations that the North West Shelf condensate cargo, for loading over Aug. 29-Sept. 2, that was previously purchased by a trader would be considered in the tender.

However some noted that there are plenty of different condensates available for Pertamina's choosing.

"TPPI may or may not buy [Australia's] North West Shelf [condensate]... there are a few cargoes [of different condensate grades] around, [and] last time they took Wheatstone," said a Singapore-based trader.

In its previous tender, Pertamina was heard to have purchased a cargo of Australia's Wheatstone condensate for delivery over Aug. 1-3 from oil major Chevron at discounts ranging from \$4/b to \$7/b to Platts Dated Brent crude assessments, DAP Tuban,

### Urals/ESPO spot assessments (\$/barrel) (PGA page 1220)

			Mid	Change	9	Spread vs fwd Dated Brent	Mid	Change
Urals (Rotterdam)	PCAFW00	59.15-59.19	59.170	+0.820	AAGXJ0	a -17.71/-17.69	-17.700	+0.065
Urals (Mediterranean)	PCACE00	59.61-59.65	59.630	+0.755	AAGXX0	o -17.25/-17.23	-17.240	0.000
Urals FOB Novo Suez	AAGZS00	56.85-56.89	56.870	+0.755	AAHPH0	o -20.01/-19.99	-20.000	0.000
Urals FOB Novo Afra	AAOTH00	55.95-55.99	55.970	+0.755	AAOTIO	a -20.91/-20.89	-20.900	0.000
Urals (Ex-Baltic)	AAGZT00	56.85-56.89	56.870	+0.755	AAHPI00	a -20.01/-19.99	-20.000	0.000
Urals (Primorsk)	AAWVH00	56.85-56.89	56.870	+0.755	AAWVI0	a -20.01/-19.99	-20.000	0.000
Urals RCMB (Recombined)	AALIN00	59.60-59.63	59.615	+0.860				
ESPO (FOB Kozmino)	AARWD00	68.18-68.20	68.190	+0.910	AARWE0	a -7.95/-7.93	-7.940	+0.430
KEBCO	KBCOA00		77.970	+0.755	KBC0B0	9	1.100	0.000
Urals (DAP India)	DWCUA00		68.420	+0.480	DWCUB0	9	-8.000	0.000
KEBCO/Russian Urals	AKEBA00		18.340	0.000				
		Number of days						
Observed Delivery Factor	AODFA00	6						

### Urals Med/NWE CFD assessments (\$/barrel)

		<u>Urals CFD</u>	Mid	Change
Mediterranean (PPE page 1617)				
Urals Med CFD (Jul)	AAMDU00	-17.25/-17.23	-17.240	0.000
Urals Med CFD (Aug)	AAMEA00	-17.25/-17.23	-17.240	0.000
Urals Med CFD (Sep)	UMCM003	-17.25/-17.23	-17.240	0.000
Northwest Europe (PPE page 1617)				
Urals NWE CFD (Jul)	UNCM001	-17.77/-17.76	-17.765	0.000
Urals NWE CFD (Aug)	UNCM002	-17.77/-17.76	-17.765	0.000
Urals NWE CFD (Sep)	UNCM003	-17.77/-17.76	-17.765	0.000
Mediterranean (PPE page 1617)				
CPC Blend CFD (Jul)	AAOFX00		-1.800	0.000
CPC Blend CFD (Aug)	AAOFY00		-1.850	0.000
CPC Blend CFD (Sep)	AAOFZ00		-1.700	0.000

### Mediterranean spot crude assessments (\$/barrel)

			Mid	Change	<u>Spr</u>	<u>ead vs fwd Dated Brent</u>	Mid	Change
Azeri and BTC (PGA page 1222)								
Azeri Lt CIF	AAGZX00	80.42-80.46	80.440	+0.850	AAHPM00	3.59/3.61	3.600	+0.100
Azeri Lt FOB Ceyhan Suez	AAUFM00	79.28-79.31	79.295	+0.820	AAUFN00	2.45/2.46	2.455	+0.070
Azeri Lt FOB Ceyhan Afra	AAUFK00	78.91-78.94	78.925	+0.850	AAUFL00	2.08/2.09	2.085	+0.100
Azeri Lt FOB Supsa	AATHM00	77.93-77.96	77.945	+0.850	AATHN00	1.10/1.11	1.105	+0.100
BTC FOB Ceyhan	AAUFH00	79.09-79.13	79.110	+0.835	AAUFJ00	2.26/2.28	2.270	+0.085
Black Sea (PGA page 1220)								
Siberian Light CIF	AAGZW00	61.61-61.65	61.630	+0.755	AAHPK00	-15.25/-15.23	-15.240	0.000
CPC Blend CIF	AAGZU00	74.53-74.56	74.545	+0.850	AAHPL00	-2.30/-2.29	-2.295	+0.100
CPC Blend FOB Suez	AALVX00	71.94-71.98	71.960	+0.850	AALVZ00	-4.89/-4.87	-4.880	+0.100
CPC Blend FOB Afra	AAOFV00	71.16-71.19	71.175	+0.850	AAOFW00	-5.67/-5.66	-5.665	+0.100
Additional War Risk Premium	AWARA00		1.000	0.000				
Middle East & North Africa (PGA pa	age 1234)							
Suez Blend	PCACA00	74.80-74.84	74.820	+0.755	AAGYD00	-2.06/-2.04	-2.050	0.000
Es Sider	PCAC000	76.92-76.96	76.940	+0.850	AAGYH00	0.09/0.11	0.100	+0.100
Kirkuk	AAEJD00	73.85-73.89	73.870	+0.755	AAGYF00	-3.01/-2.99	-3.000	0.000
Iranian Light FOB Kharg Island (Me	d) AILKA00		77.350	+0.745	AILKB00		0.480	-0.010
Iranian Heavy FOB Kharg Island (Me	ed) AIHKA00		75.650	+0.745	AIHKB00		-1.220	-0.010
Saharan Blend	AAGZY00	77.32-77.36	77.340	+0.750	AAHPN00	0.49/0.51	0.500	0.000

sources said.

Another trader said that Pertamina may or may not award the tender depending on the prices offered in the tender.

"Maybe Pertamina is still evaluating whether to push ahead with turnaround or buy if condensates are cheap enough," said the second Singaporebased trader.

"They may not be seriously buying, probably just looking at valuations."

Elsewhere, Indonesia's Ministry of Energy and Mineral Resources set the price for Minas crude in June at \$73.27/b, down 4 cents/b from May, according to the monthly selling price notice seen by S&P Global Commodity Insights July 5.

With the Dated Brent benchmark averaging \$74.70/b in July, Minas' alpha, or differential, for the month was at a discount of \$1.43/b.

For Indonesia's other main grades, the June Indonesian crude price for Banyu Urip crude was 61 cents/b lower on the month at \$79.52/b.

Brunei Shell, meanwhile, lowered the official selling prices of its Seria Light and Champion crudes loaded in May by \$7.79/b from April.

The May OSP for Seria Light was set at \$79.87/b while Champion was set at \$80.27/b, the sources said.

The differential between Seria Light and Champion crude remains at 40 cents/b, where it has been since January. Prior to that, Seria Light was set at 10 cents/b lower than Champion from January 2021 to December 2022.

The May OSP for Seria Light was set at parity to the May OSP for Malaysia's Tapis Blend crude, S&P Global data showed. Seria Light is typically priced at a fixed price differential to Tapis crude.

# Platts Asia Light Sweet Crude Daily Rationale & Exclusions

ESPO FOB Kozmino Mo01 Spore vs Dubai Mo01 <AASEU00> assessment rationale: The ESPO M1

### West African spot crude assessments (\$/barrel) (PGA page 1230)

			Mid	Change	<u>Spread</u>	vs fwd Dated Brent	Mid	Change
WAF Index	AWAFA00		77.030	+0.745	AWAFB00		0.650	+0.275
Nigeria Spot Crude Assessments								
Bonny Light	PCAIC00	76.81-76.85	76.830	+0.770	AAGXL00	0.44/0.46	0.450	+0.300
Qua Iboe	PCAID00	76.86-76.90	76.880	+0.770	AAGXN00	0.49/0.51	0.500	+0.300
Forcados	PCABC00	77.01-77.05	77.030	+0.770	AAGXP00	0.64/0.66	0.650	+0.300
Agbami	AAQZB00	74.01-74.05	74.030	+0.770	AAQZC00	-2.36/-2.34	-2.350	+0.300
Escravos	AAEIZ00	77.46-77.50	77.480	+0.770	AAGXR00	1.09/1.11	1.100	+0.300
Brass River	AAEJB00	75.71-75.75	75.730	+0.770	AAGXV00	-0.66/-0.64	-0.650	+0.300
Akpo	PCNGA00	74.01-74.05	74.030	+0.770	PCNGB00	-2.36/-2.34	-2.350	+0.300
Bonga	PCNGC00	77.36-77.40	77.380	+0.670	PCNGD00	0.99/1.01	1.000	+0.200
Usan	AAXUQ00		72.880	+0.770	AAXUR00		-3.500	+0.300
Erha	AAXU000		77.380	+0.670	AAXUP00		1.000	+0.200
Egina	AFONA00		79.130	+0.770	AFONB00		2.750	+0.300
Angola spot crude assessments (\$	/barrel) (PGA	page 1232)						
Cabinda	PCAFD00	77.21–77.25	77.230	+0.420	AAGXT00	0.84/0.86	0.850	-0.050
Nemba	AAQYZ00	75.31-75.35	75.330	+0.470	AAQZA00	-1.06/-1.04	-1.050	0.000
Dalia	AAQYX00	76.01-76.05	76.030	+0.470	AAQYY00	-0.36/-0.34	-0.350	0.000
Girassol	AASNL00	78.66-78.70	78.680	+0.420	AASJD00	2.29/2.31	2.300	-0.050
Hungo	AASLJ00	75.26-75.30	75.280	+0.470	AASJF00	-1.11/-1.09	-1.100	0.000
Kissanje	AASLK00	76.21-76.25	76.230	+0.470	AASJE00	-0.16/-0.14	-0.150	0.000
Pazflor	PCNGG00	76.01-76.05	76.030	+0.470	PCNGH00	-0.36/-0.34	-0.350	0.000
Plutonio	PCNGI00	74.96-75.00	74.980	+0.470	PCNGJ00	-1.41/-1.39	-1.400	0.000
Ghana spot crude assessments (P	GA page 1230)							
Jubilee	AAXUS00		76.430	+0.570	AAXUT00		0.050	+0.100
Republic of Congo spot crude ass	essments							
Djeno	PCNGE00	74.16-74.20	74.180	+0.470	PCNGF00	-2.21/-2.19	-2.200	0.000
Chad spot crude assessments								
Doba	AAXUU00		73.730	+0.470	AAXUV00		-2.650	0.000

### West Africa market parity prices (\$/barrel) (PGA page 1270)

		iviid Cha	nge Spread vs two	Dated Brent Mid Change
Abo Blend	AAXTL00	76.705 +1.	100 ABOOM00	0.325 +0.630
Aje	APIRP00	76.890 +0.8	820 APIRA00	0.510 +0.350
Amenam Blend	AAXTI00	75.720 +0.0	685 <b>AMENA00</b>	-0.660 +0.215
Antan Blend	APIRQ00	79.045 +0.8	830 APIRB00	2.665 +0.360
Asaramatoru	AAXTV00	76.380 +0.	775 <b>ASARA00</b>	0.000 +0.305
CJ Blend	APIRR00	77.895 +1.3	340 APIRC00	1.515 +0.870
EA Blend	AAXTJ00	77.815 +1.	110 AEABL00	1.435 +0.640
Ebok	APIRS00	73.460 +0.0	055 APIRD00	-2.920 <b>-0.415</b>
Eremor	APIRT00	75.765 <b>-0.</b> 0	645 APIRE00	-0.615 <b>-1.115</b>
Ima	APIRU00	77.690 <b>-0.</b> 0	085 APIRF00	1.310 -0.555
Jones Creek Blend	APIRV00	75.815 <b>-0.</b> 0	045 APIRG00	-0.565 <b>-0.515</b>
Okono Blend	APIRW00	77.575 +0.9	955 APIRH00	1.195 +0.485
Okoro	APIRX00	76.420 +1.	120 APIRI00	0.040 +0.650
Okwori	APIRY00	78.060 +1.3	300 APIRJ00	1.680 +0.830
Otakikpo	APIRZ00	76.030 +0.	750 APIRK00	-0.350 +0.280
Oyo	APRIA00	75.925 +0.4	655 APIRL00	-0.455 +0.185
Pennington	APRIB00	75.340 +1.	170 APIRM00	-1.040 +0.700
Rabi Light	ARABA00	75.065 +0.0	055 <b>ARABB00</b>	-1.315 <b>-0.415</b>
Sankofa	APRIC00	72.895 +0.3	370 APIRN00	-3.485 -0.100

Mid Change

Spreadive find Dated Brent Mid Change

September assessment July 5 took into consideration the latest trade indications heard in the broader market.

Exclusions: No market data was excluded from the Asia Pacific Crude Market on Close assessment process.

# Platts Asia Light Sweet Crude Bids, Offers, Trades

Bids: NIL Offers: NIL Trades: NIL

This assessment commentary applies to the following market data code: ESPO M1 vs Dubai M2 <AASEU00>

# Platts North Sea Crude Daily Market Analysis

- Sweet crude demand picking up within the Atlantic Basin
- OPEC+ cuts to sway crude market soon: Saudi Prince Abdulaziz

There was growing support through the light sweet crude complex with North Sea values showing emergent strength for the first time in several weeks, sources said July 5.

Contrary to earlier expectations, the volume of WTI Midland landing in Europe in June fell month on month, according to Kpler shipping data, by almost 350,000 b/d to just over 1 million b/d, following the record high seen in May.

The downturn will likely have allowed more space for other Europe-focused grades in the market.

Light sweet Ekofisk has continued to see significant advancements in load dates. Parcel C13156 of BP equity was advanced four days to July 24-26 on the day, making it the fifth July-loading cargo — almost half the program — to see load dates advanced by four

### West Africa market parity prices (continued)

		Mid Change	Spread vs fwd Dated Brent	Mid Change
TEN	AAXTW00	74.815 +0.760	ATENM00	-1.565 +0.290
Ukpokiti	APRID00	77.295 +0.925	APIRO00	0.915 +0.455
Yoho Light	AAXTK00	77.855 +0.925	AYOHO00	1.475 +0.455
Zafiro	AAXTU00	79.285 +0.780	AZAFB00	2.905 +0.310

### US West Coast Crude Assessments (\$/barrel) (PGA page 214)

Mid Change

				Sprea	d to NYMEX WTI CMA	Mid	Change
ANS/Long Beach	PCAAD00	77.93-77.97	77.950 +0.840	AAGWX00	6.30/6.32	6.310	-0.040
				Sprea	ad to ICE BRENT CMA		
ANS/Long Beach				AANSA00		1.853	+0.001

### US spot crude assessments (\$/barrel) (PGA pages 210 & 214)

			Mid Change
Mars (Aug)	AAMBR00	73.08-73.10	73.090 +1.080
Mars (Sep)	AAMBU00	72.67-72.69	72.680 +1.400
Mars (Oct)	AAMBX00	72.21-72.23	72.220 +1.400
Mars/WTI (Aug)	AAGWH00	1.29/1.31	1.300 0.000
Mars/WTI (Sep)	AAKTH00	0.79/0.81	0.800 +0.300
Mars/WTI (Oct)	AAMBO00	0.49/0.51	0.500 +0.400
LOOP/WTI (Aug)	AALOM01		1.200 0.000
LOOP/WTI (Sep)	AALOM02		0.700 +0.300
LOOP/WTI (Oct)	AALOM03		0.400 +0.400
LOOP/Mars (Aug)	AALPM01		-0.100 0.000
LOOP/Mars (Sep)	AALPM02		-0.100 0.000
LOOP/Mars (Oct)	AALPM03		-0.100 0.000
WTI-Delta	AAEJK00	-0.05/-0.03	-0.040 +0.010
P-Plus WTI	PCACI00	3.33/3.35	3.340 +0.010
P-5 WTI*	AAFEN00		NA NANA

\*P-5 WTI is a crude oil postings-based index. Posted prices by the following companies are used in the index: ConocoPhillips, Plains, Energy Transfer, Shell, and Valero. The index will not be calculated until all postings are submitted each day. If a posting is submitted the following day the P-5 WTI Average will update in the database

			Mid Change	<u>Spr</u>	ead vs 1st line WTI	Mid	Change
WTI (Midland)	PCACJ00	73.38-73.40	73.390 +1.180	AAGVZ00	1.59/1.61	1.600	+0.100
WTS (1st month)	PCACK00	72.38-72.40	72.390 +1.180	AAGWB00	0.59/0.61	0.600	+0.100
WTI MEH	AAYRG00		73.590 +1.180	AAYRH00		1.800	+0.100
Bonito	PCAIE00	72.93-72.95	72.940 +1.080	AAGWF00	1.14/1.16	1.150	0.000
SGC	AASOI00	73.18-73.20	73.190 +1.080	AASOJ00	1.39/1.41	1.400	0.000
Poseidon	AABHK00	72.58-72.60	72.590 +1.080	AAGWL00	0.79/0.81	0.800	0.000
LLS (1st month)	PCABN00	74.38-74.40	74.390 +1.080	AAGWN00	2.59/2.61	2.600	0.000
HLS (1st month)	PCABD00	73.88-73.90	73.890 +1.080	AAGWP00	2.09/2.11	2.100	0.000
Wyoming Sweet	PCACM00	71.43-71.45	71.440 +1.080	AAGWR00	-0.36/-0.34	-0.350	0.000
Thunder Horse	AAWZK00	74.43-74.45	74.440 +1.080	AAWZL00	2.64/2.66	2.650	0.000

days or more.

In adjacent markets, traders have also noted growing support for light sweet Nigerian barrels in Europe, reflecting fair demand and a downturn in freight costs. Meanwhile, Forties has continued to find July-loading demand in East Asia with Kpler data showing one full VLCC fixed to load July 11.

In OPEC+ news, recent production cuts, led by Saudi Arabia, will soon begin to sway the market as evidence emerges of tightening fundamentals, the kingdom's energy minister said.

Global oil demand is rising, central bankers are working to tame inflation, and OPEC+ output restraint will turn the tide of "exaggerated negativity" that has flooded the market, Prince Abdulaziz bin Salman told the OPEC International Seminar in Vienna.

"You cannot change a negativity that is emanating from let's say 10 million traders," he told industry officials and market participants. "I am very optimistic," the prince said. "People should be in their comfort zone that this market will not be left unattended."

