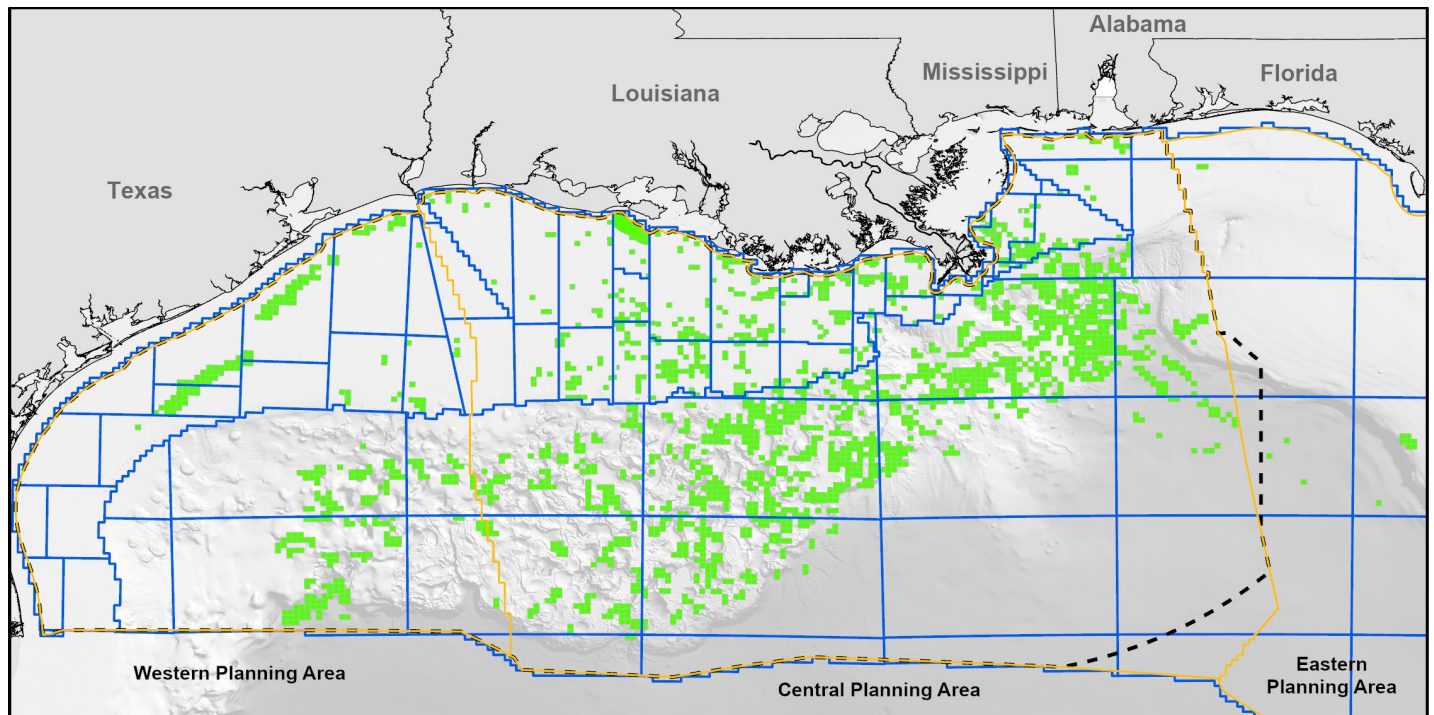


Top 40 Company Report

Gulf of Mexico Outer Continental Shelf

January 3, 2023



U.S. Department of the Interior
Bureau of Ocean Energy Management
New Orleans, Louisiana Office
Office of Resource Evaluation
Geological & Geophysical Section



Contents

List of Figures	ii
List of Tables	v
2023 Report Overview	1
Announced Discoveries: 2015 to 2022	2
Part I: 2023 Lease Ownership	3
Part II: 2022 and 2023 Lease Ownership Comparison	46
End Remarks	92

List of Figures

Figure 1. Company leased acreage in the Gulf of Mexico as of January 3, 2023, ordered by total leased acreage.	4
Figure 2. Company leased acreage in the Gulf of Mexico as of January 3, 2023, ordered by total number of active leases.	5
Figure 3. Rank 1 - Shell's 2023 leased acreage map	6
Figure 4. Rank 2 - BP's 2023 leased acreage map	7
Figure 5. Rank 3 - Chevron's 2023 leased acreage map.....	8
Figure 6. Rank 4 - Occidental's 2023 leased acreage map	9
Figure 7. Rank 5 - Exxon's 2023 leased acreage map.....	10
Figure 8. Rank 6 - Talos' 2023 leased acreage map	11
Figure 9. Rank 7 - Cox's 2023 leased acreage map	12
Figure 10. Rank 8 - Equinor's 2023 leased acreage map	13
Figure 11. Rank 9 – Woodside’s 2023 leased acreage map.....	14
Figure 12. Rank 10 – Fieldwood’s 2023 leased acreage map	15
Figure 13. Rank 11 - W & T's 2023 leased acreage map	16
Figure 14. Rank 12 – Arena’s 2023 leased acreage map.....	17
Figure 15. Rank 13 – EnVen’s 2023 leased acreage map.....	18
Figure 16. Rank 14 – Hess' 2023 leased acreage map	19
Figure 17. Rank 15 - Murphy's 2023 leased acreage map	20
Figure 18. Rank 16 - LLOG's 2023 leased acreage map.....	21
Figure 19. Rank 17 - QuarterNorth's 2023 leased acreage map.....	22
Figure 20. Rank 18 - Ridgewood's 2023 leased acreage map.....	23
Figure 21. Rank 19 - Beacon's 2023 leased acreage map	24
Figure 22. Rank 20 - Total's 2023 leased acreage map.....	25
Figure 23. Rank 21 - Cantium's 2023 leased acreage map	26
Figure 24. Rank 22 - Kosmos' 2023 leased acreage map	27
Figure 25. Rank 23 - Red Willow's 2023 leased acreage map.....	28
Figure 26. Rank 24 - Repsol's 2023 leased acreage map	29
Figure 27. Rank 25 - Walter's 2023 leased acreage map	30
Figure 28. Rank 26 - Ecopetrol's 2023 leased acreage map.....	31
Figure 29. Rank 27 – DG’s 2023 leased acreage map	32
Figure 30. Rank 28 - Eni's 2023 leased acreage map	33
Figure 31. Rank 29 - Houston Energy's 2023 leased acreage map	34
Figure 32. Rank 30 - Juneau's 2023 leased acreage map.....	35
Figure 33. Rank 31 - Petrobras' 2023 leased acreage map	36
Figure 34. Rank 32 - Renaissance's 2023 leased acreage map	37
Figure 35. Rank 33 - Focus' 2023 leased acreage map	38
Figure 36. Rank 34 - Orinoco's 2023 leased acreage map	39
Figure 37. Rank 35 - Byron's 2023 leased acreage map.....	40
Figure 38. Rank 36 - Petronas' 2023 leased acreage map	41
Figure 39. Rank 37 - Marubeni's 2023 leased acreage map	42
Figure 40. Rank 38 - Peregrine's 2023 leased acreage map	43
Figure 41. Rank 39 - Superior's 2023 leased acreage map	44
Figure 42. Rank 40 - CNOOC's 2023 leased acreage map	45

Figure 43. Gulf of Mexico 2022 and 2023 leased acreage comparison 47

Figure 44. Bar graph of the number of active leases in 2022 and 2023 for the Top 50 companies in the Gulf of Mexico .. 48

Figure 45. Bar graph of a company's lease loss or gain (%) from 2022 to 2023 49

Figure 46. Bar graph of the leased acreage in 2022 and 2023 for the Top 50 companies in the Gulf of Mexico 50

Figure 47. Bar graph of a company's leased acreage loss or gain (%) from 2022 to 2023 51

Figure 48. Rank 1 - Shell leased acreage comparison between 2022 and 2023 52

Figure 49. Rank 2 - BP leased acreage comparison between 2022 and 2023 53

Figure 50. Rank 3 - Chevron leased acreage comparison between 2022 and 2023 54

Figure 51. Rank 4 - Occidental leased acreage comparison between 2022 and 2023 55

Figure 52. Rank 5 - Exxon leased acreage comparison between 2022 and 2023 56

Figure 53. Rank 6 - Talos leased acreage comparison between 2022 and 2023 57

Figure 54. Rank 7 - Cox leased acreage comparison between 2022 and 2023..... 58

Figure 55. Rank 8 - Equinor leased acreage comparison between 2022 and 2023 59

Figure 56. Rank 9 - Woodside leased acreage comparison between 2022 and 2023 60

Figure 57. Rank 10 - Fieldwood leased acreage comparison between 2022 and 2023..... 61

Figure 58. Rank 11 – W & T leased acreage comparison between 2022 and 2023 62

Figure 59. Rank 12 - Arena leased acreage comparison between 2022 and 2023 63

Figure 60. Rank 13 - EnVen leased acreage comparison between 2022 and 2023 64

Figure 61. Rank 14 - Hess leased acreage comparison between 2022 and 2023 65

Figure 62. Rank 15 - Murphy leased acreage comparison between 2022 and 2023..... 66

Figure 63. Rank 16 - LLOG leased acreage comparison between 2022 and 2023 67

Figure 64. Rank 17 - QuarterNorth leased acreage comparison between 2022 and 2023 68

Figure 65. Rank 18 - Ridgewood leased acreage comparison between 2022 and 2023 69

Figure 66. Rank 19 - Beacon leased acreage comparison between 2022 and 2023..... 70

Figure 67. Rank 20 - Total leased acreage comparison between 2022 and 2023 71

Figure 68. Rank 21 - Cantium leased acreage comparison between 2022 and 2023..... 72

Figure 69. Rank 22 - Kosmos leased acreage comparison between 2022 and 2023 73

Figure 70. Rank 23 – Red Willow leased acreage comparison between 2022 and 2023 74

Figure 71. Rank 24 - Repsol leased acreage comparison between 2022 and 2023..... 75

Figure 72. Rank 25 - Walter leased acreage comparison between 2022 and 2023 76

Figure 73. Rank 26 - Ecopetrol leased acreage comparison between 2022 and 2023 77

Figure 74. Rank 27 – DG leased acreage comparison between 2022 and 2023..... 78

Figure 75. Rank 28 - Eni leased acreage comparison between 2022 and 2023..... 79

Figure 76. Rank 29 – Houston Energy leased acreage comparison between 2022 and 2023 80

Figure 77. Rank 30 - Juneau leased acreage comparison between 2022 and 2023 81

Figure 78. Rank 31 - Petrobras leased acreage comparison between 2022 and 2023..... 82

Figure 79. Rank 32 - Renaissance leased acreage comparison between 2022 and 2023..... 83

Figure 80. Rank 33 - Focus leased acreage comparison between 2022 and 2023 84

Figure 81. Rank 34 - Orinoco leased acreage comparison between 2022 and 2023..... 85

Figure 82. Rank 35 - Byron leased acreage comparison between 2022 and 2023 86

Figure 83. Rank 36 - Petronas leased acreage comparison between 2022 and 2023 87

Figure 84. Rank 37 - Marubeni leased acreage comparison between 2022 and 2023..... 88

Figure 85. Rank 38 - Peregrine leased acreage comparison between 2022 and 2023 89

Figure 86. Rank 39 - Superior leased acreage comparison between 2022 and 2023..... 90
Figure 87. Rank 40 - CNOOC leased acreage comparison between 2022 and 2023 91

List of Tables

Table 1. Gulf of Mexico announced discoveries in deep water from 2015 to 2022 arranged by announced date. 2

Table 2. Top 40 companies in the Gulf of Mexico ranked by companies' total area leased. 3

2023 Report Overview

The Bureau of Ocean Energy Management's (BOEM), Office of Resource Evaluation (RE), Geological and Geophysical (G&G) Section annually compiles a Top 40 Company Report (previously named Top 50 Company Report) to aid in the understanding in company activity and interest in geologic trends, short term changes in companies' ownership over time, company acquisitions and mergers, and assists in Fair Market Value (FMV) evaluation. The report graphically illustrates the top 40 oil and gas companies by lease ownership within the Gulf of Mexico Outer Continental Shelf (OCS). Lease ownership is determined by the company or companies listed as the Record Title Owner in the Serial Register. Leases owned by subsidiary companies are listed under their respective parent companies. For leases with multiple owners, lease acreages have been weighted according to each company's interest in the lease.

Corrections have been made to account for (1) leases that have been partitioned into aliquots by normalizing a lease owner's aliquot acreage to the total lease acreage and (2) leases that have more than one subsidiary company owning a percentage of the same lease by combining their individual leased acreages. Attempts have been made to accurately link subsidiary companies to their parent organization, but some errors may still exist.

This report has previously analyzed the fifty companies who own the most leased acreage in the Gulf of Mexico. The number of companies who own and operate leases has been steadily decreasing in the past ten years, mostly due to mergers, bankruptcies, and companies discontinuing their operations in the Gulf altogether. To refocus this report on the companies who have the largest lease holdings in the Gulf, the number of companies listed is being reduced from fifty to forty. The following lists the companies that were in the 2022 report but not the 2023 because of this reduction: ILX Holdings, APA Corporation, ConocoPhillips, Werrus Energy, Navitas Petroleum, CL&F Resources, and Monforte Exploration.

All lease and ownership information in this report are static as of January 3, 2023.

Announced Discoveries: 2015 to 2022

The announced discoveries are deep water discoveries that have been publicly published by a company's press release.

Table 1. Gulf of Mexico announced discoveries in deep water from 2015 to 2022 arranged by announced date.

Company	Prospect	Surface Block	Surface Lease	Announced Date	Spud Date
Hess	Huron	GC70	G35957	8/1/2022	2/1/2022
EnVen	Dothraki	GC166	G35655	2/1/2022	3/1/2020
Shell	Blacktip North	AC336	G36102	12/8/2021	7/29/2021
Shell	Leopard	AC691	G34771	5/11/2021	6/18/2020
Beacon	Tabasco	GC35	G36624	5/10/2021	7/8/2020
BP	Puma West	GC821	G34561	4/13/2021	10/15/2019
LLOG	Dome Patrol	MC505	G35827	2/22/2021	6/6/2020
Beacon	Winterfell	GC943	G36060	1/19/2021	11/12/2020
LLOG	Spruance	EW877	G35295	10/26/2020	6/14/2019
Equinor	Monument	WR 316	G36084	4/6/2020	12/15/2019
Hess	Tubular Bells/Esox	MC726	G24101	10/29/2019	9/9/2019
Murphy	Hoffe Park 2	MC122	G34424	8/8/2019	7/1/2019
W & T	Gladden Deep	MC800	G18292	6/4/2019	3/19/2019
Shell	King Embayment	MC764	G33170	6/4/2019	10/19/2018
Shell	Blacktip	AC380	G32954	4/24/2019	2/10/2019
BP	Nearly Headless Nick	MC387	G22873	1/8/2019	8/2/2018
BP	Manuel	MC520	G09821	1/8/2019	6/29/2018
Shell	Dover	MC612	G33166	5/24/2018	2/21/2018
Chevron	Ballymore	MC607	G34451	1/30/2018	10/24/2017
Stone	Mt. Providence	MC28	G09771	1/10/2018	12/13/2017
Deep Gulf Energy	Rampart	MC117	G35314	9/5/2017	6/3/2017
BHP Billiton	Wildling	GC520	G34985	8/1/2017	4/16/2017
Ecopetrol	Warrior 2	GC519	G34984	7/28/2017	4/30/2017
Shell	Whale	AC772	G35153	7/1/2017	4/23/2017
Houston Energy	Praline	MC74	G34886	5/1/2017	4/29/2017
Anadarko	Calpurnia	GC727/771	G16783	5/1/2017	3/7/2017
Chevron	Hoffe Park	MC166	G34424	5/1/2017	12/10/2016
Houston Energy	Mormont	GC478	G35662	3/1/2017	3/1/2017
Houston Energy	Khaleesi	GC389	G35864	2/1/2017	1/27/2017
Ecopetrol	Warrior	GC563	G34992	12/1/2016	8/26/2016
BHP Billiton	Caicos	GC564	G34993	10/1/2016	6/21/2016
Houston Energy	Stonefly	VK999	G33701	9/1/2016	9/7/2016
Houston Energy	Red Zinger	MC257	G35325	8/1/2016	5/18/2016
Shell	Fort Sumter	MC566	G08831	7/28/2016	1/28/2016
LLOG	Blue Wing Olive	MC427/471	G31498	3/1/2016	11/1/2015
ERT	Tornado	GC280/281	G33242	2/9/2016	12/31/2015
Kosmos	South Santa Cruz	MC563	G21176	2/1/2016	3/29/2015
LLOG	Claiborne	MC794	G34909	1/1/2016	10/26/2015
Freeport McMoRan	Horn Mountain Deep	MC126	G18194	9/28/2015	11/28/2005
LLOG	Ourse	MC895	G33764	7/1/2015	5/31/2015
Chevron	Sicily	KC814	G25810	6/19/2015	3/2/2015
LLOG	Crown & Anchor	VK959	G34874	6/1/2015	5/1/2015
Statoil	Yeti	WR160	G34634	2/1/2015	12/26/2014
Chevron	Anchor	GC807	G31752	1/6/2015	8/12/2014
Shell	Power Nap	MC943	G34467	1/1/2015	8/30/2014

Part I: 2023 Lease Ownership

The following tables, graphs, and figures detail the top forty companies that hold leases in the Gulf of Mexico. The map figures breakdown a company's percentage of ownership by color. All companies' subsidiaries that have been included in the lease totals are listed as well.

Table 2. Top 40 companies in the Gulf of Mexico ranked by companies' total area leased.

Rank	Company	Number of Leases Held	Acres Held	Rank	Company	Number of Leases Held	Acres Held
1	Shell	386	1,489,845	21	Cantium	42	117,117
2	BP	250	1,072,020	22	Kosmos	45	114,562
3	Chevron	273	957,168	23	Red Willow	74	111,913
4	Occidental	221	949,872	24	Repsol	56	101,844
5	ExxonMobil	122	596,883	25	Walter	32	86,760
6	Talos	191	562,944	26	Ecopetrol	57	80,794
7	Cox	142	560,398	27	DG Exploration	14	69,687
8	Equinor	169	507,133	28	Eni	31	67,724
9	Woodside	111	365,247	29	Houston Energy	88	65,991
10	Fieldwood	108	347,119	30	Juneau	14	65,363
11	W&T	100	346,122	31	Petrobras	21	64,683
12	Arena	77	343,679	32	Renaissance	16	52,343
13	EnVen	76	327,757	33	Focus	10	50,536
14	Hess	84	304,171	34	Orinoco	19	45,957
15	Murphy	97	298,606	35	Byron	9	41,531
16	LLOG	79	234,178	36	Petronas	26	29,952
17	QuarterNorth	54	166,236	37	Marubeni	11	24,960
18	Ridgewood	110	157,556	38	Peregrine	6	22,500
19	Beacon	76	157,360	39	Superior	4	20,218
20	Total	41	122,426	40	CNOOC	12	19,601

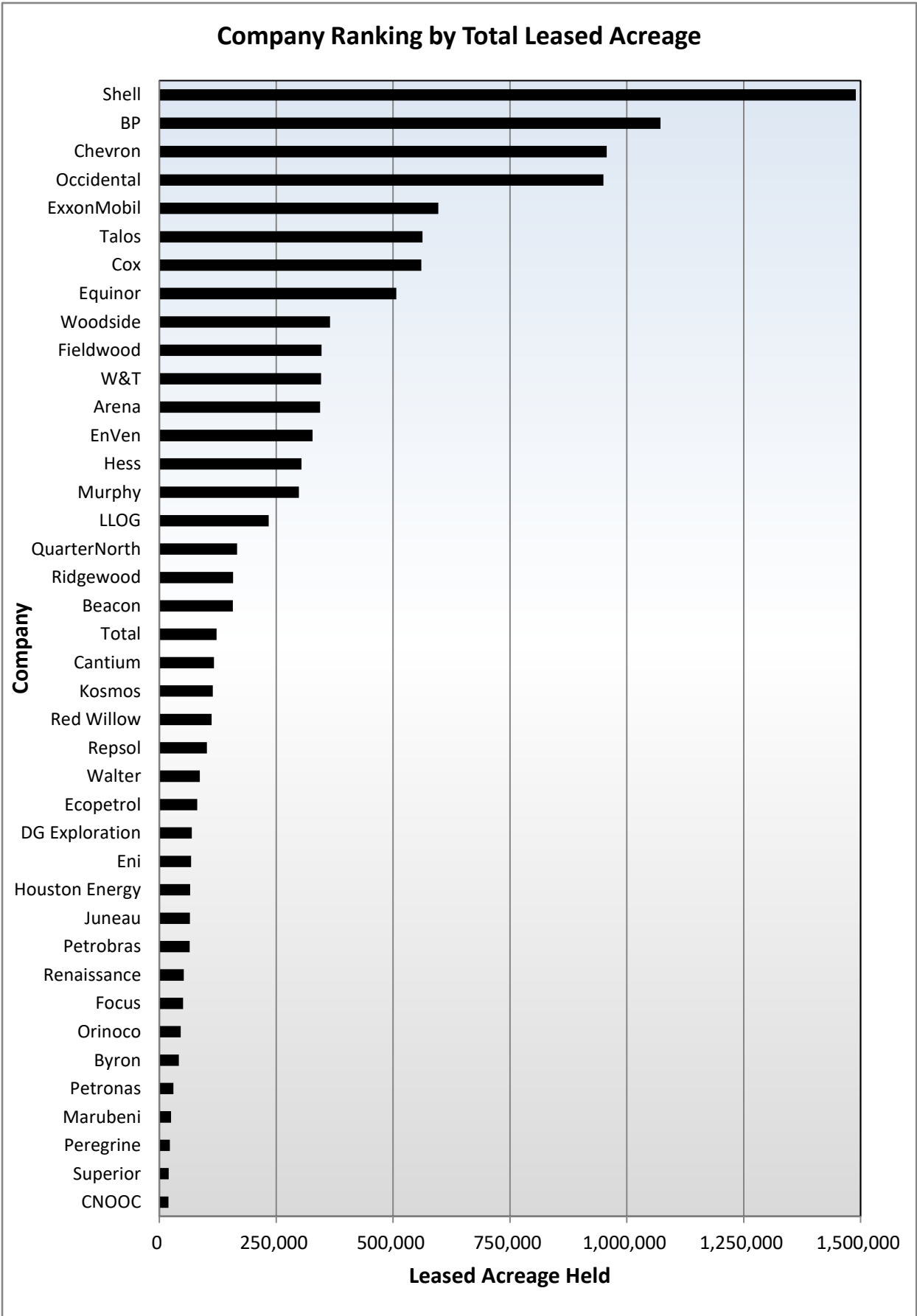


Figure 1. Company leased acreage in the Gulf of Mexico as of January 3, 2023, ordered by total leased acreage.

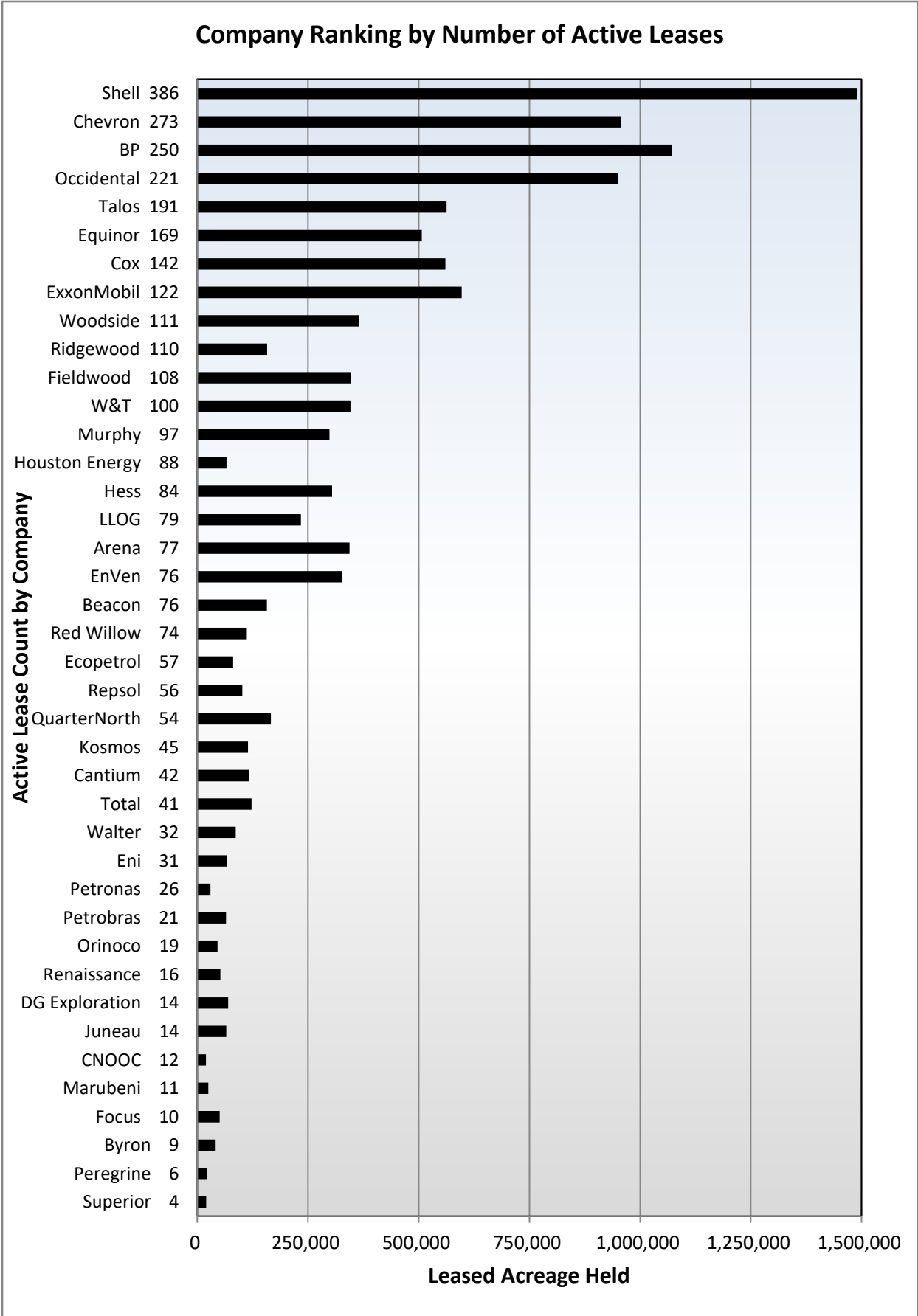
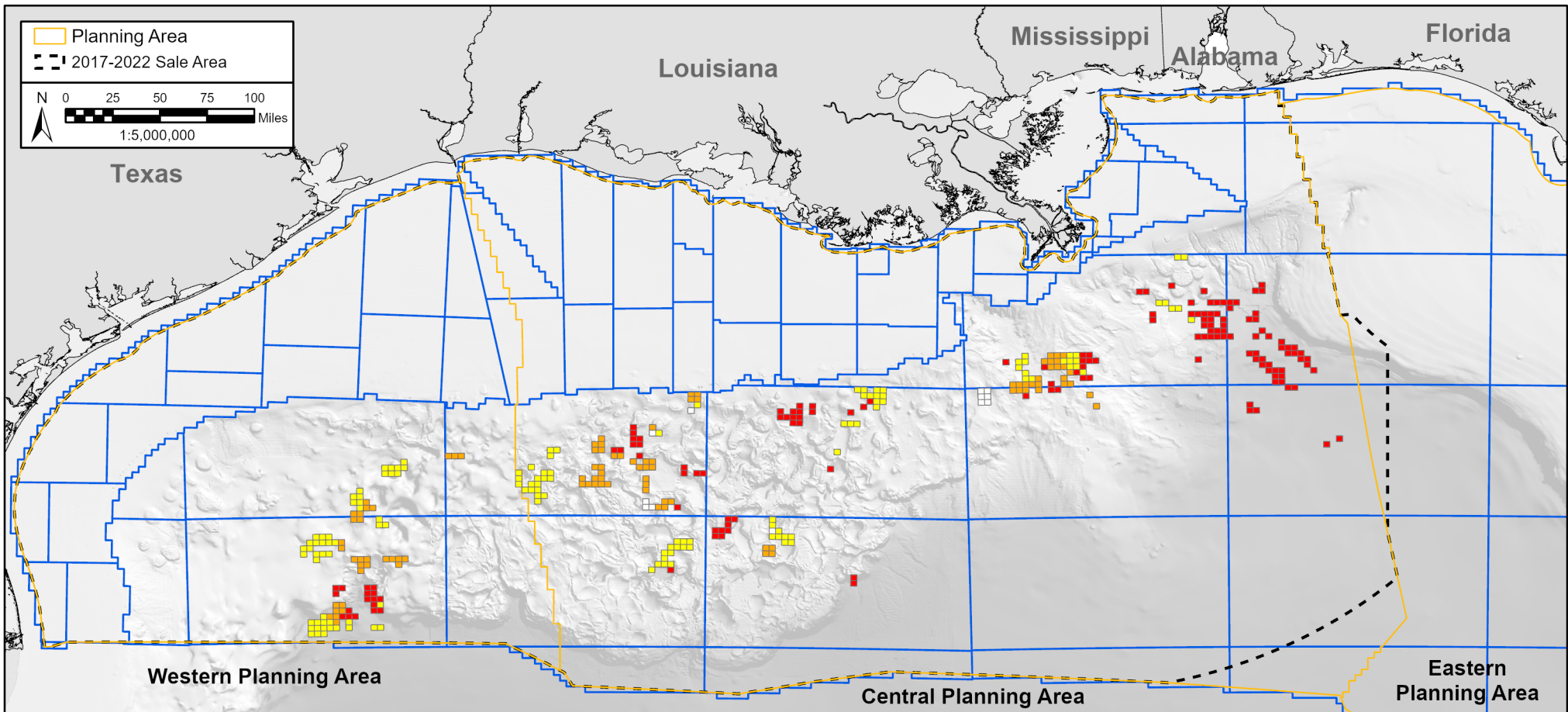


Figure 4. Company leased acreage in the Gulf of Mexico as of January 3, 2023, ordered by total number of active leases.



Shell Leased Acreage

Rank: 1

1,489,845 Acres Currently Leased

386 Active Leases

Parent Company (Headquarters Location): Shell plc (London, United Kingdom)
 Subsidiary Company Names: (1) Shell Offshore Inc. and (2) Shell Gulf of Mexico Inc.

Ownership Percentage

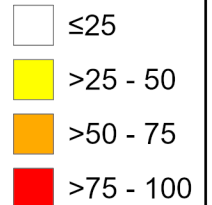
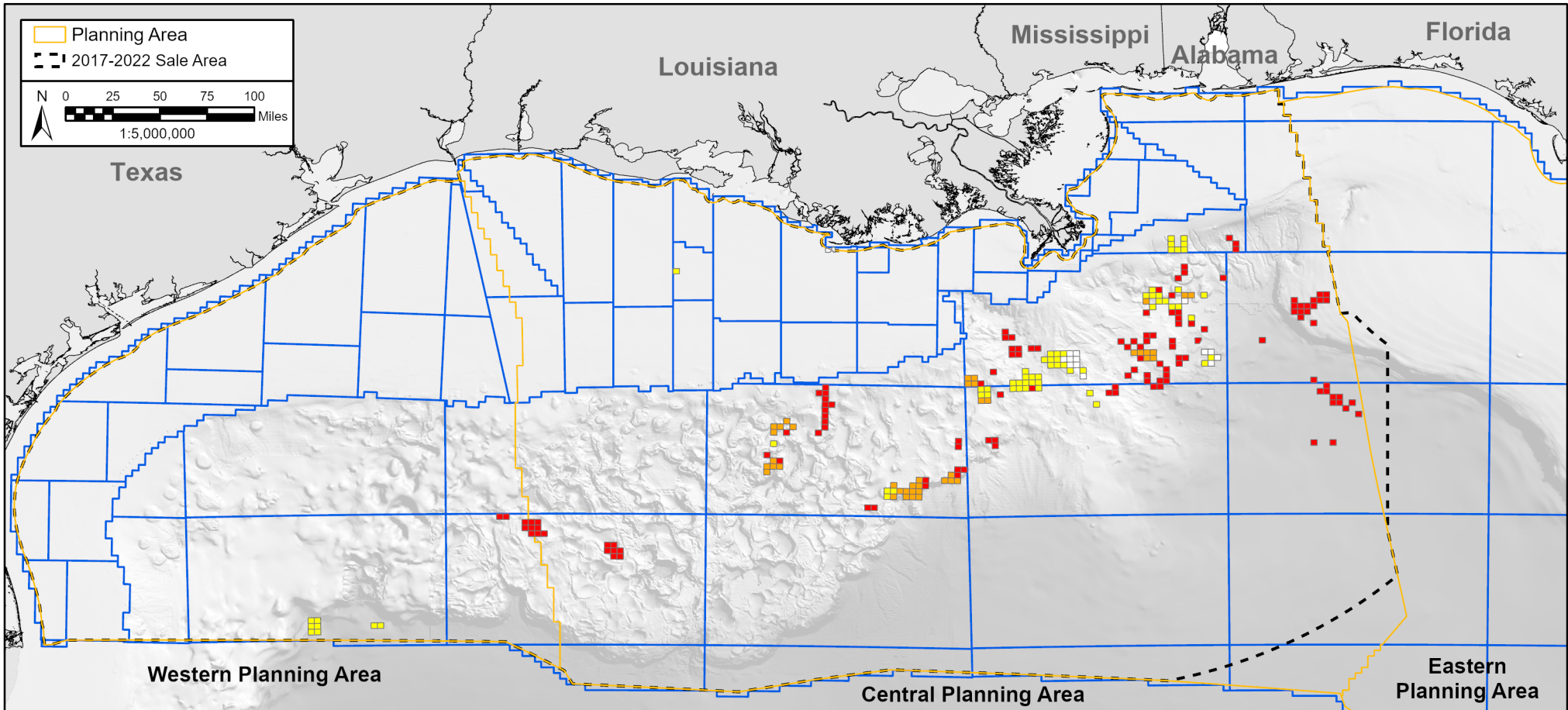


Figure 7. Rank 1 - Shell's 2023 leased acreage map



BP Leased Acreage

Rank: 2

1,072,020 Acres Currently Leased

250 Active Leases

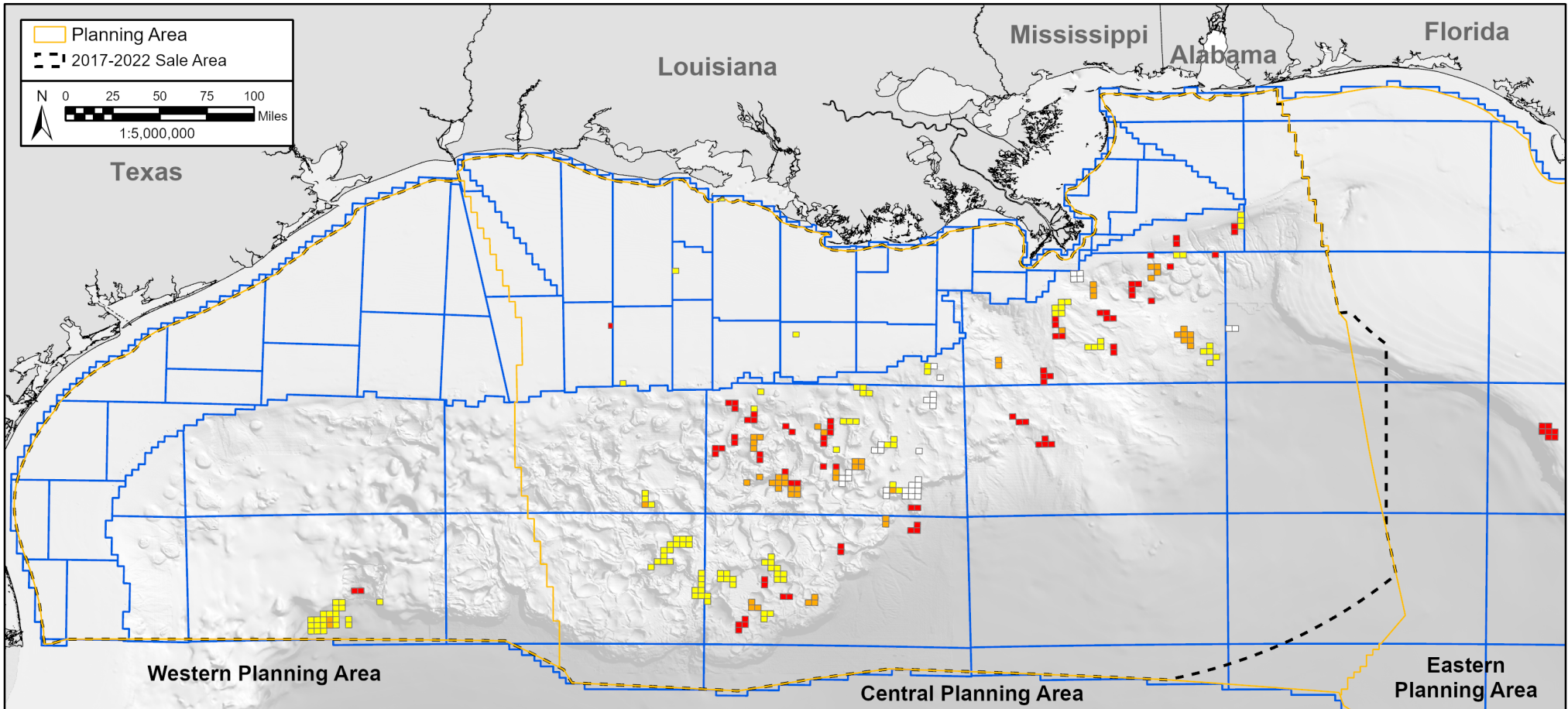
Parent Company (Headquarters Location): BP plc (London, United Kingdom)

Subsidiary Company Names: (1) BP Exploration & Production Inc.

Ownership Percentage



Figure 10. Rank 2 - BP's 2023 leased acreage map



Chevron Leased Acreage

Rank: 3

957,168 Acres Currently Leased

273 Active Leases

Parent Company (Headquarters Location): Chevron Corporation (San Ramon, California, United States)

Subsidiary Company Names: (1) Chevron U.S.A. Inc. and (2) Union Oil Company of California

Ownership Percentage

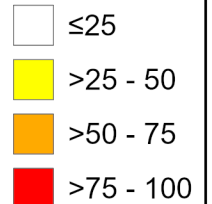
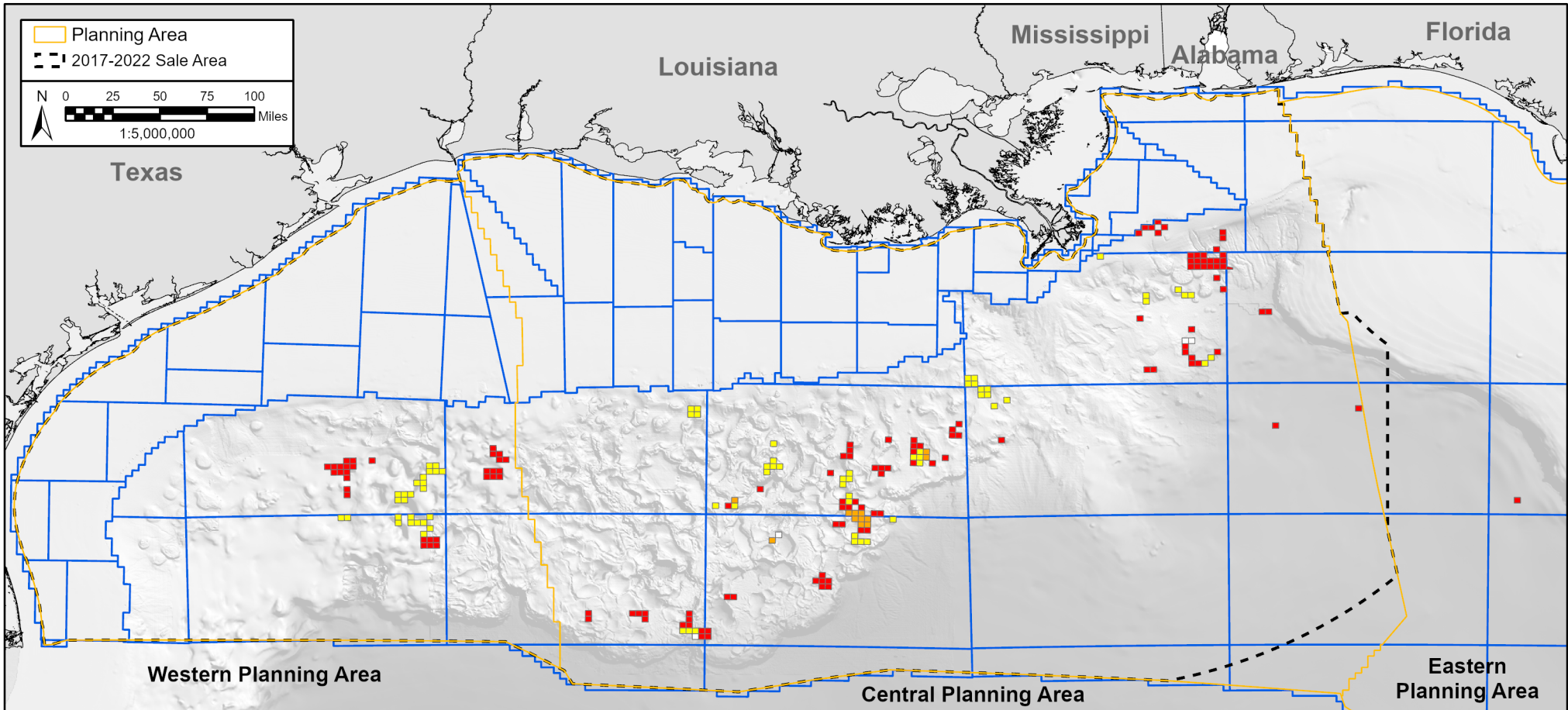


Figure 13. Rank 3 - Chevron's 2023 leased acreage map



Occidental Leased Acreage

Rank: 4

949,872 Acres Currently Leased

221 Active Leases

Parent Company (Headquarters Location): Occidental Petroleum Corporation (Houston, Texas, United States)

Subsidiary Company Names: (1) Anadarko US Offshore LLC

Ownership Percentage

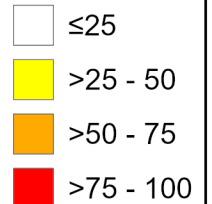
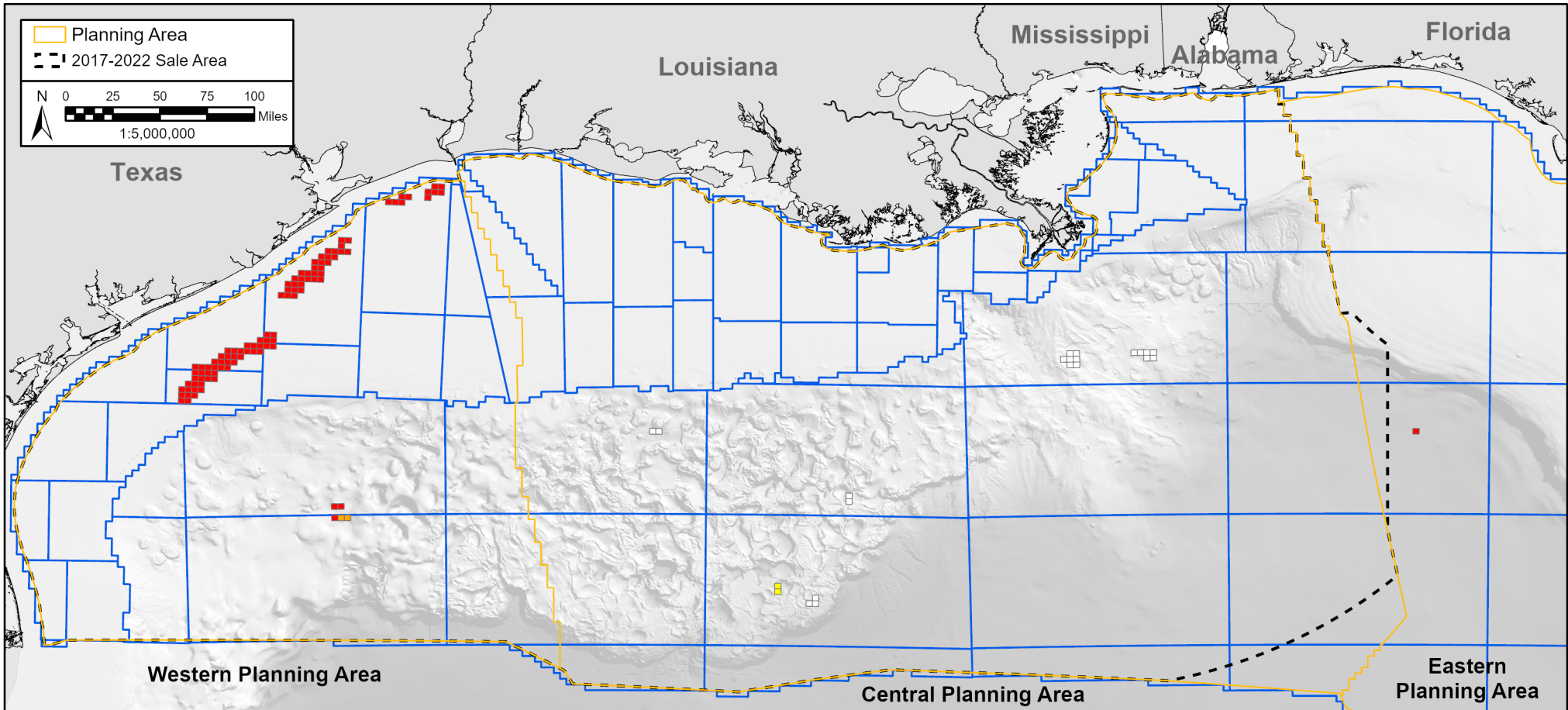


Figure 16. Rank 4 - Occidental's 2023 leased acreage map



ExxonMobil Leased Acreage

Rank: 5

596,883 Acres Currently Leased

122 Active Leases

Parent Company (Headquarters Location): Exxon Mobil Corporation (Irving, Texas, United States)

Subsidiary Company Names: (1) Exxon Mobil Corporation, (2) MOBIL OIL EXPLORATION & PRODUCING SOUTHEAST INC., and (3) Mobil Producing Texas & New Mexico Inc.

Ownership Percentage

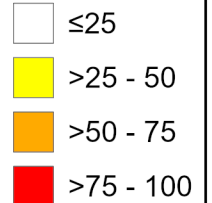
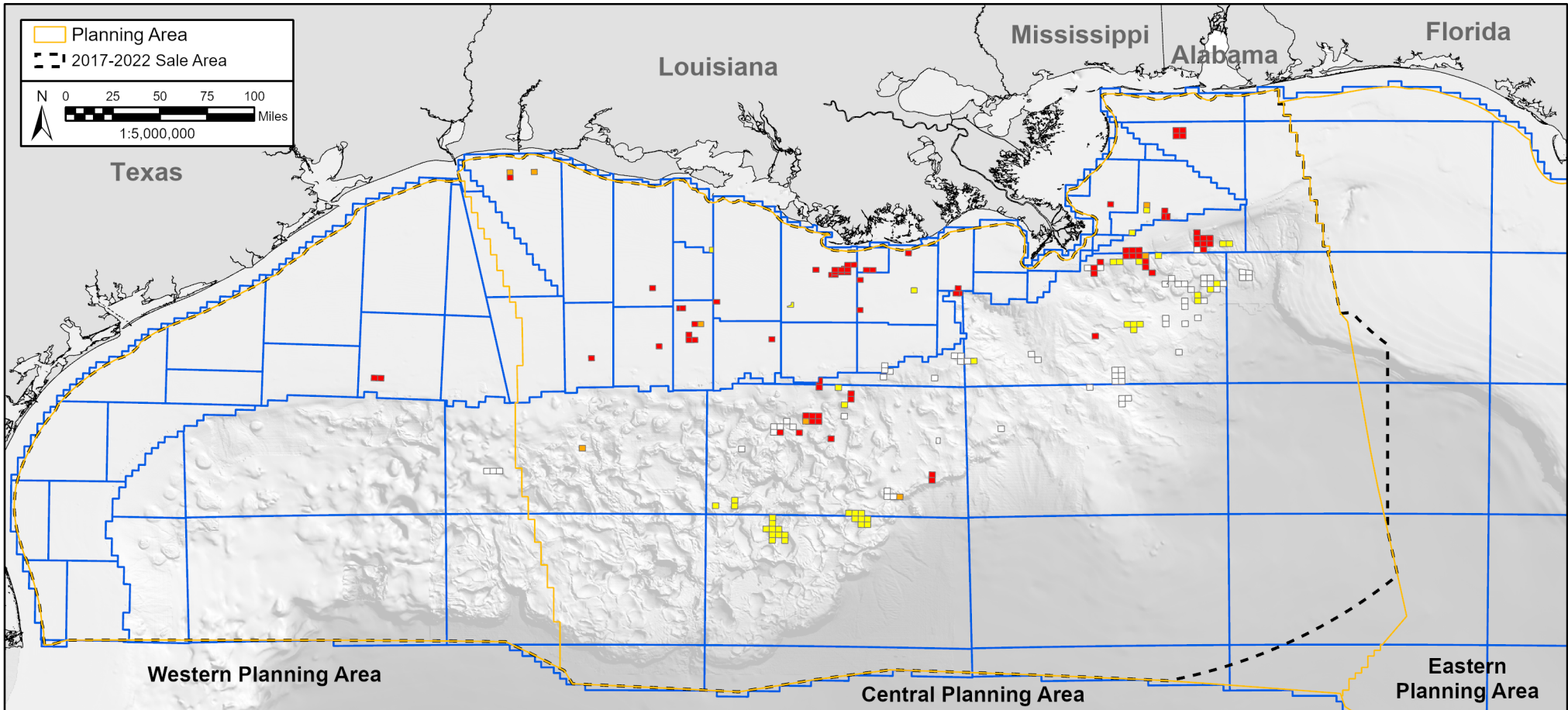


Figure 19. Rank 5 - Exxon's 2023 leased acreage map



Talos Leased Acreage

Rank: 6

562,944 Acres Currently Leased

191 Active Leases

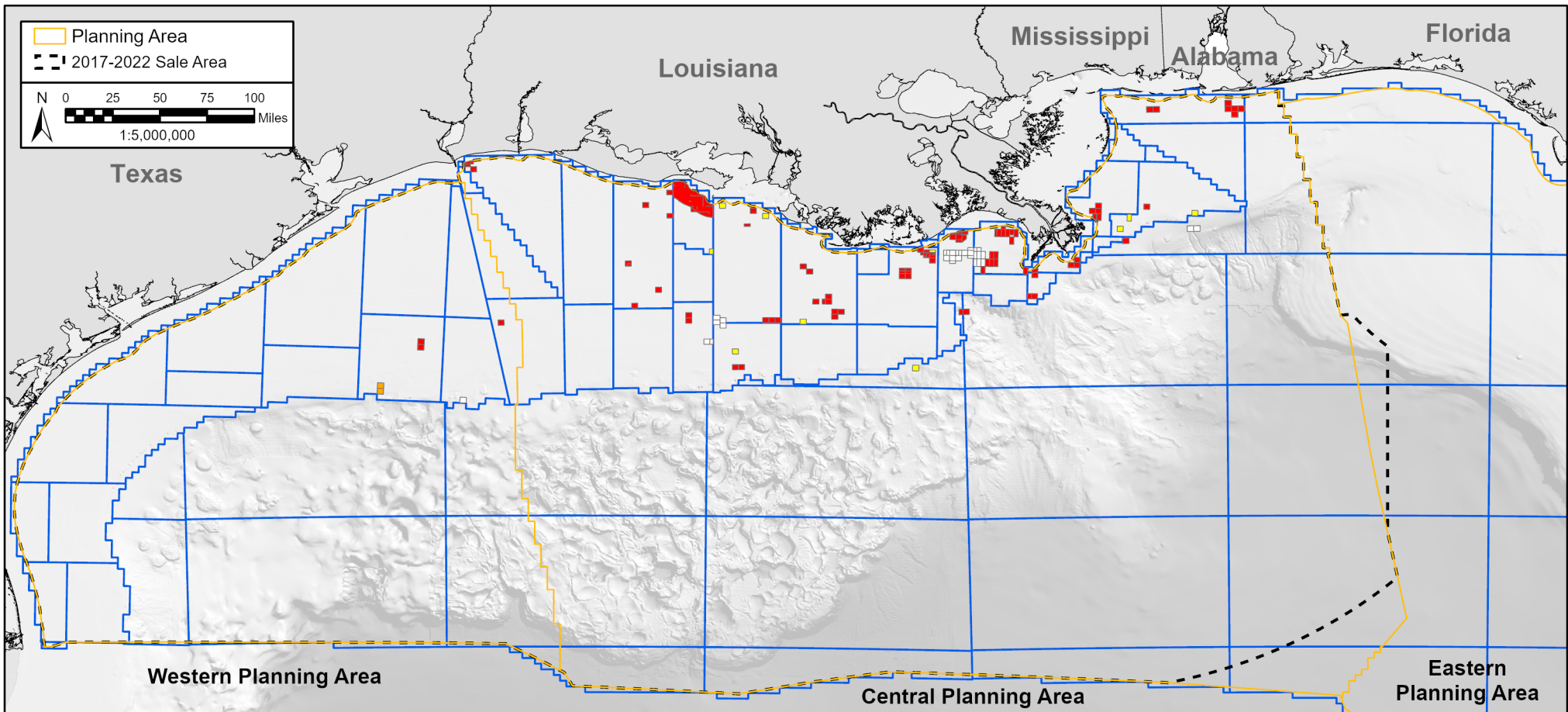
Parent Company (Headquarters Location): Talos Energy Inc. (Houston, Texas, United States)

Subsidiary Company Names: (1) Talos Energy Offshore LLC, (2) Talos Resources LLC, (3) Talos ERT LLC, (4) Talos Exploration LLC, (5) Talos Oil and Gas LLC, (6) Talos Third Coast LLC, (7) GOME 1271 LLC, (8) Talos Energy Phoenix LLC, (9) Talos Gulf Coast Offshore LLC, and (10) Dorado Deep GP, LLC

Ownership Percentage



Figure 22. Rank 6 - Talos' 2023 leased acreage map



Cox Leased Acreage

Rank: 7

560,398 Acres Currently Leased

142 Active Leases

Parent Company (Headquarters Location): Cox Oil, LLC (Dallas, Texas, United States)

Subsidiary Company Names: (1) Cox Oil Offshore, L.L.C., (2) Energy XXI GOM, LLC, and (3) EPL Oil & Gas, LLC

Ownership Percentage

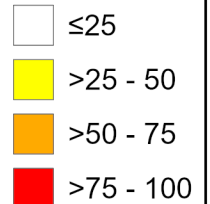
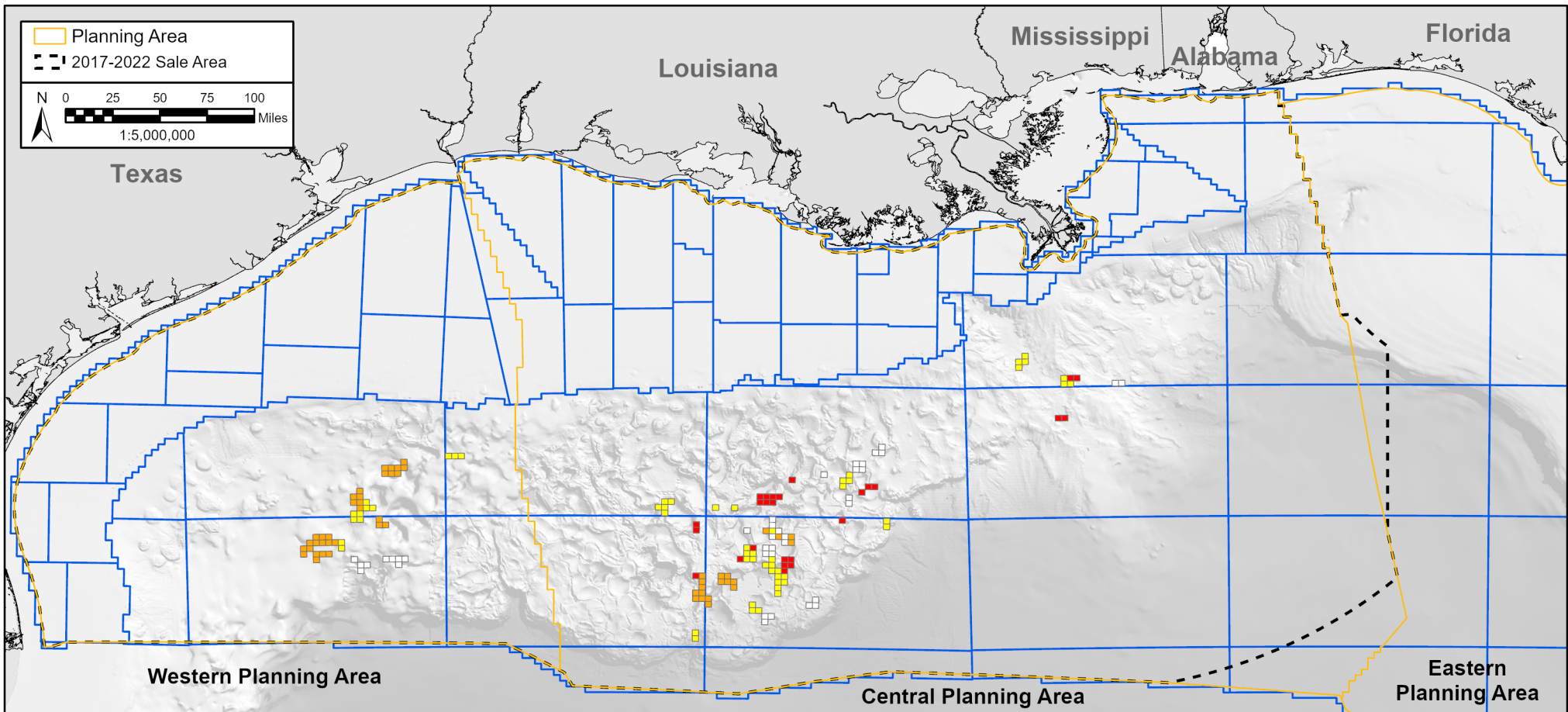


Figure 25. Rank 7 - Cox's 2023 leased acreage map



Equinor Leased Acreage

Rank: 8

507,133 Acres Currently Leased

169 Active Leases

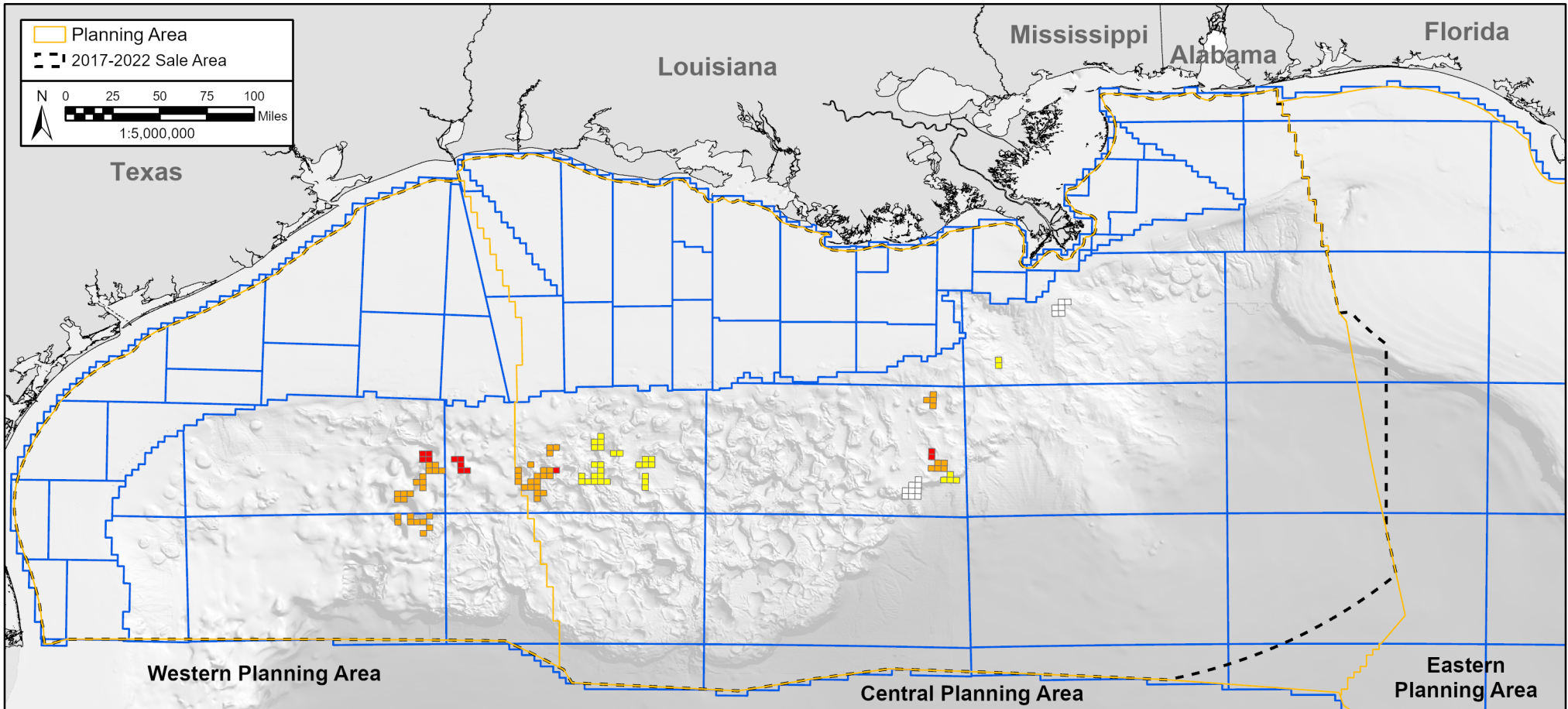
Parent Company (Headquarters Location): Equinor ASA (Stavanger, Norway)

Subsidiary Company Names: (1) Equinor Gulf of Mexico LLC and (2) Equinor USA E&P Inc.