# Platts North Sea Dated Brent, BFOE, CFD Assessment Rationales & Exclusions

### Dated Brent <PCAAS00> assessment rationale:

Of the six grades in the Dated Brent basket Ekofisk and WTI Midland were seen in the Platts Market on Close assessment process. Brent, Oseberg and Troll were assessed unchanged. Brent, Oseberg and Troll were assessed unchanged July 15 to Aug. 4 with flat structures rolled over back-end dates amid steady fundamentals and in the absence of indications testing the July 4 assessments. Ekofisk and Forties were assessed unchanged July 15-Aug. 4 with flat structures rolled over back-end dates amid steady fundamentals and in the absence of indications testing the July 4 assessments. FOB WTI Midland was assessed higher reflecting a higher CIF Rotterdam WTI Midland assessment and lower freight adjustment factor on

### US spot crude assessments (continued)

						Spread vs 2nd lin	e WTI	
WTI MEH (2nd month)	AAXXE00		73.580	+1.150	AAYYA00		1.700	+0.050
WTI Midland (2nd month)	AAYZA00		73.430	+1.250	AAXXF00		1.550	+0.150
WTS (2nd month)	AAURG00	71.82-71.84	71.830	+1.200	AAURH00	-0.06/-0.04	-0.050	+0.100
LLS (2nd month)	AAURC00	74.27-74.29	74.280	+1.150	AAURD00	2.39/2.41	2.400	+0.050
HLS (2nd month)	AAURE00	73.77-73.79	73.780	+1.150	AAURF00	1.89/1.91	1.900	+0.050
					<u>S</u>	pread vs NYMEX W	/TI CMA	
WCS ex-Cushing	AAWTY00	68.47-68.49	68.480	+1.070	AAWTZ00	-3.36/-3.34	-3.350	0.000
WCS ex-Nederland	AAYAY00		69.630	+1.070	AAYAX00		-2.200	0.000
Bakken Williston	AAXPP00		73.030	+1.420	AASRX00		1.200	+0.350
Bakken Guernsey	AASRR00	71.42-71.44	71.430	+1.070	AASRV00	-0.41/-0.39	-0.400	0.000
Bakken Clearbrook	AASRU00	74.67-74.69	74.680	+1.070	AASRW00	2.84/2.86	2.850	0.000
Bakken USGC Pipe	ABAKA00		73.830	+1.170	ABAKB00		2.000	+0.100
		FOB USGC			FOB US	GC Spread vs NYN	MEX WTI Strip	
Platts AGS	AGSAA00		73.750	+1.210	AGSAC00		1.920	+0.100
Bakken	ABAKC00		73.750	+1.210	ABAKD00		1.920	+0.100
Eagle Ford Crude	AAYAT00		72.850	+1.210	AAYAU00		1.020	+0.100
Eagle Ford Condensate	AAYAR00		71.350	+1.210	AAYAS00		-0.480	+0.100
WTI	AAYBA00		73.750	+1.210	AAYAZ00		1.920	+0.100
					WTI FOE	B USGC vs WTI ME	H (by decade)	
WTI FOB USGC First Decade	ADECB00		73.940	NANA	ADECD00		0.350	NANA
WTI FOB USGC Second Decade	ADECE00		73.940	NANA	ADECG00		0.350	NANA
WTI FOB USGC Third Decade	ADECH00		73.940	NANA	ADECJ00		0.350	NANA
WTI FOB USGC Decades Average	ADECA00		73.940	NANA				
	FOB USGO	Spread vs Dated Br	ent Strip		WTI FOB US	GC vs Dated Brent	Basis (by dec	ade)
Platts AGS	AGSAB00		-3.120	-0.220	ADECC00		-2.580	NANA
Bakken	ABAKE00		-3.120	-0.220	ADECF00		-2.580	NANA
Eagle Ford Crude	AEFCA00		-4.020	-0.220	ADECI00		-2.580	NANA
Eagle Ford Condensate	AEFCB00		-5.520	-0.220				
WTI	AWTUA00		-3.120	-0.220				
	Global	Benchmarks at US (	Close		WTI FOB US	SGC vs ICE Brent E	Basis (by deca	de)
Americas Dated Brent	AAQBF00	76.950-76.970	76.960	+2.000	ADECK00		-2.480	NANA
					ADECL00		-2.480	NANA
					ADECM00		-2.480	NANA

the day. CIF WTI Midland was assessed in a 4 cents/b contango structure July 17-31 using a traded bid July 31 to Aug. 2. Aug. 2-5 was assessed in a flat structure. WTI Midland was the most competitive grade in the Dated Brent assessment July 15-26, while Oseberg was the most competitive grade July 27-31 and Brent was the most competitive Aug. 1-5.

# BFOE (PCAAQ00-PCAAR00,PCARR00> assessment rationale:

September Cash BFOE was assessed using a traded bid. October Cash BFOE was assessed using

a September/October EFP roll heard during the day. November Cash BFOE was assessed using an October/ November EFP roll heard during the day.

### CFD (PCAKA00-AALDA00) assessment rationale:

July 10-14 was assessed using a July 10-14 versus July 17-21 CFD roll heard during the day. July 17-21 was assessed using an outstanding bid and offer. July 24-28 was assessed using an outstanding offer. July 31 to Aug. 4 was assessed using a July 31 to Aug. 4 versus July 24-28 CFD roll heard during the day. Aug. 7-11 was assessed using an Aug. 7-11 versus July 31 to Aug. 4 CFD

roll heard during the day.

Johan Sverdrup FOB North Sea (AJSVA00, AJSVB00) assessment rationale:

Johan Sverdrup was assessed unchanged across the 10-day to month-ahead assessment period reflecting steady sour market fundamentals and in the absence of indications testing the July 4 assessment.

Exclusions: None

Platts is part of S&P Global Commodity Insights

# Platts North Sea Dated Brent, BFOE, CFD Bids, Offers, Trades

Bids:

NORTH SEA: TRAFI Bids WTI Midland, CIF Rotterdam, Aug. 03 - Aug. 07, at Dtd 1.20;

MERCURIASA Bids Ekofisk, FOB Teesside, Jul. 28 -

Aug. 03, at Dtd 1.30

CASH BFOE: None

**BRENT CFDS:** 

PLATTS BRENT DIFF: JUL10-JUL14 (SEP):

TRAFIGURA BIDS 100KB AT \$0.15

PLATTS BRENT DIFF: JUL10-JUL14 (SEP):

PETROCHINA BIDS 100KB AT \$0.15

PLATTS BRENT DIFF: JUL10-JUL14 (SEP): DV

TRADING BIDS 100KB AT \$0.15

PLATTS BRENT DIFF: JUL10-JUL14 (SEP):

MERCURIA BIDS 100KB AT \$0.15

PLATTS BRENT DIFF: JUL10-JUL14 (SEP): DARE

BIDS 100KB AT \$0.15

PLATTS BRENT DIFF: JUL10-JUL14 (SEP):

FREEPOINT BIDS 100KB AT \$0.15

PLATTS BRENT DIFF: JUL10-JUL14 (SEP): UNIPEC

BIDS 100KB AT \$0.10

PLATTS BRENT DIFF: JUL10-JUL14 (SEP): MCE BIDS

100KB AT \$0.05

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): EQUINOR

BIDS 100KB AT \$0.25

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): UNIPEC BIDS 100KB AT \$0.25

### US domestic crude assessments London close (\$/barrel) (PGA page 1240)

Spread	to
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				oprodu to	
			Mid Change	NYMEX light sweet crude	Mid Change
WTI (Aug)	AAQAR00	71.83-71.85	71.840 +1.070	AAQAS00 -0.01/0.01	0.000 0.000
WTI (Sep)	AAQAT00	71.93-71.95	71.940 +1.050	AAQAU00 -0.01/0.01	0.000 0.000
WTI (Oct)	AAQAV00	71.77-71.79	71.780 +0.960	AAQAW00 -0.01/0.01	0.000 0.000
				Spread to	
				same-month cash WTI	Mid Change
WTI MEH (Aug)	AAYRZ00		73.590 +1.120	AAYTA00	1.750 +0.050
WTI MEH (Sep)	AAXYD00		73.640 +1.100	AAYWA00	1.700 +0.050
LLS (Aug)	AAQBB00	74.43-74.45	74.440 +1.070	AAQBC00 2.59/2.61	2.600 0.000
LLS (Sep)	AAQBD00	74.33-74.35	74.340 +1.100	AAQBE00 2.39/2.41	2.400 +0.050
MARS (Aug)	AAQAX00	73.13-73.15	73.140 +1.070	AAQAY00 1.29/1.31	1.300 0.000
MARS (Sep)	AAQAZ00	72.23-72.25	72.240 +0.950	AAQBA00 0.29/0.31	0.300 -0.100

### Americas close (\$/barrel) (PGA page 210)

Mid Change

Americas Dated Brent AAQBF00 76.95–76.97 76.960 +2.000

Americas Dated Brent reflects market value for Dated Brent at 2:30pm Eastern Time.

### US crude assessments Singapore close (\$/barrel) (PGA page 2208)

		Mid Change
LOOP Sour (Aug)	AAZDA00	71.640 +0.110
LOOP Sour (Sep)	AAZDB00	70.990 +0.140
LLS (Aug)	AAZDC00	73.040 +0.110
LLS (Sep)	AAZDD00	72.940 +0.140
Southern Green Canyon	AAZDE00	71.840 +0.110
WTI MEH (Aug)	AAZDF00	72.140 +0.110
WTI MEH (Sep)	AAZDG00	72.240 +0.140

### CFR North Asia Assessments Singapore Close (\$/barrel) (PGA page 2202)

		Mid Change
Dubai CFR North Asia	PCAQA00	77.530 +0.255
Oman CFR North Asia	PCAQJ00	77.620 +0.270
Upper Zakum CFR North Asia	PCAQB00	77.480 +0.245
Qatar Marine CFR North Asia	PCAQC00	76.470 +0.270
Murban CFR North Asia	PCAQE00	78.010 +0.320
Basrah Medium CFR North Asia	BASNA00	76.320 +0.270
ESPO CFR North Asia	PCAQD00	69.520 +0.380
Forties CFR North Asia	PCAQF00	79.365 +0.315
Dalia CFR North Asia	PCAQG00	78.180 +0.415
WTI MEH CFR North Asia	PCAQH00	77.460 +0.110
LOOP Sour CFR North Asia	PCAQI00	75.820 +0.110

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): PETROCHINA BIDS 100KB AT \$0.20 PLATTS BRENT DIFF: JUL17-JUL21 (SEP): TRAFIGURA BIDS 100KB AT \$0.20 PLATTS BRENT DIFF: JUL17-JUL21 (SEP):

EXXONMOBIL BIDS 100KB AT \$0.20

PLATTS BRENT DIFF: JUL17-JUL21 (SEP):

FREEPOINT BIDS 100KB AT \$0.20

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): DV TRADING BIDS 100KB AT \$0.10

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): DARE BIDS 100KB AT \$0.00

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): MCE BIDS 100KB AT \$-0.05

PLATTS BRENT DIFF: JUL24-JUL28 (SEP):

MERCURIA BIDS 100KB AT \$0.10

PLATTS BRENT DIFF: JUL24-JUL28 (SEP):

TRAFIGURA BIDS 100KB AT \$0.10

PLATTS BRENT DIFF: JUL24-JUL28 (SEP):

EXXONMOBIL BIDS 100KB AT \$0.10

PLATTS BRENT DIFF: JUL24-JUL28 (SEP): UNIPEC BIDS 100KB AT \$0.10

PLATTS BRENT DIFF: JUL24-JUL28 (SEP):

FREEPOINT BIDS 100KB AT \$0.10

PLATTS BRENT DIFF: JUL24-JUL28 (SEP): ONYX BIDS 100KB AT \$0.05

PLATTS BRENT DIFF: JUL24-JUL28 (SEP): DV TRADING BIDS 100KB AT \$0.05

PLATTS BRENT DIFF: JUL24-JUL28 (SEP): DARE BIDS 100KB AT \$0.00

PLATTS BRENT DIFF: JUL24-JUL28 (SEP): MCE BIDS 100KB AT \$-0.05

PLATTS BRENT DIFF: AUG7-AUG11 (OCT): DV TRADING BIDS 100KB AT \$0.05

PLATTS BRENT DIFF: AUG7-AUG11 (OCT): DARE BIDS 100KB AT \$0.00

PLATTS BRENT DIFF: JUL31-AUG4 (OCT): DV TRADING BIDS 100KB AT \$0.15

PLATTS BRENT DIFF: JUL31-AUG4 (OCT): DARE BIDS 100KB AT \$0.15

### Canadian spot crude cargo assessments (\$/barrel) (PGA page 230)

			Mid Change	Spread vs fwd Dated Brent	Mid Change
Hebron	AHEBA00		76.355 +1.110	AHEBC00	0.000 +0.050
Terra Nova	AAJUH00	76.44-76.47	76.455 +1.110	AAJUJ00 0.09/0.11	0.100 +0.050
Hibernia	AAJKK00	76.84-76.87	76.855 +1.110	AAJKM00 0.49/0.51	0.500 +0.050
White Rose	AAVJX00	77.49-77.52	77.505 +1.110	AAVJY00 1.14/1.16	1.150 +0.050

The published spreads for Canadian cargo assessments reflect the market value at which these grades are trading versus Dated Brent around loading time. The spreads and fixed price assessments reflect a typical forward loading window of 33-63 days forward. For further explanation see www.platts.com.

### Canadian spot crude assessments (\$/barrel) (PGA page 230)

			Mid	Change	Sp	read vs Canada basis	Mid	Change
Lloyd Blend	AALRK00	62.32-62.34	62.330	+2.320	AALRP00	-9.51/-9.49	-9.500	+1.250
Mixed Sweet	AALRR00	70.97-70.99	70.980	+0.720	AALRV00	-0.86/-0.84	-0.850	-0.350
Light Sour Blend	AALRX00	69.12-69.14	69.130	+0.920	AALSD00	-2.71/-2.69	-2.700	-0.150
Midale	AAUCC00	67.02-67.04	67.030	+0.920	AAUCE00	-4.81/-4.79	-4.800	-0.150
Condensates	AALSF00	66.92-66.94	66.930	+0.870	AALSJ00	-4.91/-4.89	-4.900	-0.200
Syncrude Sweet Prem.	AASOK00	75.57-75.59	75.580	-0.230	AASOM00	3.74/3.76	3.750	-1.300
WCS Hardisty	AAPPN00	61.62-61.64	61.630	+2.320	AAPPP00	-10.21/-10.19	-10.200	+1.250
Cold Lake Hardisty	AASZX00	61.47-61.49	61.480	+2.320	AASZZ00	-10.36/-10.34	-10.350	+1.250
WTI CMA (1st mo)	AAVSN00		71.830	+1.070				

### Latin American assessments (\$/barrel) (PGA page 280)

				D	iff to	Diff to	5 Futures	Diff t	o Dated
		Mid	Change	WT	l strip	Bre	nt strip	Brer	nt strip
PCAGC00	74.46-74.50	74.480	+1.110	PCAG000	2.645	AAXBS00	-1.900	AAXAX00	-2.000
AMTOA00		71.480	+1.110	AMTOC00	-0.355	AMTOB00	-4.900	AMTOD00	-5.000
AAITD00	74.36-74.41	74.385	+1.070	AAITJ00	2.550	AAXBU00	-1.995	AAXAZ00	-2.095
PCAGH00	64.96-65.01	64.985	+1.070	PCAGQ00	-6.850	AAXBV00	-11.395	AAXBG00	-11.495
PCADE00	65.86-65.91	65.885	+1.070	PCAGU00	-5.950	AAXBW00	-10.495	AAXBH00	-10.595
AAMCA00	63.86-63.91	63.885	+1.070	AAMCD00	-7.950	AAXBX00	-12.495	AAXBI00	-12.595
ATUPA00		76.530	+1.010	ATUPC00	4.695	ATUPB00	0.150	ATUPD00	0.050
AAITF00	71.06-71.10	71.080	+1.110	AAITL00	-0.755	AAXBY00	-5.300	AAXBJ00	-5.400
AAVEQ00	68.21-68.25	68.230	+1.110	AAVEQ01	-3.605	AAXBZ00	-8.150	AAXBK00	-8.250
PCAGI00	72.21-72.25	72.230	+1.110	PCAGR00	0.395	AAXCB00	-4.150	AAXBN00	-4.250
AAITB00	73.26-73.30	73.280	+1.060	AAITH00	1.445	AAXCC00	-3.100	AAXB000	-3.200
ALIZA00		76.730	+1.260	ALIZD00	4.895	ALIZC00	0.350	ALIZB00	0.250
AAXBP00		71.835							
AAXBQ00		76.380							
AAXBR00		76.480							
	AMTOA00 AAITD00 PCAGH00 PCAGH00 AAMCA00 ATUPA00 AAITF00 AAVEQ00 PCAGI00 AAITB00 AAITB00 AAXBP00 AAXBP00 AAXBQ00	AMTOA00 AAITD00 74.36-74.41 PCAGH00 64.96-65.01 PCADE00 65.86-65.91 AAMCA00 63.86-63.91 ATUPA00 AAITF00 71.06-71.10 AAVEQ00 68.21-68.25 PCAGI00 72.21-72.25 AAITB00 73.26-73.30 ALIZA00 AAXBP00 AAXBQ00	PCAGC00         74.46-74.50         74.480           AMT0A00         71.480           AALTD00         74.36-74.41         74.385           PCAGH00         64.96-65.01         64.985           PCADE00         65.86-65.91         65.885           AANCA00         63.86-63.91         63.885           ATUPA00         76.530           AAITF00         71.06-71.10         71.080           AAVEQ00         68.21-68.25         68.230           PCAGI00         72.21-72.25         72.230           AAITB00         73.26-73.30         73.280           ALIZA00         76.730           AAXBP00         76.380	PCAGC00 74.46-74.50 74.480 +1.110  AMTOA00 71.480 +1.110  AAITD00 74.36-74.41 74.385 +1.070  PCAGH00 64.96-65.01 64.985 +1.070  PCADE00 65.86-65.91 65.885 +1.070  AMCA00 63.86-63.91 63.885 +1.070  ATUPA00 76.530 +1.010  AAITF00 71.06-71.10 71.080 +1.110  AAVEQ00 68.21-68.25 68.230 +1.110  PCAGI00 72.21-72.25 72.230 +1.110  AAITB00 73.26-73.30 73.280 +1.060  ALIZA00 76.730 +1.260  AAXBP00 71.835  AAXBQ00 76.380	Mid Change   WT	PCAGC00 74.46-74.50 74.480 +1.110 PCAGO00 2.645  AMTOA00 71.480 +1.110 AMTOC00 -0.355  AAITD00 74.36-74.41 74.385 +1.070 AAITJ00 2.550  PCAGH00 64.96-65.01 64.985 +1.070 PCAGG000 -6.850  PCADE00 65.86-65.91 65.885 +1.070 PCAGG000 -5.950  AAMCA00 63.86-63.91 63.885 +1.070 AAMCD00 -7.950  ATUPA00 76.530 +1.010 ATUPC00 4.695  AAITF00 71.06-71.10 71.080 +1.110 AAITL00 -0.755  AAVEQ00 68.21-68.25 68.230 +1.110 AAVEQ01 -3.605  PCAGI00 72.21-72.25 72.230 +1.110 PCAGR00 0.395  AAITB00 73.26-73.30 73.280 +1.060 AAITH00 1.445  ALIZA00 76.730 +1.260 ALIZD00 4.895  AAXBP00 71.835  AAXBQ00 76.380	PCAGC00         74.46-74.50         74.480         +1.110         PCAGC00         2.645         AAXBS00           AMTOA00         74.46-74.50         74.480         +1.110         AMTOC00         -0.355         AMTOB00           AAITD00         74.36-74.41         74.385         +1.070         AAITJ00         2.550         AAXBU00           PCAGH00         64.96-65.01         64.985         +1.070         PCAGU00         -6.850         AAXBU00           PCADE00         65.86-65.91         65.885         +1.070         PCAGU00         -5.950         AAXBW00           AAMCA00         63.86-63.91         63.885         +1.070         AAMCD00         -7.950         AAXBW00           AITUPA00         71.06-71.10         71.080         +1.010         ATUPC00         4.695         ATUPB00           AAVEQ00         68.21-68.25         68.230         +1.110         AAVEQ01         -3.605         AAXB200           PCAGI00         72.21-72.25         72.230         +1.110         AAVEQ00         0.395         AAXC000           ALIZA00         73.26-73.30         73.280         +1.060         AAITH00         1.445         AAXC000           AAXBP00         71.835         71.835         -1.	PCAGC00         74.46-74.50         74.480         +1.110         PCAGC00         2.645         AAXBS00         -1.900           AMTOA00         74.46-74.50         74.480         +1.110         AMTOC00         -0.355         AMTOB00         -4.900           AAITD00         74.36-74.41         74.385         +1.070         AAITJ00         2.550         AAXBU00         -1.995           PCAGH00         64.96-65.01         64.985         +1.070         PCAGU00         -6.850         AAXBW00         -1.995           PCADE00         65.86-65.91         65.885         +1.070         PCAGU00         -5.950         AAXBW00         -10.495           AAMCA00         63.86-63.91         63.885         +1.070         PCAGU00         -7.950         AAXBW00         -12.495           ATUPA00         70.530         +1.010         ATUPC00         4.695         ATUPB00         0.150           AAITF00         71.06-71.10         71.080         +1.110         AAITL00         -0.755         AAXBV00         -5.300           AAVEQ00         68.21-68.25         68.230         +1.110         AAVEQ01         -3.605         AAXC800         -8.150           PCAGI00         72.21-72.25         72.230         +1.1	PCAGC00         74.46-74.50         74.480         +1.110         PCAGC00         2.645         AAXBS00         -1.900         AAXAX00           AMTOA00         74.46-74.50         74.480         +1.110         AMTOC00         -0.355         AMTOB00         -4.900         AMTOD00           AAITD00         74.36-74.41         74.385         +1.070         AAITJ00         2.550         AAXBU00         -1.995         AAXAZ00           PCAGH00         64.96-65.01         64.985         +1.070         PCAGU00         -6.850         AAXBU00         -11.395         AAXBG00           PCADE00         65.86-65.91         65.885         +1.070         PCAGU00         -6.850         AAXBW00         -11.395         AAXBG00           AAMC00         63.86-63.91         63.885         +1.070         PCAGU00         -7.950         AAXBW00         -12.495         AAXBH00           ATUPA00         76.530         +1.010         ATUPC00         4.695         ATUPB00         0.150         ATUPD00           AAVEQ00         68.21-68.25         68.230         +1.110         AAVEQ01         -3.605         AAXB200         -5.300         AAXB800           PCAGI00         72.21-72.25         72.230         +1.10

### Latin America market parity prices (\$/barrel) (PGA page 270)

		Mid Change	
Maya	AAYMP00	68.345 +1.050	
Merey 16	AMERA00	67.340 +1.254	

### Platts euro-denominated assessments (€/barrel) (PGA page 1252)

Mid Change

European crude oil benchmarks			
Dated Brent	AAPYR00	70.680-70.690	70.684 +0.957
Dated Brent (CIF)	PCAKN00		71.687 +0.979
Urals (Mediterranean)	AAPYS00	54.820-54.860	54.842 +0.823
US crude oil benchmarks			
WTI (Aug)	AAPYT00	66.060-66.080	66.072 +1.223
WTI MEH (Aug)	AAYSA00		67.681 +1.274
Mars (Aug)	AAPYU00	67.260-67.280	67.268 +1.227

Euro/US\$ forex rate: 1.0873. Platts Euro denominated crude oil assessments are based on market values and a Euro/US\$ forex rate at 4:30 PM local London time.

PLATTS BRENT DIFF: JUL31-AUG4 (OCT): UNIPEC BIDS 100KB AT \$0.15

PLATTS BRENT DIFF: JUL31-AUG4 (OCT): ONYX BIDS 100KB AT \$0.10

PLATTS BRENT DIFF: JUL31-AUG4 (OCT):

MERCURIA BIDS 100KB AT \$0.10

Offers:

NORTH SEA: None

CASH BFOE: PLATTS CASH BFOE: SEP23:

PETROINEOS OFFERS 100KB AT \$76.70

BRENT CFDS: PLATTS BRENT DIFF: JUL10-JUL14

(SEP): DV TRADING OFFERS 100KB AT \$0.60

PLATTS BRENT DIFF: JUL10-JUL14 (SEP): DARE

OFFERS 100KB AT \$0.60

PLATTS BRENT DIFF: JUL10-JUL14 (SEP): MCE

OFFERS 100KB AT \$0.80

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): DARE OFFERS 100KB AT \$0.27

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): ONYX

OFFERS 100KB AT \$0.85 PLATTS BRENT DIFF: JUL17-JUL21 (SEP): MCE

OFFERS 100KB AT \$0.85

PLATTS BRENT DIFF: JUL24-JUL28 (SEP): GUNVOR OFFERS 100KB AT \$0.18

PLATTS BRENT DIFF: JUL24-JUL28 (SEP): DV TRADING OFFERS 100KB AT \$0.18

PLATTS BRENT DIFF: JUL24-JUL28 (SEP): DARE OFFERS 100KB AT \$0.20

PLATTS BRENT DIFF: JUL24-JUL28 (SEP):

PETROCHINA OFFERS 100KB AT \$0.25

PLATTS BRENT DIFF: JUL24-JUL28 (SEP): ONYX OFFERS 100KB AT \$0.50

PLATTS BRENT DIFF: JUL24-JUL28 (SEP): MCE OFFERS 100KB AT \$0.50

PLATTS BRENT DIFF: AUG7-AUG11 (OCT): DV

TRADING OFFERS 100KB AT \$0.30

PLATTS BRENT DIFF: AUG7-AUG11 (OCT): DARE OFFERS 100KB AT \$0.40

PLATTS BRENT DIFF: JUL31-AUG4 (OCT): DV TRADING OFFERS 100KB AT \$0.35

### Ruble-denominated Russian assessments (Rb/barrel) (PGA page 1224)

			Mid	Change	
Russian crude oil benchmarks					
Urals FOB Novorossiysk	AAUJP00	5143.500-5147.120	5145.313	+94.963	
Urals FOB Baltic	AAUJQ00	5143.500-5147.120	5145.313	+94.963	
Urals FOB Novorossiysk 80kt	AAUJR00	5062.080-5065.700	5063.886	+94.536	
Urals CIF Mediterranean	AAUJS00	5393.210-5396.830	5395.024	+96.274	
Urals CIF Rotterdam	AAUJT00	5351.600-5355.220	5353.406	+101.906	

US\$/Ruble forex rate: 90.4750. Platts Ruble denominated crude oil assessments are based on market values and a US\$/Ruble forex rate at 4:30 PM local London

### Platts CAD-denominated Canada spot crude assessments (C\$/cu m) (PGA page 232)

			iviid	Change
Lloyd Blend	AALRM00	520.693-520.860	520.777	+21.242
Mixed Sweet	AALRT00	592.965-593.132	593.049	+8.191
Light Sour Blend	AALRZ00	577.508-577.675	577.592	+9.799
Midale	AAUCD00	559.962-560.130	560.046	+9.734
Condensates	AALSH00	559.127-559.294	559.210	+9.314
Syncrude Sweet	AASOL00	631.399-631.566	631.483	+0.426
WCS Hardisty	AAPP000	514.845-515.012	514.928	+21.220
Cold Lake Hardisty	AASZY00	513.591-513.758	513.675	+21.216

### Daily US\$ vs EURO exchange rate (PGA page 1151)

		Mid	Change
July 5, 2023	AAFCW00	1.0873	-0.003

### Asia close Brent and WTI spot assessments (\$/barrel) (PGA page 2210)

			Mid	Change
Brent (Sep)	PCAJG00	75.42-75.46	75.440	+0.130
Brent (Oct)	PCAJI00	75.23-75.27	75.250	+0.120
Brent (Nov)	PCAJ000		74.980	+0.130
WTI (Aug)	AAFFU00	70.42-70.46	70.440	+0.110
WTI (Sep)	AAFFW00	70.57-70.61	70.590	+0.140
WTI (Oct)	AAFFY00	70.47-70.51	70.490	+0.160

### Oman OSPs and derivatives (\$/barrel) (PGA pages 2658 & 2210)

			iviiu	Change
Oman/Dubai Swap (Aug)	AAIHJ00	0.08/0.12	0.100	+0.020
Oman/Dubai Swap (Sep)	AAIHL00	0.08/0.12	0.100	+0.020
Oman/Dubai Swap (Oct)	AAIHN00	0.08/0.12	0.100	+0.020
Oman Swap (Aug)	AAHZP00	75.00-75.04	75.020	+0.250
Oman Swap (Sep)	AAHZR00	74.43-74.47	74.450	+0.240
Oman Swap (Oct)	AAHZT00	73.96-74.00	73.980	+0.240

### Daily OPEC Basket Price (\$/barrel) (PGA page 207)

		Mid	Change
July 4, 2023	AAEUQ00	76.180	+0.060

PLATTS BRENT DIFF: JUL31-AUG4 (OCT): ONYX OFFERS 100KB AT \$0.40

PLATTS BRENT DIFF: JUL31-AUG4 (OCT): PETROCHINA OFFERS 100KB AT \$0.40

PLATTS BRENT DIFF: JUL31-AUG4 (OCT): DARE OFFERS 100KB AT \$0.40

Trades:

NORTH SEA: VITOL-GLENCOREUK\* WTI Midland, CIF Rotterdam, Jul. 30 - Aug. 03, at Dtd 1.30, [15:25:18] CASH BFOE: PLATTS CASH BFOE: SEP23: VITOL SELLS TO MERCURIA\* 100KB AT \$76.69 (15:29:37) PLATTS CASH BFOE: SEP23: MERCURIA BUYS FROM PETROINEOS\* 100KB AT \$76.70 (15:29:50) BRENT CFDS: PLATTS BRENT DIFF: JUL17-JUL21 (SEP): DARE SELLS TO EQUINOR\* 100KB AT \$0.25 (15:29:10)

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): EQUINOR BUYS FROM DARE\* 100KB AT \$0.25 (15:29:17)
PLATTS BRENT DIFF: JUL17-JUL21 (SEP): TOTAL BUYS FROM DARE\* 100KB AT \$0.25 (15:29:21)
PLATTS BRENT DIFF: JUL17-JUL21 (SEP): TOTAL BUYS FROM DV TRADING\* 100KB AT \$0.25 (15:29:24)
PLATTS BRENT DIFF: JUL17-JUL21 (SEP):
PETROCHINA BUYS FROM DARE\* 100KB AT \$0.25 (15:29:27)

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): UNIPEC BUYS FROM DV TRADING\* 100KB AT \$0.25 (15:29:33) PLATTS BRENT DIFF: JUL17-JUL21 (SEP): MERCURIA BUYS FROM DV TRADING\* 100KB AT \$0.25 (15:29:41)

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): TRAFIGURA BUYS FROM GUNVOR\* 100KB AT \$0.25 (15:29:44)

PLATTS BRENT DIFF: JUL17-JUL21 (SEP): DV TRADING SELLS TO MERCURIA\* 100KB AT \$0.25 (15:29:52)

This assessment commentary applies to the following market data codes: Dated Brent <PCAAS00> CFD Week 1 <PCAKA00> CFD Week 2 <PCAKC00> Brent Mo01 <PCAAQ00> CFD Week 3 <PCAKE00> Brent

### **Futures Settlements**

	ements	ettlement	Changa	Low	∐iah	Volume*	Open interest		NT***
NIVMEY Light Owner			Change	LOW	High	volume*	Open interest	ı	-IN I ~ ~ ~ ~
NYMEX Light Sweet		71.79	+2.00	69.90	72.17	426323	314808		
Aug 23 Sep 23	NMCL001 NMCL002	71.79	+1.97	70.03	72.17	192738	306545		
Oct 23	NMCL002	71.72	+1.97	69.93	72.25	84001	171255		
Nov 23	NMCL003	71.72	+1.88	69.79	71.82	41909	86384		
Total	NMCL004	71.50	+1.00	03.73	71.02	953832	00304	XNCLP00	6666
CE Brent (\$/barrel)		)				300002		ANGEI 00	0000
Sep 23	ICLL001	76.65	+0.40	75.30	76.95	327494	526879		
Oct 23	ICLL001	76.41	+0.36	75.30	76.70	158840	345440		
Nov 23	ICLL002	76.09	+0.32	74.87	76.38	77801	197962		
Dec 23	ICLL003	75.78	+0.30	74.58	76.06	120418	296090		
otal	ICLL000	7 0.7 0	10.00	7 4.00	70.00	842653	200000	XILLP00	30142
CE WTI (\$/barrel) (PC						0.2000		XILL. 00	00112
Aug 23	ICIC001	71.79	+0.35	70.39	72.17	53453	70582		
Sep 23	ICIC001	71.88	+0.57	70.55	72.17	72859	99090		
Oct 23	ICIC003	71.72	+0.62	70.46	72.08	48899	54280		
Nov 23	ICIC004	71.50	+0.63	70.30	71.81	26367	28888		
Total	ICIC000					244418		XIICP00	9470
CE BWAVE (\$/barrel		)4)							
BWAVE data refer to		,							
Sep 23	XIBW001	75.71							
Oct 23	XIBW002	75.40							
OME Oman crude (\$/			2710)						
Sep 23	XDOA001	75.52	+0.25			3942			
Sep 23	DMOQ001	76.88	+1.82	75.20	76.88	3980	1181		
Oct 23	DMOQ002	76.41	+1.55	74.83	76.41	2453	7		
Nov 23	DMOQ003	75.96	+1.55	75.96	75.96	2443	0		
Dec 23	DMOQ004	75.56	+1.55	75.56	75.56	0	0		
Total Volume	DMOQ000					529		XD0QP00	1435
FAD Murban crude (	\$/barrel) (PG/	A page 703)							
Sep 23	AMIFA00	76.010							
Murban vs Dubai***	AMIFB00	1.660							
NYMEX ULSD (\$/gal)	(PGA page 705	5)							
Aug 23	NMH0001	2.4933	+0.1160	2.3850	2.5053	55898	70527		
Sep 23	NMH0002	2.4827	+0.1076	2.3832	2.4951	46045	46998		
Oct 23	NMH0003	2.4758	+0.1017	2.3834	2.4873	22724	38942		
Nov 23	NMH0004	2.4669	+0.0963	2.3907	2.4764	14917	27748		
Total	NMHO000					173535		XNHOP00	4642
NYMEX RBOB unlead	ded gasoline (	( <b>\$/gal)</b> (PGA p	age 705)						
Aug 23	NMRB001	2.5183	+0.0559	2.4736	2.5574	47378	92192		
Sep 23	NMRB002	2.4461	+0.0550	2.4022	2.4776	48280	79910		
Oct 23	NMRB003	2.2184	+0.0573	2.1724	2.2372	22066	48410		
lov 23	NMRB004	2.1595	+0.0548	2.1200	2.1722	13806	25307		
otal Volume	NMRB000					153486		XNRBP00	7281
IYMEX Natural Gas	(\$/MMBtu) (P	GA page 705)							
ug 23	NMNG001	2.657	-0.052	2.648	2.793	118265	168170		
Sep 23	NMNG002	2.643	-0.059	2.630	2.780	50452	283070		
Oct 23	NMNG003	2.730	-0.054	2.716	2.856	32837	112121		
Nov 23	NMNG004	3.129	-0.040	3.114	3.237	17637	87811		
Total Volume	NMNG000					263037		XNNGP00	3262

Mo02 <PCAAR00> CFD Week 4 <PCAKG00> Brent Mo03 <PCARR00> CFD Week 5 <AAGLU00> CFD Week 6 <AAGLV00> CFD Week 7 <AALCZ00> CFD Week 8 <AALDA00> Johan Sverdrup FOB North Sea <AJSVA00> Johan Sverdrup FOB North Sea vs North Sea Dtd Strip <AJSVB00>

### Platts WTI Midland Crude DAP Europe Assessment Rationale & Exclusions

WTI Crude DAP Europe <AWTIC00> assessment rationale:

WTI DAP Rotterdam was assessed 15 cents/b higher from July 25 to Sept. 2, with a 0.5 cent/day contango structure rolled over back-end dates owing to strength seen in the European delivered sweet market.

# WTI Crude DAP Augusta <AWTIA00> assessment rationale:

WTI DAP Augusta was assessed higher owing to the strengthening in the DAP Rotterdam differential. There were no bids, offers or trades in the Platts Market on Close assessment process.

Exclusions: None

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### Futures Settlements (continued)

	;	Settlement	Change	Low	High	Volume*	Open interest	PNT***					
ICE low sulfur gas	E low sulfur gasoil (\$/mt) (PGA page 704)												
Jul 23	ICL0001	739.00	+21.25	713.25	740.75	38889	52761						
Aug 23	ICL0002	720.50	+12.50	703.00	723.25	109183	147896						
Sep 23	ICL0003	715.75	+10.75	699.75	718.50	62522	91136						
Oct 23	ICL0004	714.00	+10.00	698.75	716.50	29336	85367						
Total Volume	ICL0000					323115		XILOP00	3214				
CE Midland WTI	American Gulf (	Coast (\$/barre	l) (PGA page 70	4)									
Aug 23	IHOU001	73.59	+0.47	72.21	73.87	10642	7466						
Sep 23	IHOU002	73.58	+0.43	72.22	73.86	3663	4846						
Oct 23	IHOU003	73.42	+0.41	72.11	73.60	1785	4289						
Nov 23	IHOU004	73.16	+0.34	73.16	73.16	204	4073						

<sup>\*</sup>Volume, open interest and PNT reflect prior trading day. PNT reflect volume for Privately Negotiated Trades or off-exchange. \*\*Oman settlements are Post Close settlements. \*\*\*IFAD Murban spread to 1st Line (Sep 23) Platts Dubai crude futures. \*\*\*\*Privately Negotiated Trade values found on PGA page 710

### Futures at Platts' Market on Close (\$/barrel) (PGA page 703)

	Singap	ore*	Lond	on*	Houston*		
ICE Brent							
Sep	XILLA01	75.42	AAYES00	76.56	AAQBG00	76.66	
Oct	XILLA02	75.23	AAYET00	76.33	AAQBH00	76.42	
Nov			AAXZY00	76.03	AAXZZ00	76.11	
Dec			AAYAM00	75.73	AAYAL00	75.80	
Oman							
Sep	XD0A001	75.52					
Volume	XDOAV01	3942					

Singapore*			Lond	on*	Houston*		
NYMEX	WTI						
M1	XNCLA01	70.44	AASCR00	71.84	NYCRM01	71.79	
M2	XNCLA02	70.59	AASCS00	71.94	NYCRM02	71.89	
M3					NYCRM03	71.73	
M4					NYCRM04	71.51	

\*Singapore and London MOC close at precisely 16:30 local time while Houston MOC closes at precisely 13:30 local time. MOC times are usually earlier on the day preceding major local holidays.