Ownership Percentage



Figure 28. Rank 8 - Equinor's 2023 leased acreage map



Woodside Leased Acreage

Rank: 9

365,247 Acres Currently Leased

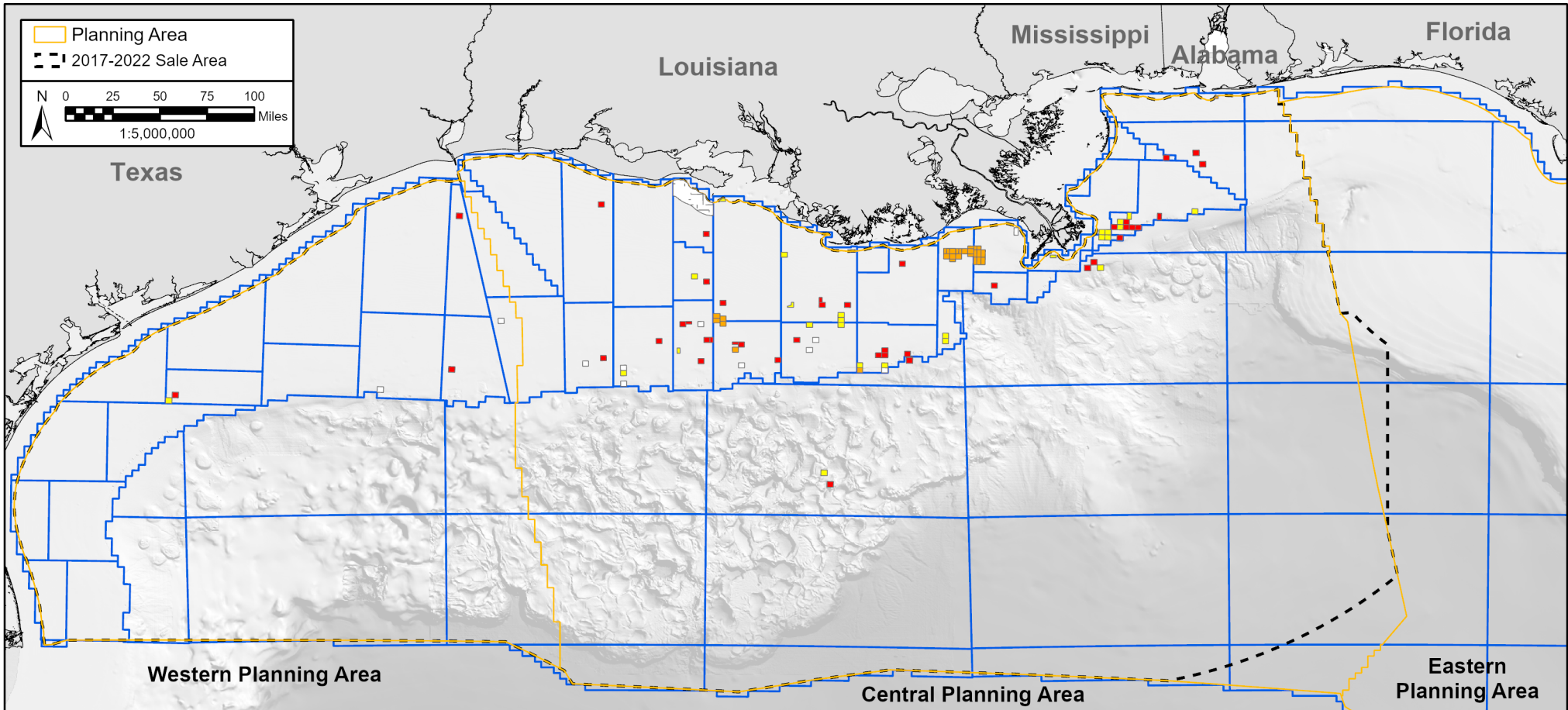
111 Active Leases

Parent Company (Headquarters Location): Woodside Energy Group Ltd (Perth, Australia)
 Subsidiary Company Names: (1) Woodside Energy (Deepwater) Inc.

Ownership Percentage



Figure 31. Rank 9 – Woodside’s 2023 leased acreage map



Fieldwood Leased Acreage

Rank: 10

347,119 Acres Currently Leased

108 Active Leases

Parent Company (Headquarters Location): Post-Bankruptcy companies

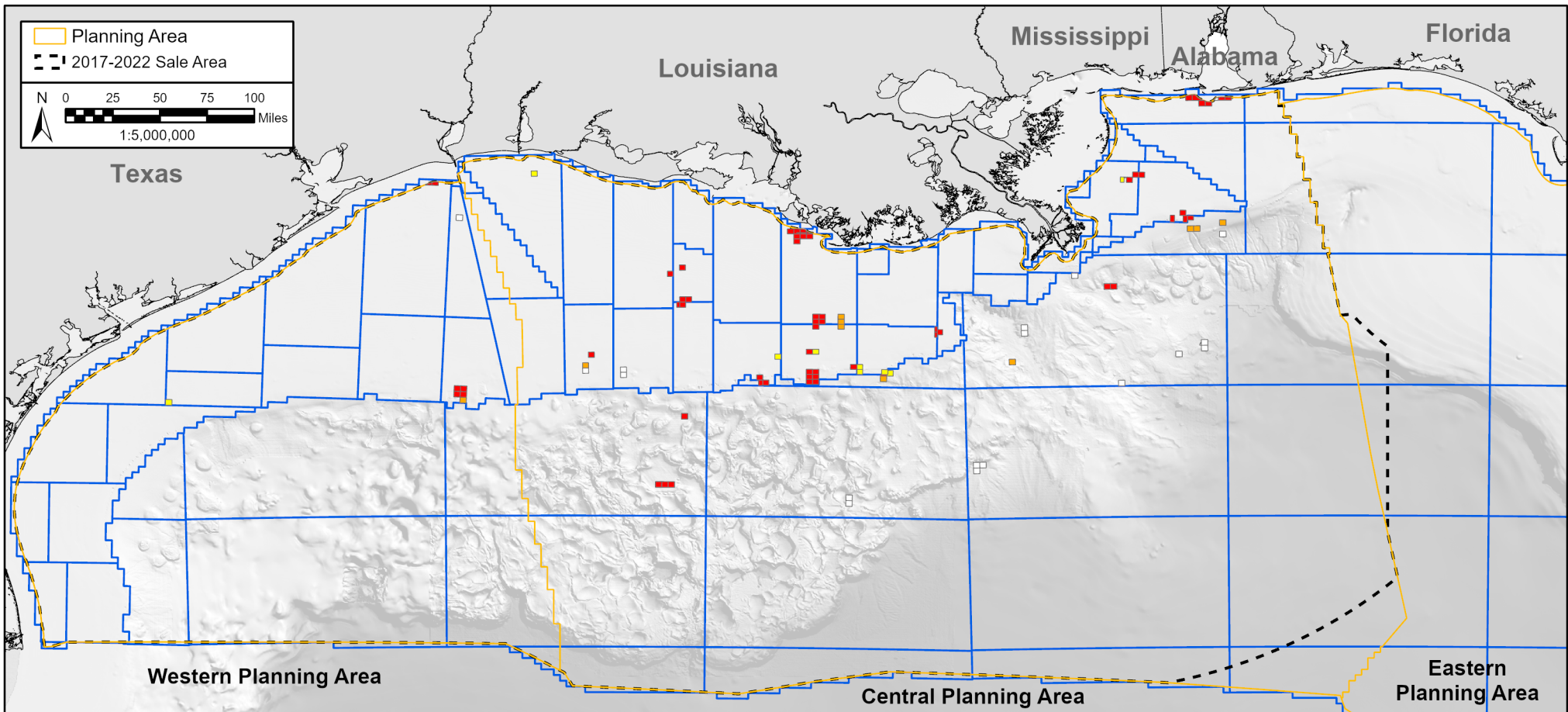
Subsidiary Company Names: (1) GOM Shelf LLC, (2) Fieldwood Energy LLC, (3) Fieldwood Energy Offshore LLC, (4) Dynamic Offshore Resources NS, LLC, (5) Fieldwood Energy IV LLC, and (6) Bandon Oil and Gas, LP

Note: These are the companies remaining after Fieldwood's bankruptcy in 2020. They are either managed and operated by a Plan administrator or dissolved and merged into other entities. For simplicity, these companies are listed here together.

Ownership Percentage



Figure 34. Rank 10 – Fieldwood's 2023 leased acreage map



W & T Leased Acreage

Rank: 11

346,122 Acres Currently Leased

100 Active Leases

Parent Company (Headquarters Location): W&T Offshore, Inc. (Houston, Texas, United States)

Subsidiary Company Names: (1) W & T Offshore, Inc., (2) W & T Energy VI, LLC, (3) Aquasition LLC, and (4) Monza Energy LLC

Note: Monza Energy LLC is a joint venture between W & T and private investors.

Ownership Percentage

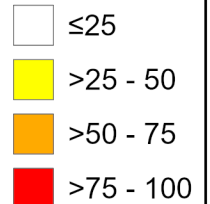
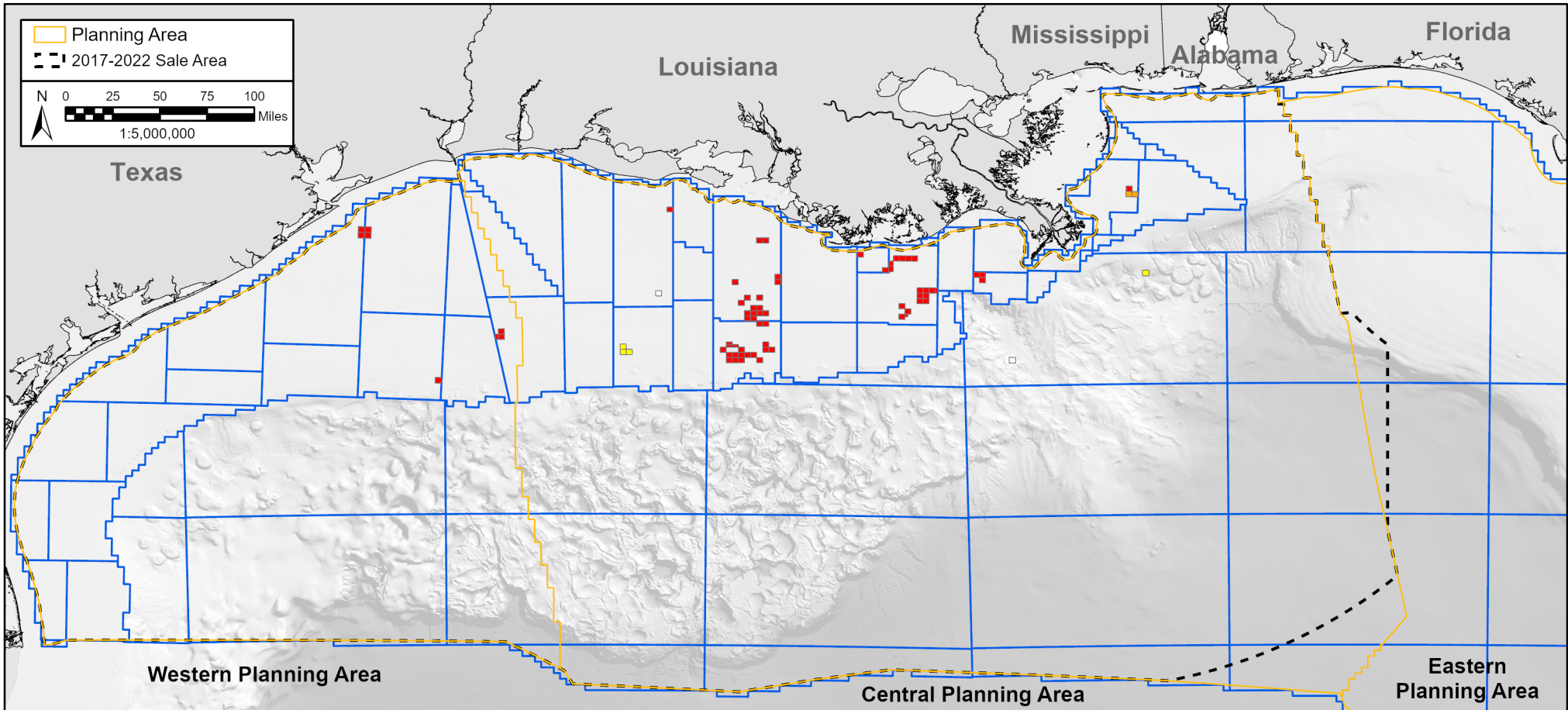


Figure 37. Rank 11 - W & T's 2023 leased acreage map



Arena Leased Acreage

Rank: 12

343,679 Acres Currently Leased

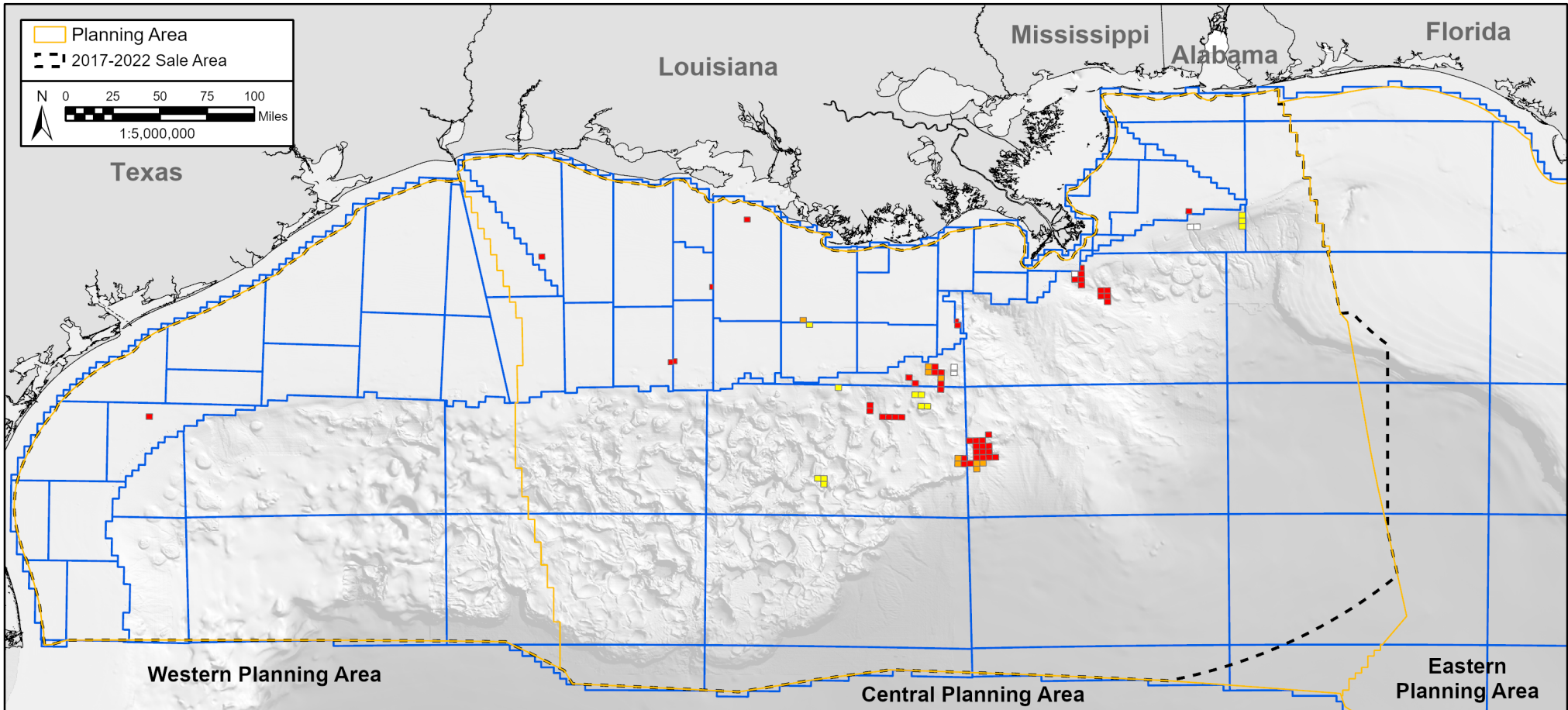
77 Active Leases

Parent Company (Headquarters Location): Arena Energy, LP (The Woodlands, Texas, United States)
Subsidiary Company Names: (1) Arena Energy, LLC, (2) Arena Exploration LLC, and (3) Arena Offshore, LP

Ownership Percentage



Figure 40. Rank 12 – Arena's 2023 leased acreage map



EnVen Leased Acreage

Rank: 13

327,757 Acres Currently Leased

76 Active Leases

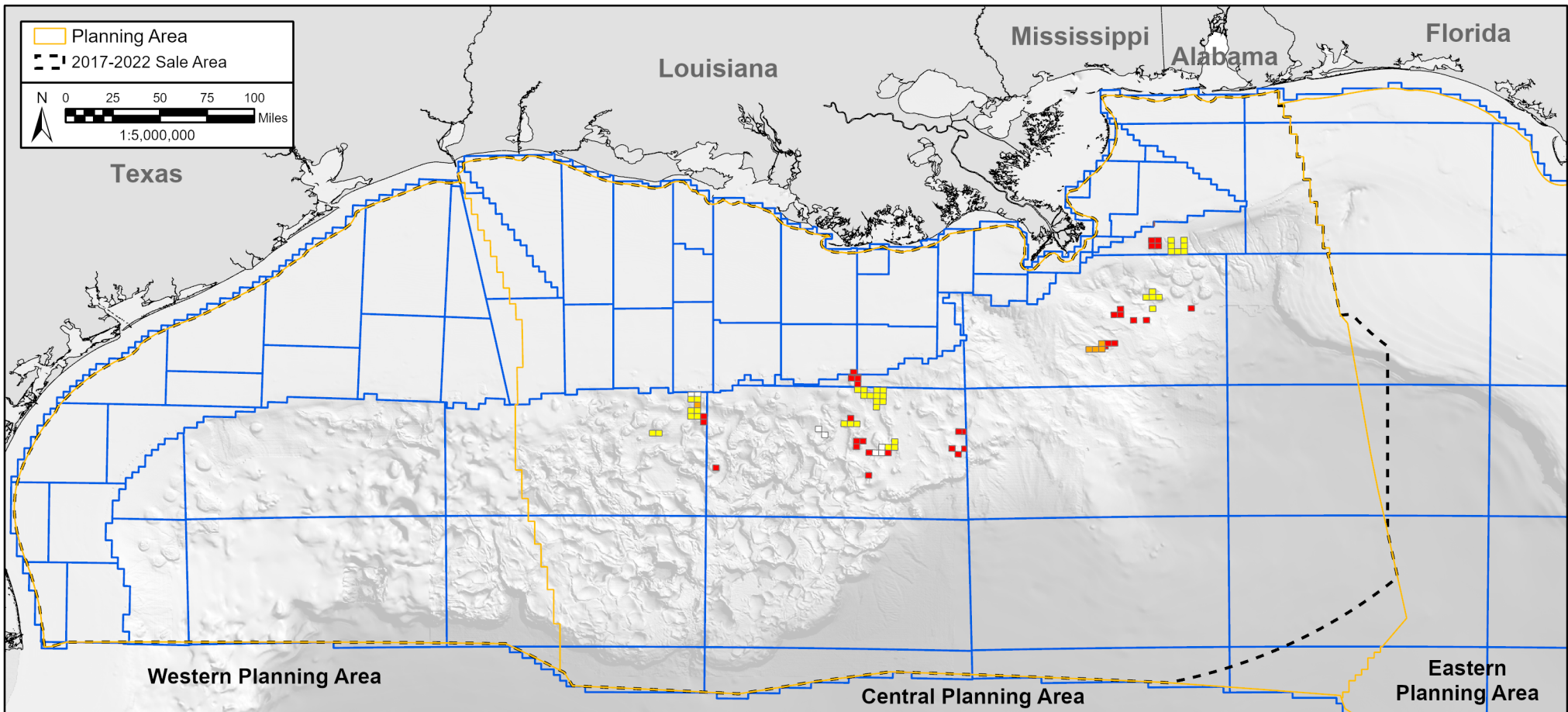
Parent Company (Headquarters Location): EnVen Energy Corporation (Houston, Texas, United States)

Subsidiary Company Names: (1) EnVen Energy Ventures, LLC

Ownership Percentage



Figure 43. Rank 13 – EnVen’s 2023 leased acreage map



Hess Leased Acreage

Rank: 14

304,171 Acres Currently Leased

84 Active Leases

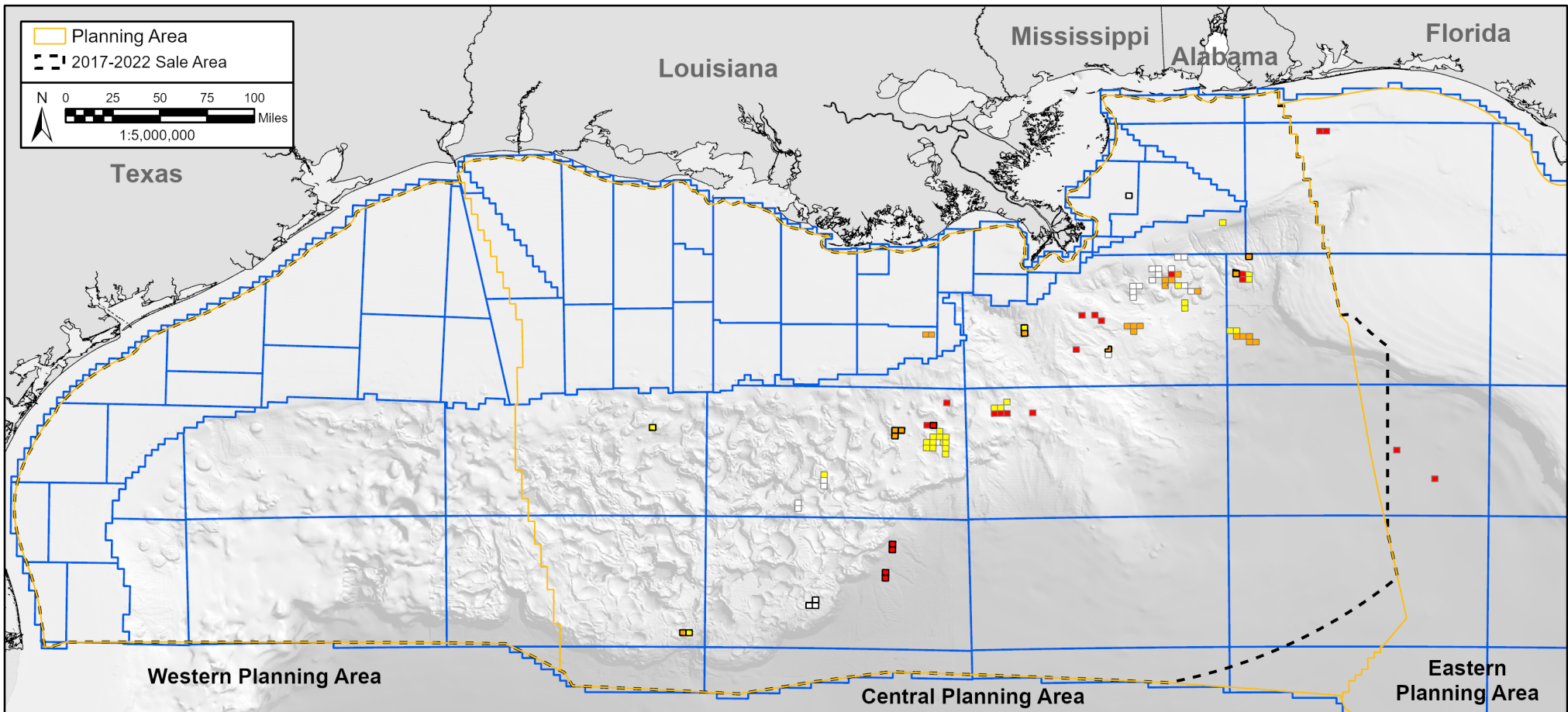
Parent Company (Headquarters Location): Hess Corporation (New York, New York, United States)

Subsidiary Company Names: (1) Hess Corporation

Ownership Percentage



Figure 46. Rank 14 – Hess' 2023 leased acreage map



Murphy Leased Acreage

Rank: 15

298,606 Acres Currently Leased

97 Active Leases

Parent Company (Headquarters Location): Murphy Oil Corporation (Houston, Texas, United States)

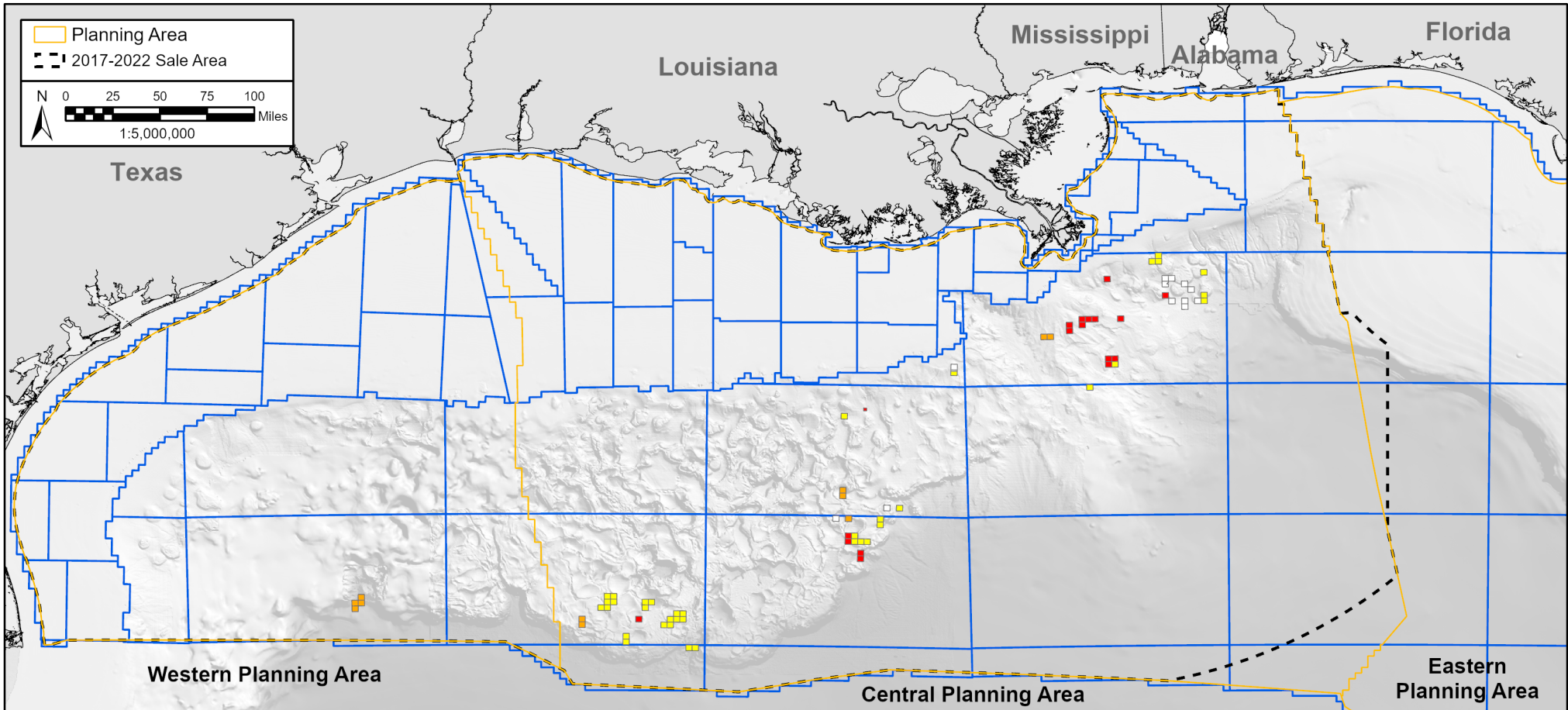
Subsidiary Company Names: (1) Murphy Exploration & Production Company - USA and (2) MP Gulf of Mexico, LLC

Note: MP Gulf of Mexico, LLC is a joint venture between Murphy Exploration & Production Company - USA and Petrobras America Inc. and is listed as a subsidiary for both Murphy and Petrobras. MP Gulf of Mexico, LLC leases are outlined in black.