### **Platts**

S&P Global Commodity Insights

### Crude Oil Marketwire

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### Reported spot cash transactions (PGA page 3)

Trans. Date	Cargo / Spread Dates	Cargo Range CFD W	/	CFD Roll Week	Crude Grade(s)	Reported Status	Outright / Diff. Price (\$/barrel)	Basis	Barrels	Seller	Buyer
Platts Amer	icas										
07/05/2023	August				Bakken Williston (DAPL)	Heard	1.20	NYMEX WTI CMA			
07/05/2023	August				C5 Fort Saskatchewan	Heard	-4.90	NYMEX WTI CMA			
07/05/2023	August				C5 Fort Saskatchewan	Heard	-4.95	NYMEX WTI CMA			
07/05/2023	August				HLS	Heard	2.15	Cash WTI			
07/05/2023	August				LLS	Heard	2.50	Cash WTI			
07/05/2023	August				Mars	Heard	1.40	Cash WTI			
07/05/2023	August				Mixed Sweet (MSW) Edmonton	Heard	-0.85	NYMEX WTI CMA			
07/05/2023	August				Poseidon	Heard	1.10	Cash WTI			
07/05/2023	August				Synthetic Sweet Blend (SYN) Edmonton	Heard	3.75	NYMEX WTI CMA			
07/05/2023	August				Thunder Horse	Heard	3.00	Cash WTI			
07/05/2023	August				WCS Hardisty	Heard	-10.20	NYMEX WTI CMA			
07/05/2023	August				WTI MEH	Heard	1.80	Cash WTI			
Platts Asia											
7/5/2023	September				Dubai Partial	Done	75.40		25,000	PetroChina	Equinor
7/5/2023	September				Dubai Partial	Done	75.43		25,000	ExxonMobil	Equinor
7/5/2023	September				Dubai Partial	Done	75.35		25,000	Trafigura	Equinor
7/5/2023	September				Dubai Partial	Done	75.43		25,000	Reliance	Shell
7/5/2023	September				Dubai Partial	Done	75.40		25,000	Reliance	Gunvor
7/5/2023	September				Dubai Partial	Done	75.43		25,000	Reliance	Shell
7/5/2023	September				Dubai Partial	Done	75.40		25,000	PetroChina	Equinor
7/5/2023	September				Dubai Partial	Done	75.40		25,000	PetroChina	Gunvor
7/5/2023	September	24	27		Murban	Heard	4.99	OSP	700,000	BB Energy	Ceypetco
Platts EMEA	4										
07/05/2023	July	17	21		Brent CFD	Done	0.25	Cash BF0E Sep	100000	Gunvor	Trafigura
07/05/2023	July	17	21		Brent CFD	Done	0.25	Cash BF0E Sep	100000	DV Trading	TotalEnergies
07/05/2023	July	17	21		Brent CFD	Done	0.25	Cash BF0E Sep	100000	Dare Global	PetroChina
07/05/2023	July	17	21		Brent CFD	Done	0.25	Cash BFOE Sep	100000	DV Trading	Mercuria
07/05/2023	July	17	21		Brent CFD	Done	0.25	Cash BFOE Sep	100000	DV Trading	Mercuria
07/05/2023	July	17	21		Brent CFD	Done	0.25	Cash BFOE Sep	100000	Dare Global	TotalEnergies
07/05/2023	July	17	21		Brent CFD	Done	0.25	Cash BFOE Sep	100000	DV Trading	Unipec
07/05/2023	July	17	21		Brent CFD	Done	0.25	Cash BFOE Sep	100000	Dare Global	Equinor
07/05/2023	July	17	21		Brent CFD	Done	0.25	Cash BFOE Sep	100000	Dare Global	Equinor
07/05/2023	September				Cash BF0E	Done	76.69		100000	Vitol	Mercuria
07/05/2023	September				Cash BF0E	Done	76.7		100000	Petrolneos	Mercuria
07/05/2023	July/August	30	3		WTI Midland	Done	1.3	Dated Brent	700000	Vitol	Glencore

Please note that all deals that are stated as "Done" were reported and published through the Platts Market on Close assessment process. Deals that are stated as "Reported" were not reported through the MOC, and may reflect transactions that were reported before or after the MOC process. Platts seeks to confirm non-MOC information to the fullest extent possible prior to publication.

# Platts WTI Midland Crude DAP Europe Bids, Offers, Trades

Bids: None Offers: None Trades: None

This assessment commentary applies to the following market data codes: WTI Midland DAP basis Rotterdam <AWTIC00> WTI Midland DAP basis Rotterdam vs Fwd Dated Brent <AWTID00> WTI Midland DAP basis Augusta <AWTIA00> WTI Midland DAP basis Augusta vs Fwd Dated Brent <AWTIB00>

# Platts Mediterranean & Black Sea Sweet Crude Daily Commentary

- Intake into CPC pipeline resumes after power issues
- Kazakh oil output down 20% on July 4: ministry
  The operator of Kazakhstan's main crude export
  pipeline, the Caspian Pipeline Consortium, said July 5
  that intake of crude oil into its system had resumed
  after power issues affecting the west of the country
  disrupted operation of pipeline pumping stations.

Separately, the operator of Kazakhstan's largest crude oil producer, the Chevron-led Tengizchevroil consortium, said its production continued as normal and had not been affected.

Earlier, the Caspian Pipeline Consortium said three of its pumping stations in western Kazakhstan had suffered power outages, including the pumping station at the start of the route at the Tengiz field, normally the largest source for CPC Blend crude.

The consortium said that "after stabilization of the voltage in the external electricity supply" the Atyrau and Tengiz pumping stations had been reactivated and "reception of crude oil from suppliers has resumed."

Tengizchevroil, meanwhile, said: "Tengizchevroil is aware of the power outage that occurred in the Western Region of Kazakhstan. TCO's production operations were not interrupted by the power outage

and all of its production units at Tengiz are currently operating in normal mode."

The CPC route provides around 1.5 million b/d of mainly Kazakh CPC Blend crude, accounting for the bulk of Kazakh oil exports.

CPC Blend, which is light and relatively sweet, typically trades at a modest discount to the North Sea Dated Brent benchmark.

Platts, part of S&P Global Commodity Insights, assessed CPC Blend at a \$2.40/b discount to Dated Brent on July 4, unchanged on the day.

Kazakhstan has been grappling with a major power outage in the west of the country, home to much of its oil and gas industry, after the emergency shutdown of a 130-MW unit at the MAEK thermal power plant earlier in July.

Production statistics for July 4 provided by Kazakhstan's energy ministry continued to show a drop in the country's oil production of around 20% from levels prior to the disruption, up from a reduction of 13% on July 3.

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# Platts NWE and Med Urals Sour Crude Daily Market Analysis

- Kazakhstan to ship 250,000 mt KEBCO to Germany via Russia
- Russia's lower exports "more meaningful" than output cuts: Saudi minister

Russian pipeline operator Transneft expects to ship 250,000 mt of KEBCO — Kazakhstan Export Blend Crude Oil, and a sour grade — from Kazakhstan in July.

Kazakhstan is supplying the oil to Germany via the Druzhba pipeline, which previously carried Russian Urals crude to Germany until the start of 2023. Germany has now completely replaced Russian crude in response to the invasion of Ukraine.

Kazakhstan's pipeline operator Kaztransoil was not available for comment on volumes in June and July. It said June 30 that 290,000 mt of crude oil from Kazakhstan has been shipped to Germany since the beginning of 2023.

Transneft said it shipped 100,000 mt of Kazakh crude via Druzhba in June.

KEBCO is a medium sour crude which used to be marketed as Urals — Russia's flagship crude — until Kazakhstan rebranded it to avoid the impact of western sanctions on Russia.

In other news, Saudi Arabia's energy minister said he expected OPEC+ cuts will swing the oil market's pendulum very soon, once evidence emerges of tightening fundamentals.

On July 3, the kingdom said it would extend its 1 million b/d production cut for August, along with a concurrent commitment from Russia to lower its crude exports by 500,000 b/d and Algeria to rein in 20,000 b/d of output.

Global oil demand was rising, central bankers were working to tame inflation, and OPEC+ output restraint will turn the tide of "exaggerated negativity" that has flooded the market, Prince Abdulaziz bin Salman told the OPEC International Seminar in Vienna.

As for Russian supply, the Saudi minister said Moscow's declaration of its intent to cut 500,000 b/d of its crude exports will be trackable by trade flow monitors, as a "more meaningful" metric to the market than production cuts, which could be obscured by refinery runs or inputs into storage.

# Platts EMEA Urals and Med Brent Crude Daily Rationales & Exclusions

Urals CIF Augusta differential <AAGXX00> assessment rationale:

Urals CIF Augusta was assessed unchanged. There were no bids or offers in the Platts Market on Close assessment process. The Urals CIF Augusta differential was assessed using a net-forward to the Urals FOB Aframax and Suezmax assessment. The FOB differentials were assessed unchanged.

### Urals CIF Med < PCACE00 > assessment rationale:

The Urals CIF Mediterranean assessment reflected the value of the Mediterranean Dated Brent Strip (AALDF00) plus the Urals CIF Augusta differential assessment (AAGXX00).

# Urals RCMB (Recombined) <AALIN00> assessment rationale:

The Urals RCMB (Recombined) assessment reflected the value of the Platts Dated Brent assessment (PCAAS00) plus the Urals CIF Augusta differential assessment (AAGXX00).

### Urals CIF Rdam < PCAFW00> assessment rationale:

Urals CIF Rotterdam was assessed 6.5 cents/b higher. There were no bids or offers in the Platts Market on Close assessment process. The Urals CIF Rotterdam differential was assessed as a netforward to the Urals FOB Baltic assessment. The FOB differentials were assessed unchanged.

# Med Dated Brent Strip 13-28 Day <AALDF00> assessment rationale:

The Mediterranean Dated Brent Strip reflected the value of Forward Dated Brent 13-28 days ahead of the day of publication. Forward Dated Brent is assessed as a function of Platts assessments of second-month Cash BFOE (PCAAROO) and BFOE CFD differentials (PCAKAOO, PCAKCOO, PCAKEOO, PCAKGOO, AAGLUOO, AAGLVOO, AALCZOO).

# CPC Blend CIF Augusta vs BTC Dtd Strip <AAHPL00> assessment rationale:

CPC Blend was assessed 10 cents/b higher. Firm CPC Blend demand in Europe was supporting differentials. Disruption to Kazakh oil production due to power outages did not seem to have significantly impacted CPC Blend supply.

Exclusions: None

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# Platts EMEA Urals & Med Brent Crude Bids, Offers, Trades

Bids: None Offers: None Trades: None

This assessment commentary applies to the following market data codes: Urals CIF Med <PCACE00>> Urals CIF Rdam <PCAFW00> ESPO FOB Kozmino Mo01 London <AARWD00> CPC CIF Augusta Diff <AAHPL00>

# Platts West African Crude Daily Commentary

- Focus on Nigerian trading, Angolan activity slows
- Nigerian June crude exports total 45.9 mil barrels In the West African crude market July 5, traders continued to report strengthening differentials across the Nigerian complex amid softening freight costs and rising demand.

Spot market activity involving August-loading Nigerian crude continued to move at a fair pace, according to sources, while Angolan activity has slowed after healthy activity in earlier parts of the trading cycle.

"There is not much Angolan [activity] this week. The focus is really on Nigeria," one West African trader said, while a second said Angolan grade Pazflor has yet to see a single August-loading trade despite September programs being expected in around 10 days.

Lower freight rates continued to be a significant factor behind firming differentials, with Platts assessing the Dirty West Africa-UK Continent 130,000 mt fixture at Worldscale 93 on July 4, from a recent peak of w140 on June 20.

Falling shipping costs typically see differentials priced on an FOB basis increase, such as crude out of West Africa.

The first trader was bullish over the current

direction of Nigerian sentiment, saying: "Cargoes are changing hands and differentials are very constructive", while also noting improving middle distillate cracks would likely lend support.

Nigerian crude exports reached 45.9 million barrels in June, or an average 1.53 million b/d, with India and the US the top destinations, according to S&P Global Commodities at Sea data.

There were 48 export cargoes in June, CAS data showed, with India and the US taking 5.8 million barrels each, followed by France and Indonesia at 4.9 million barrels each. CAS data showed 2 million barrels were exported to India in May.

Forcados exports stood at 7.7 million barrels in June, the most of any Nigerian grade, followed by Escravos and Qua Iboe at 4.3 million barrels and 3.8 million barrels, respectively.

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# Platts West African Crude Daily Rationale & Exclusions

Of the four crudes in the Nigerian basket, Qua Iboe, Bonny Light and Forcados were assessed 30 cents/b higher while Bonga was assessed 20 cents/b higher using previously heard indications. Freight rates continued to soften while demand for Nigerian crude remained firm. There were no bids, offer or trades in the Platts Market on Close assessment process.

Qua Iboe FOB Nigeria <PCAID00> Bonny Light FOB Nigeria London <PCAIC00> Forcados FOB Nigeria <PCABC00> Bonga FOB Nigeria <PCNGC00> Exclusions: None

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# Platts West African Crude Bids, Offers, Trades

Bids: None Offers: None Trades: None

This assessment commentary applies to the following market data code: WAF Index <AWAFB00>
The WAF Index is calculated using the following market data codes: Qua Iboe FOB Nigeria <PCAID00> Bonny Light FOB Nigeria London <PCAIC00> Forcados FOB Nigeria <PCABC00> Bonga FOB Nigeria <PCNGC00>

### **Platts US Pipeline Crude Daily Commentary**

- US Gulf Coast sweet crude edges higher
- Oil futures settle higher on OPEC announcement

US Gulf Coast crude differentials edged slightly higher July 5 against the backdrop of rising futures.

S&P Global Commodity Insights assessed physical West Texas Intermediate crude at Midland up 10 cents from the previous session to cash WTI plus \$1.60/b.

WTI crude at the Magellan East Houston terminal also rose 10 cents day on day to \$1.80/b, based on a paper trade at that level.

On the sour side, Platts assessed July Mars barrels at WTI plus \$1.30/b, unchanged from the previous session.

Crude oil futures settled up as the complex saw marginal gains over OPEC's recent announcement to extend voluntary production cuts into August.

NYMEX front-month crude settled \$2 higher at \$71.79/b, while ICE front-month Brent rose 40 cents to \$76.65/b.

OPEC announced July 3 that Saudi Arabia and Russia will extend voluntary production cuts through August to balance oil markets that have recently been bogged down by global recession fears as recent US and Chinese data missed the mark on reaching inflation and recovery goals.

The announcement of output curbs prior to the OPEC+ meeting meant supply side considerations have already been priced into the market, SPI Asset Management's Managing Partner Stephen Innes said. Platts is a part of S&P Global Commodity Insights.

# Platts US Gulf Coast Export Crude Daily Commentary

- Platts AGS opens trading week on the rise
- US crude exports trending downward

Platts American GulfCoast Select (AGS) rose slightly July 5, amid weaker crude exports.

S&P Global Commodity Insights assessed Platts AGS up \$1.21 to \$73.75/b.

Platts AGS was assessed at a \$1.92/b premium to the NYMEX WTI strip, up 10 cents/b from the previous session.

The AGS discount to the forward Dated Brent strip widened by 22 cents, from \$2.90/b to \$3.12/b.

NYMEX front-month crude settled \$2 higher at \$71.79/b, while ICE front-month Brent settled up 40 cents at \$76.65/b.

US crude exports fell nearly 1 million b/d for the week ending June 30, according to Platts cFlow ship and commodity tracking software from S&P Global Commodity Insights. Last week's total of 4.004 million b/d was down 926,000 b/d from the cFlow estimate for the week prior, and down 1.334 million b/d from the reported figure from the US Energy Information Administration for the same period.

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# Platts Canadian Pipeline Crude Daily Commentary

- WCS at Hardisty climbs to over two-year high
- Strong demand expected at USGC

The differential for Western Canadian Select jumped to its strongest assessed value in over two years July 5 as high sulfur fuel oil crack spreads remained elevated and US refinery runs held firm.

Platts assessed August Western Canadian Select at Hardisty, Alberta \$1.25/b stronger day on day at

WTI CMA minus \$10.20/b, after the first trade of the August cycle was heard. The heavy crude has not been assessed stronger since April 9, 2021, when it was at WTI CMA minus \$10.15/b.

In contrast, the sweeter Canadian crude grades all saw pressure over the previous day. Platts assessed Syncrude Sweet Premium at Edmonton \$1.30/b weaker at WTI CMA plus \$3.75/b, based on market indications, and Mixed Sweet at Edmonton 35 cents/b weaker at WTI CMA minus 85 cents/b, after it was heard to trade there. Condensate at Fort Saskatchewan also softened, with Platts assessing it at WTI CMA minus \$4.90/b, after it was heard to trade at that level.

Although the US Gulf Coast HSFO crack spread has softened since reaching a near two-year high June 30, it continues to provide support to heavy Canadian differentials. In addition, strong export demand and steady refinery activity in the US is expected to result in lower crude inventories during the week ended June 30, further pushing up prices. S&P Global Commodity Insights analysts forecast that refinery outages will be between 700,000 b/d and 800,000 b/d in the following months, and, barring any unplanned closures, outages should be at their lowest levels in July and August.

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# Platts Latin American Crude Daily Commentary

- Latin crude values rise after OPEC cut extension
- Petroecuador says it is meeting production targets

Latin American crude prices rose July 5 as they followed benchmark futures higher in the wake of OPEC's announcement to extend production cuts into August.

On an outright basis, most Latin crudes gained more than \$1/b, as NYMEX front-month crude settled \$2 higher at \$71.79/b and as ICE front-month Brent ended up 40 cents at \$76.65/b. OPEC on July 3

said Saudi Arabia and Russia will extend voluntary production cuts through August.

In Argentina, Platts assessed the differential for light sweet Medanito crude unchanged at a discount of \$4.90/b to ICE Brent. Neuquén, the leading oil and natural gas province in Argentina, exported 2.19 million barrels of crude in May, an 8% month-on-month decline from April, the local Ministry of Energy and Natural Resources said July 5.

The Neuquén government has set targets of reaching 400,000 b/d in total crude production by the end of this year and 1 million b/d by 2027 or 2028.

In Ecuador, state oil company Petroecuador said July 3 it has reached 99% of its production target after bringing online four new oil wells in the eastern Amazon jungle.

Petroecuador, which was producing 391,881 b/d of crude through June 30, added a total of 8,268 b/d from the Ishpingo B-044, B-048 and A-012 wells in the Block 43-ITT fields and the Sacha-409 well in the Sacha field in the Oriente Basin, the company said in a statement.

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### Subscriber Notes

# Platts launches WTI Midland FOB USGC assessments by monthly decade basis

Platts, a part of S&P Global Commodity Insights, has launched assessments on a monthly-decade basis for WTI Midland crude oil cargoes loading on an FOB basis out of the US Gulf Coast, effective July 5, 2023.

The prices are published as differentials to the Platts assessment of the first month WTI at the Magellan East Houston Terminal (WTI MEH) and the relevant underlying value of Dated Brent and ICE Brent at the US close for the loading period. Platts publishes the outright values of the three decades as well as a single outright value representing the average of the three decades.

### Timing and basis

The prices reflect values for cargoes loaded within three segments of each calendar month: first decade: 1-10 of a month; second decade: 11-20 of a month; and third decade: 21-end of the month. The assessment month aligns with the US Gulf Coast pipeline schedule and rolls to the new months assessment the first business day following the 25th of each month. For example, from Jan. 26 to Feb. 25 the prompt month for US domestic pipeline barrels is March. During this time Platts would be publishing values for the first, second and third decades of March loadings, and they would be published against the March WTI MEH pipeline assessment and the March Dated Brent basis. On Feb. 26, the prompt month for US domestic pipeline barrels shifts to April, and Platts assessments would roll to publishing first, second and third decades for April loadings against the April WTI MEH pipeline assessment and the April Dated Brent basis. The Dated Brent basis is formed using the relevant underlying prompt-month ICE Brent futures settle at the US close with the relevant Platts assessment of the Brent DFL financial differential at the time of loading. Dated Brentrelated differentials reflect values relative to the value of Dated Brent that prevails at the time of loading. For example, on Feb. 1 Platts would be publishing the first, second and third decade assessments for March. The prompt ICE Brent futures contract for March loadings would be May, so the Dated Brent basis would be formed using the May ICE Brent settle with the March DFL differential. The ICE Brent basis reflects the value of the relevant contract month price of ICE Brent futures settles at the US close.

### Specifications

The new assessments of WTI FOB values by domestic pipeline trade-month decades reflects the established specifications from the Platts WTI Midland FOB USGC assessment. The assessments, therefore, reflect the value for an Aframax cargo of Platts WTI

Midland-spec crude on an FOB basis loading from locations along the US Gulf Coast, including Corpus Christi, Texas City, Houston, Beaumont, Nederland, and Port Arthur. The most competitive location, on a cargosize normalized adjusted basis, will inform the value for the WTI FOB USGC assessment. The assessments reflect a typical volume of 700,000 barrels. Bids, offers, and trades that are smaller or larger than the cargosize typical may be normalized to reflect the freight economics of the typical cargo size using that day's US to UK Aframax freight assessment (Platts symbol: TDUCF00). The assessments reflect WTI Midland crude supplied directly from the Permian Basin on one or more of the following designated pipelines: BridgeTex, Longhorn, Midland-to-Echo I/II, Cactus I/II/III, EPIC, Gray Oak, Permian Express, and Wink-to-Webster.

Crude reflected in this assessment must meet Platts' comprehensive, globally-accepted WTI Midland specifications, which can be found here: https://www.spglobal.com/commodityinsights/en/our-methodology/subscriber-notes/080320-platts-to-implement-comprehensive-platts-wti-midland-specifications.

Additionally, the assessments reflect value loading from terminals that have been approved by Platts for loading WTI Midland crude oil into its Dated Brent and Cash BFOE Market on Close assessment process. Loadings from non-approved terminals may be considered in the assessment, but normalized if appropriate.

Platts will continue to assess WTI Midland FOB USGC loading 15-to-45-days forward on an FOB basis. Please send any feedback or questions to americas\_crude@spglobal.com and pricegroup@spglobal.com. For written comments, please provide a clear indication if comments are not intended for publication by Platts for public viewing. Platts will consider all comments received and will make comments not marked as confidential available upon request.

# Platts to add additional carbon intensity calculations, carbon offset premiums

Platts, part of S&P Global Commodity Insights, has decided to launch monthly carbon intensity calculations and daily carbon offset premium assessments for 13 additional crude oil fields, eight crude grades and 13 transportation routes, effective July 14, 2023.

Platts proposed to add these new assessments and calculations on June 1, which can be found here: https://www.spglobal.com/commodityinsights/en/our-methodology/subscriber-notes/060123-platts-proposes-additional-carbon-intensity-calculations-carbon-offset-premiums

These new values will be added to the list of Platts existing carbon intensity calculations, bringing the current total number of fields to 139, up from 126, and increasing transparency on carbon intensities in the global crude market.

The new fields will include:

- -Falah
- -Rashid
- -Upper Zakum
- -Lower Zakum
- -Al-Shaheen
- -Oman Basin
- -Hassi Messaoud
- -Khurais
- -Abu Hadriya
- -Umm Shaif
- -Nasr
- -El Bundua
- -Abu Al Bukhoosh

The new crude grades will include:

- -Dubai Grade
- -Oman Grade
- -Al-Shaheen Grade
- -Upper Zakum Grade
- -Das Blend Grade
- -Arab Light Grade

- -Saharan Blend Grade
- -Murban Grade

Platts upstream crude carbon intensity calculations measure the impact of greenhouse gas emissions in the production lifecycle from production to storage terminal. The methodology guide for Platts upstream carbon intensity, midstream carbon intensity, and carbon offset premiums is available here: Specifications Guide Carbon Intensity Assessments.

In line with the methodology for the current carbon intensity scores of the 126 crude fields that Platts publishes, the CI of these 13 new field will be calculated using Stanford's Oil Production Greenhouse Gas Emissions Estimator (OPGEE) 2.0 model, combined with proprietary research and data from S&P Global.

Platts carbon intensity premiums for both the upstream and midstream calculations reflect the cost to offset emissions from each of the crudes, in addition to a separate premium reflecting the offsetting cost for each specific transportation route. Crude streams and different transportation routes have a variety of carbon intensities depending on where the crude comes from and the distance to the refinery.

Depending on the carbon intensity of each crude and carbon intensity of the route, the calculation is a \$/b indication of how much it would cost to use carbon removal credits to offset associated GHG emissions from the production of the crude, as well as the route in question.

The 13 new routes will include:

- Falah to Kiire
- Rashid to Kiire
- Upper Zakum to Zhoushan
- Lower Zakum to Sikka
- Al-Shaheen to Singapore
- Oman Basin to Tranmere
- Hassi Messaoud to Tranmere
- Khurais to Ain Sukhna
- Abu Hadriya to Ain Sukhna
- Umm Shaif to Sikka

- Nasr to Sikka
- El Bunduq to Sikka
- Abu Al Bukhoosh to Sikka

Please send any further feedback

# to <u>Platts\_Carbon@spglobal.com</u> and pricegroup@spglobal.com.

For written comments, please provide a clear indication if comments are not intended for publication by Platts for public viewing. Platts will consider all comments received and will make comments not marked as confidential available upon request.

# Platts amends weighted average flat rate for North Sea-Rotterdam route from July 3

Following the Worldscale Association update to flat rates for the port of Hound Point, Platts, part of S&P Global Commodity Insights, has amended the \$/mt weighted average flat rate of the North Sea-Rotterdam Freight Adjustment Factor (FAF), effective July 3, 2023.

The North Sea-Rotterdam FAF is used to netback CIF Rotterdam WTI Midland values to FOB North Sea-equivalent values for Dated Brent.

As a result of the recent Hound Point update, the weighted average flat rate has been updated to \$7.00/mt from July 3, up from \$6.93/mt.

The FAF is calculated from the 10-day rolling freight average of the Dirty Cross-UK/Continent 80,000 mt freight assessment as published in Platts Dirty Tankerwire and in the Platts Pricing Database under code TDUUW00.

Please send all comments or questions to <a href="mailto:europe\_crude@spglobal.com">europe\_crude@spglobal.com</a> and <a href="mailto:pricegroup@spglobal.com">pricegroup@spglobal.com</a>.

For written comments, please provide a clear indication if comments are not intended for publication by Platts for public viewing. Platts will consider all comments received and will make comments not marked as confidential available upon request.

# Platts reminds subscribers of Middle East crude cargo nomination procedures, laycans

Platts, part of S&P Global Commodity Insights, would like to remind participants in the Middle East Market on Close crude oil price assessment process that for cargoes of Dubai, Oman, Upper Zakum, Al Shaheen or Murban, loading dates starting in the last three calendar days of the month should not be nominated except by mutual agreement between the buyer and the seller.

For Al-Shaheen cargoes, sellers should pass loading dates to buyers as soon as possible and at the latest before the end of the last trading day of the month of trade execution.

For other grades, buyers typically nominate loading dates in the month after trade execution.

In either case, buyers and sellers should not nominate cargoes with loading dates commencing in the last three calendar days of a month.

This is to avoid slippage risk — the risk that endmonth loading dates of a cargo will spill over into the next month with different pricing implications.

For example, a cargo loading in August, which has 31 days, should have its nominated laycan end no later than on Aug. 29, e.g. an Aug. 28-29 loading cargo.

Platts reflects partial cargoes of crude oil in its physical assessments for Dubai, Oman, Upper Zakum, Al-Shaheen and Murban crudes.

Under the partials mechanism, the seller declares a full 500,000-barrel cargo of crude oil to the buyer after a total of 20 partials have been traded for the same loading month between the companies.

For Dubai partials, the seller has the option to deliver a Dubai, Oman, Upper Zakum or Al-Shaheen cargo, or a Murban cargo with a quality premium, to the buyer.

Please send all comments, feedback and questions to <u>Asia\_crude@platts.com</u> and <u>pricegroup@platts.com</u>.

For written comments, please provide a clear indication if comments are not intended for publication by Platts for public viewing.

Platts will consider all comments received and will make comments not marked as confidential available upon request.

# Platts launches fallback demurrage mechanism for WTI Midland CIF Rotterdam cargoes basis USGC demurrage rates

Platts, part of S&P Global Commodity Insights, has launched a demurrage fallback mechanism for WTI Midland CIF Rotterdam cargoes traded in the Platts Market on Close assessment process that is based on US Gulf Coast (USGC) demurrage rates, effective June 23.

If no agreement can be reached between buyer and seller on demurrage costs, Platts proposes that counterparties use Platts Aframax USGC demurrage assessment (ADERD00) for the period 22-27 days prior to the delivery laycan. This time period is equivalent to what Platts understands the typical USGC Aframax fixing period to be of 5-10 days prior to USGC loading, assuming a 17-day sailing time to Rotterdam.

Platts understands that currently the standard market practice for demurrage on WTI Midland cargoes to be commensurate with Aframax demurrage rates in the US Gulf Coast.

Please send all feedback, comments or questions to <a href="mailto:europe\_crude@spglobal.com">europe\_crude@spglobal.com</a> and <a href="mailto:pricegroup@spglobal.com">pricegroup@spglobal.com</a>.

For written comments, please provide a clear indication if comments are not intended for publication by Platts for public viewing.

Platts will consider all comments received and will make comments not marked as confidential available upon request.

# Platts to launch Russian Urals DAP India assessment as differential to Dubai

Platts, part of S&P Global Commodity Insights, will launch a differential for Russian Urals DAP India versus Dubai, Aug. 1, 2023.

The DAP (Delivered At Place) West Coast India (WCI) Russian Urals differential to M1 Dubai [PCAAT00] following market support for an assessment of Urals DAP WCI versus Dubai.

Platts launched DAP WCI Russian Urals assessments as both an outright value and as a differential to M1 forward Dated Brent, Jan. 18, 2023.

Please send all feedback, comments or questions to <a href="mailto:europe\_crude@spglobal.com">europe\_crude@spglobal.com</a> and <a href="mailto:pricegroup@spglobal.com">pricegroup@spglobal.com</a>.

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Platts will consider all comments received and will make comments not marked as confidential available to the public upon request.

### Platts clarifies CPC Blend assessment methodology

Platts, part of S&P Global Commodity Insights, clarifies the CPC Blend assessment methodology relating to emerging market practices for the AWRP cost and the title and risk transfer following Russia's invasion of Ukraine.

**AWRP** 

Platts understands that in current market practice the Additional War Risk Premium (AWRP), an additional insurance product that emerged in the market following Russia's invasion of Ukraine, is for the seller's account.

As such, for CPC delivered Augusta bids, offers and trades in the Platts Market on Close assessment process, Platts will reflect value with the AWRP cost being paid by the seller.

TITLE AND RISK

Platts understands that some buyers of delivered

CPC Blend cargoes in the wider market are requesting delayed transfer of title and risk. Platts understands buyers are requesting that the title and risk passes at the point the vessel has passed through the Dardenelles, rather than at loadport.

Platts also understands that while this may not be market practice for every trade, many sellers are willing to agree to delayed title and risk transfer.

As such, Platts will publish bids and offers requiring delayed transfer of title and risk in the MOC, but these may be subject to normalization for assessment purposes.

### CERTIFICATE OF ORIGIN

Platts previously announced on Sept. 23, 2022, that cargoes carrying a Russian certificate of origin (COO) would be excluded from CPC Blend assessments from Oct. 3, 2022. As such, bids, offers and trades reported in the MOC will need to be performed upon with cargoes carrying a Kazakh-origin COO.

The subscriber note for that change can be found here:

https://www.spglobal.com/commodityinsights/ en/our-methodology/subscriber-notes/092322-plattsto-exclude-russian-origin-cargoes-from-cpc-blendassessments-amend-fob-netback-calculations

Please send all feedback, comments or questions to <a href="mailto:europe\_crude@spglobal.com">europe\_crude@spglobal.com</a> and <a href="mailto:pricegroup@spglobal.com">pricegroup@spglobal.com</a>.

For written comments, please provide a clear indication if comments are not intended for publication by Platts for public viewing.

Platts will consider all comments received and will make comments not marked as confidential available upon request.

### Platts publishes outright value of Iraq's Basrah Medium Asia OSP to three decimal points from July 3, 2023

Platts, a part of S&P Global Commodity Insights, has started publishing the outright value of Iraq's Basrah

Medium Asia crude oil official selling price to three decimal points from July 3, 2023.

Platts previously published the outright value of the grade's OSP to two decimal points. The outright value of the grade's OSPs is calculated by adding its OSP differential, as issued by Iraq's SOMO, to the corresponding monthly average of the OSP benchmark, which is Platts Dubai and Platts Oman.

Platts first announced the change in a subscriber note published May 19: https://www.spglobal.com/commodityinsights/en/our-methodology/subscriber-notes/051923-platts-to-publish-outright-value-of-iraqs-basrah-medium-asia-osp-to-three-decimal-points-from-july-3-2023.

From July 3, the outright OSP of Basrah Medium Asia is published to three decimal points under the existing symbol BSMAD00. The Basrah Medium Asia outright OSP is published alongside the existing OSPs of SOMO's other crude oil grades on Platts Global Alert page 1059.

Please send all comments and queries to <u>asia\_crude@spglobal.com</u> and <u>pricegroup@spglobal.com</u>.

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# Platts to launch CIF Rotterdam KEBCO, FOB Ust-Luga and Novorossiisk netback assessments

Platts, part of S&P Global Commodity Insights, will launch new KEBCO (Kazakh Export Blend Crude oil) assessments, Aug. 1, 2023.

Platts received consistent market feedback in support of a KEBCO CIF Rotterdam assessment and FOB-netback values for KEBCO Ust-Luga and FOB Novorossiisk.

KEBCO FOB Ust-Luga value will be calculated as

a freight netback from the KEBCO CIF Rotterdam assessment.

KEBCO FOB Novorossiisk will be calculated as a freight netback from the CIF Augusta assessment, also taking into account Turkish Strait delays and the Additional War Risk Premium (AWRP).

These assessments will be published as both differentials to the Med Dated Brent strip [AALDF00] and as outright values.

Platts launched a KEBCO CIF Augusta assessment, Nov. 1, 2022.

Please send all feedback, comments or questions to europe\_crude@spglobal.com and pricegroup@spglobal.com.

For written comments, please provide a clear indication if comments are not intended for publication by Platts for public viewing. Platts will consider all comments received and will make comments not marked as confidential available to the public upon request.

# Platts to include Seaway Texas City Terminal into Brent complex assessment process for June

Platts, part of S&P Global Commodity Insights, will include Seaway Texas City Terminal as a loading terminal for WTI Midland crude oil into its Dated Brent and Cash BFOE Market on Close assessment process for June deliveries.

Sellers would be able to nominate WTI Midland meeting Platts specification loaded from Seaway Texas City Terminal for inclusion into the Dated Brent/Cash BFOE assessment process starting with the June 2023 delivery period.

The terminal, in Texas City, Texas, is wholly owned by Seaway Crude Holdings LLC, L.P., a joint venture between Enterprise Seaway L.P. and Enbridge Holdings (Seaway) L.L.C.

The terminal has two docks which can fit up to a VLCC size vessel and 4 million barrels of storage capacity for crude oil. Platts decision to include WTI Midland into the Brent complex, and clarification of the review process by which loading terminals are included in the assessment process, can be found here.

Please send all feedback to

# PriceGroup@spglobal.com and Europe\_Crude@spglobal.com.

For written comments, please provide a clear indication if they are not intended for publication by Platts for public viewing.

# Platts invites feedback on Global Crude Oil Market Parity Prices methodology

As part of its commitment to open and transparent pricing and product specifications, Platts, part of S&P Global Commodity Insights, would like to invite feedback on its Global Crude Oil Market Parity Prices methodology.

Platts Market Parity Prices (MPPs) provide a calculation of the equivalent market value of a given crude based on the value of its typical refined product yield, subtracting costs for transport and the refining process, and adjusting the resulting value based on

its Gross Product Worth (GPW) benchmarked to a reference basket of relevant crude grades that are actively traded in the regional spot market.

As part of this review, Platts is inviting feedback from stakeholders on possible amendments to the model, including addition of new reference grades; changes to the underlying refinery model and GPW yields used in the calculations; as well as updates to transportation and processing cost for the various grades.

More details on Platts MPP models and methodology are available at: <a href="https://www.spglobal.com/commodityinsights/PlattsContent/\_assets/\_files/en/our-methodology/methodology-specifications/market-parity-prices.pdf">https://www.spglobal.com/commodityinsights/PlattsContent/\_assets/\_files/en/our-methodology/methodology-specifications/market-parity-prices.pdf</a>

Platts reviews all methodologies annually to ensure they continue to reflect the physical markets under assessment. Platts regularly assesses the relevance of methodologies through continuous contact with the market. Feedback on methodologies is always welcomed by Platts.

Platts is committed to providing advance notice in a clear time frame that gives users sufficient

opportunity to analyze and comment on the impact of such proposed changes. Time frames vary depending on Platts analysis of the overall circumstances of a particular change.

Methodology changes that materially alter an assessment and require an update to the methodology specification are preceded by extensive bilateral discussions with market stakeholders and open public forums. Routine changes or clarifications generally do not materially alter an assessment. Platts holds open public forums in which material methodology changes and feedback are presented, and at which further feedback may be given.

Please send all comments, feedback, and questions to <u>europe\_crude@spglobal.com</u>, <u>Asia\_Crude@spglobal.com</u>, and <u>pricegroup@spglobal.com</u>.