Ownership Percentage



Figure 49. Rank 15 - Murphy's 2023 leased acreage map



LLOG Leased Acreage

Rank: 16

234,178 Acres Currently Leased

79 Active Leases

Parent Company (Headquarters Location): LLOG Exploration Company, L.L.C. (Covington, Louisiana, United States)

Subsidiary Company Names: (1) LLOG Exploration Offshore, L.L.C., (2) LLOG Deepwater Development Company IV, L.L.C., (3) LLOG Leon Development Company, L.L.C., (4) Crux1, LLC, (5) Deepwater Development Company LLC, (6) Buckstone Development Company, L.L.C., (7) LLOG Omega Holdings, L.L.C., (8) LLOG Castile Development Company, L.L.C., and (9) LLOG Deepwater Development Company I, L.L.C.

Ownership Percentage

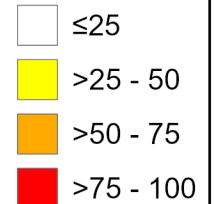
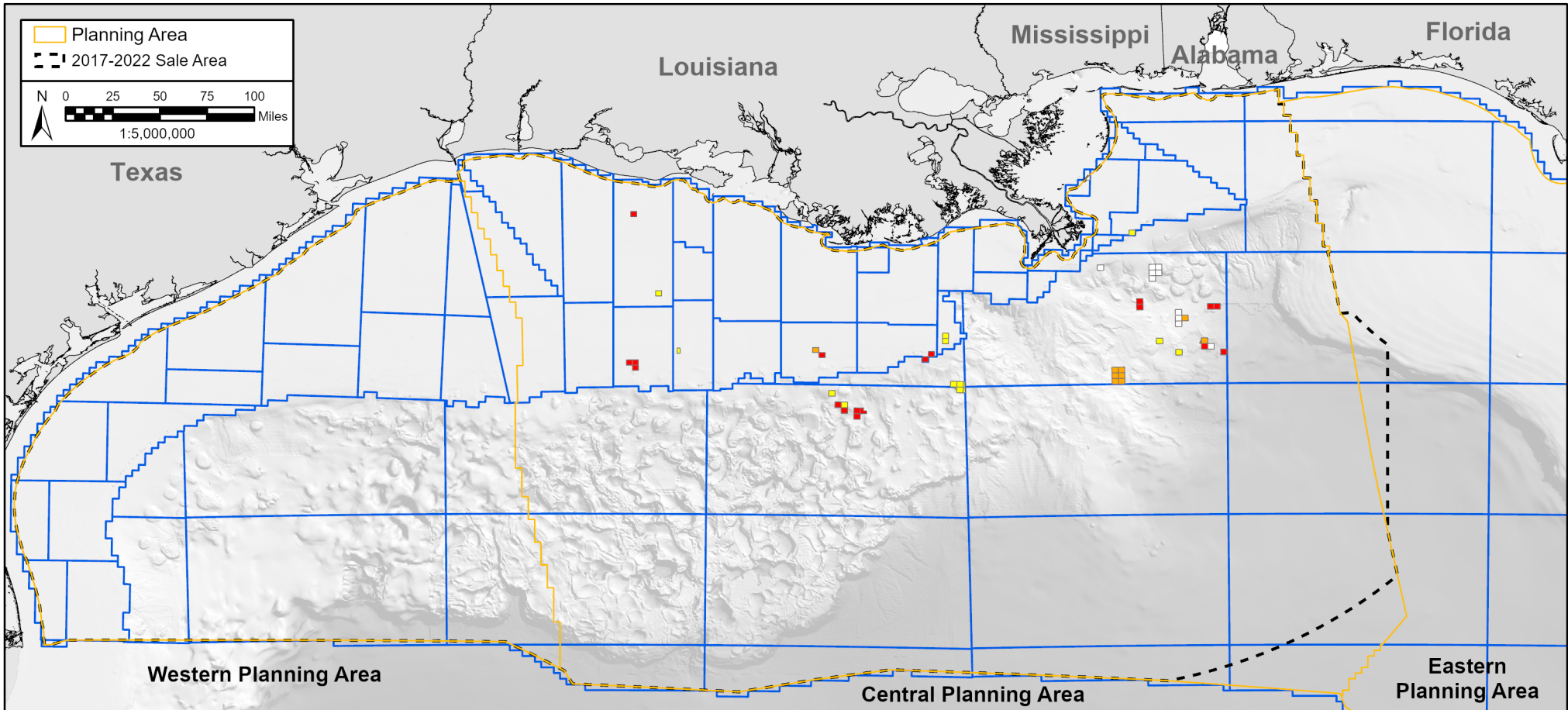


Figure 52. Rank 16 - LLOG's 2023 leased acreage map



QuarterNorth Leased Acreage

Rank: 17

166,236 Acres Currently Leased

54 Active Leases

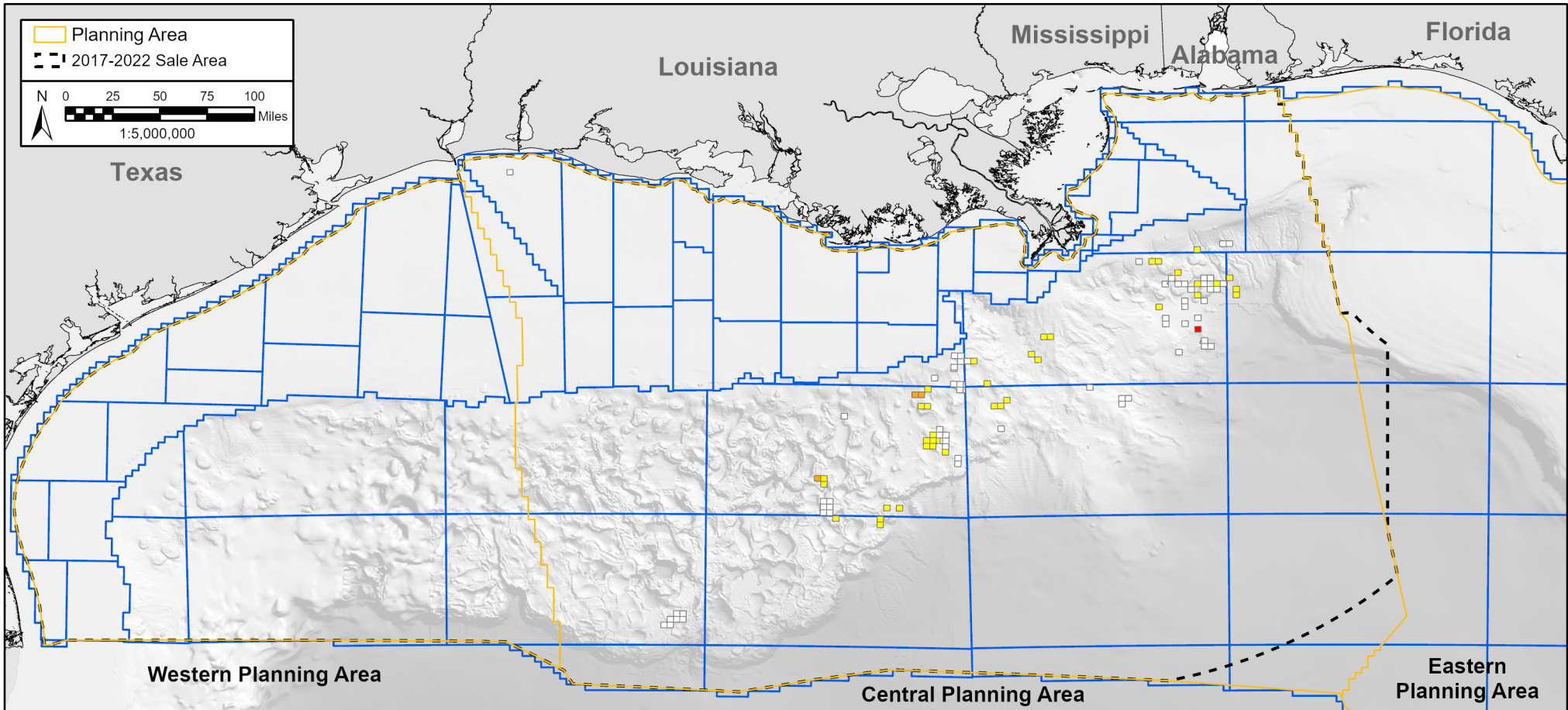
Parent Company (Headquarters Location): QuarterNorth Energy LLC (Houston, Texas, United States)

Subsidiary Company Names: (1) QuarterNorth Energy LLC

Ownership Percentage



Figure 55. Rank 17 - QuarterNorth's 2023 leased acreage map



Ridgewood Leased Acreage

Rank: 18

157,556 Acres Currently Leased

110 Active Leases

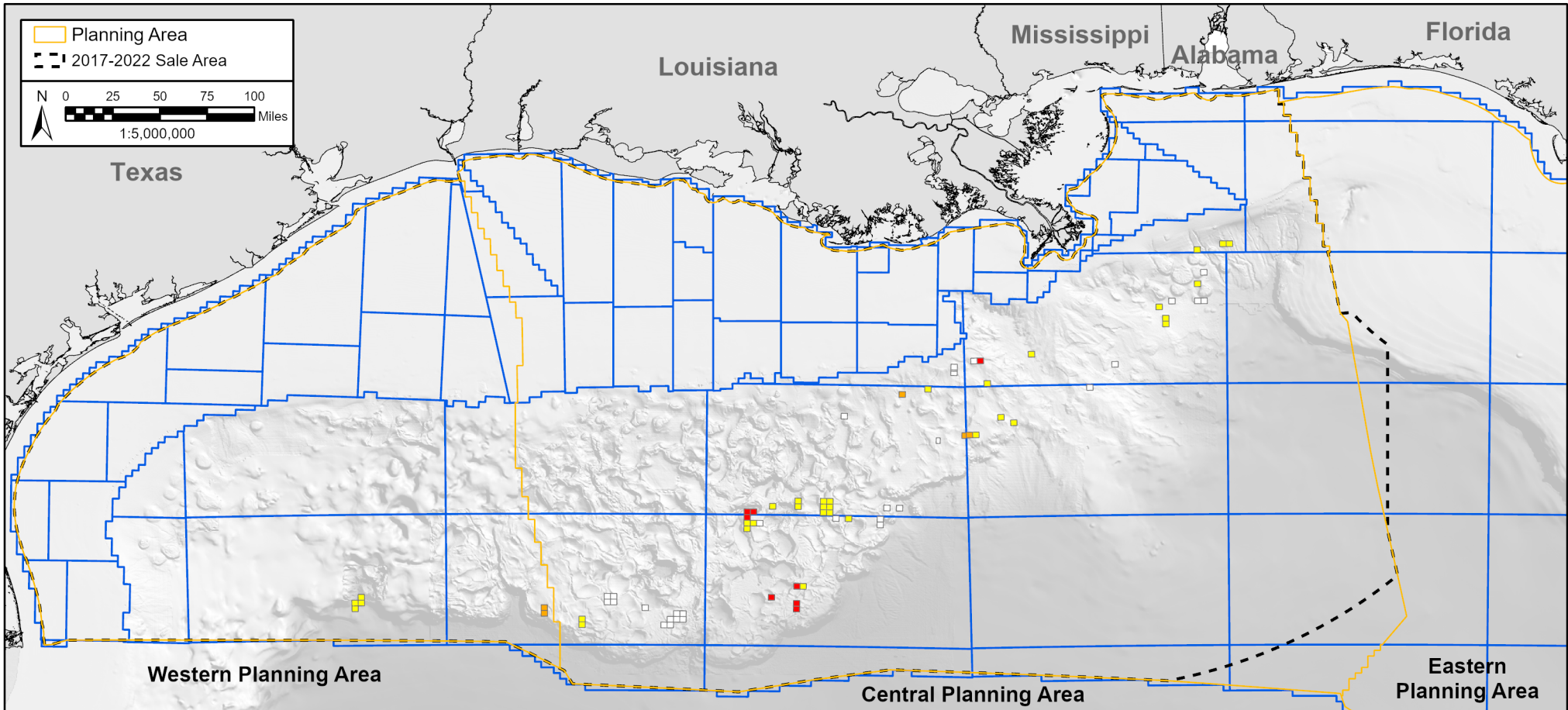
Parent Company (Headquarters Location): Ridgewood Companies (Montvale, New Jersey, United States)

Subsidiary Company Names: (1) Ridgewood Samurai, LLC, (2) Ridgewood Sunspear, LLC, (3) Ridgewood Kingsroad South, LLC, (4) Ridgewood Katmai, LLC, (5) Ridgewood Oso, LLC, (6) Ridgewood Mt. Ouray, LLC, (7) Ridgewood Dothraki, LLC, (8) Ridgewood Monarch North, LLC, (9) Ridgewood Telluride, LLC, (10) Ridgewood Jaws, LLC, (11) Ridgewood Mt. Shavano, LLC, (12) Ridgewood Odd Job, LLC, (13) Ridgewood Domino, LLC, (14) Ridgewood Honey Ryder, LLC, (15) Ridgewood Zora, LLC, (16) Ridgewood Mission West, LLC, (17) Ridgewood Coq au Vin, LLC, (18) Ridgewood Doberge, LLC, and 52 other Ridgewood name variants

Ownership Percentage



Figure 58. Rank 18 - Ridgewood's 2023 leased acreage map



Beacon Leased Acreage

Rank: 19

157,360 Acres Currently Leased

76 Active Leases

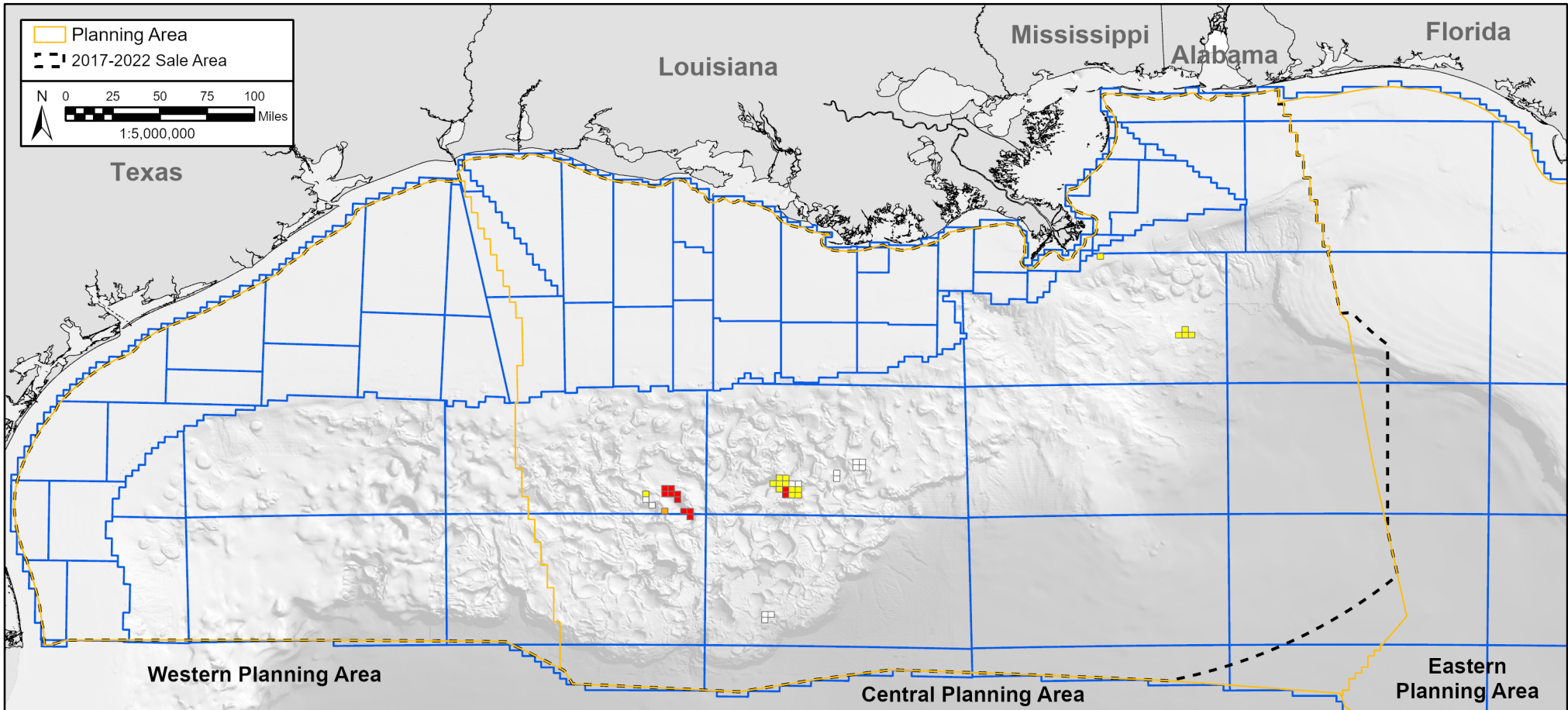
Parent Company (Headquarters Location): Beacon Offshore Energy LLC (Houston, Texas, United States)

Subsidiary Company Names: (1) Beacon Offshore Energy Exploration LLC, (2) Beacon Offshore Energy Operating LLC, (3) Beacon Offshore Energy Buckskin LLC, (4) Beacon Offshore Energy Leon LLC, (5) Beacon Asset Holdings LLC, (6) Beacon Offshore Energy Castile LLC, (7) Beacon Offshore Energy Development LLC, (8) Beacon II Exploration LLC, (9) Beacon II Development LLC, (10) BOE Exploration & Production LLC, and (11) Beacon Growthco Operating Company, L.L.C.

Ownership Percentage



Figure 61. Rank 19 - Beacon's 2023 leased acreage map



Total Leased Acreage

Rank: 20

122,426 Acres Currently Leased

41 Active Leases

Parent Company (Headquarters Location): TotalEnergies SE (Courbevoie, France)

Subsidiary Company Names: (1) TOTAL E&P USA, INC., (2) TEP Jack, LLC, and (3) TEP Anchor, LLC

Ownership Percentage

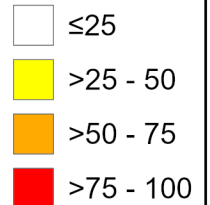
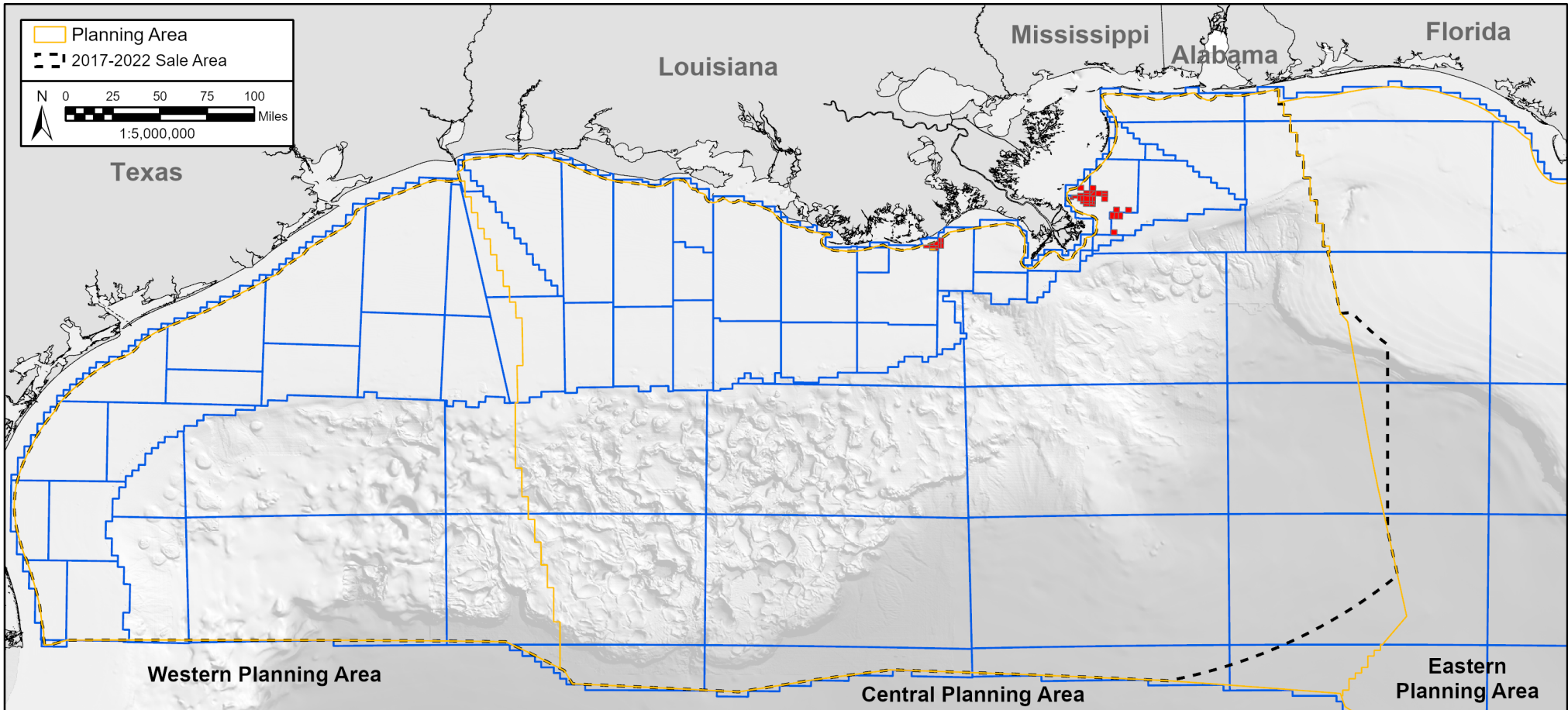


Figure 64. Rank 20 - Total's 2023 leased acreage map



Cantium Leased Acreage

Rank: 21

117,117 Acres Currently Leased

42 Active Leases

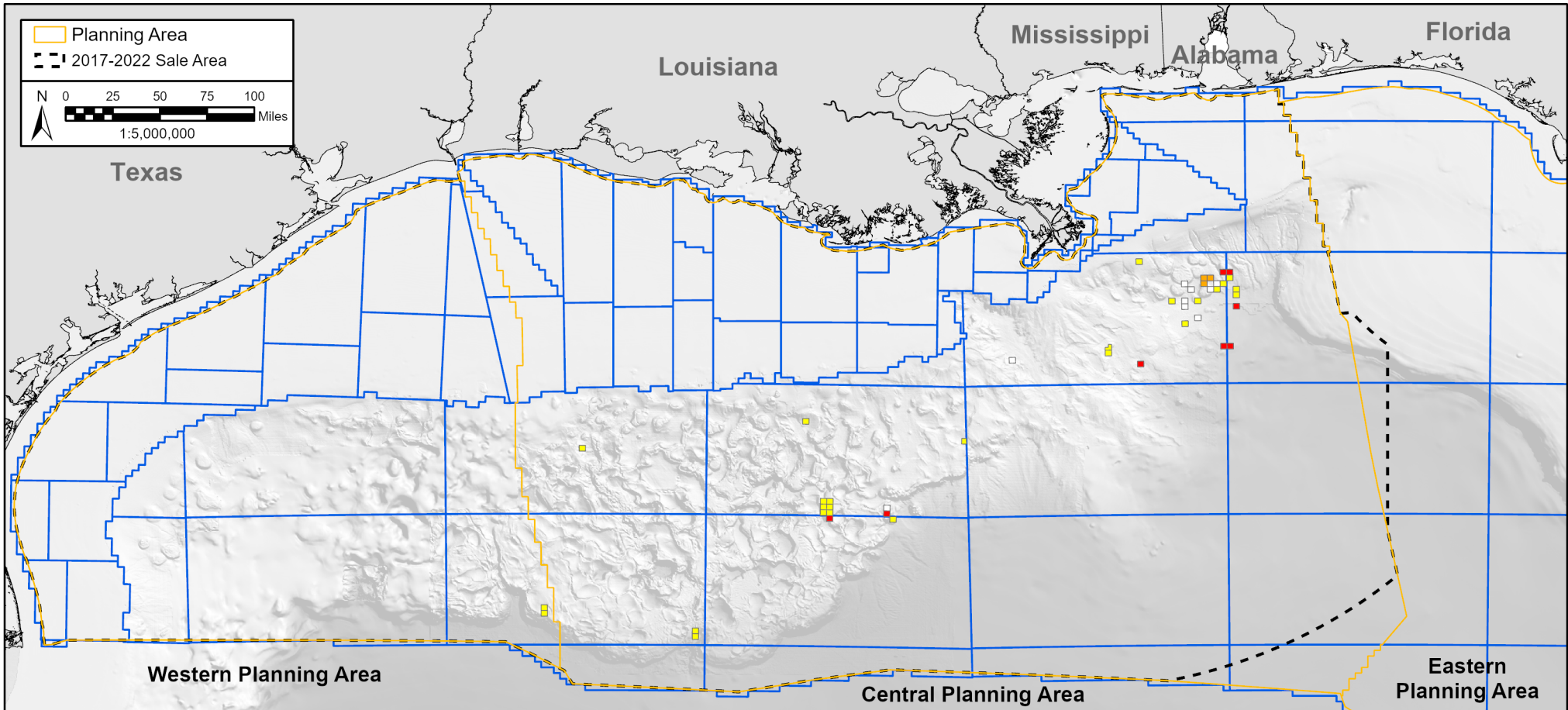
Parent Company (Headquarters Location): Cantium, LLC (Covington, Louisiana, United States)