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### Commodity Insights Analytics US Yields & Netbacks Effective July 5, 2023 (\$/barrel)

US Gulf Coast	(PGA	page	0833
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# US Gulf Coast (PGA page 0841) Coke

	Crack Yield		Freight		Crack Netback		Crude	Price	Crack Margin	
Agbami	AGGCY00	88.60	AGGFA00	2.60	AGGCN00	86.01	AAQZB00	74.03	AGGCM00	11.34
Arab Berri	BEGCY00	89.06	TDDAC00	1.32	BEGCN00	87.74	AAXCT00	82.39	BEGCM00	5.35
Arab Heavy	AHGCY00	82.67	TDDAJ00	1.39	AHGCN00	81.28	AAXDI00	80.49	AHGCM00	0.79
Arab Light	LIGCY00	86.94	TDDAR00	1.35	LIGCN00	85.59	AAXCU00	80.24	LIGCM00	5.35
Arab Medium	MEGCY00	83.62	TDDAZ00	1.35	MEGCN00	82.26	AAXDN00	80.94	MEGCM00	1.32
Bakken	BKGCY00	88.57	TDDRP00	7.78	BKGCN00	80.79	AAXPP00	73.03	BKGCM00	7.76
Basrah Medium	BLGCY00	82.30	TDDBS00	2.66	BLGCN00	79.64	BSMAM01	75.00	BLGCM00	7.01
Bonny Light	YLGCY00	90.88	TDDBX00	2.83	YLGCN00	88.05	PCAIC00	76.83	YLGCM00	10.58
Brent	BRGCY00	88.88	TDDCB00	2.88	BRGCN00	86.00	AAVJA00	77.04	BRGCM00	8.32
Cabinda	CBGCY00	85.93	TDDCF00	3.06	CBGCN00	82.87	PCAFD00	77.23	CBGCM00	5.01
Eagle Ford	EAGCY00	89.27					AAYAT00	72.85	EAGCM00	16.42
Escalante	ECGCY00	81.03	TDDCV00	4.30	ECGCN00	76.73	PCAGC00	74.48	ECGCM00	1.71
Forties	FTGCY00	88.22	FTGFA00	2.71	FTGCN00	85.51	PCADJ00	77.06	FTGCM00	7.81
Isthmus	ISGCY00	87.64	TDDDJ00	1.15	ISGCN00	86.49	PDAT009	69.21	ISGCM00	17.28
LLS	LLGCY00	90.96	TDDQW00	0.55	LLGCN00	90.41	PCABN00	74.39	LLGCM00	16.02
Marlim	MLGCY00	85.38	TDDGK00	3.32	MLGCN00	82.06	AAITF00	71.08	MLGCM00	10.44
Mars	MRGCY00	85.34	TDDQY00	0.55	MRGCN00	84.79	AAMBR00	73.09	MRGCM00	11.70
Maya	MYGCY00	76.16	TDDDP00	1.21	MYGCN00	74.96	PDATS09	66.01	MYGCM00	8.95
Mesa	MSGCY00	85.87	TDDDV00	1.95	MSGCN00	83.91	AAITB00	73.28	MSGCM00	10.63
Olmeca	OLGCY00	88.92	TDDDY00	1.16	OLGCN00	87.76	PDATT09	69.46	OLGCM00	18.30
Poseidon	PDGCY00	85.68	PDGFA00	0.00	PDGCN00	85.68	AABHK00	72.59	PDGCM00	13.09
Saharan Blend	SHGCY00	88.89	TDDRD00	2.14	SHGCN00	86.75	AAGZY00	77.34	SHGCM00	8.77
Syncrude	SYGCY00	90.69	SYGFA00	8.52	SYGCN00	82.17	AASOK00	75.58	SYGCM00	6.59
Urals	URGCY00	86.48	TDDFM00	3.07	URGCN00	83.41	AAWVH00	56.87	URGCM00	25.91
WTI	WTGCY00	88.46					AAYRG00	73.59	WTGCM00	14.87
WTS	WSGCY00	87.26	TDDRJ00	6.89	WSGCN00	80.38	PCACK00	72.39	WSGCM00	7.99

	Coke '	Yield	Frei	ght	Coke Ne	tback	Crude	Price	Coke M	argin
Arab Heavy	AHGOY00	84.90	TDDAJ00	1.39	AHGON00	83.52	AAXDI00	80.49	AHGOM00	3.03
Arab Light	LIGOY00	87.84	TDDAR00	1.35	LIGON00	86.49	AAXCU00	80.24	LIGOM00	6.25
Arab Medium	MEGOY00	84.45	TDDAZ00	1.35	MEGON00	83.09	AAXDN00	80.94	MEGOM00	2.15
Basrah Heavy	BHG0Y00	81.72	BHGFA00	2.78	BHGON00	78.94	AALZC00	71.90	BHG0M00	10.76
Basrah Medium	BLG0Y00	84.06	TDDBS00	2.66	BLGON00	81.40	BSMAM01	75.00	BLGOM00	8.77
Cabinda	CBGOY00	86.81	TDDCF00	3.06	CBGON00	83.75	PCAFD00	77.23	CBGOM00	5.88
Castilla Blend	CSG0Y00	81.32	CSGFA00	2.06	CSGON00	79.26	AAVEQ00	68.23	CSGOM00	11.03
LLS	LLG0Y00	90.60	TDDQW00	0.55	LLGON00	90.05	PCABN00	74.39	LLGOM00	15.66
Marlim	MLGOY00	85.42	TDDGK00	3.32	MLGON00	82.09	AAITF00	71.08	MLGOM00	10.48
Mars	MRGOY00	86.33	TDDQY00	0.55	MRGON00	85.78	AAMBR00	73.09	MRGOM00	12.69
Maya	MYGOY00	82.20	TDDDP00	1.21	MYGON00	81.00	PDATS09	66.01	MYGOM00	14.99
Napo	NPGOY00	79.75	NPGFA00	4.80	NPGON00	74.96	AAMCA00	63.89	NPGOM00	10.12
Oriente	ORGOY00	84.85	ORGFA00	4.52	ORGON00	80.32	PCADE00	65.89	ORGOM00	13.54
Urals	URGOY00	87.03	TDDFM00	3.07	URGON00	83.96	AAWVH00	56.87	URGOM00	26.45
Vasconia	VCGOY00	87.95	VCGFA00	2.01	VCGON00	85.94	PCAGI00	72.23	VCGOM00	13.71
WCS ex-Hardisty	WHGOY00	83.12	TDDRS00	8.50	WHGON00	74.62	AAPPN00	61.63	WHGOM00	12.99
WCS ex-Nederland	WNGOY00	83.12	WCGFA00	0.00	WNGON00	83.12	AAYAY00	69.63	WNGOM00	13.49
WTS	WSG0Y00	88.78	TDDRJ00	6.89	WSGON00	81.89	PCACK00	72.39	WSGOM00	9.50

### Commodity Insights Analytics US Yields & Netback (\$/barrel) (continued)

### US Midwest (PGA page 0823)

	Crack '	Yield	Freig	ht	Crack Ne	tback	Crude	Price	Crack M	largin
Bakken	BKTCY00	87.23	TDDR000	1.68	BKTCN00	85.55	AASRU00	74.68	BKTCM00	10.87
Syncrude	SYTCY00	88.68	TDDFP00	8.20	SYTCN00	80.48	AASOK00	75.58	SYTCM00	4.90
WTI	WTTCY00	87.63	TDDRG00	2.39	WTTCN00	85.24	PCACG00	71.79	WTTCM00	13.45
WTS	WSTCY00	86.65	TDDRI00	3.08	WSTCN00	83.57	PCACK00	72.39	WSTCM00	11.18

# US West Coast (PGA page 0843)

	Crack Yield	Freight	Crack Netback	Crude Price	Crack Margin
ANS	ANWCY00 105.38			PCAAD00 77.95	ANWCM00 27.43
Bakken	вкису00 110.84	TDDRT00 11.74	BKWCN00 99.09	AAXPP00 73.03	BKWCM00 26.06

### US Atlantic Coast (PGA page 0811)

	Crack	Yield	Freig	ht	Crack Ne	tback	Crude	Price	Crack M	largin
Agbami	AGACY00	94.26	AGAFA00	2.34	AGACN00	91.92	AAQZB00	74.03	AGACM00	17.25
Arab Light	LIACY00	89.82	TDDAU00	1.35	LIACN00	88.47	AAXCU00	80.24	LIACM00	8.23
Bakken	BKACY00	95.27	TDDRN00	7.20	BKACN00	88.07	AAXPP00	73.03	BKACM00	15.04
Bonny Light	YLACY00	94.81	TDDBZ00	2.55	YLACN00	92.26	PCAIC00	76.83	YLACM00	14.79
Brent	BRACY00	92.82	TDDCC00	2.45	BRACN00	90.37	AAVJA00	77.04	BRACM00	13.23
Cabinda	CBACY00	90.94	TDDCH00	2.78	CBACN00	88.15	PCAFD00	77.23	CBACM00	10.29
CPC Blend	CPACY00	94.66	CPAFA00	2.60	CPACN00	92.06	AALVX00	71.96	CPACM00	20.00
Forties	FTACY00	94.79	FTAFA00	2.35	FTACN00	92.44	PCADJ00	77.06	FTACM00	15.29
Saharan Blend	SHACY00	95.46	SHAFA00	1.78	SHACN00	93.69	AAGZY00	77.34	SHACM00	15.71
Urals	URACY00	89.01	URAFA00	2.36	URACN00	86.65	AAWVH00	56.87	URACM00	29.14

### US Midwest (PGA page 0821)

	Coke Y	ield/	Frei	ght	Coke Ne	tback	Crude	Price	Coke M	largin
WCS	WCTOY00	82.29	TDDRL00	8.56	WCTON00	73.73	AAPPN00	61.63	WCTOM00	12.10
WTS	WSTOY00	87.63	TDDRI00	3.08	WSTON00	84.54	PCACK00	72.39	WSTOM00	12.15

### US West Coast (PGA page 0841)

	Coke Yield	Freight	Coke Netback	Crude Price	Coke Margin
ANS	ANWOY00 107.03			PCAAD00 77.95	ANWOM00 29.08
Arab Light	LIWOY00 108.84	TDDAT00 1.35	LIWON00 107.49	AAXCU00 80.24	LIWOM00 27.25
Arab Medium	MEWOY00 104.14	TDDBB00 1.35	MEWON00 102.78	AAXDN00 80.94	MEWOM00 21.84
Basrah Heavy	BHWOY00 104.10	BHWFA00 2.92	BHWON00 101.18	AALZC00 71.90	вншомоо 33.54
Basrah Medium	BLW0Y00 105.61	TDDBW00 2.80	BLWON00 102.82	BSMAM01 75.00	BLWOM00 30.73
Castilla Blend	CSW0Y00 107.10	CSWFA00 6.84	CSWON00 100.26	AAVEQ00 68.23	CSWOM00 31.07
Maya	MYW0Y00 103.19	MYWFA00 3.98	MYWON00 99.21	AAUPK00 66.61	MYWOM00 32.60
Napo	NPW0Y00 102.04	NPWFA00 5.79	NPWON00 96.25	AAMCA00 63.89	NPWOM00 31.41
Oriente	ORWOY00 106.35	TDDEC00 5.45	ORWON00 100.90	PCADE00 65.89	ORWOM00 34.11
Vasconia	VCW0Y00 113.85	VCWFA00 6.60	VCWON00 107.25	PCAGI00 72.23	VCWOM00 34.09

### Commodity Insights Analytics European Yields & Netbacks Effective July 5, 2023 (\$/barrel)

Northwest Europe	(PGA page 181	l1)								
	Crack	Yield	Freig	ght	Crack Ne	etback	Crude	Price	Crack N	largin
Agbami	AGNCY00	91.32	AGNFA00	2.12	AGNCN00	89.20	AAQZB00	74.03	AGNCM00	15.17
Arab Berri	BENCY00	91.11	BENFA00	1.32	BENCN00	89.79	AAXDU00	80.25	BENCM00	9.54
Arab Heavy	AHNCY00	82.71	TDDAN00	1.39	AHNCN00	81.33	AAXDH00	76.75	AHNCM00	4.58
Arab Light	LINCY00	88.44	TDDAV00	1.35	LINCN00	87.09	AAXDK00	79.65	LINCM00	7.44
Arab Medium	MENCY00	84.74	TDDBD00	1.37	MENCN00	83.38	AAXDM00	79.15	MENCM00	4.23
Azeri Light	ZLNCY00	92.54	TDDBI00	2.41	ZLNCN00	90.12	AATHM00	77.95	ZLNCM00	11.01
Basrah Medium	BLNCY00	83.37	TDDBU00	2.29	BLNCN00	81.08	BSMAM01	75.00	BLNCM00	7.92
Bonny Light	YLNCY00	93.32	YLNFA00	2.32	YLNCN00	91.00	PCAIC00	76.83	YLNCM00	14.17
Brent	BRNCY00	90.55	TDDCD00	2.19	BRNCN00	88.35	AAVJA00	77.04	BRNCM00	11.31
Cabinda	CBNCY00	88.57	TDDQR00	2.54	CBNCN00	86.03	PCAFD00	77.23	CBNCM00	8.80
CPC Blend	CPNCY00	91.34	CPNFA00	2.99	CPNCN00	88.35	AALVX00	71.96	CPNCM00	16.39
Dubai	DBNCY00	88.08	DBNFA00	2.25	DBNCN00	85.83	PCAAT00	75.43	DBNCM00	8.60
Eagle Ford	EANCY00	91.09	EANFA00	4.28	EANCN00	86.81	AAYAT00	72.85	EANCM00	14.06
Ekofisk	EKNCY00	91.39	TDDCT00	1.45	EKNCN00	89.94	PCADI00	78.27	EKNCM00	11.67
Forties	FTNCY00	90.85	TDDEZ00	1.68	FTNCN00	89.17	PCADJ00	77.06	FTNCM00	12.12
Iran Heavy	BHNCY00	87.32	TDDDG00	2.38	BHNCN00	84.94	AIHKA00	75.65	BHNCM00	8.63
Johan Sverdrup	JSNCY00	88.93	JSNFA00	1.79	JSNCN00	87.14	AJSVA00	78.16	JSNCM00	8.99
Kirkuk	KRNCY00	87.74	TDDGH00	2.92	KRNCN00	84.82	AAEJD00	73.87	KRNCM00	8.27
LLS	LLNCY00	94.16	LLNFA00	4.46	LLNCN00	89.70	AAQBB00	74.44	LLNCM00	15.41
Maya	MYNCY00	77.52	MYNFA00	4.60	MYNCN00	72.92	AAYXE00	65.50	MYNCM00	7.42
Oman	OMNCY00	87.43	OMNFA00	2.21	OMNCN00	85.22	PCABS00	75.53	OMNCM00	7.90
Saharan Blend	SHNCY00	92.87	TDDGI00	1.87	SHNCN00	91.00	AAGZY00	77.34	SHNCM00	13.66

### Mediterranean (PGA page 1821)

	Crack	Yield	Freig	ght	Crack Ne	tback	Crude	Price	Crack N	largin
Agbami	AGMCY00	90.86	AGMFA00	2.07	AGMCN00	88.79	AAQZB00	74.03	AGMCM00	14.76
Arab Heavy	AHMCY00	84.38	TDDAI00	1.39	AHMCN00	82.99	AAXDH00	76.75	AHMCM00	6.99
Arab Light	LIMCY00	88.50	TDDAQ00	1.35	LIMCN00	87.15	AAXDK00	79.65	LIMCM00	7.95
Arab Medium	MEMCY00	85.54	TDDAY00	1.37	MEMCN00	84.18	AAXDM00	79.15	MEMCM00	5.28
Azeri Light*	ZLMCY00	91.82					AAGZX00	80.44	ZLMCM00	11.38
Basrah Medium	BLMCY00	84.62	TDDBR00	1.74	BLMCN00	82.87	BSMAM01	75.00	BLMCM00	9.71
Bonny Light	YLMCY00	92.44	YLMFA00	2.26	YLMCN00	90.18	PCAIC00	76.83	YLMCM00	13.35
Cabinda	CBMCY00	88.22	CBMFA00	2.48	CBMCN00	85.74	PCAFD00	77.23	CBMCM00	8.51
CPC Blend*	CPMCY00	90.33					AAGZU00	74.55	CPMCM00	15.78
Eagle Ford	EAMCY00	90.74	TNEIF00	4.60	EAMCN00	86.14	AAYAT00	72.85	EAMCM00	13.39
Forties	FTMCY00	90.21	FTMFA00	2.60	FTMCN00	87.61	PCADJ00	77.06	FTMCM00	10.56
Iran Heavy	BHMCY00	87.78	TDDDF00	1.71	BHMCN00	86.07	AIHKA00	75.65	ВНМСМ00	9.76
Johan Sverdrup	JSMCY00	88.65	JSMFA00	2.78	JSMCN00	85.88	AJSVA00	78.16	JSMCM00	7.72
Kirkuk	KRMCY00	87.83	TDDFF00	1.73	KRMCN00	86.10	AAEJD00	73.87	KRMCM00	9.55
LLS	LLMCY00	93.25	LLMFA00	4.83	LLMCN00	88.42	AAQBB00	74.44	LLMCM00	14.13
Oman	OMMCY00	87.96	OMMFA00	1.56	OMMCN00	86.41	PCABS00	75.53	OMMCM00	9.09
Saharan Blend	SHMCY00	91.49	TDDFG00	1.46	SHMCN00	90.04	AAGZY00	77.34	SHMCM00	12.70
Urals*	URMCY00	88.64					PCACE00	59.63	URMCM00	29.01

URNCY00 89.54

### Platts Analytics Asian Yields & Netbacks Effective July 5, 2023 (\$/barrel)

WTNCY00 91.51 WTNFA00 4.35 WTNCN00 87.16 AAYRZ00 73.59 WTNCM00 13.67

Singapore	(PGA	page 2811)	

Urals\*

WTI MEH

	Crack	Yield	Freig	ght	Crack Ne	etback	Crude	Price	Crack N	largin
Agbami	AGSCY00	80.36	AGSFA00	2.31	AGSCN00	78.06	AAQZB00	74.03	AGSCM00	5.17
Arab Berri	BESCY00	79.88	BESFA00	1.43	BESCN00	78.44	AAXDV00	78.03	BESCM00	0.41
Arab Heavy	AHSCY00	74.77	TDDA000	1.49	AHSCN00	73.28	AAXDG00	76.28	AHSCM00	-3.00
Arab Light	LISCY00	78.80	TDDAW00	1.46	LISCN00	77.34	AAXDJ00	78.48	LISCM00	-1.14
Arab Medium	MESCY00	75.24	TDDBE00	1.47	MESCN00	73.76	AAXDL00	77.93	MESCM00	-4.17
Basrah Medium	BHSCY00	75.92	BHSFA00	1.48	BHSCN00	74.45	BSMAM01	75.00	BHSCM00	-0.93
Bonny Light	YLSCY00	82.95	YLSFA00	2.48	YLSCN00	80.47	PCAIC00	76.83	YLSCM00	4.78
Cabinda	CBSCY00	81.96	TDDQS00	2.40	CBSCN00	79.57	PCAFD00	77.23	CBSCM00	3.48
Castilla	CSSCY00	71.48	CSSFA00	4.26	CSSCN00	67.21	AAVEQ00	68.23	CSSCM00	0.22
Dalia	DLSCY00	84.23	DLSFA00	2.48	DLSCN00	81.75	AAQYX00	76.03	DLSCM00	6.86
Dubai	DBSCY00	78.97	TDDCQ00	1.39	DBSCN00	77.58	PCAAT00	75.43	DBSCM00	2.15
Duri	DRSCY00	82.60	TDDCR00	1.24	DRSCN00	81.36	PCABA00	78.41	DRSCM00	2.95
Eagle Ford	EASCY00	80.29	EASFA00	3.69	EASCN00	76.59	AAYAT00	72.85	EASCM00	4.98
ESP0	ESSCY00	81.27	ESSFA00	1.11	ESSCN00	80.16	AARWF00	66.95	ESSCM00	13.21

### Singapore (PGA page 2811)

PCAFW00 59.17 URNCM00 30.37

	Crack	Yield	Freig	ght	Crack Ne	tback	Crude	Price	Crack N	1argin
Forties	FTSCY00	79.09	TNEFD00	3.46	FTSCN00	75.63	PCADJ00	77.06	FTSCM00	-0.29
Kimanis	KISCY00	88.64	KISFA00	1.13	KISCN00	87.52	AASCL00	82.51	KISCM00	5.01
LLS	LLSCY00	82.42	LLSFA00	3.85	LLSCN00	78.57	AAZDC00	73.04	LLSCM00	5.42
Mars	MRSCY00	77.78	MRSFA00	3.99	MRSCN00	73.80	AAMBR00	73.09	MRSCM00	1.95
Maya	MYSCY00	74.07	MYSFA00	4.18	MYSCN00	69.89	AAYXG00	67.93	MYSCM00	1.96
Minas	MNSCY00	82.99	TDDDX00	1.13	MNSCN00	81.86	PCAB000	71.12	MNSCM00	10.74
Oman	OMSCY00	76.63	TDDEB00	1.33	OMSCN00	75.30	PCABS00	75.53	OMSCM00	-0.23
Qua lboe	QBSCY00	83.47	QBSFA00	2.48	QBSCN00	80.98	PCAID00	76.88	QBSCM00	5.24
Saharan Blend	SHSCY00	78.05	SHSFA00	2.60	SHSCN00	75.45	AAGZY00	77.34	SHSCM00	-1.36
Tapis	TPSCY00	81.16	TDDE000	1.11	TPSCN00	80.05	PCACB00	78.61	TPSCM00	1.44
Tupi*	LUSCY00	81.49					LUQDA00	78.23	LUSCM00	5.03
Urals	URSCY00	78.83	URSFA00	2.67	URSCN00	76.16	AAGZS00	56.87	URSCM00	20.43
WTI MEH	WTSCY00	80.32	WTSFA00	3.75	WTSCN00	76.57	AAZDF00	72.14	WTSCM00	4.22

<sup>\*</sup>Indicates the crude price is a CIF value

<sup>\*</sup>Indicates the crude price is a CIF value



# **Crude Carbon Intensity**

A daily supplement to Crude Oil Marketwire

### Platts crude carbon intensity assessments - grades, July 5, 2023 (PGA/PCR page 4206)

	Daily Carbon Inte	nsity Premium	Mo	onthly Carbor	n Intensity*
	Symbol	\$/b	Symbol	Date	kg CO2 eq/b
North America (PGA/PCR pa	age 4206)				
WTI Midland	WXTIC00	0.54	WXTIC40	May-23	37.85
Europe (PGA/PCR page 4206)					
Brent	BXREC00	0.83	BXREC40	May-23	58.42
Ekofisk	EXKOC00	0.33	EXK0C40	May-23	23.19
Forties	FXORC00	0.33	FXORC40	May-23	23.21
Oseberg	OXSEC00	1.26	OXSEC40	May-23	88.50
Troll	TXROC00	3.83	TXROC40	May-23	269.85

Upstream CI values are modelled on a marginal basis and are published monthly. CI Premiums are assessed daily.

Details on the Platts methodology can be found at spglobal.com/commodityinsights/.

### Platts crude carbon intensity assessments - fields, July 5, 2023 (PGA page 4200)

	Daily Carbon Intensity Premium		Me	onthly Carbon Intensity* Daily Transport Carbon			Intensity Pre	mium	Monthly	Monthly Transport Carbon Intensity**		
	Symbol	\$/boe	Symbol	Date	kg CO2 eq/boe	Route	Symbol	\$/b	Symbol	Date	kg CO2 eq/b	
Asia Pacific & Middle E	ast Fields (PGA/PCR page 4	i201)										
China												
Bozhong	BOZHC00	0.44	BOZHC40	May-23	30.93	Bohai Pengbo-Singapore	BOZHC10	0.06	BOZHC50	May-23	4.24	
India												
Bombay High	MUMBC00	0.37	MUMBC40	May-23	26.03	Bombay High-Qingdao	MUMBC10	0.10	MUMBC50	May-23	6.80	
Iran												
Marun	MARUC00	0.51	MARUC40	May-23	36.10	Kharg Island-Qingdao	MARUC10	0.13	MARUC50	May-23	8.96	
Iraq												
Kirkuk	KIRKC00	0.72	KIRKC40	May-23	50.90	Ceyhan-R'dam	KIRKC10	0.07	KIRKC50	May-23	4.55	
Rumaila	RUMAC00	0.31	RUMAC40	May-23	21.56	Al Basrah-Sikka	RUMAC10	0.03	RUMAC50	May-23	2.09	
West Qurna-2	WESTC00	0.37	WESTC40	May-23	26.16	Al Basrah-Sikka	WESTC10	0.03	WESTC50	May-23	2.22	
Zubair	ZUBAC00	0.76	ZUBAC40	May-23	53.82	Al Basrah-Sikka	ZUBAC10	0.03	ZUBAC50	May-23	2.09	
Kuwait												
Burgan	BURGC00	0.24	BURGC40	May-23	16.73	Mina-Ulsan	BURGC10	0.13	BURGC50	May-23	9.31	
Qatar												
Dukhan	DUKHC00	1.63	DUKHC40	May-23	114.47	Mesaieed-Singapore	DUKHC10	0.07	DUKHC50	May-23	5.03	
Saudi Arabia												
Ghawar	GHWRC00	0.25	GHWRC40	May-23	17.57	Ras Tanura-Qingdao	GHWRC10	0.12	GHWRC50	May-23	8.33	
Safaniya	SAFAC00	0.22	SAFAC40	May-23	15.56	Ras Tanura-Changxing	SAFAC10	0.14	SAFAC50	May-23	9.53	
Zuluf	ZULUC00	0.32	ZULUC40	May-23	22.56	Ras Tanura-Changxing	ZULUC10	0.13	ZULUC50	May-23	9.24	

<sup>\*</sup>Upstream marginal CI value is assessed from the field to the storage terminal.

### Platts crude carbon intensity assessments - fields (continued) (PGA page 4200)

	Daily Carbon Int	Monthly Carbon Intensity*			Daily Transport Carbon Intensity Premium			Monthly Transport Carbon Intensity**			
	Symbol	\$/boe	Symbol	Date	kg CO2 eq/boe	Route	Symbol	\$/b	Symbol	Date	kg CO2 eq/b
UAE	- <b>,</b>		,		8		.,		, , , , , ,		0 1
Fateh	FATEC00	0.24	FATEC40	May-23	17.12	Fateh-Kiire	FATEC10	0.12	FATEC50	May-23	8.56
Murban	MURBC00	0.28	MURBC40	May-23	19.54	Fujairah-Chiba	MURBC10	0.12	MURBC50	May-23	8.55
		0.20	HORDOTO	May 20	10.01	r ajanan omba	HORBOID	0.12	HORDOOD	Way 20	0.00
Africa Fields (PGA/PCR pag	(e 4202)										
Angola		0.47		M 00	11.01	Circa and Circardo		0.10		M 00	10.10
Girassol	GRSLC00	0.17	GRSLC40	May-23	11.81	Girassol-Qingdao	GRSLC10	0.19	GRSLC50	May-23	13.18
Libya											
Waha	WAHAC00	0.48	WAHAC40	May-23	34.01	Zawia-Augusta	WAHAC10	0.01	WAHAC50	May-23	0.4
Nigeria											
Agbami	AGBAC00	0.37	AGBAC40	May-23	26.03	Agbami-Paradip	AGBAC10	0.15	AGBAC50	May-23	10.25
Bonga	BONGC00	0.18	BONGC40	May-23	12.35	Bonga-R'dam	BONGC10	0.09	BONGC50	May-23	6.26
Europe Fields (PGA/PCR pa	age 4202)										
Azerbaijan											
Azeri	AZERC00	0.26	AZERC40	May-23	18.09	Ceyhan-Sarroch	AZERC10	0.03	AZERC50	May-23	1.93
Kazakhstan											
Tengiz	TNGZC00	0.28	TNGZC40	May-23	19.48	Novo-R'dam	TNGZC10	0.07	TNGZC50	May-23	4.62
Norway											
Alvheim	ALVHC00	0.11	ALVHC40	May-23	7.80	Alvheim-Le Havre	ALVHC10	0.01	ALVHC50	May-23	0.85
Brage	BRAGC00	1.08	BRAGC40	May-23	76.15	Sture - Brofjorden	BRAGC10	0.01	BRAGC50	May-23	0.48
Edvard-Grieg	EDVAC00	0.06	EDVAC40	May-23	4.29	Edvard Grieg-Sarroch	EDVAC10	0.04	EDVAC50	May-23	2.97
Ekofisk	EKFSC00	0.39	EKFSC40	May-23	27.32	Teesside-R'dam	EKFSC10	0.01	EKFSC50	May-23	0.36
Embla	EMBLC00	0.08	EMBLC40	May-23	5.34	Teesside-R'dam	EMBLC10	0.01	EMBLC50	May-23	0.36
Fram	FRAMC00	0.36	FRAMC40	May-23	25.01	Mongstad-R'dam	FORTD10	0.01	FORTD50	May-23	0.84
Goliat	GOLIC00	0.03	GOLIC40	May-23	2.14	Goliat-R'dam	GOLIC10	0.03	GOLIC50	May-23	1.73
Grane	GRANC00	0.06	GRANC40	May-23	4.43	Sture-Immingham	GRANC10	0.01	GRANC50	May-23	0.63
Gullfaks	GULLC00	0.22	GULLC40	May-23	15.21	Gullfaks-Brofjorden	GULLC10	0.01	GULLC50	May-23	0.46
Heidrun	HEIDC00	0.17	HEIDC40	May-23	12.25	Heidrun-R'dam	HEIDC10	0.02	HEIDC50	May-23	1.22
Ivar-Aasen	IVARC00	0.04	IVARC40	May-23	2.44	Ivar Aasen-R'dam	IVARC10	0.01	IVARC50	May-23	0.80
Johan Sverdrup	JSVRC00	0.02	JSVRC40	May-23	1.58	Mongstad-R'dam	JSVRC10	0.01	JSVRC50	May-23	0.79
Oseberg	OSEBC00	0.28	OSEBC40	May-23	19.78	Sture-R'dam	OSEBC10	0.01	OSEBC50	May-23	0.69
Snorre	SNORC00	0.20	SNORC40	May-23	13.93	Snorre-Statfjord	SNORC10	0.00	SNORC50	May-23	0.14
Statfjord	STATC00	3.22	STATC40	May-23	226.52	Statfjord-R'dam	STATC10	0.01	STATC50	May-23	0.75
Troll	TROLC00	0.28	TROLC40	May-23	19.71	Mongstad-R'dam	TROLC10	0.01	TROLC50	May-23	0.79
Ula	ULACC00	0.67	ULACC40	May-23	46.97	Teesside-R'dam	ULACC10	0.01	ULACC50	May-23	0.37
Valhall	VALHC00	0.08	VALHC40	May-23	5.47	Valhall-R'dam	VALHC10	0.01	VALHC50	May-23	0.35
United Kingdom											
Alwyn North	ALWYC00	0.07	ALWYC40	May-23	4.84	Sullom Voe-R'dam	ALWYC10	0.01	ALWYC50	May-23	0.81
Arbroath	ARBRC00	0.12	ARBRC40	May-23	8.60	Houndpoint-R'dam	ARBRC10	0.01	ARBRC50	May-23	0.55
Auk	AUKCD00	0.51	AUKCC40	May-23	35.92	Teesside-R'dam	AUKCC10	0.01	AUKCC50	May-23	0.37
Brae	BRAEC00	0.16	BRAEC40	May-23	10.93	Houndpoint-R'dam	BRAEC10	0.01	BRAEC50	May-23	0.56
Bruce	BRUCC00	0.80	BRUCC40	May-23	56.56	Houndpoint-R'dam	BRUCC10	0.01	BRUCC50	May-23	0.56
Buzzard	BZRDC00	0.30	BZRDC40	May-23	20.94	Houndpoint-R'dam	BZRDC10	0.01	BZRDC50	May-23	0.53
Captain	CAPTC00	0.36	CAPTC40	May-23	25.42	Captain-Hamburg	CAPTC10	0.01	CAPTC50	May-23	0.72
Catcher	CATCC00	0.22	CATCC40	May-23	15.24	Catcher-R'dam	CATCC10	0.01	CATCC50	May-23	0.48