Subsidiary Company Names: (1) Cantium, LLC

Ownership Percentage



Figure 67. Rank 21 - Cantium's 2023 leased acreage map



Kosmos Leased Acreage

Rank: 22

114,562 Acres Currently Leased

45 Active Leases

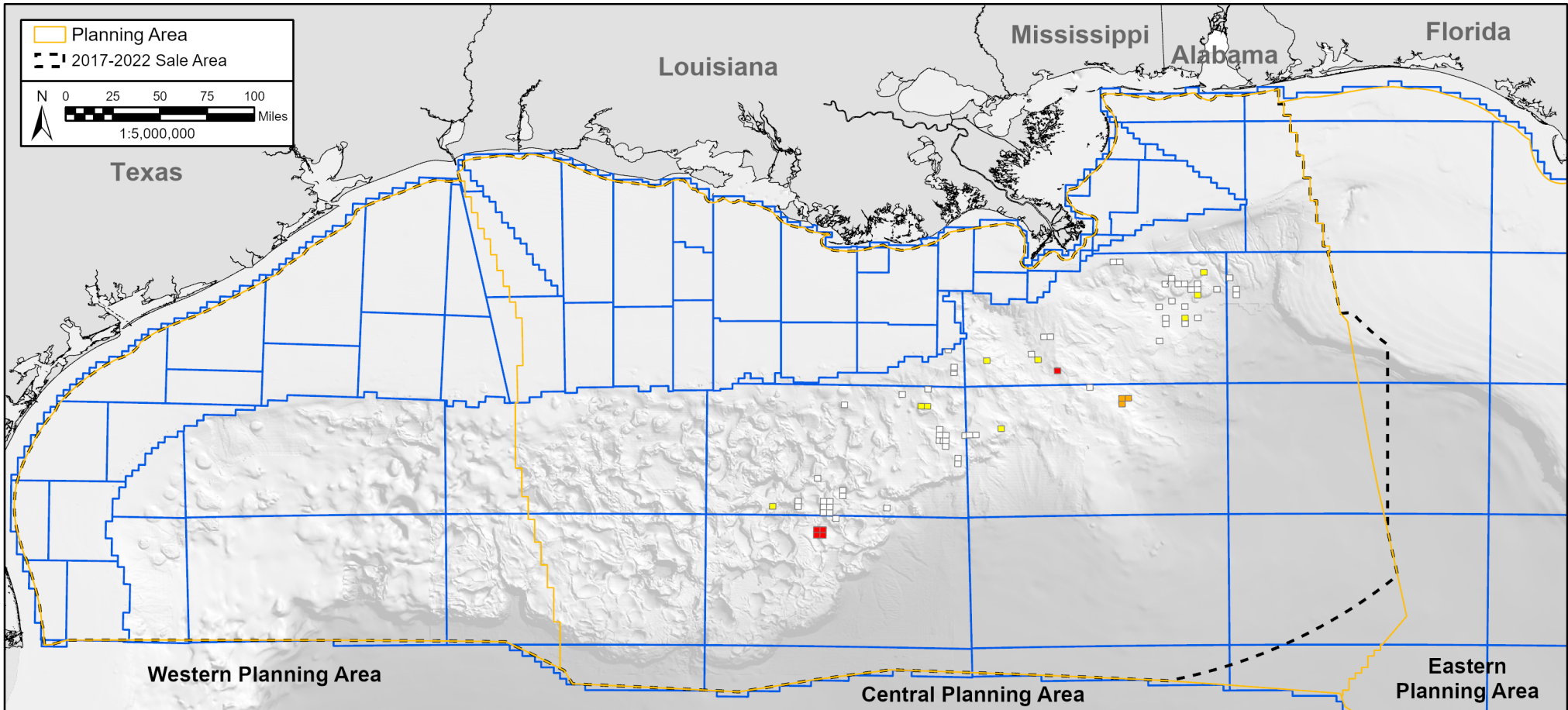
Parent Company (Headquarters Location): Kosmos Energy Ltd. (Dallas, Texas, United States)

Subsidiary Company Names: (1) Kosmos Energy Gulf of Mexico Operations, LLC

Ownership Percentage



Figure 70. Rank 22 - Kosmos' 2023 leased acreage map



Red Willow Leased Acreage

Rank: 23

111,913 Acres Currently Leased

74 Active Leases

Parent Company (Headquarters Location): Red Willow Production Company (Ignacio, Colorado, United States) - an affiliate of the Southern Ute Indian Tribe
Subsidiary Company Names: (1) Red Willow Offshore, LLC and (2) Red Willow Mid-Continent, LLC

Ownership Percentage

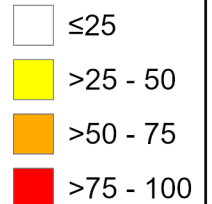
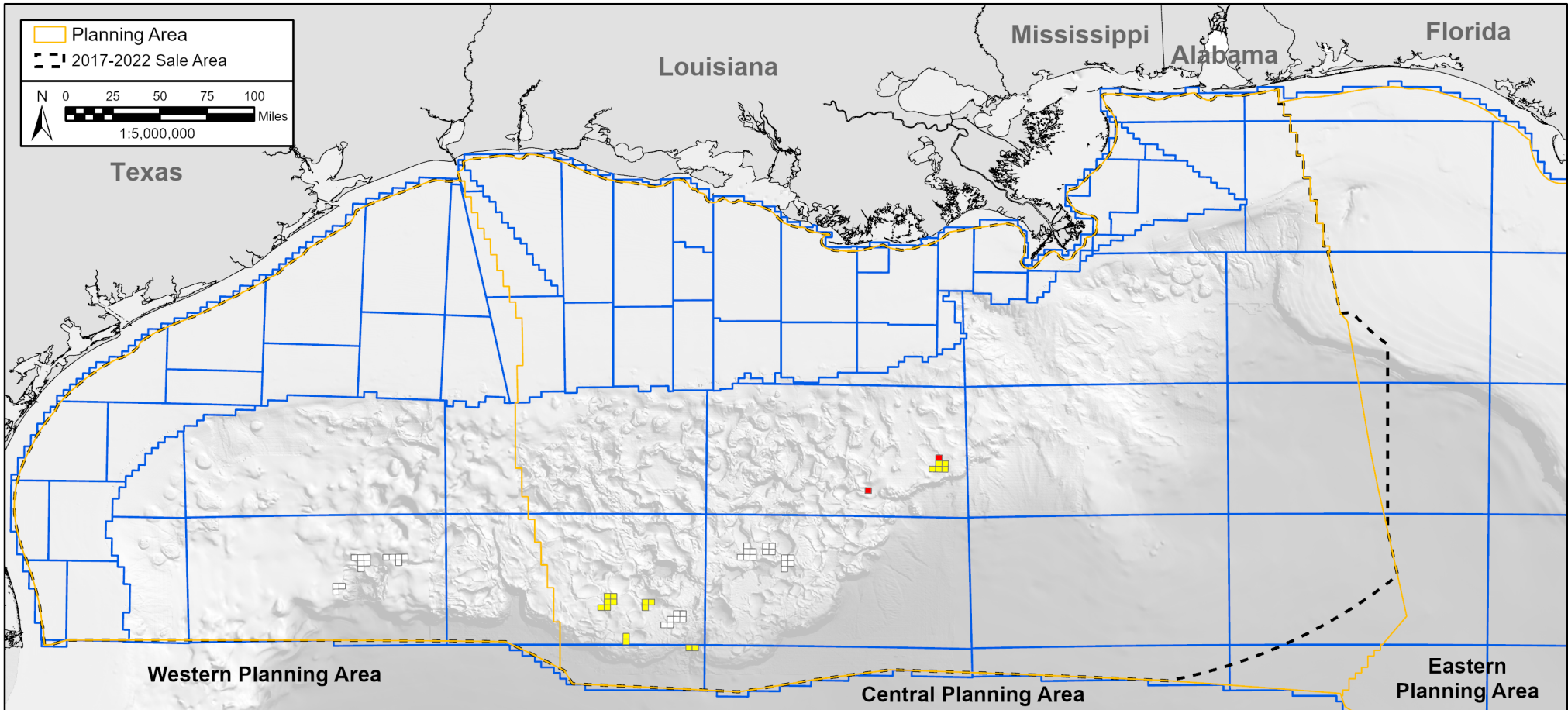


Figure 73. Rank 23 - Red Willow's 2023 leased acreage map



Repsol Leased Acreage

Rank: 24

101,844 Acres Currently Leased

56 Active Leases

Parent Company (Headquarters Location): Repsol, S.A. (Madrid, Spain)

Subsidiary Company Names: (1) Repsol E&P USA LLC and (2) Repsol Oil & Gas Gulf of Mexico, LLC

Ownership Percentage

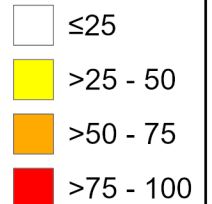
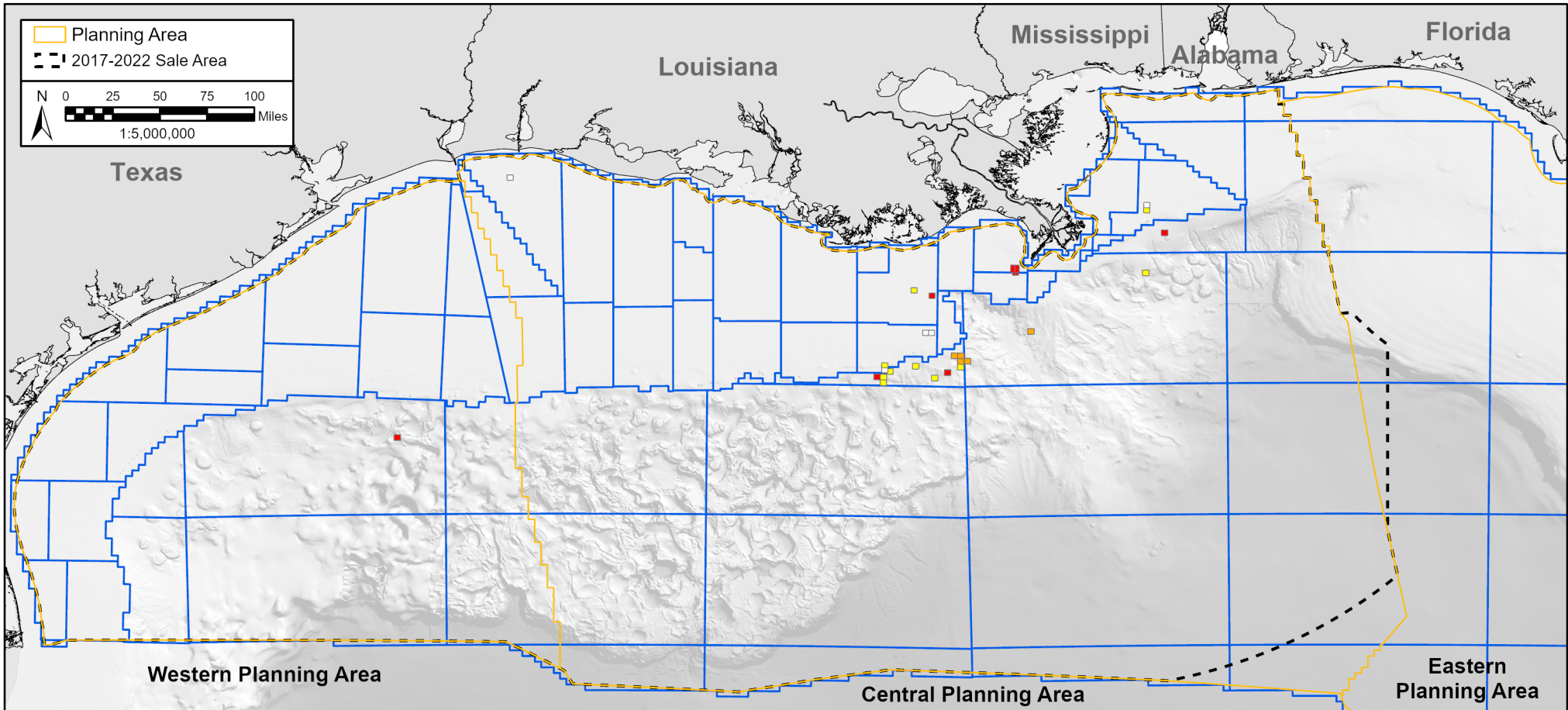


Figure 76. Rank 24 - Repsol's 2023 leased acreage map



Walter Leased Acreage

Rank: 25

86,760 Acres Currently Leased

32 Active Leases

Parent Company (Headquarters Location): Walter Oil & Gas Corporation (Houston, Texas, United States)

Subsidiary Company Names: (1) Walter Oil & Gas Corporation, (2) Walter Hydrocarbons, Inc., (3) Walter Operating Corporation, (4) Walter Petroleum Corporation, and (5) Walter Oil & Minerals Corporation

Ownership Percentage

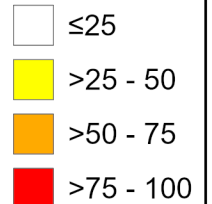
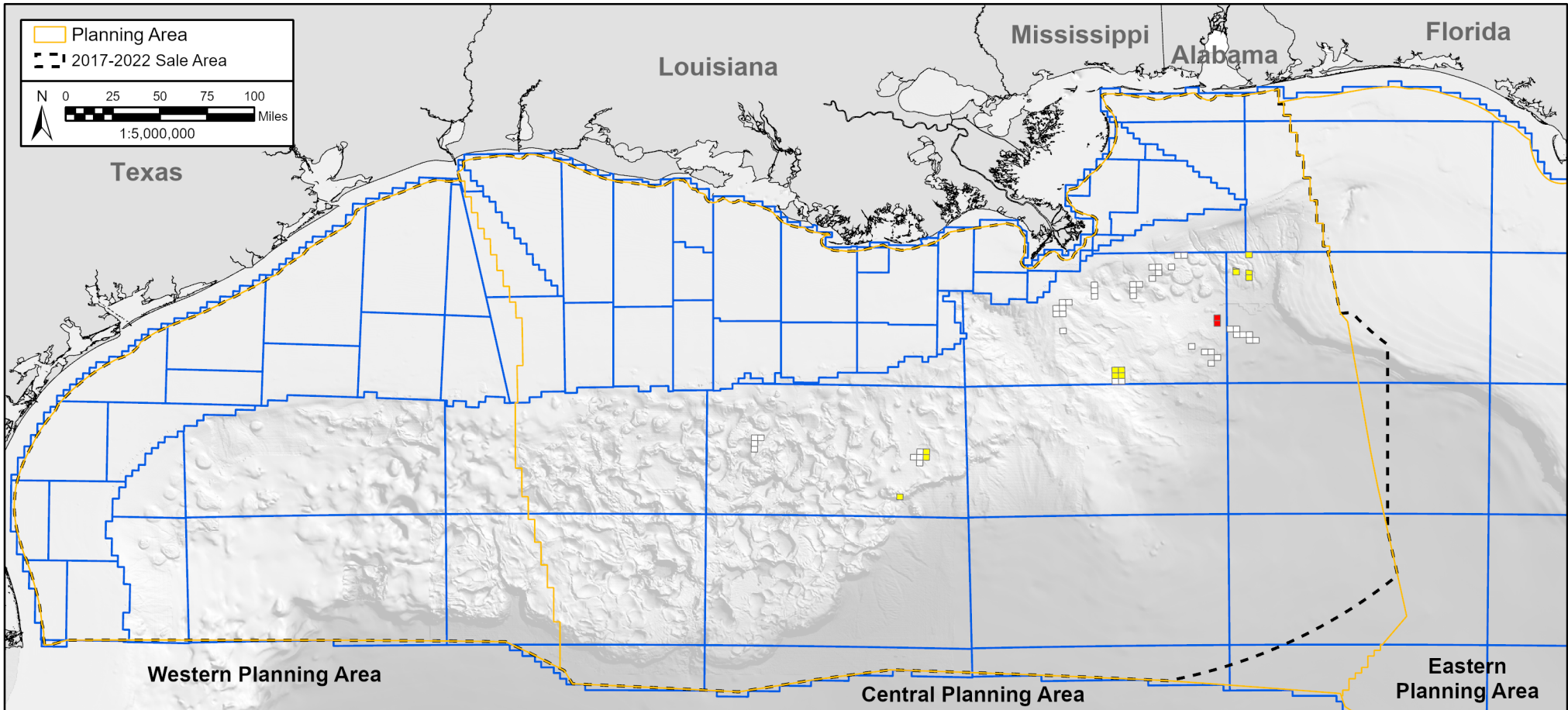


Figure 79. Rank 25 - Walter's 2023 leased acreage map



Ecopetrol Leased Acreage

Rank: 26

80,794 Acres Currently Leased

57 Active Leases

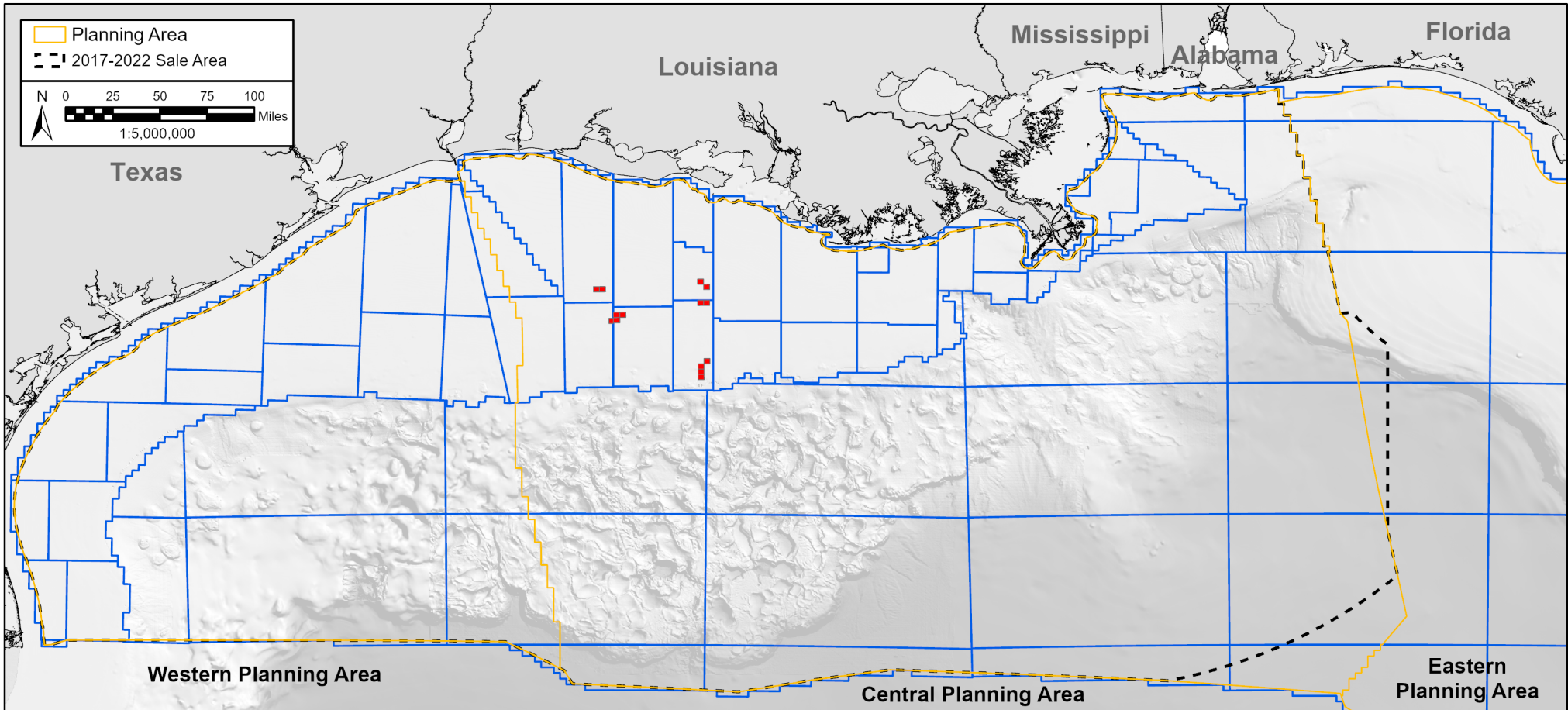
Parent Company (Headquarters Location): Ecopetrol S.A. (Bogotá, Colombia)

Subsidiary Company Names: (1) Ecopetrol America LLC

Ownership Percentage



Figure 82. Rank 26 - Ecopetrol's 2023 leased acreage map



DG Leased Acreage

Rank: 27

69,687 Acres Currently Leased

14 Active Leases

Parent Company (Headquarters Location): DG Exploration, Inc. (Houston, Texas, United States)

Subsidiary Company Names: (1) DG Exploration, Inc.

Ownership Percentage

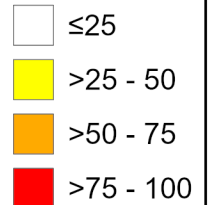
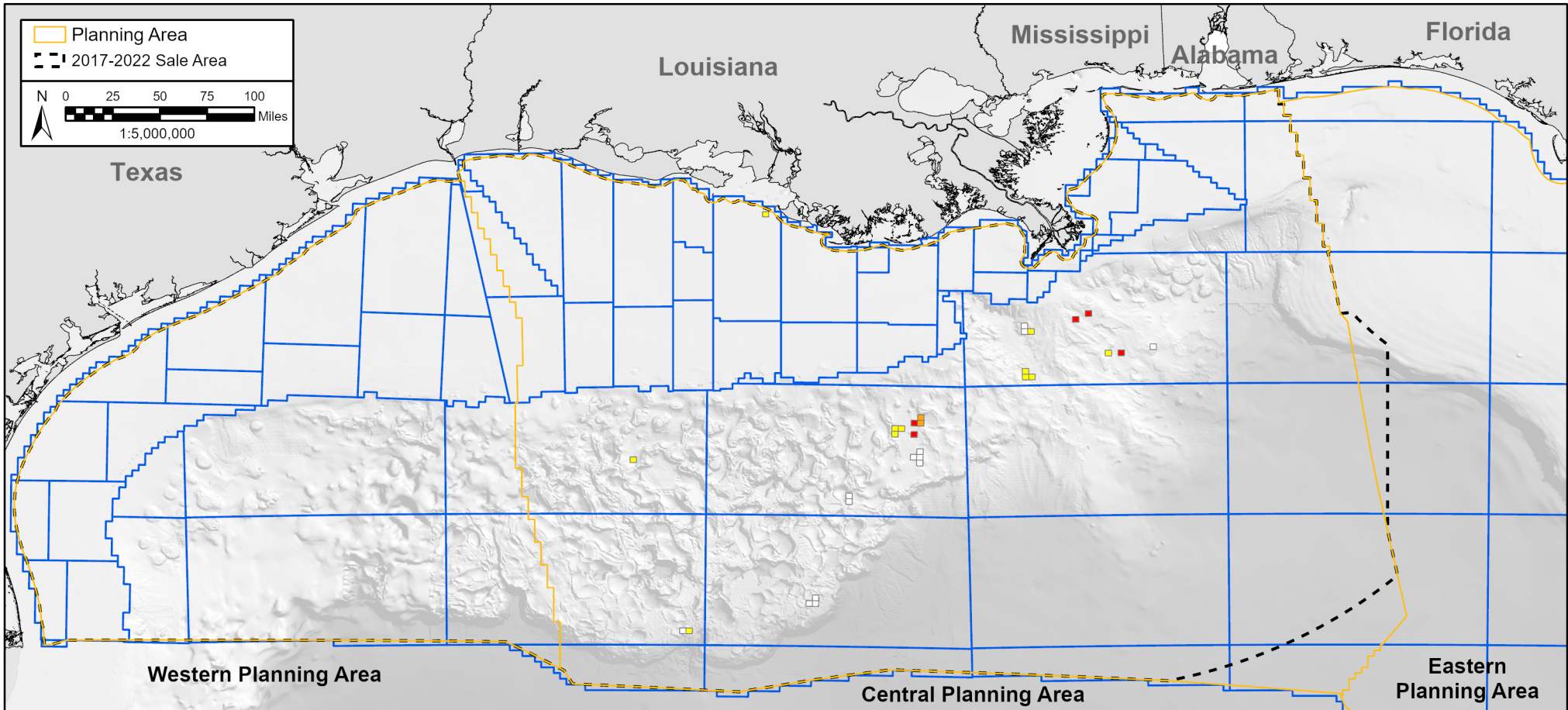


Figure 85. Rank 27 – DG's 2023 leased acreage map



Eni Leased Acreage

Rank: 28

67,724 Acres Currently Leased

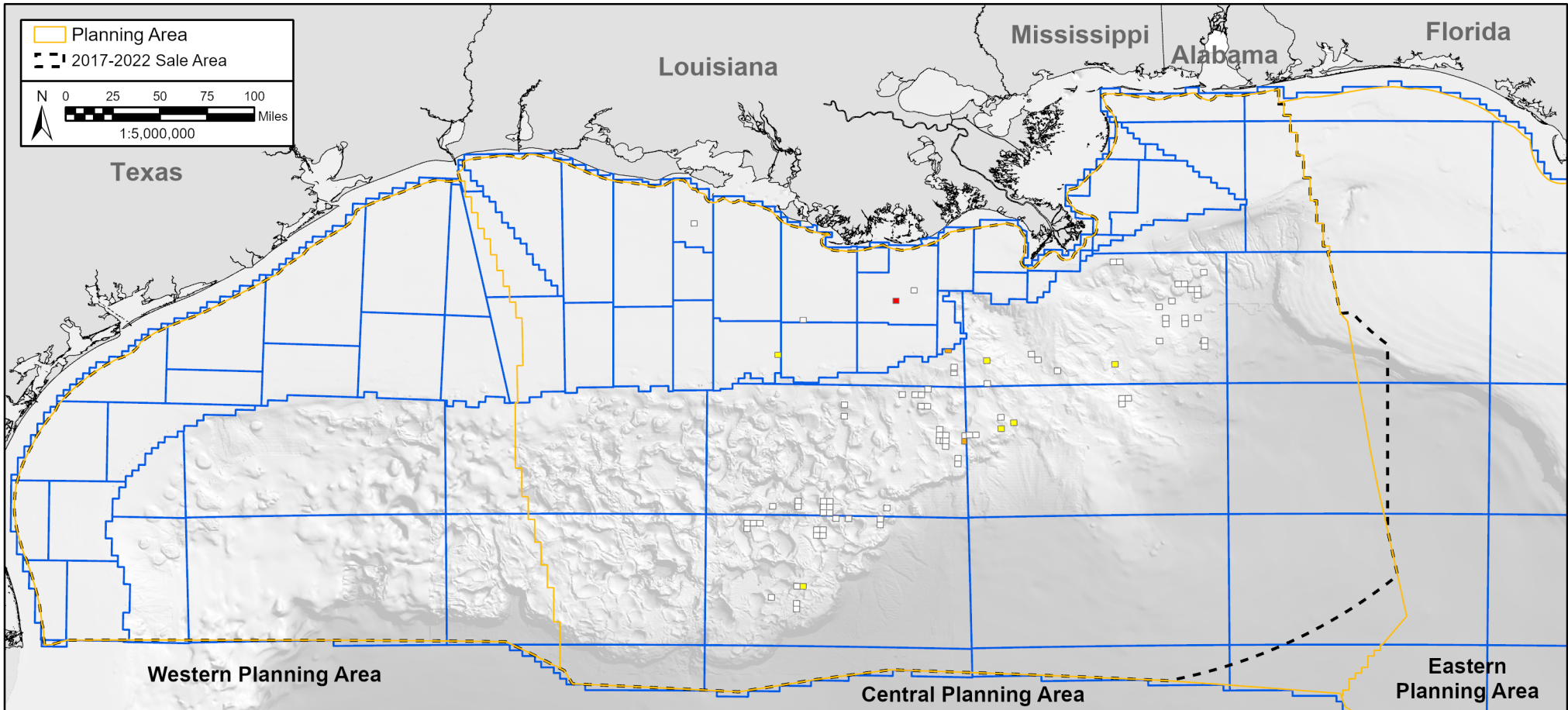
31 Active Leases

Parent Company (Headquarters Location): Eni SpA (Roma, Italy)
 Subsidiary Company Names: (1) Eni Petroleum US LLC

Ownership Percentage

- ≤25
- >25 - 50
- >50 - 75
- >75 - 100

Figure 88. Rank 28 - Eni's 2023 leased acreage map



Houston Energy Leased Acreage

Rank: 29

65,991 Acres Currently Leased

88 Active Leases

Parent Company (Headquarters Location): Houston Energy, L.P. (Houston, Texas, United States)

Subsidiary Company Names: (1) Houston Energy, L.P., (2) HEQ Blue Ridge, LLC, (3) HEDV Winterfell, LLC, (4) Houston Energy Deepwater Ventures XI, LLC, (5) HEDV KLM, LLC, (6) HEDV String Music, LLC, (7) HE&D Offshore, L.P., (8) Houston Energy Deepwater Ventures V, LLC, (9) Houston Energy Deepwater Ventures III, LLC, (10) HEDV Mudbug, LLC, (11) HEDV Beaverspear, LLC, (12) HEDV LaFemme, LLC, (13) Houston Energy Deepwater Ventures I, LLC, (14) Houston Energy Deepwater Ventures IX, LLC, (15) HEDV Dothraki, LLC, (16) HEDV Tabasco, LLC, and 8 other Houston Energy variants