### Platts crude carbon intensity assessments - fields (continued) (PGA page 4200)

Symbol   S		Daily Carbon Intensity Premium		Monthly Carbon Intensity*		on Intensity*	Daily Transport Carbon Intensity Premium			Monthly Transport Carbon Intensity**		
Cycles		Symbol	\$/boe	Symbol	Date	kg CO2 eq/boe	Route	Symbol	\$/b	Symbol	Date	kg CO2 eq/b
Common	Clair	CLAIC00	0.14	CLAIC40	May-23	10.02	Clair-Stanlow	CLAIC10	0.01	CLAIC50	May-23	0.91
Febreta	Clyde	CLYDC00	0.33	CLYDC40	May-23	23.16	Teesside-R'dam	CLYDC10	0.01	CLYDC50	May-23	0.37
Fortice	Cormorant	CORMC00	0.82	CORMC40	May-23	57.96	Sullom Voe-R'dam	CORMC10	0.01	CORMC50	May-23	0.82
Sample	Everest	EVERC00	0.20	EVERC40	May-23	14.02	Houndpoint-R'dam	EVERC10	0.01	EVERC50	May-23	0.55
Solden-Eagle	Forties	FORTC00	0.22	FORTC40	May-23	15.33	Houndpoint-R'dam	FORTC10	0.01	FORTC50	May-23	0.56
Johnson	Gannet	GANNC00	0.24	GANNC40	May-23	17.00	Teesside-R'dam	GANNC10	0.01	GANNC50	May-23	0.38
Judy   Judy   Judy   Judy   Judy   May   28   28 - 04   Teesalde Riam   Judy   Judy   Judy   May   23   0.38   May   2	Golden-Eagle	GOLDC00	0.31	GOLDC40	May-23	22.08	Golden Eagle-Grangemo	uth GOLDC10	0.00	GOLDC50	May-23	0.14
Magnus   Mancale   Manca	Joanne	JOANC00	0.08	JOANC40	May-23	5.86	Teesside-R'dam	JOANC10	0.01	JOANC50	May-23	0.37
Magnus	Judy	JUDYC00	0.38	JUDYC40	May-23	26.40	Teesside-R'dam	JUDYC10	0.01	JUDYC50	May-23	0.38
Mariner   Mattes   0.27   Mattes   May-23   1.8.97   Mariner-Pascagula   Mattes   0.10   Mattes   May-23   0.55   Misson   Nelson   Nels	Kraken	KRAKC00	0.26	KRAKC40	May-23	18.55	Kraken-R'dam	KRAKC10	0.01	KRAKC50	May-23	0.80
Nelscore	Magnus	MAGNC00	0.17	MAGNC40	May-23	12.08	Sullom Voe-R'dam	MAGNC10	0.01	MAGNC50	May-23	0.81
Ninian   Ninicae   2.01   Ninicae   May-23   14.12   Sultom Veer-Rifarm   Ninicae   0.01   Ninicae   May-23   0.33   0.35   Schiehallion   Schicoe   0.15   Schicee   May-23   1.7.61   Schiehallion-Rifarm   Schicce   0.01   Schicoe   May-23   0.55   Scott   Scottce   0.15   Scottce   May-23   1.1.61   Houndpoint-Rifarm   Scottce   0.01   Schicoe   May-23   0.55   Tiffary   Tiffree   0.20   Tiffree   May-23   1.1.7.3   Houndpoint-Rifarm   Tiffree   0.01   Tiffree   May-23   0.55   Rosa   Scottce   Ninicae   0.25   Tomricae   May-23   1.1.7.3   Houndpoint-Rifarm   Tiffree   0.01   Tiffree   May-23   0.55   Rosa   Samctor   Samcee   0.41   Samcee   May-23   29.00   Primorsk-Rifarm   Tiffree   0.01   Tiffree   May-23   0.55   Rosa   Samcee   0.41   Samcee   May-23   29.00   Primorsk-Rifarm   Samcee   0.05   Samcee   May-23   0.55   Rosa   Samcee   0.41   Samcee   May-23   29.00   Primorsk-Rifarm   Samcee   0.05   Samcee   May-23   0.55   Rosa   Samcee   0.41   Samcee   May-23   3.58   Canada-USMW   Samcee   0.06   Samcee   May-23   3.58   Rosa   Canada-USMW   Colicce   0.07   Colicce   May-23   3.58   Rosa   Canada-USMW   Colicce   0.07   Colicce   May-23   5.69   Rosa   Cyc Christina Lake   Cyc Cyc   0.07   Cyc Cyc   May-23   5.69   Rosa   Cyc Christina Lake   Cyc Cyc   0.08   Northean   May-23   5.69   Rosa   Cyc Christina Lake   Cyc Cyc   0.08   Northean   May-23   5.69   Rosa   Cyc Christina Lake   Cyc Cyc   0.09   Northean   May-23   5.69   Rosa   Rosa	Mariner	MARIC00	0.27	MARIC40	May-23	18.97	Mariner-Pascagoula	MARIC10	0.10	MARIC50	May-23	6.85
Schieffallion	Nelson	NELSC00	0.14	NELSC40	May-23	9.58	Houndpoint-R'dam	NELSC10	0.01	NELSC50	May-23	0.55
Scott	Ninian	NINIC00	2.01	NINIC40	May-23	141.27	Sullom Voe-R'dam	NINIC10	0.01	NINIC50	May-23	0.83
Tiffany         Tifface         0.20         Tifface         May-23         14.13         Houndpoint-Rdam         Tifface         0.01         Tifface         May-23         0.55           Russia         Samotor         samotor<	Schiehallion	SCHIC00	0.25	SCHIC40	May-23	17.61	Schiellhallion-R'dam	SCHIC10	0.01	SCHIC50	May-23	0.85
Tonic	Scott	SCOTC00	0.15	SCOTC40	May-23	10.67	Houndpoint-R'dam	SCOTC10	0.01	SCOTC50	May-23	0.55
Name	Tiffany	TIFFC00	0.20	TIFFC40	May-23	14.13	Houndpoint-R'dam	TIFFC10	0.01	TIFFC50	May-23	0.55
Samotlor   Samocee   O.41   Samocee   May-23   20.0   Primorsk-Rdam   Samocee   O.03   Samocee   May-23   1.97	Toni	TONIC00	0.25	TONIC40	May-23	17.43	Houndpoint-R'dam	TONIC10	0.01	TONIC50	May-23	0.55
North America Fields	Russia											
Canada (PGA/PCR page 4204)           Bakken-Canada         BAKKC80         0.51         BAKKC40         May-23         35.88         Canada-USMW         BAKKC10         0.06         BAKKC50         May-23         3.91           Cold Lake         CDLK060         1.18         CDLKC40         May-23         82.95         W Canada-USMW         CDLKC10         0.07         CDLKC50         May-23         4.86           CVE Christina Lake         CVECC060         0.63         CVECC064         May-23         56.69         Canada-USMW         CVECC06         0.07         CVECC065         May-23         4.86           Foster Creek         Fostc00         0.83         Fostc40         May-23         56.69         Canada-USGC         Fostc10         0.08         Fostc50         May-23         5.69           Hebron         HEBR060         0.14         HEBR040         May-23         29.68         Hebron-Canada         HEBRC10         0.13         HEBR050         May-23         8.89           JackC10         JACKC60         0.96         JACKC40         May-23         67.46         Canada-USMW         JACKC10         0.06         JACKC50         May-23         4.37           MEG Christina Lake         MESC020         <	Samotlor	SAMOC00	0.41	SAMOC40	May-23	29.00	Primorsk-R'dam	SAMOC10	0.03	SAMOC50	May-23	1.97
Bakken-Canada	North America Fields											
Cold Lake   CDLKC06	Canada (PGA/PCR page 4	204)										
CVE Christina Lake         CVECC00         0.63         CVECC40         May-23         44.29         Canada-USGC         FOSTC10         0.08         FOSTC50         May-23         5.69           Foster Creek         FOSTC00         0.83         FOSTC40         May-23         56.69         Canada-USGC         FOSTC10         0.08         FOSTC50         May-23         5.69           Hebron         HEBRC00         0.14         HEBRC40         May-23         9.68         Hebron-Canada         HEBRC10         0.13         HEBRC50         May-23         9.82           Jackfish         JACKC00         0.96         JACKC40         May-23         67.46         Canada-USGC         0.06         JACKC50         May-23         4.37           MEG Christina Lake         MEGCC00         0.82         MEGCC40         May-23         55.06         Canada-USGC         MEGC10         0.09         MEGC50         May-23         5.99           Montney Shale         Montroe         0.39         Montroe         May-23         27.58         Montney-Canada         Montroe         0.01         Montroe         May-23         0.81           Surmont         Sumcon         sumcon         0.91         sumcon         May-23         27.58	Bakken-Canada	BAKKC00	0.51	BAKKC40	May-23	35.88	Canada-USMW	BAKKC10	0.06	BAKKC50	May-23	3.91
Foster Creek   Fostcee   Canada-USGC   FostCie   Canada-USGC   FostCie   Canada-USGC   FostCie   Canada-USGC   FostCie   Canada-USGC   FostCie   Canada-USGC   FostCie   Canada-USGC   Canada-USGC   FostCie   Canada-USGC   Can	Cold Lake	CDLKC00	1.18	CDLKC40	May-23	82.95	W Canada-USMW	CDLKC10	0.07	CDLKC50	May-23	4.86
Hebron   Hebron   Hebron   Hebron   Hebron   May-23   M	CVE Christina Lake	CVECC00	0.63	CVECC40	May-23	44.29	Canada-USMW	CVECC10	0.07	CVECC50	May-23	4.86
Hibernia   Hibernia	Foster Creek	FOSTC00	0.83	F0STC40	May-23	58.69	Canada-USGC	FOSTC10	0.08	FOSTC50	May-23	5.69
Jackfish   Jackcee   Jac	Hebron	HEBRC00	0.14	HEBRC40	May-23	9.68	Hebron-Canada	HEBRC10	0.13	HEBRC50	May-23	8.89
MEG Christina Lake         MEGCC00         0.82         MEGCC40         May-23         58.06         Canada-USGC         MEGCC10         0.09         MEGC50         May-23         5.99           Montney Shale         MONTC00         0.39         MONTC40         May-23         27.58         Montney-Canada         MONTC10         0.01         MONTC50         May-23         0.81           Surmont         SURMC00         0.91         SURMC40         May-23         63.92         Canada-USGC         SURMC10         0.08         SURMC50         May-23         5.54           United States (PGA/PCR page 4205)           BAKNC10         0.28         BAKNC40         May-23         19.50         Beaumont-R'dam         BAKNC10         0.09         BAKNC50         May-23         6.46           Denver-Julesburg         DENVC00         0.40         DENVC40         May-23         28.37         Denver-USGC         DENVC10         0.04         DENVC50         May-23         12.47           Eagle Ford         EGFDC00         0.24         EGFDC40         May-23         13.72         Mers-Qingdao         EGFDC10         0.18         EGFDC50         May-23         12.85           Mars-Ursa         MRU000         0.24 </td <td>Hibernia</td> <td>HIBEC00</td> <td>0.39</td> <td>HIBEC40</td> <td>May-23</td> <td>27.16</td> <td>Hibernia-Canada</td> <td>HIBEC10</td> <td>0.14</td> <td>HIBEC50</td> <td>May-23</td> <td>9.82</td>	Hibernia	HIBEC00	0.39	HIBEC40	May-23	27.16	Hibernia-Canada	HIBEC10	0.14	HIBEC50	May-23	9.82
Montney Shale         MonTc00         0.39         MonTc40         May-23         27.58         Montney-Canada         MonTc10         0.01         MonTc50         May-23         0.81           Surmont         SURMC00         0.91         SURMC40         May-23         63.92         Canada-USGC         SURMC10         0.08         SURMC50         May-23         5.54           United States (PGA/PCR page 4205)         BAKNC00         0.28         BAKNC40         May-23         19.50         Beaumont-R'dam         BAKNC10         0.09         BAKNC50         May-23         6.46           Denver-Julesburg         DENVC00         0.40         DENVC40         May-23         28.37         Denver-USGC         DENVC10         0.04         DENVC50         May-23         2.47           Eagle Ford         EefDC00         0.24         EefDC40         May-23         16.89         Houston-Qingdao         EefDc10         0.18         EefDc50         May-23         12.85           Mars-Ursa         MRURc00         0.20         MRURc40         May-23         13.72         Mars-Qingdao         MRURc10         0.20         MRURc50         May-23         14.04           Permian Delaware         PRDL000         0.24         PRDL040 <td>Jackfish</td> <td>JACKC00</td> <td>0.96</td> <td>JACKC40</td> <td>May-23</td> <td>67.46</td> <td>Canada-USMW</td> <td>JACKC10</td> <td>0.06</td> <td>JACKC50</td> <td>May-23</td> <td>4.37</td>	Jackfish	JACKC00	0.96	JACKC40	May-23	67.46	Canada-USMW	JACKC10	0.06	JACKC50	May-23	4.37
Surmont         SURMC00         0.91         SURMC40         May-23         63.92         Canada-USGC         SURMC10         0.08         SURMC50         May-23         5.54           United States (PGA/PCR page 4205)         United States (PGA/PCR page 4205)         BAKNC00         0.28         BAKNC40         May-23         19.50         Beaumont-R'dam         BAKNC10         0.09         BAKNC50         May-23         6.46           Denver-Julesburg         DENVC00         0.40         DENVC40         May-23         28.37         Denver-USGC         DENVC10         0.04         DENVC50         May-23         2.47           Eagle Ford         EGFDC00         0.24         EGFDC40         May-23         16.89         Houston-Qingdao         EGFDC10         0.18         EGFDC50         May-23         12.85           Mars-Ursa         MRURC00         0.20         MRURC40         May-23         13.72         Mars-Qingdao         MRURC10         0.20         MRURC50         May-23         14.04           Permian Delaware         PRDL000         0.24         PRDLC40         May-23         17.21         Corpus Christi-R'dam         PRDL010         0.09         PRDL050         May-23         6.51           Permian Midland         PRMD000 <td>MEG Christina Lake</td> <td>MEGCC00</td> <td>0.82</td> <td>MEGCC40</td> <td>May-23</td> <td>58.06</td> <td>Canada-USGC</td> <td>MEGCC10</td> <td>0.09</td> <td>MEGCC50</td> <td>May-23</td> <td>5.99</td>	MEG Christina Lake	MEGCC00	0.82	MEGCC40	May-23	58.06	Canada-USGC	MEGCC10	0.09	MEGCC50	May-23	5.99
Dunited States (PGA/PCR page 4205)   Bakken   Bakn000   0.28   Bakn040   May-23   19.50   Beaumont-R'dam   Bakn010   0.09   Bakn050   May-23   6.46     Denver-Julesburg   Denv000   0.40   Denv040   May-23   28.37   Denver-USGC   Denv010   0.04   Denv050   May-23   2.47     Eagle Ford   EgFD000   0.24   EGFD040   May-23   16.89   Houston-Qingdao   EGFD010   0.18   EGFD050   May-23   12.85     Mars-Ursa   Mrurc00   0.20   Mrurc40   May-23   13.72   Mars-Qingdao   Mrurc10   0.20   Mrurc50   May-23   14.04     Permian Delaware   PRDL000   0.24   PRDL040   May-23   17.21   Corpus Christi-R'dam   PRDL010   0.09   PRDL050   May-23   6.51     Permian Midland   PRMD000   0.27   PRMD040   May-23   18.96   Corpus Christi-R'dam   PRMD010   0.10   PRMD050   May-23   6.70     Prudhoe-Bay   PRUD000   0.46   PRUD040   May-23   32.03   Alaska-USWC   PRUD010   0.04   PRUD050   May-23   2.86     San-Joaquin   SANM000   2.50   SANM040   May-23   32.36   Oklahoma-USGC   SC00010   0.01   SANAC50   May-23   1.01     SC00P-STACK   SC00000   0.46   SC000040   May-23   32.36   Oklahoma-USGC   SC00010   0.01   SC00050   May-23   1.01     SANAC50   May-23   1.01   SC00050   May-23   1.01     SANAC50   May-23   1.01   SC00050   May-23   1.01     SANAC50   May-23   1.01   SC00050   May-23   1.01     SC00P-STACK   SC00000   0.46   SC000040   May-23   32.36   Oklahoma-USGC   SC00010   0.01   SC00050   May-23   1.01     SANAC50   May-23   1.01   SC00050   May	Montney Shale	MONTC00	0.39	MONTC40	May-23	27.58	Montney-Canada	MONTC10	0.01	MONTC50	May-23	0.81
Bakken         BAKNC00         0.28         BAKNC40         May-23         19.50         Beaumont-R'dam         BAKNC10         0.09         BAKNC50         May-23         6.46           Denver-Julesburg         DENVC00         0.40         DENVC40         May-23         28.37         Denver-USGC         DENVC10         0.04         DENVC50         May-23         2.47           Eagle Ford         EGFDC00         0.24         EGFDC40         May-23         16.89         Houston-Qingdao         EGFDC10         0.18         EGFDC50         May-23         12.85           Mars-Ursa         MRURC00         0.20         MRURC40         May-23         13.72         Mars-Qingdao         MRURC10         0.20         MRURC50         May-23         14.04           Permian Delaware         PRDLC00         0.24         PRDLC40         May-23         17.21         Corpus Christi-R'dam         PRDLC10         0.09         PRDLC50         May-23         6.51           Permian Midland         PRMDC00         0.27         PRMDC40         May-23         18.96         Corpus Christi-R'dam         PRMDC10         0.10         PRMDC50         May-23         6.70           Prudhoe-Bay         PRUDC00         0.46         PRUDC40         May-	Surmont	SURMC00	0.91	SURMC40	May-23	63.92	Canada-USGC	SURMC10	0.08	SURMC50	May-23	5.54
Denver-Julesburg         DENVC00         0.40         DENVC40         May-23         28.37         Denver-USGC         DENVC10         0.04         DENVC50         May-23         2.47           Eagle Ford         EGFDC00         0.24         EGFDC40         May-23         16.89         Houston-Qingdao         EGFDC10         0.18         EGFDC50         May-23         12.85           Mars-Ursa         MRURC00         0.20         MRURC40         May-23         13.72         Mars-Qingdao         MRURC10         0.20         MRURC50         May-23         14.04           Permian Delaware         PRDLC00         0.24         PRDLC40         May-23         17.21         Corpus Christi-R'dam         PRDLC10         0.09         PRDLC50         May-23         6.51           Permian Midland         PRMDC00         0.27         PRMDC40         May-23         18.96         Corpus Christi-R'dam         PRMDC10         0.10         PRMDC50         May-23         6.70           Prudhoe-Bay         PRUDC00         0.46         PRUDC40         May-23         32.03         Alaska-USWC         PRUDC10         0.04         PRUDC50         May-23         2.86           San-Joaquin         SANMC00         2.50         SANMC40         Ma	United States (PGA/PCR p	page 4205)										
Eagle Ford         EGFDC00         0.24         EGFDC40         May-23         16.89         Houston-Qingdao         EGFDC10         0.18         EGFDC50         May-23         12.85           Mars-Ursa         MRURC00         0.20         MRURC40         May-23         13.72         Mars-Qingdao         MRURC10         0.20         MRURC50         May-23         14.04           Permian Delaware         PRDLC00         0.24         PRDLC40         May-23         17.21         Corpus Christi-R'dam         PRDLC10         0.09         PRDLC50         May-23         6.51           Permian Midland         PRMDC00         0.27         PRMDC40         May-23         18.96         Corpus Christi-R'dam         PRMDC10         0.10         PRMDC50         May-23         6.70           Prudhoe-Bay         PRUDC00         0.46         PRUDC40         May-23         32.03         Alaska-USWC         PRUDC10         0.04         PRUDC50         May-23         2.86           San-Joaquin         SANMC00         2.50         SANMC40         May-23         175.84         San Joaquin-SoCal         SANAC10         0.01         SANAC50         May-23         0.77           SCOOP-STACK         SCOOC00         0.46         SCOOC40	Bakken	BAKNC00	0.28	BAKNC40	May-23	19.50	Beaumont-R'dam	BAKNC10	0.09	BAKNC50	May-23	6.46
Mars-Ursa         MRURC00         0.20         MRURC40         May-23         13.72         Mars-Qingdao         MRURC10         0.20         MRURC50         May-23         14.04           Permian Delaware         PRDLC00         0.24         PRDLC40         May-23         17.21         Corpus Christi-R'dam         PRDLC10         0.09         PRDLC50         May-23         6.51           Permian Midland         PRMDC00         0.27         PRMDC40         May-23         18.96         Corpus Christi-R'dam         PRMDC10         0.10         PRMDC50         May-23         6.70           Prudhoe-Bay         PRUDC00         0.46         PRUDC40         May-23         32.03         Alaska-USWC         PRUDC10         0.04         PRUDC50         May-23         2.86           San-Joaquin         SANMC00         2.50         SANMC40         May-23         175.84         San Joaquin-SoCal         SANAC10         0.01         SANAC50         May-23         0.77           SCOOP-STACK         SCOOC00         0.46         SCOOC40         May-23         32.36         Oklahoma-USGC         SCOOC10         0.01         SCOOC50         May-23         1.01	Denver-Julesburg	DENVC00	0.40	DENVC40	May-23	28.37	Denver-USGC	DENVC10	0.04	DENVC50	May-23	2.47
Permian Delaware         PRDLC00         0.24         PRDLC40         May-23         17.21         Corpus Christi-R'dam         PRDLC10         0.09         PRDLC50         May-23         6.51           Permian Midland         PRMDC00         0.27         PRMDC40         May-23         18.96         Corpus Christi-R'dam         PRMDC10         0.10         PRMDC50         May-23         6.70           Prudhoe-Bay         PRUDC00         0.46         PRUDC40         May-23         32.03         Alaska-USWC         PRUDC10         0.04         PRUDC50         May-23         2.86           San-Joaquin         SANMC00         2.50         SANMC40         May-23         175.84         San Joaquin-SoCal         SANAC10         0.01         SANAC50         May-23         0.77           SCOOP-STACK         SCOOC00         0.46         SCOOC40         May-23         32.36         Oklahoma-USGC         SCOOC10         0.01         SCOOC50         May-23         1.01	Eagle Ford	EGFDC00	0.24	EGFDC40	May-23	16.89	Houston-Qingdao	EGFDC10	0.18	EGFDC50	May-23	12.85
Permian Midland         PRMDC00         0.27         PRMDC40         May-23         18.96         Corpus Christi-R'dam         PRMDC10         0.10         PRMDC50         May-23         6.70           Prudhoe-Bay         PRUDC00         0.46         PRUDC40         May-23         32.03         Alaska-USWC         PRUDC10         0.04         PRUDC50         May-23         2.86           San-Joaquin         SANMC00         2.50         SANMC40         May-23         175.84         San Joaquin-SoCal         SANAC10         0.01         SANAC50         May-23         0.77           SCOOP-STACK         SCOOC00         0.46         SCOOC40         May-23         32.36         Oklahoma-USGC         SCOOC10         0.01         SCOOC50         May-23         1.01	Mars-Ursa	MRURC00	0.20	MRURC40	May-23	13.72	Mars-Qingdao	MRURC10	0.20	MRURC50	May-23	14.04
Prudhoe-Bay         PRUDC00         0.46         PRUDC40         May-23         32.03         Alaska-USWC         PRUDC10         0.04         PRUDC50         May-23         2.86           San-Joaquin         SANMC00         2.50         SANMC40         May-23         175.84         San Joaquin-SoCal         SANAC10         0.01         SANAC50         May-23         0.77           SCOOP-STACK         SCOOC00         0.46         SCOOC40         May-23         32.36         Oklahoma-USGC         SCOOC10         0.01         SCOOC50         May-23         1.01	Permian Delaware	PRDLC00	0.24	PRDLC40	May-23	17.21	Corpus Christi-R'dam	PRDLC10	0.09	PRDLC50	May-23	6.51
San-Joaquin         SANMC00         2.50         SANMC40         May-23         175.84         San Joaquin-SoCal         SANAC10         0.01         SANAC50         May-23         0.77           SCOOP-STACK         SCOOC00         0.46         SCOOC40         May-23         32.36         Oklahoma-USGC         SCOOC10         0.01         SCOOC50         May-23         1.01	Permian Midland	PRMDC00	0.27	PRMDC40	May-23	18.96	Corpus Christi-R'dam	PRMDC10	0.10	PRMDC50	May-23	6.70
SCOOP-STACK scooce 0.46 scooce May-23 32.36 Oklahoma-USGC scooce 0.01 scooce May-23 1.01	Prudhoe-Bay	PRUDC00	0.46	PRUDC40	May-23	32.03	Alaska-USWC	PRUDC10	0.04	PRUDC50	May-23	2.86
· · · · · · · · · · · · · · · · · · ·	San-Joaquin	SANMC00	2.50	SANMC40	May-23	175.84	San Joaquin-SoCal	SANAC10	0.01	SANAC50	May-23	0.77
Tahiti         TAHIC00         0.24         TAHIC40         May-23         16.53         Tahiti-Yeosu         TAHIC10         0.19         TAHIC50         May-23         13.15	SCOOP-STACK	SC00C00	0.46	SC00C40	May-23	32.36	Oklahoma-USGC	SC00C10	0.01	SC00C50	May-23	1.01
	Tahiti	TAHIC00	0.24	TAHIC40	May-23	16.53	Tahiti-Yeosu	TAHIC10	0.19	TAHIC50	May-23	13.15

### Platts crude carbon intensity assessments - fields (continued) (PGA page 4200)

	Daily Carbon Intensity Premium		Мо	onthly Carbo	hly Carbon Intensity* Daily Transport Carbo			mium	Monthly	Monthly Transport Carbon Intensity**	
	Symbol	\$/boe	Symbol	Date	kg CO2 eq/boe	Route	Symbol	\$/b	Symbol	Date	kg CO2 eq/b
Latin America Fields (PG.	A/PCR page 4203)										
Brazil											
Tupi	TUPIC00	0.17	TUPIC40	May-23	12.19	Rio-Qingdao	TUPIC10	0.22	TUPIC50	May-23	15.64
Colombia											
Cusiana	CUSIC00	0.31	CUSIC40	May-23	21.98	Tolu-Houston	CUSIC10	0.03	CUSIC50	May-23	2.28
Ecuador											
Sacha	SACHC00	0.29	SACHC40	May-23	20.36	Esmeraldas-Long Beach	SACHC10	0.07	SACHC50	May-23	4.57
Mexico											
Cantarell	CNTLC00	0.22	CNTLC40	May-23	15.49	Cantarell-Bilbao	CNTLC10	0.10	CNTLC50	May-23	7.22
Venezuela											
Orinoco Oil Belt	ORINC00	3.83	ORINC40	May-23	270.03	Jose-Sikka	ORINC10	0.20	ORINC50	May-23	14.29

Upstream CI values are modelled on a marginal basis and are published monthly. Carbon Intensity Premiums are assessed daily. Venezuela's Orinoco Belt upstream marginal carbon intensity is calculated using only the Hamaca basin.

<sup>\*</sup>Upstream marginal CI number is assessed from the field to the storage terminal. \*\*Transport CI is calculated from storage terminal to refinery gate and for shipping routes assumes an Aframax vessel.

Details on the Platts methodology can be found at spglobal.com/commodityinsights/.

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