Ownership Percentage

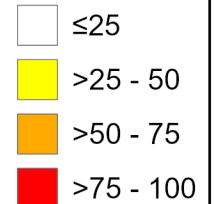
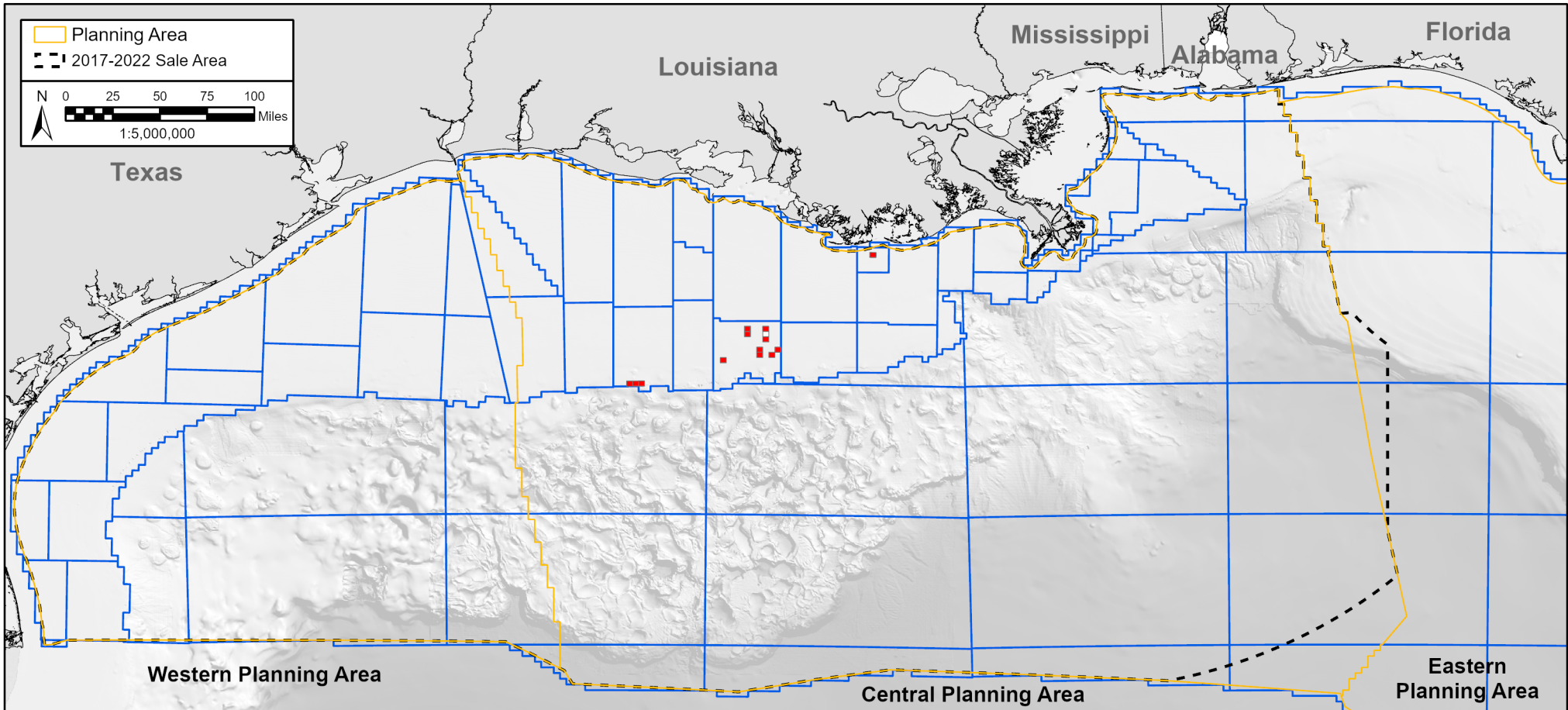


Figure 91. Rank 29 - Houston Energy's 2023 leased acreage map



Juneau Leased Acreage

Rank: 30

65,363 Acres Currently Leased

14 Active Leases

Parent Company (Headquarters Location): Juneau Oil & Gas, LLC (Houston, Texas, United States)

Subsidiary Company Names: (1) Juneau Oil & Gas, LLC

Ownership Percentage

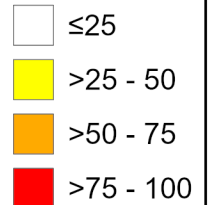
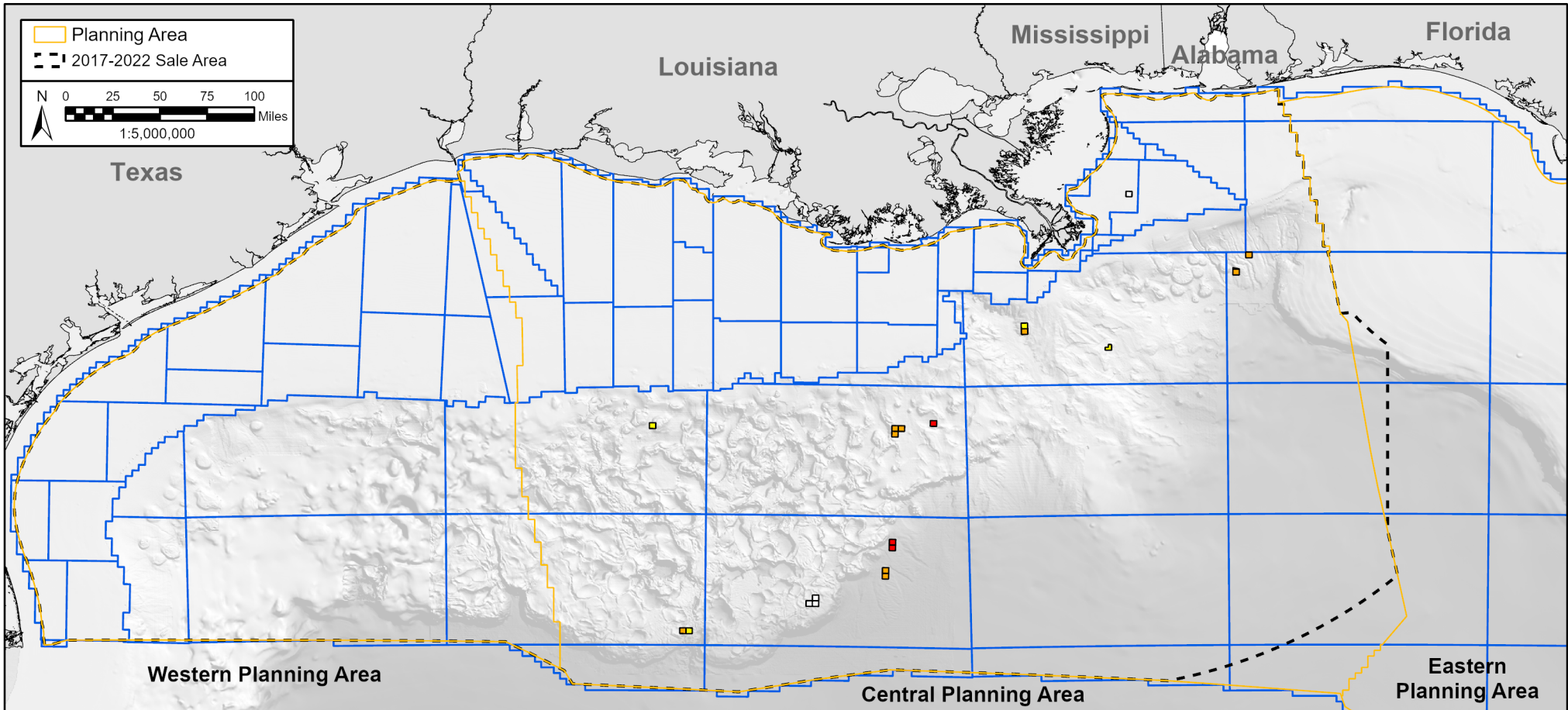


Figure 94. Rank 30 - Juneau's 2023 leased acreage map



Petrobras Leased Acreage

Rank: 31

64,683 Acres Currently Leased

21 Active Leases

Parent Company (Headquarters Location): Petróleo Brasileiro S.A. - Petrobras (Rio de Janeiro, Brazil)

Subsidiary Company Names: (1) MP Gulf of Mexico, LLC

Note: MP Gulf of Mexico, LLC is a joint venture between Murphy Exploration & Production Company - USA and Petrobras America Inc. and is listed as a subsidiary for both Murphy and Petrobras. MP Gulf of Mexico, LLC leases are outlined in black.

Ownership Percentage

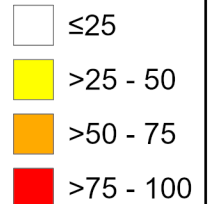
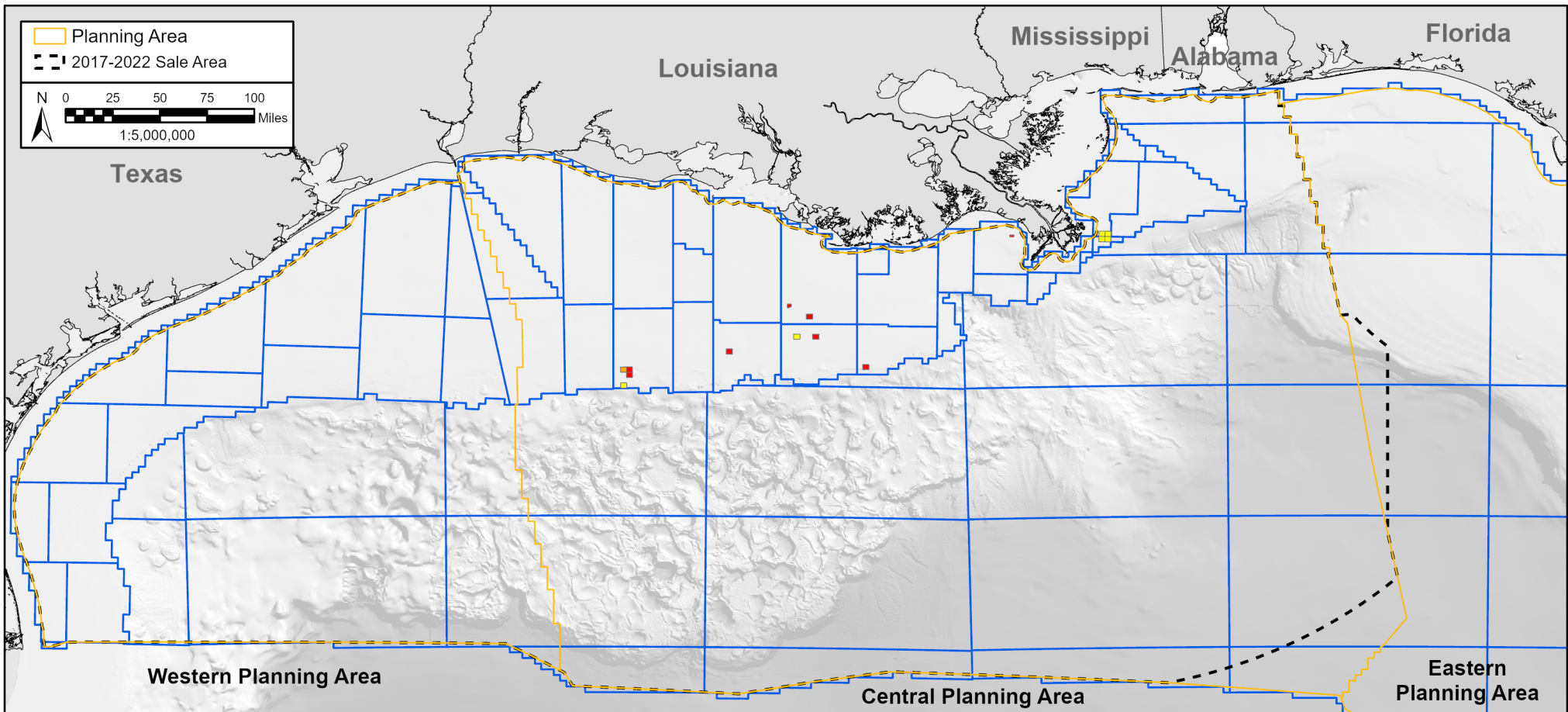


Figure 97. Rank 31 - Petrobras' 2023 leased acreage map



Renaissance Leased Acreage

Rank: 32

52,343 Acres Currently Leased

16 Active Leases

Parent Company (Headquarters Location): Renaissance Offshore, LLC (Houston, Texas, United States)

Subsidiary Company Names: (1) Renaissance Offshore, LLC

Ownership Percentage

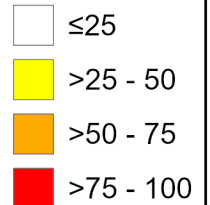
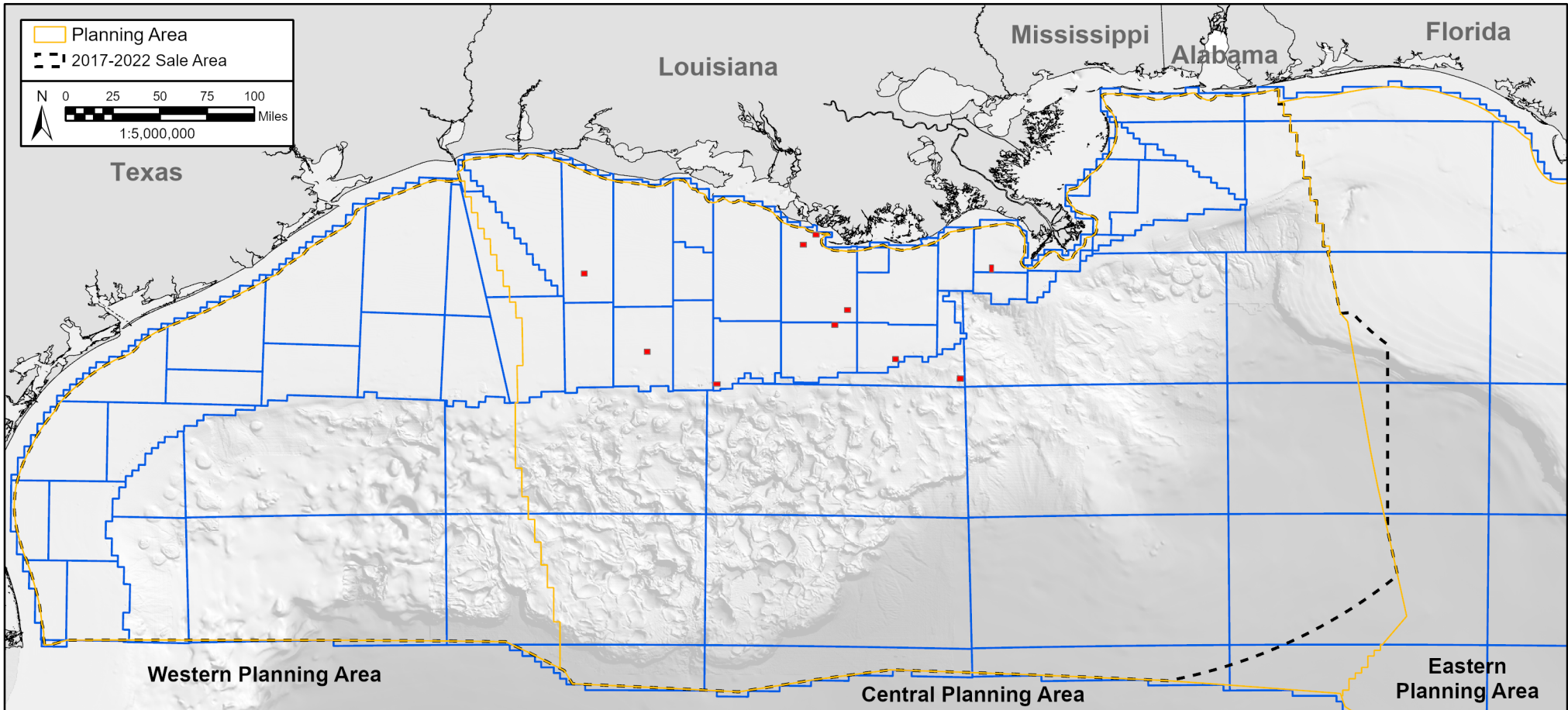


Figure 100. Rank 32 - Renaissance's 2023 leased acreage map



Focus Leased Acreage

Rank: 33

50,536 Acres Currently Leased

10 Active Leases

Parent Company (Headquarters Location): Focus Exploration, LLC (Houston, Texas, United States)

Subsidiary Company Names: (1) Focus Exploration, LLC

Ownership Percentage

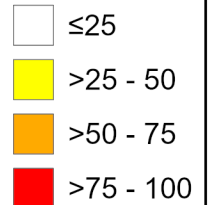
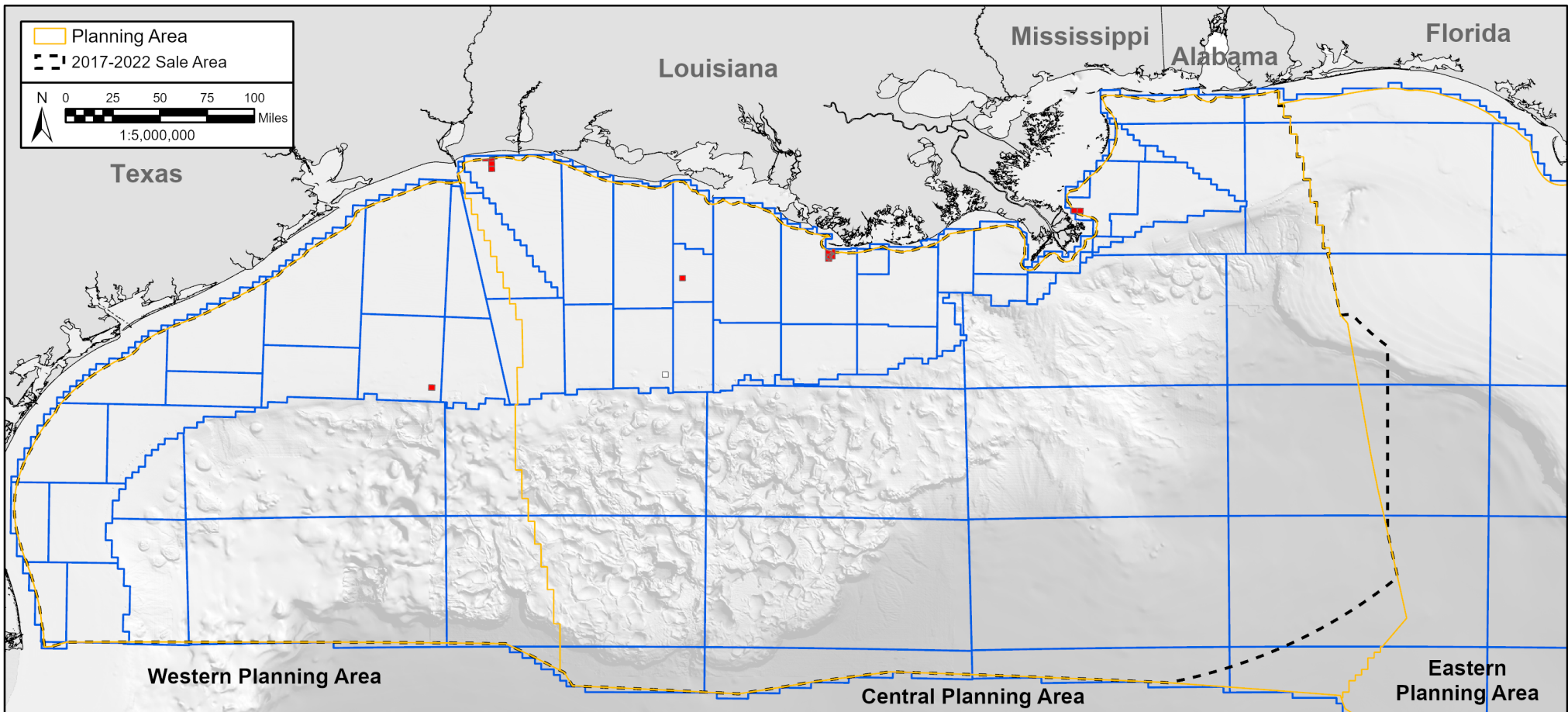


Figure 103. Rank 33 - Focus' 2023 leased acreage map



Orinoco Leased Acreage

Rank: 34

45,957 Acres Currently Leased

19 Active Leases

Parent Company (Headquarters Location): Orinoco Natural Resources, LLC (Roanoke, Virginia, United States)

Subsidiary Company Names: (1) Sanare Energy Partners, LLC

Ownership Percentage

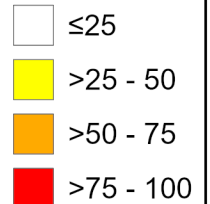
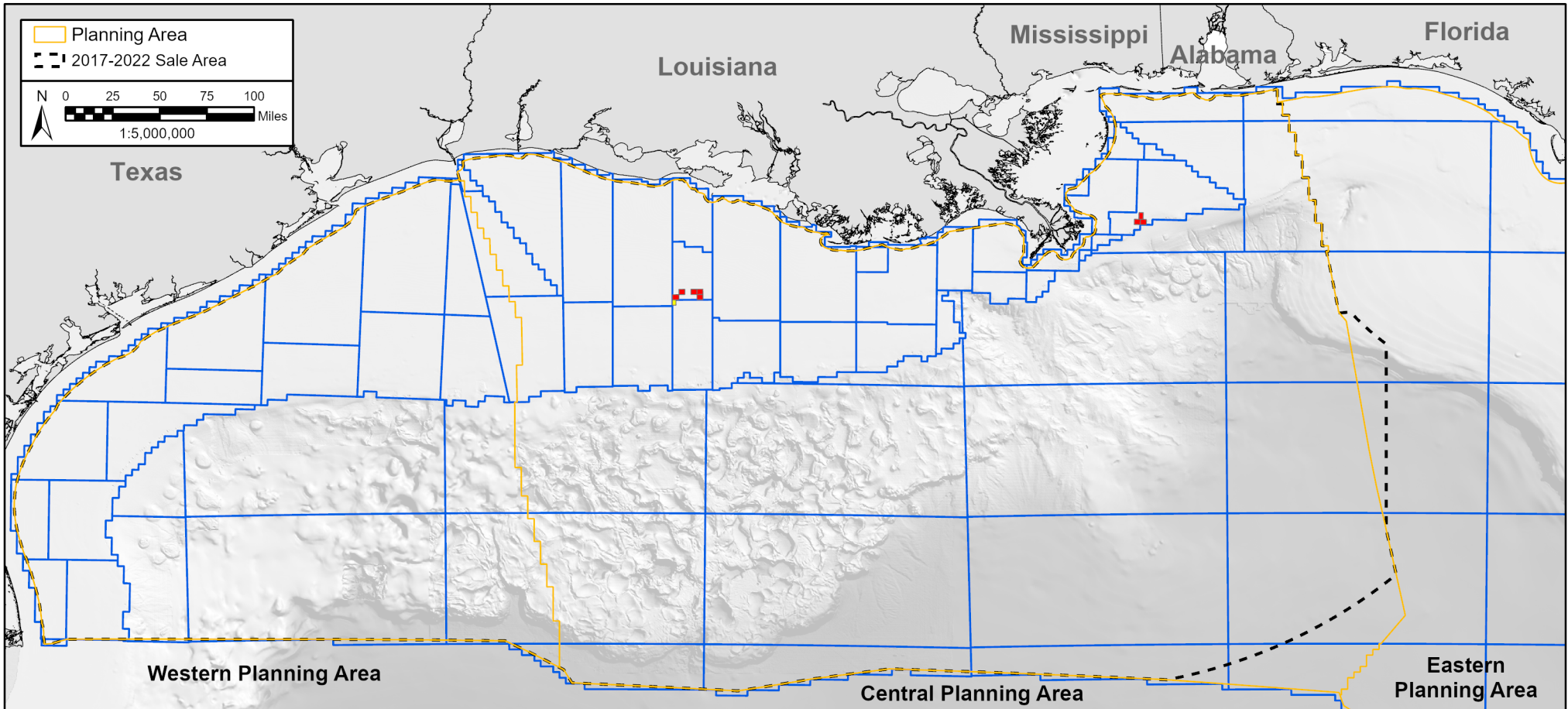


Figure 106. Rank 34 - Orinoco's 2023 leased acreage map



Byron Leased Acreage

Rank: 35

41,531 Acres Currently Leased

9 Active Leases

Parent Company (Headquarters Location): Byron Energy Limited (Melbourne, Australia)
 Subsidiary Company Names: (1) Byron Energy Inc.

Ownership Percentage

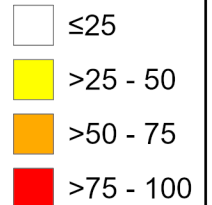
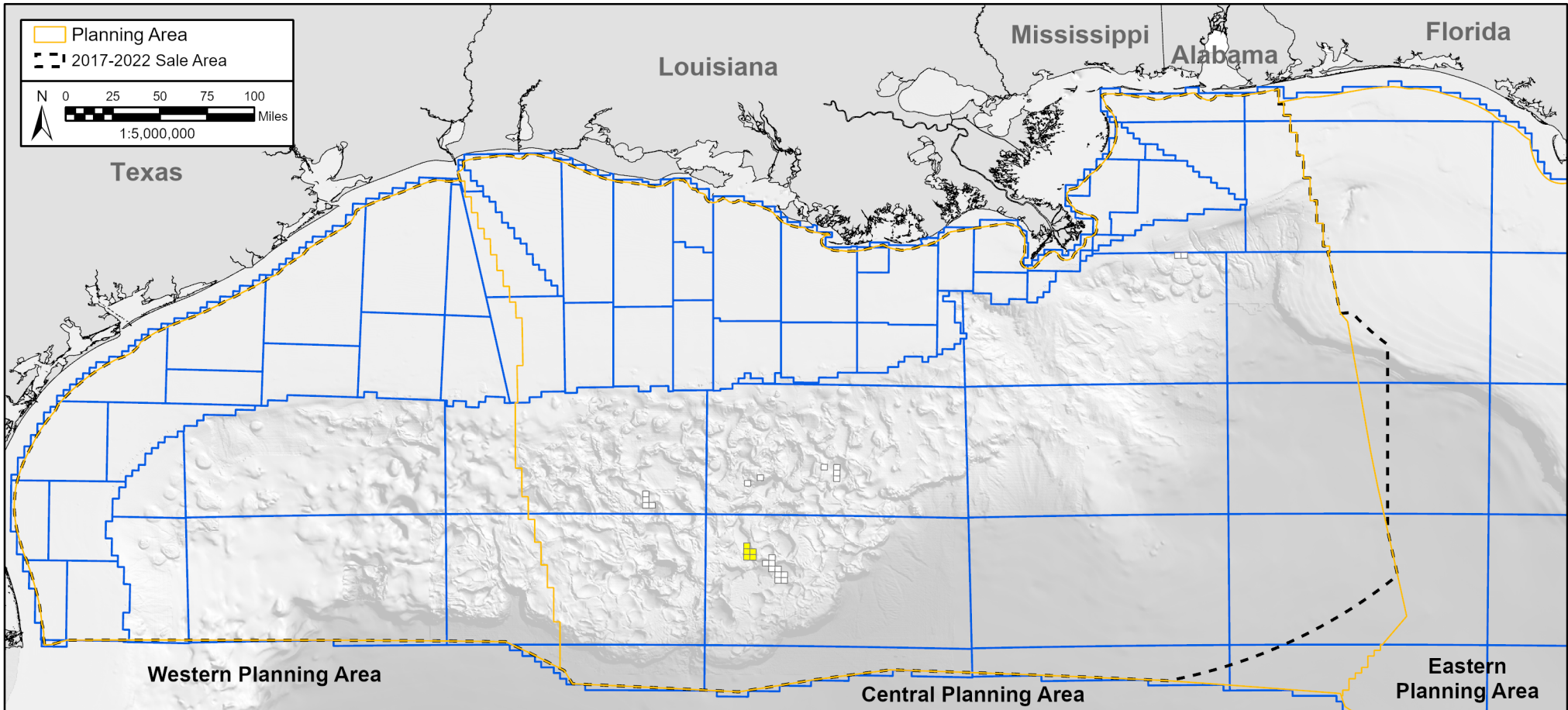


Figure 109. Rank 35 - Byron's 2023 leased acreage map



Petronas Leased Acreage

Rank: 36

29,952 Acres Currently Leased

26 Active Leases

Parent Company (Headquarters Location): Petroliam Nasional Berhad (Kuala Lumpur, Malaysia)

Subsidiary Company Names: (1) Progress Resources Gulf of Mexico LLC and (2) Progress Resources USA Ltd.

Ownership Percentage

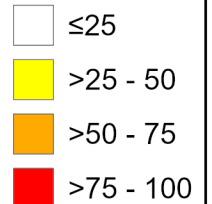
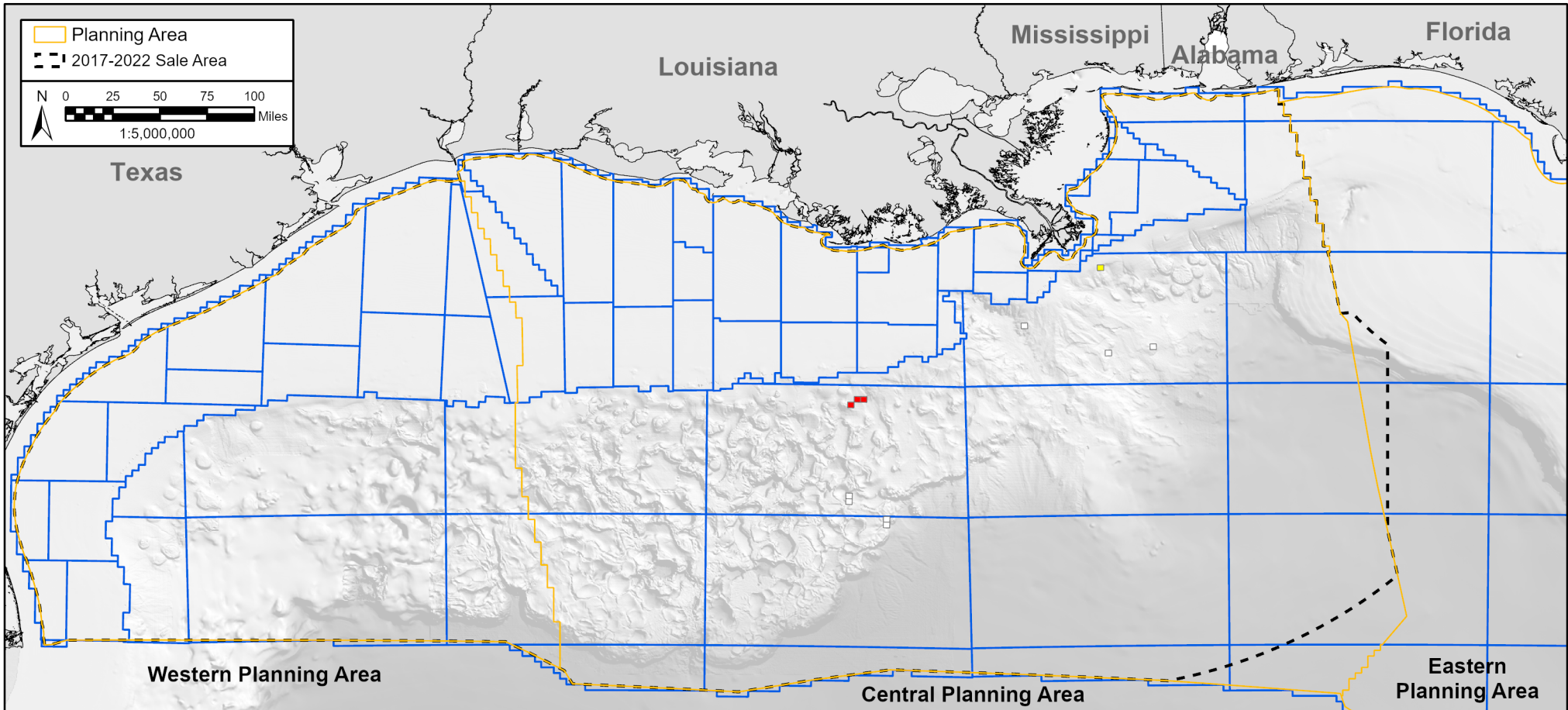


Figure 112. Rank 36 - Petronas' 2023 leased acreage map



Marubeni Leased Acreage

Rank: 37

24,960 Acres Currently Leased

11 Active Leases

Parent Company (Headquarters Location): Marubeni Corporation (Tokyo, Japan)

Subsidiary Company Names: (1) Marubeni Oil & Gas (USA) LLC

Ownership Percentage

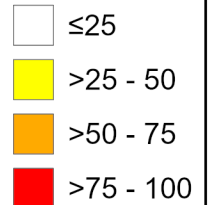
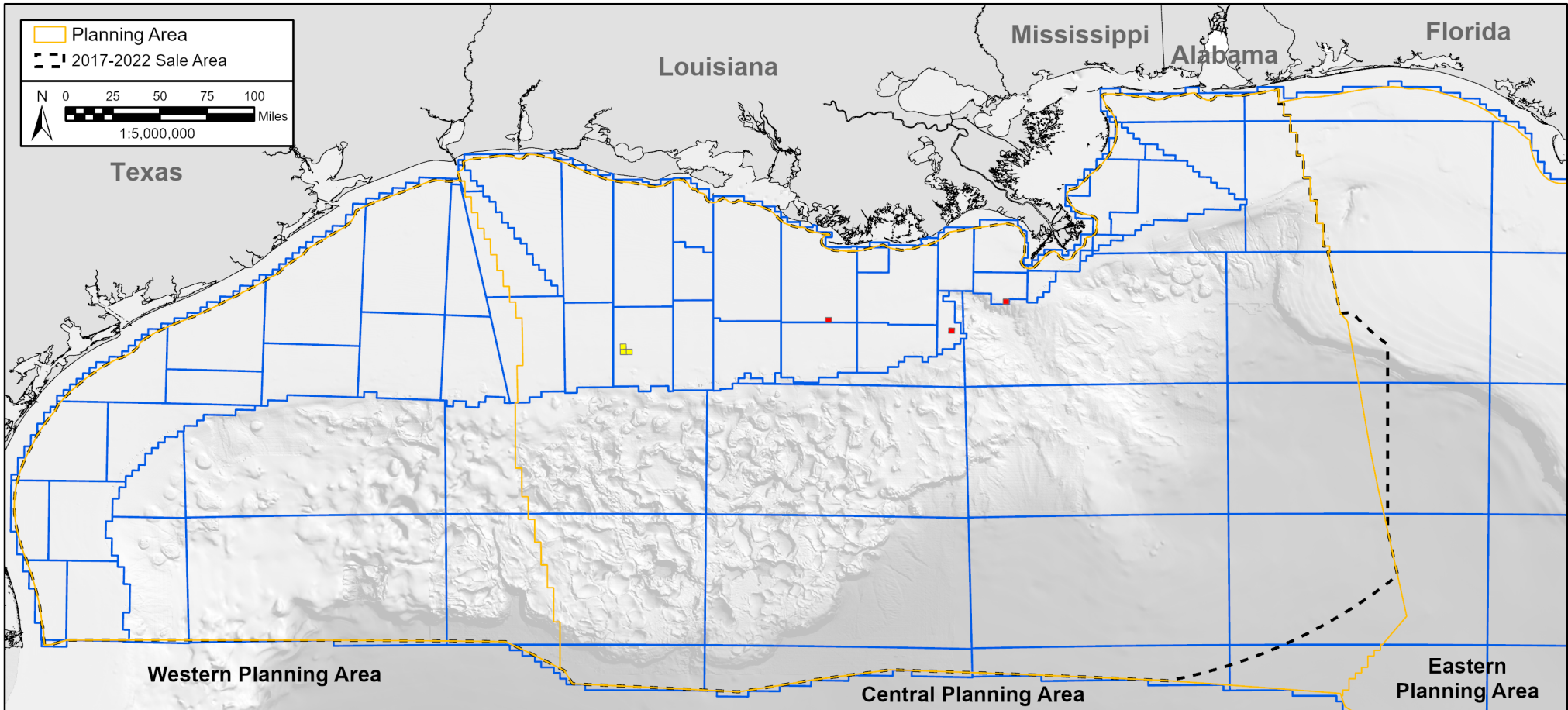


Figure 115. Rank 37 - Marubeni's 2023 leased acreage map



Peregrine Leased Acreage

Rank: 38

22,500 Acres Currently Leased

6 Active Leases

Parent Company (Headquarters Location): Peregrine Oil & Gas LP (Houston, Texas, United States)

Subsidiary Company Names: (1) GOM Energy Venture III, LLC

Ownership Percentage

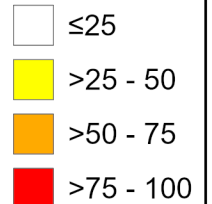
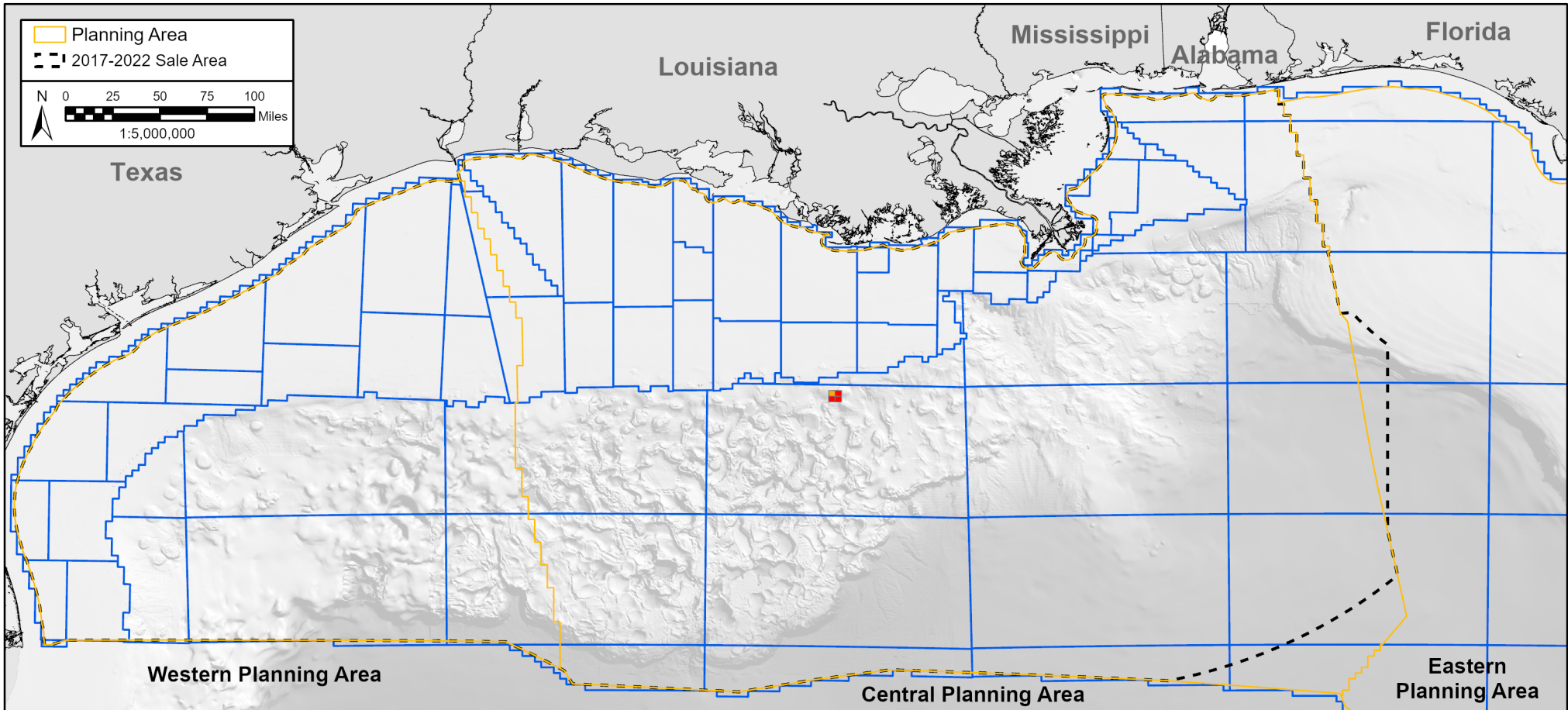


Figure 118. Rank 38 - Peregrine's 2023 leased acreage map



Superior Leased Acreage

Rank: 39

20,218 Acres Currently Leased

4 Active Leases

Parent Company (Headquarters Location): Superior Energy Services, Inc. (Houston, Texas, United States)

Subsidiary Company Names: (1) Wild Well Control, Inc.

Ownership Percentage

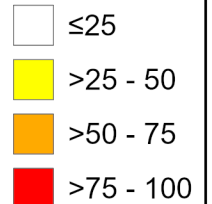
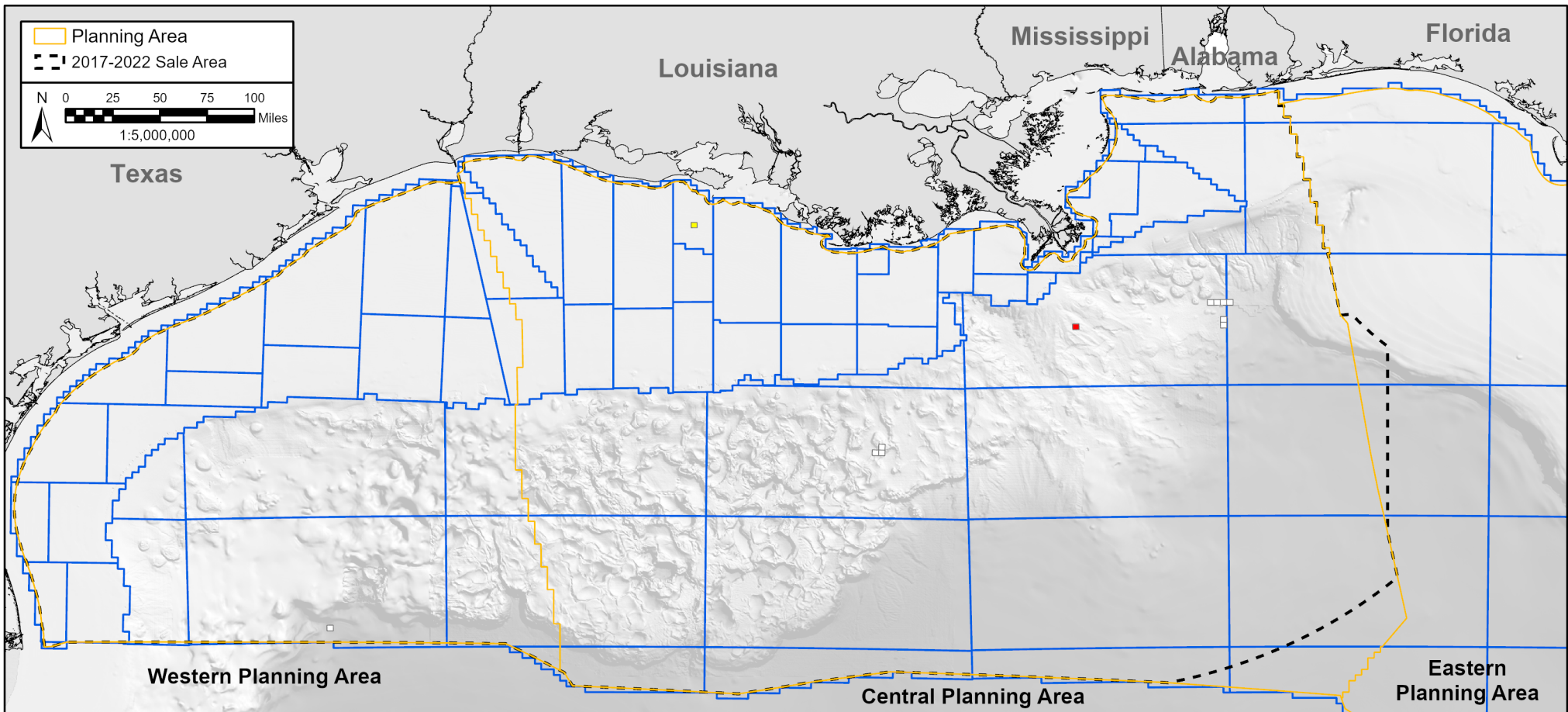


Figure 121. Rank 39 - Superior's 2023 leased acreage map



CNOOC Leased Acreage

Rank: 40

19,601 Acres Currently Leased

12 Active Leases

Parent Company (Headquarters Location): China National Offshore Oil Corporation (Beijing, China)

Subsidiary Company Names: (1) CNOOC Petroleum Offshore U.S.A. Inc.

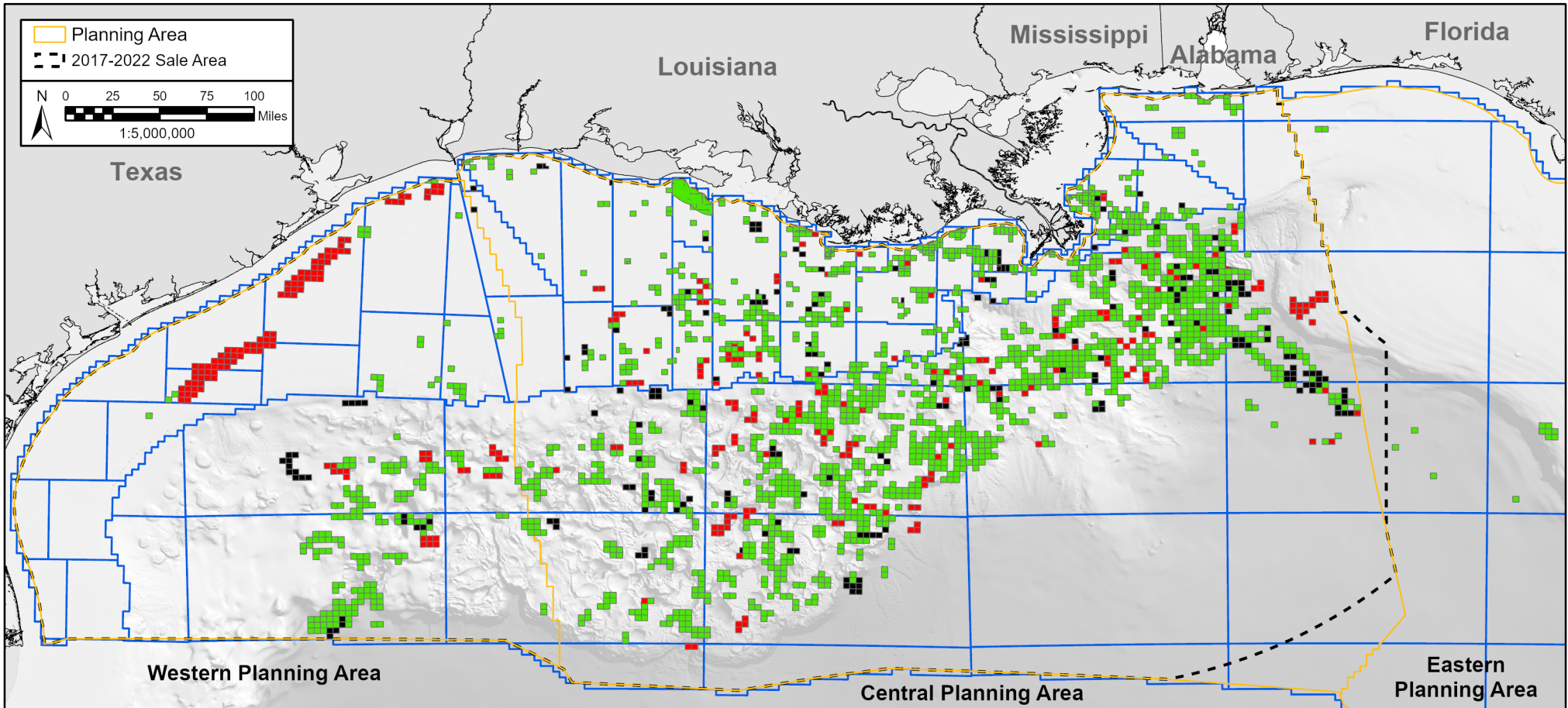
Ownership Percentage



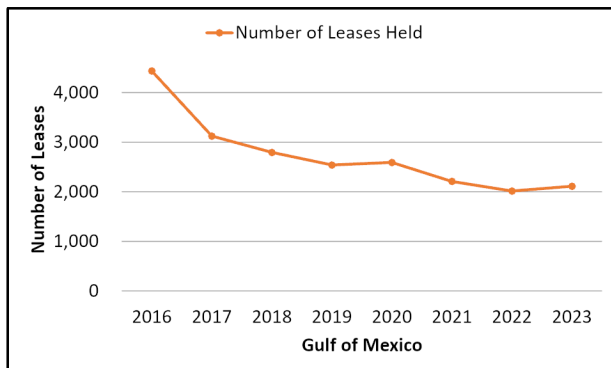
Figure 124. Rank 40 - CNOOC's 2023 leased acreage map

Part II: 2022 and 2023 Lease Ownership Comparison

The following tables, graphs, and figures compare the top forty companies' lease holdings of 2022 to 2023. The map figures illustrate a change in lease ownership or lack thereof. The lease ownership graphs for each company extends the data to 2016 (the first year a detailed analysis was recorded).



Leased Acreage Comparison



January 3, 2022
 2,015 Active Leases

January 3, 2023
 2,111 Active Leases

Map Note: Leases that have been expired, terminated, or relinquished after the date of January 3, 2022 and have been re-leased in a sale after January 3, 2022 and before January 3, 2023 will be included in the "No change" numbers.

Ownership Change

- Decrease (212)
- No change (1803)
- Increase (308)

Figure 127. Gulf of Mexico 2022 and 2023 leased acreage comparison

2022/2023 Lease Comparison by Company

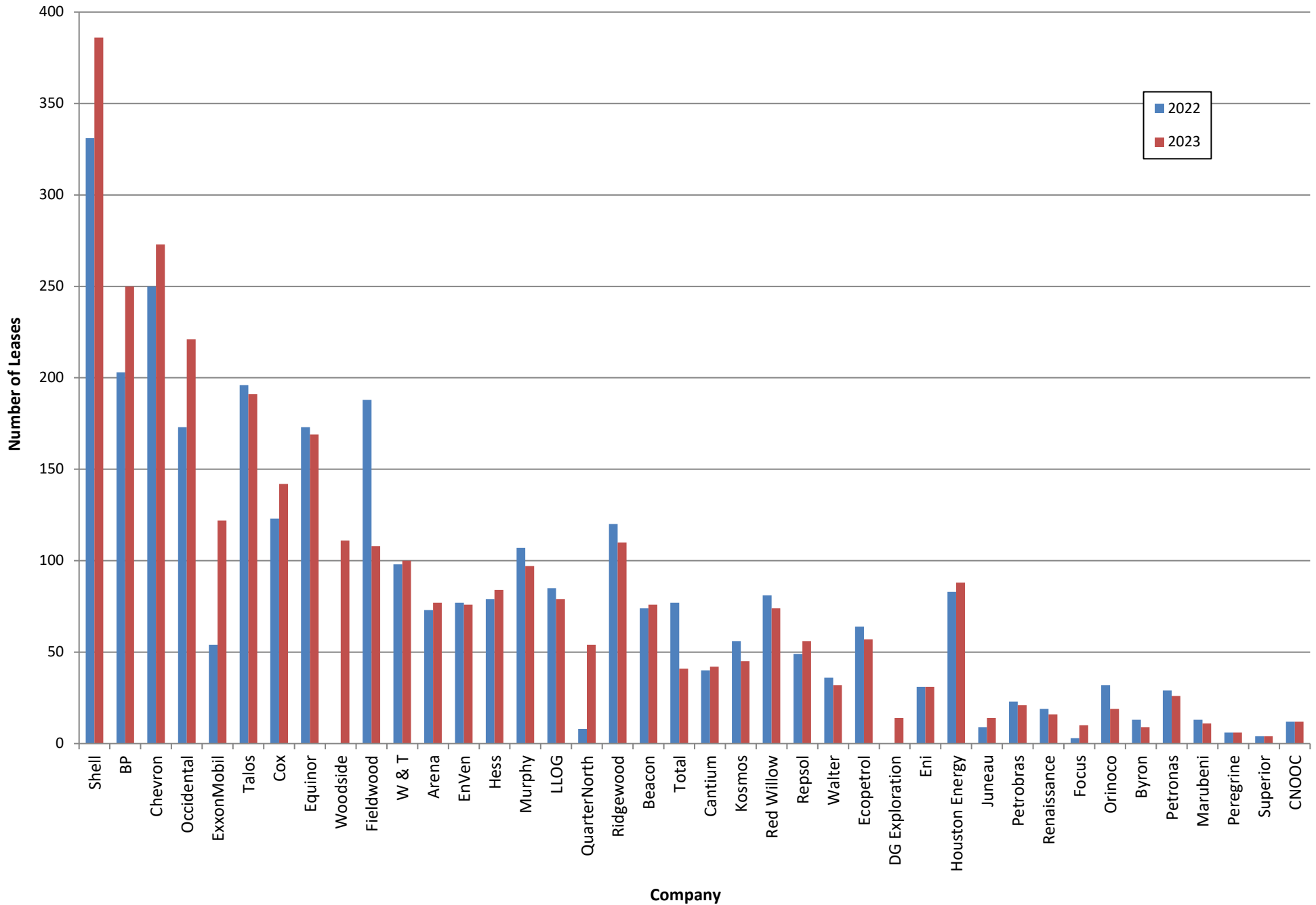


Figure 130. Bar graph of the number of active leases in 2022 and 2023 for the Top 40 companies in the Gulf of Mexico

2022/2023 Lease Gain or Loss (%)

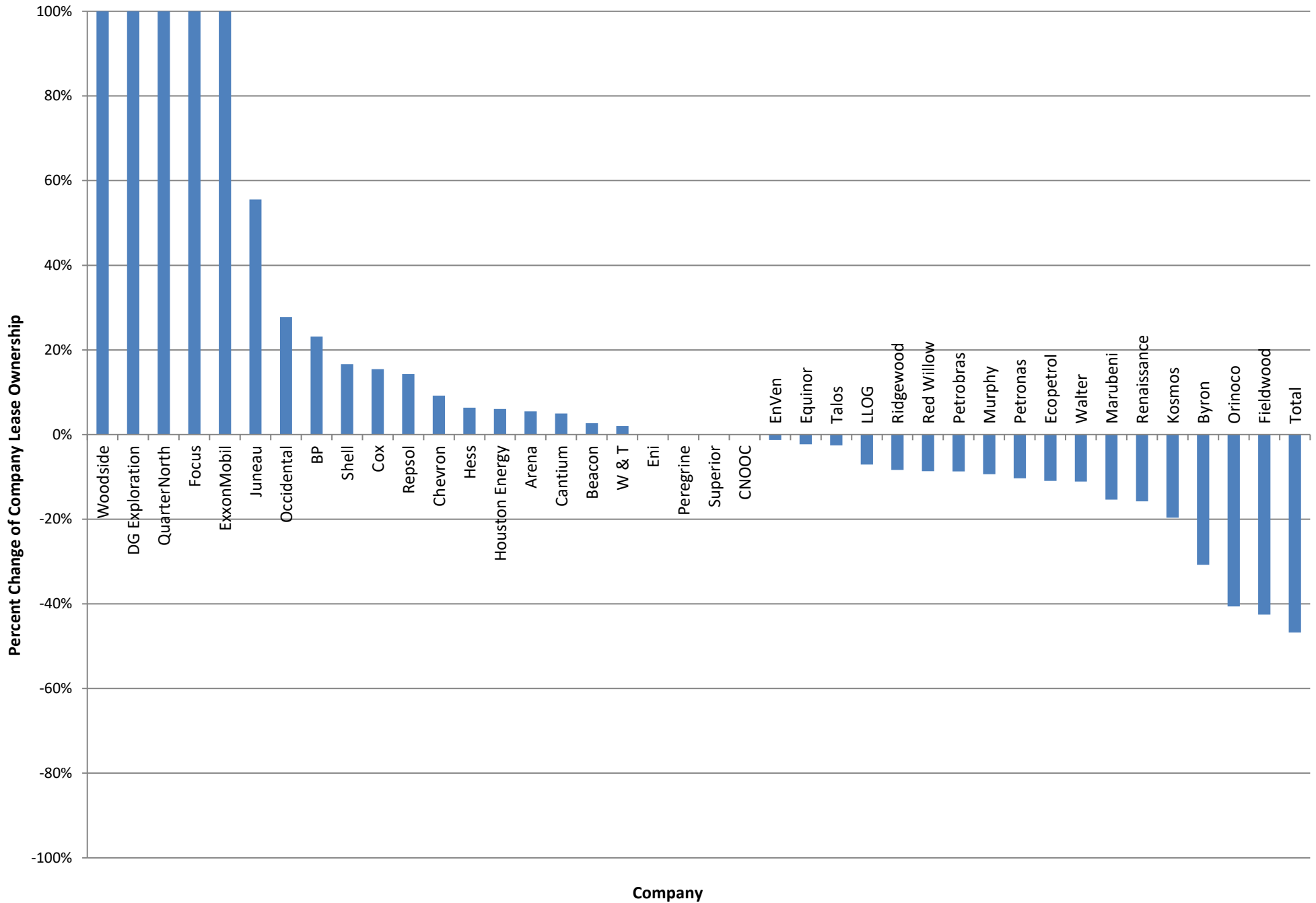


Figure 133. Bar graph of a company's lease loss or gain (%) from 2022 to 2023

2022/2023 Leased Acreage Comparison by Company

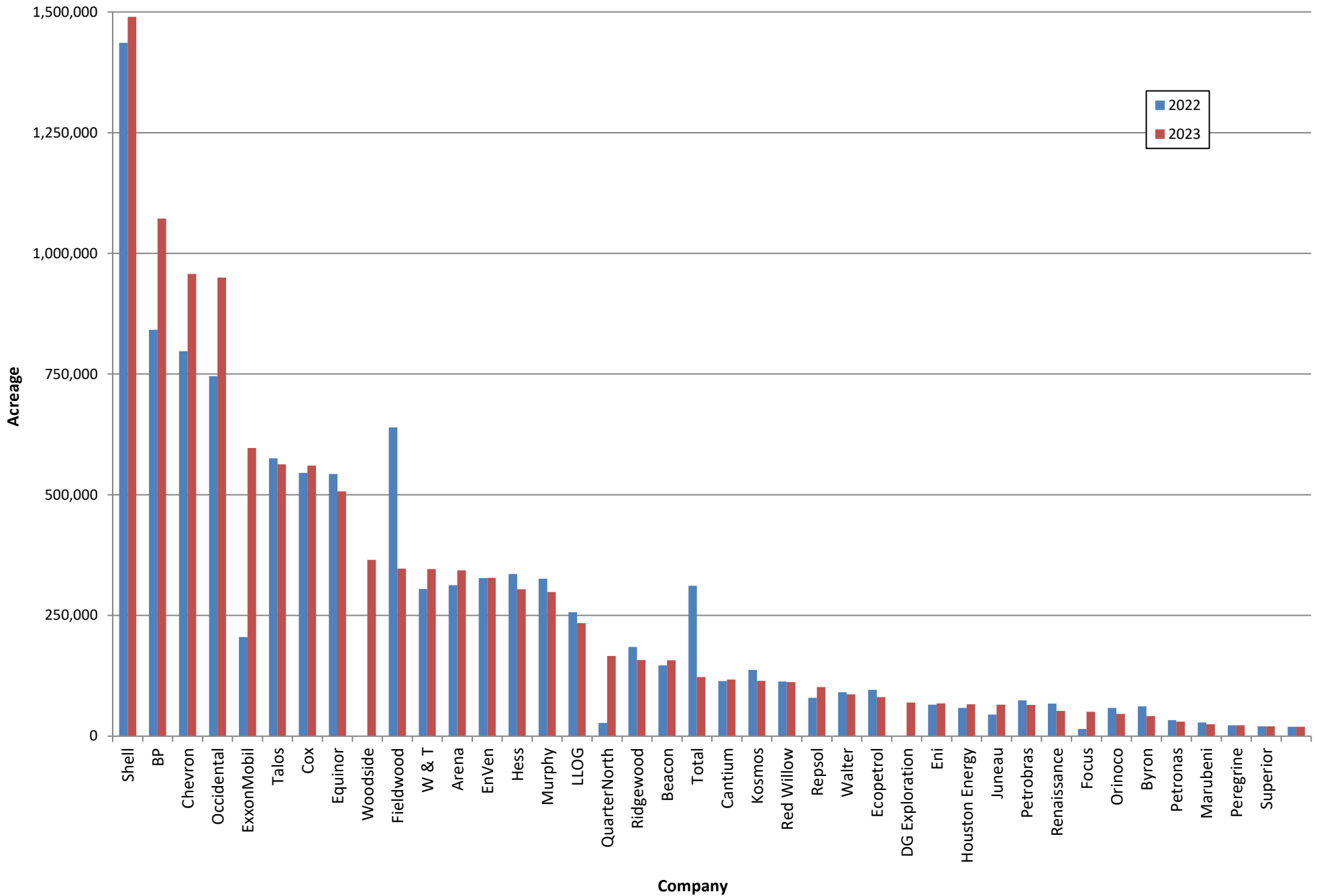


Figure 136. Bar graph of the leased acreage in 2022 and 2023 for the Top 40 companies in the Gulf of Mexico

2022/2023 Leased Acreage Gain or Loss (%)

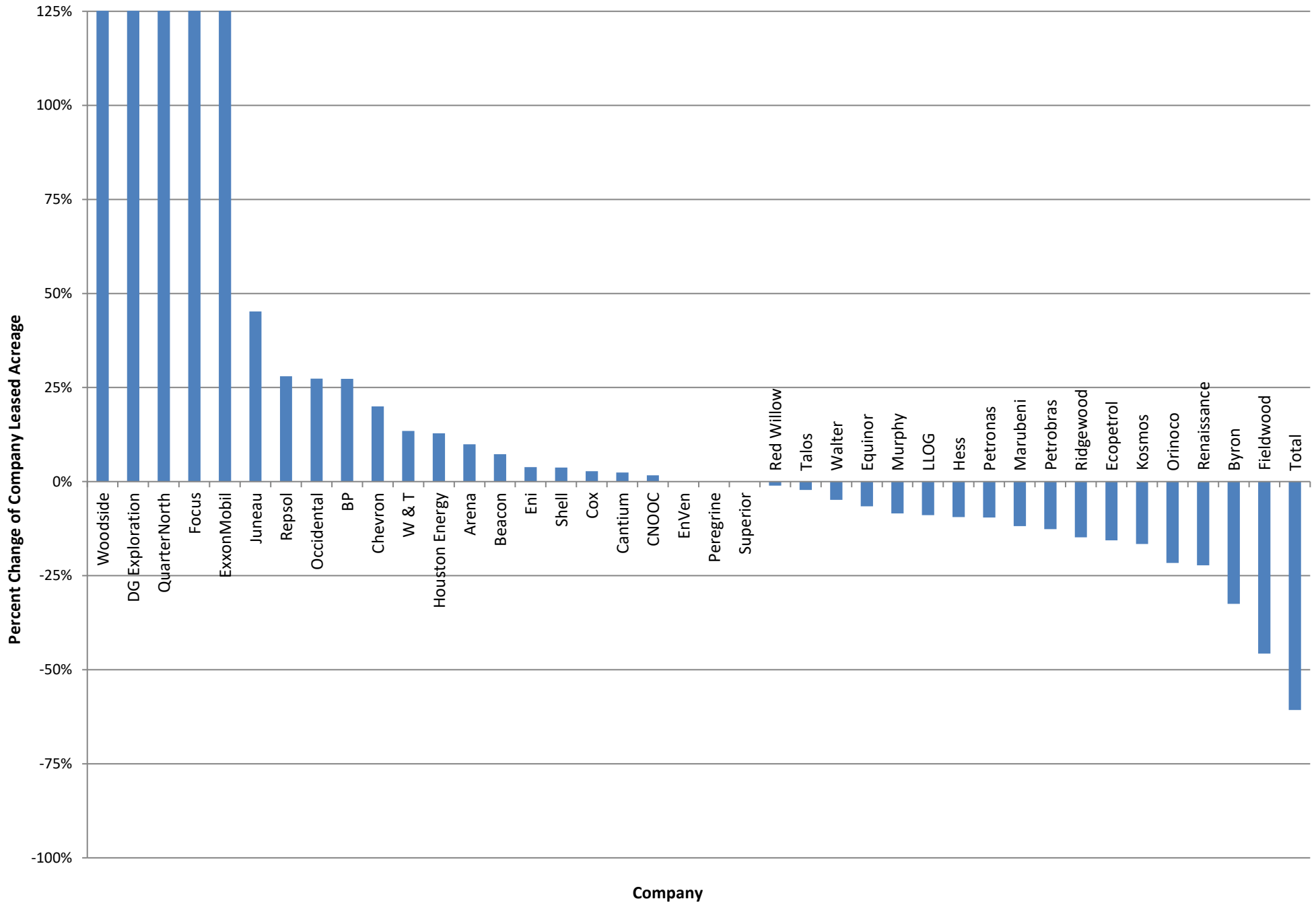
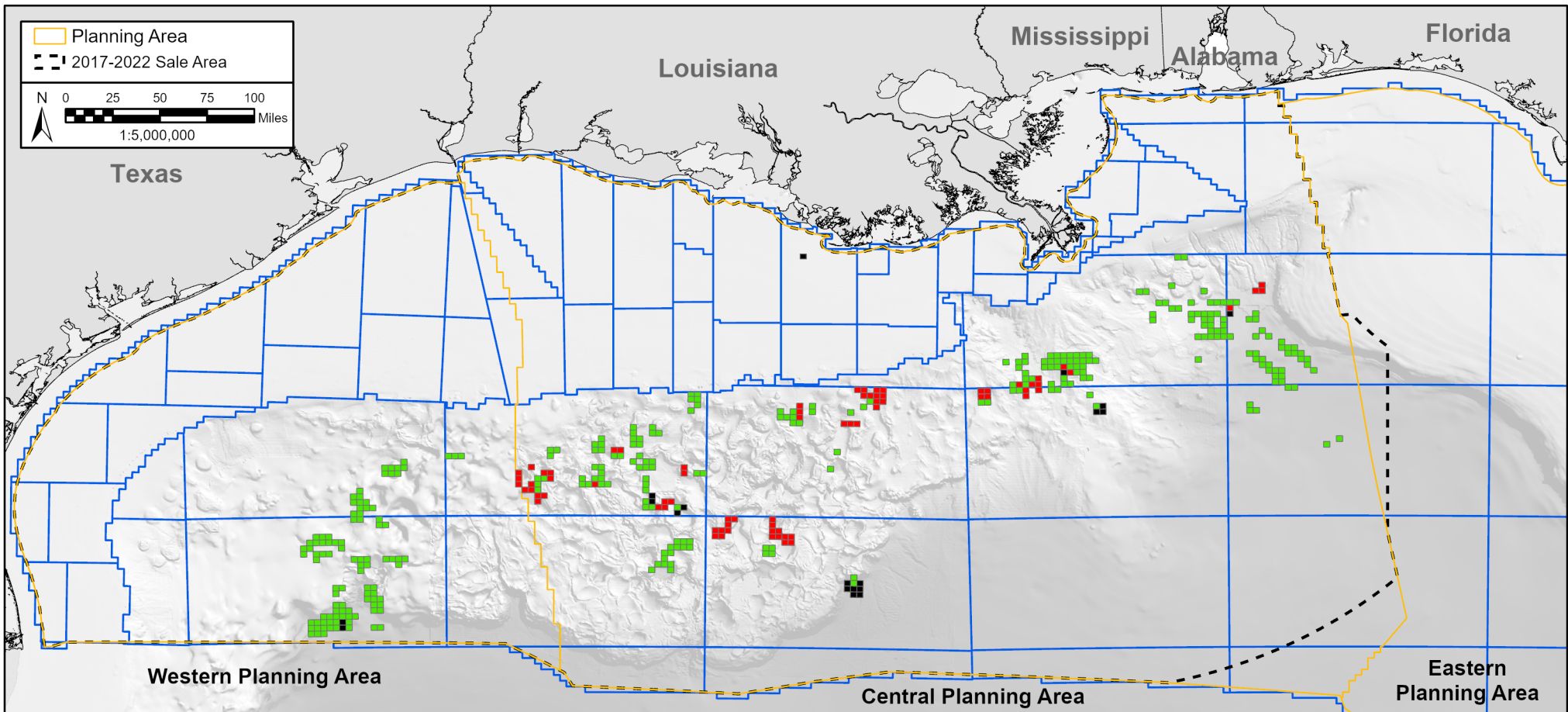
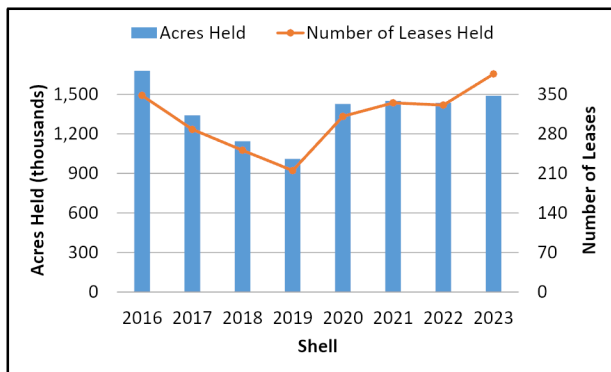


Figure 139. Bar graph of a company's leased acreage loss or gain (%) from 2022 to 2023



Shell Leased Acreage Comparison



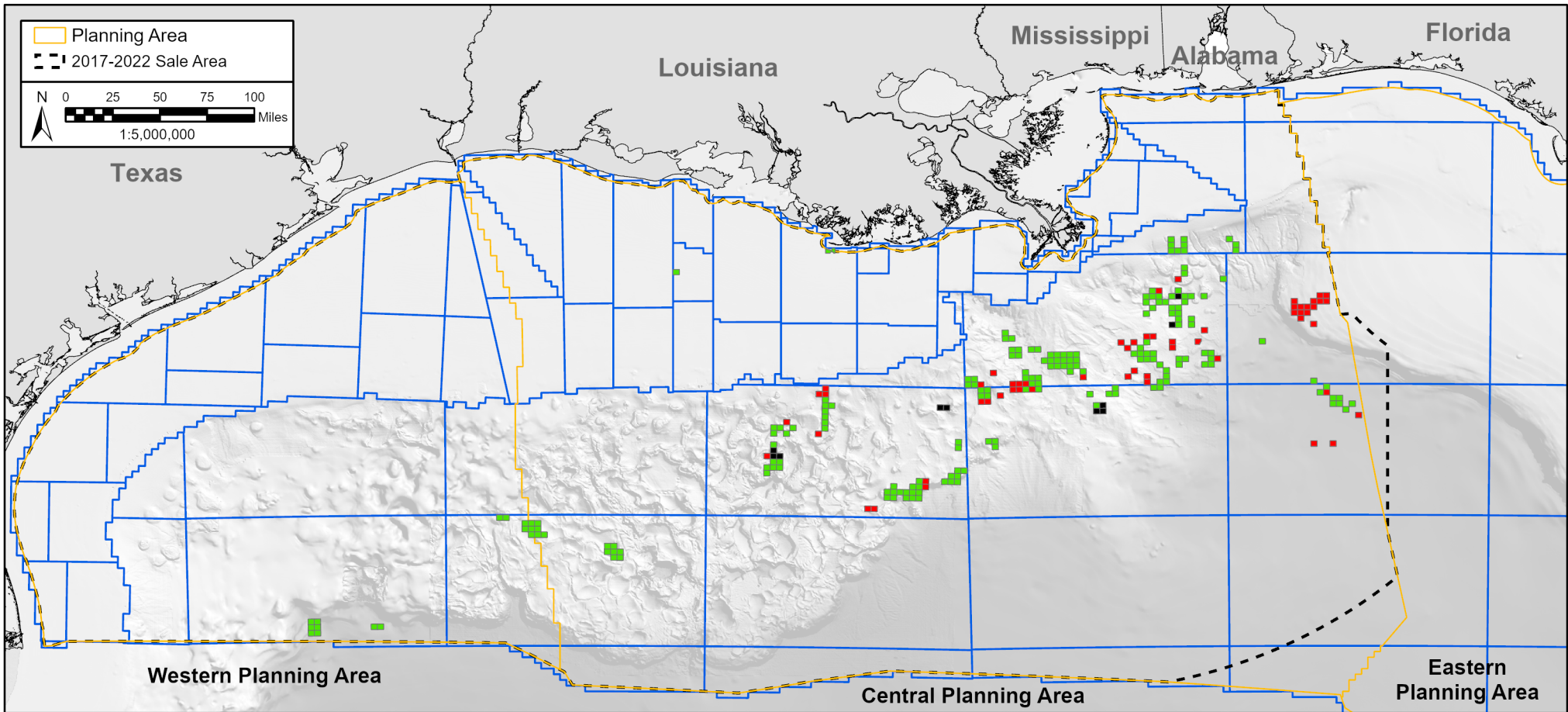
2022	2023
Rank: 1	Rank: 1
1,436,209 Acres Leased	1,489,845 Acres Leased
331 Active Leases	386 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

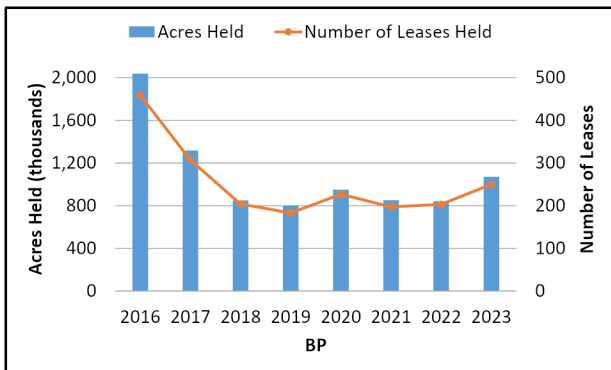
Ownership Change

- Decrease (19)
- No change (312)
- Increase (74)

Figure 142. Rank 1 - Shell leased acreage comparison between 2022 and 2023



BP Leased Acreage Comparison

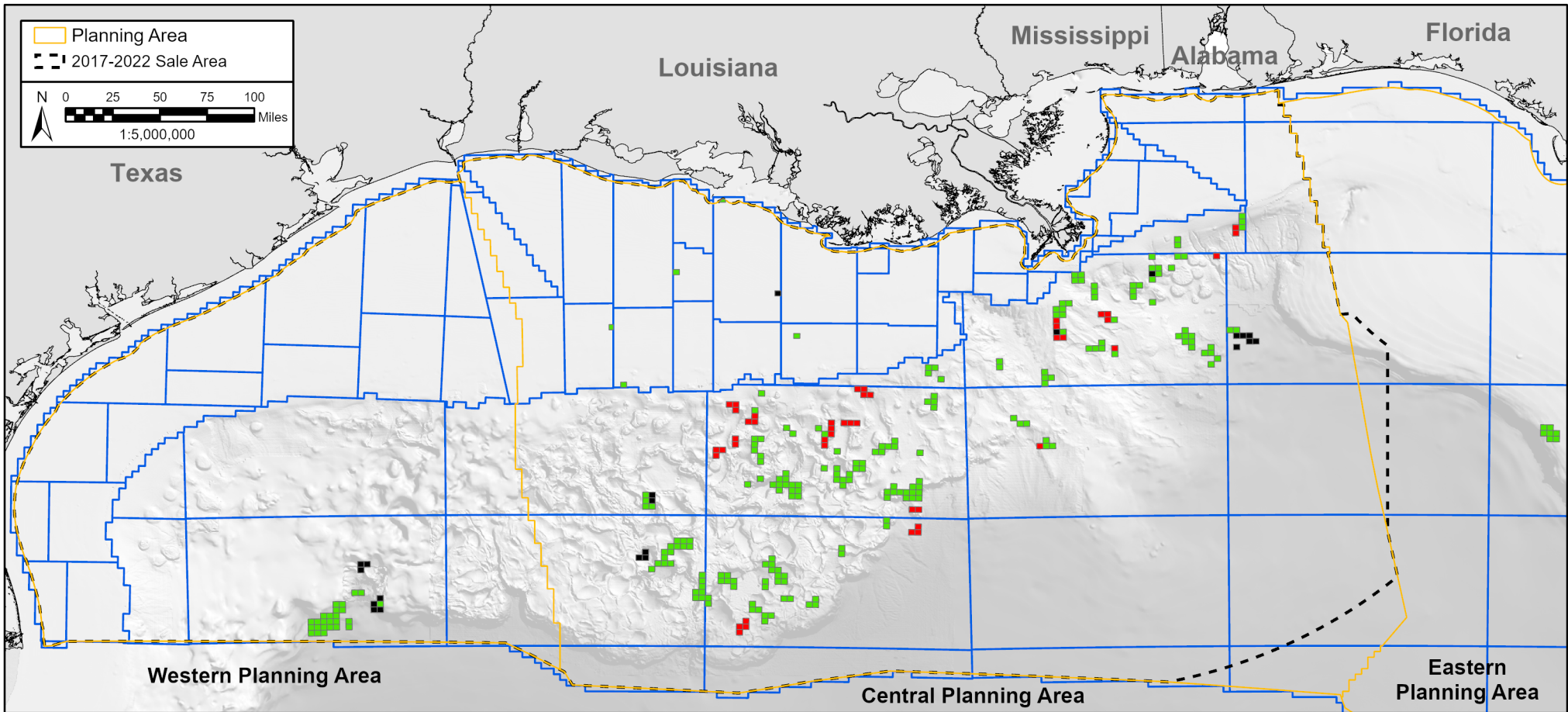


2022	2023
Rank: 2	Rank: 2
841,902 Acres Leased	1,072,020 Acres Leased
203 Active Leases	250 Active Leases

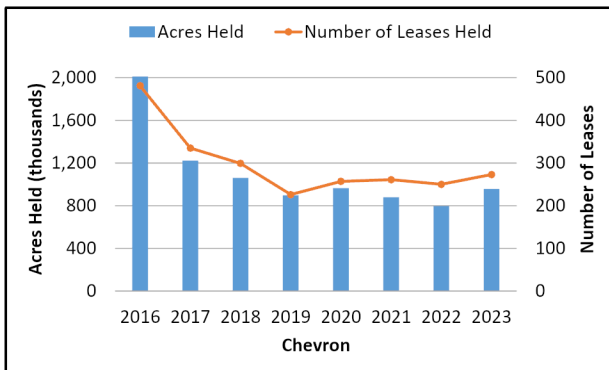
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change	Count
Decrease	10
No change	193
Increase	57

Figure 145. Rank 2 - BP leased acreage comparison between 2022 and 2023



Chevron Leased Acreage Comparison



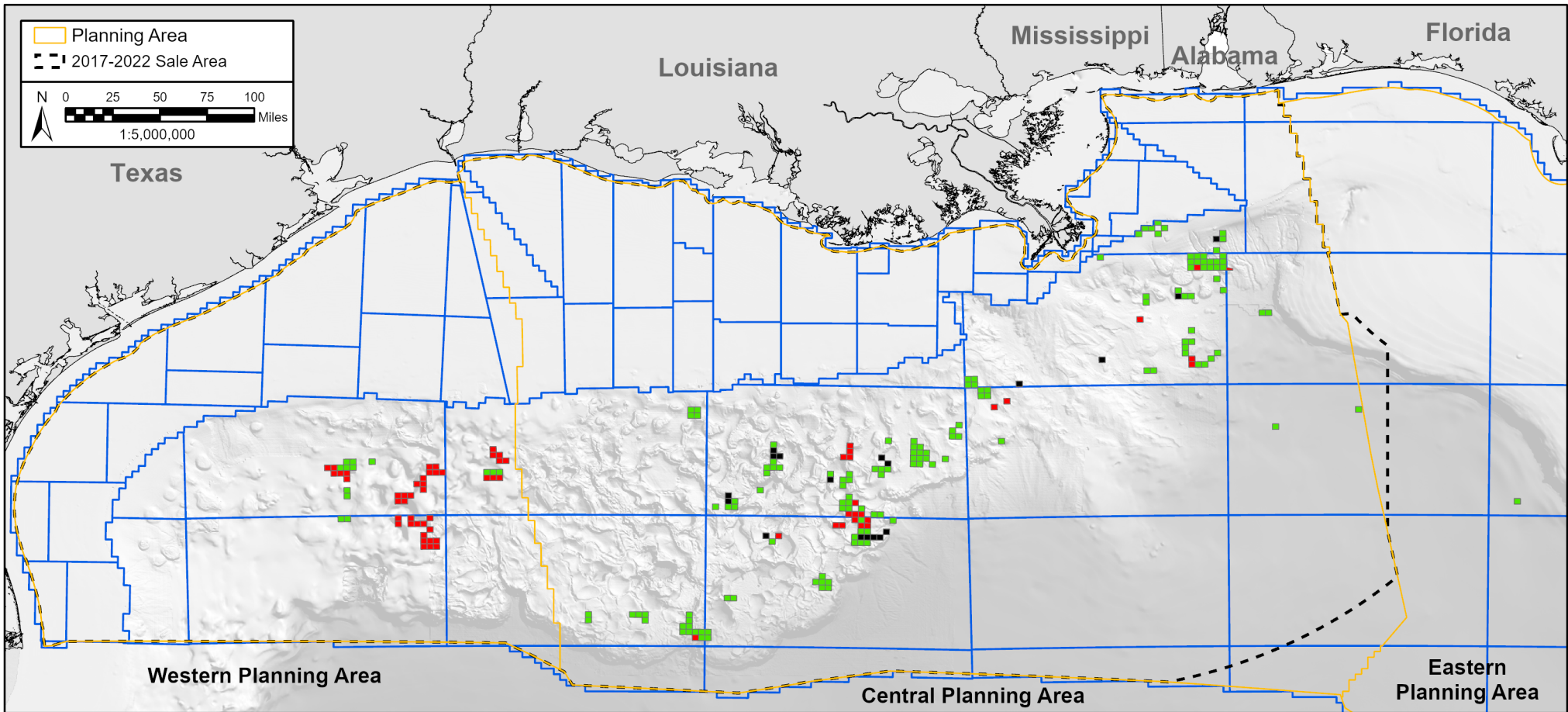
2022	2023
Rank: 3	Rank: 3
797,526 Acres Leased	957,168 Acres Leased
250 Active Leases	273 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

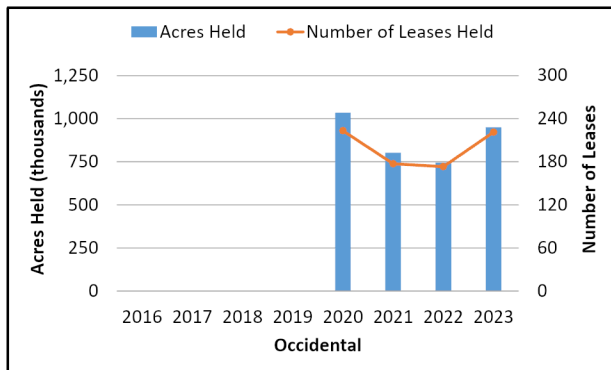
Ownership Change

- Decrease (21)
- No change (229)
- Increase (44)

Figure 148. Rank 3 - Chevron leased acreage comparison between 2022 and 2023



Occidental Leased Acreage Comparison

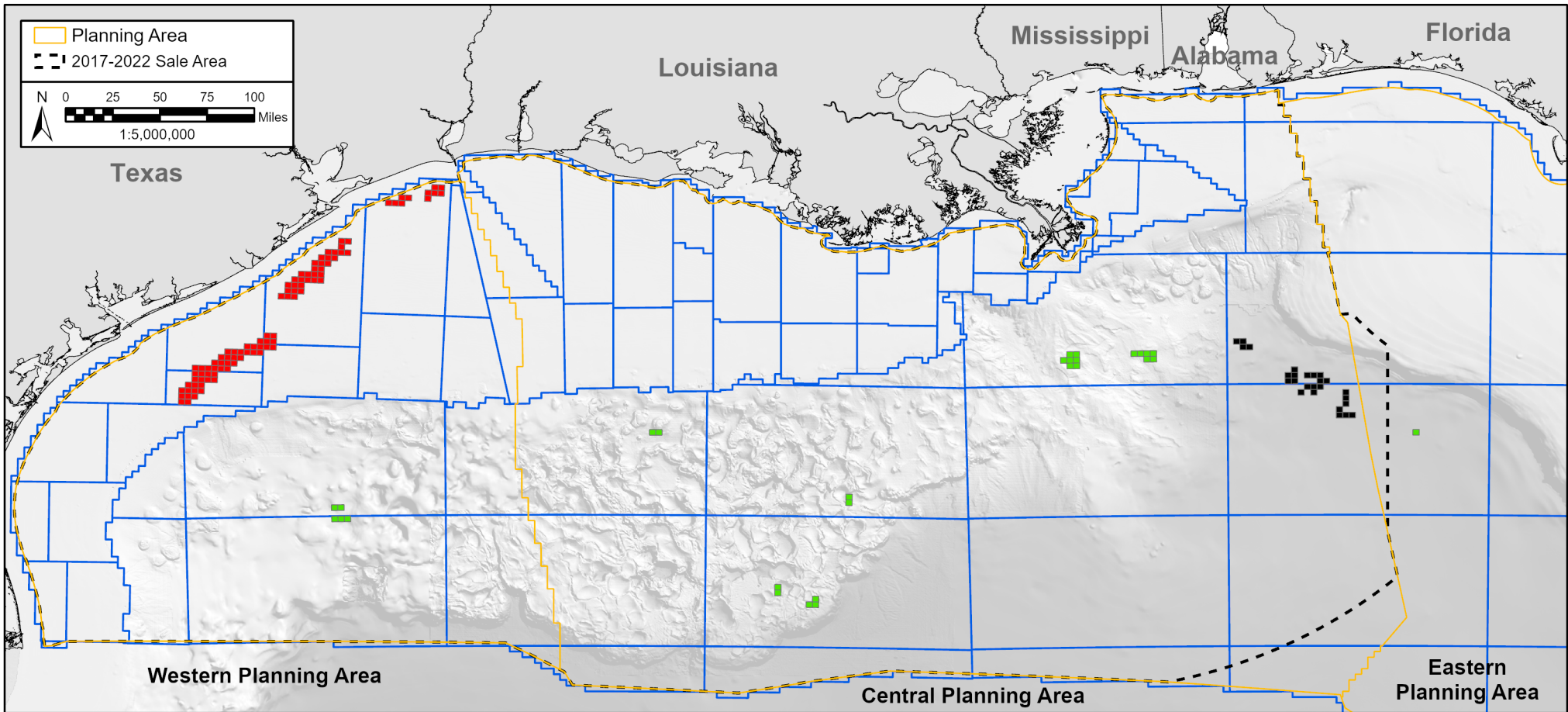


2022	2023
Rank: 4	Rank: 4
745,866 Acres Leased	949,872 Acres Leased
173 Active Leases	221 Active Leases

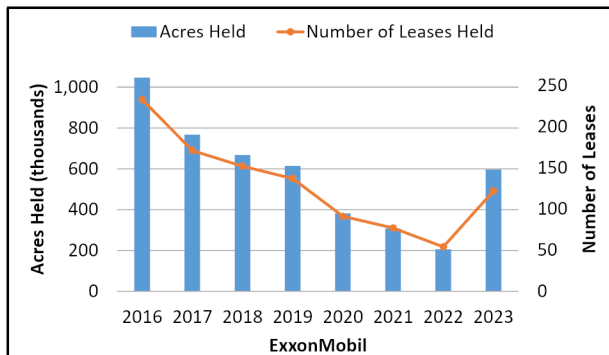
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change	Count
Decrease	18
No change	155
Increase	66

Figure 151. Rank 4 - Occidental leased acreage comparison between 2022 and 2023



ExxonMobil Leased Acreage Comparison

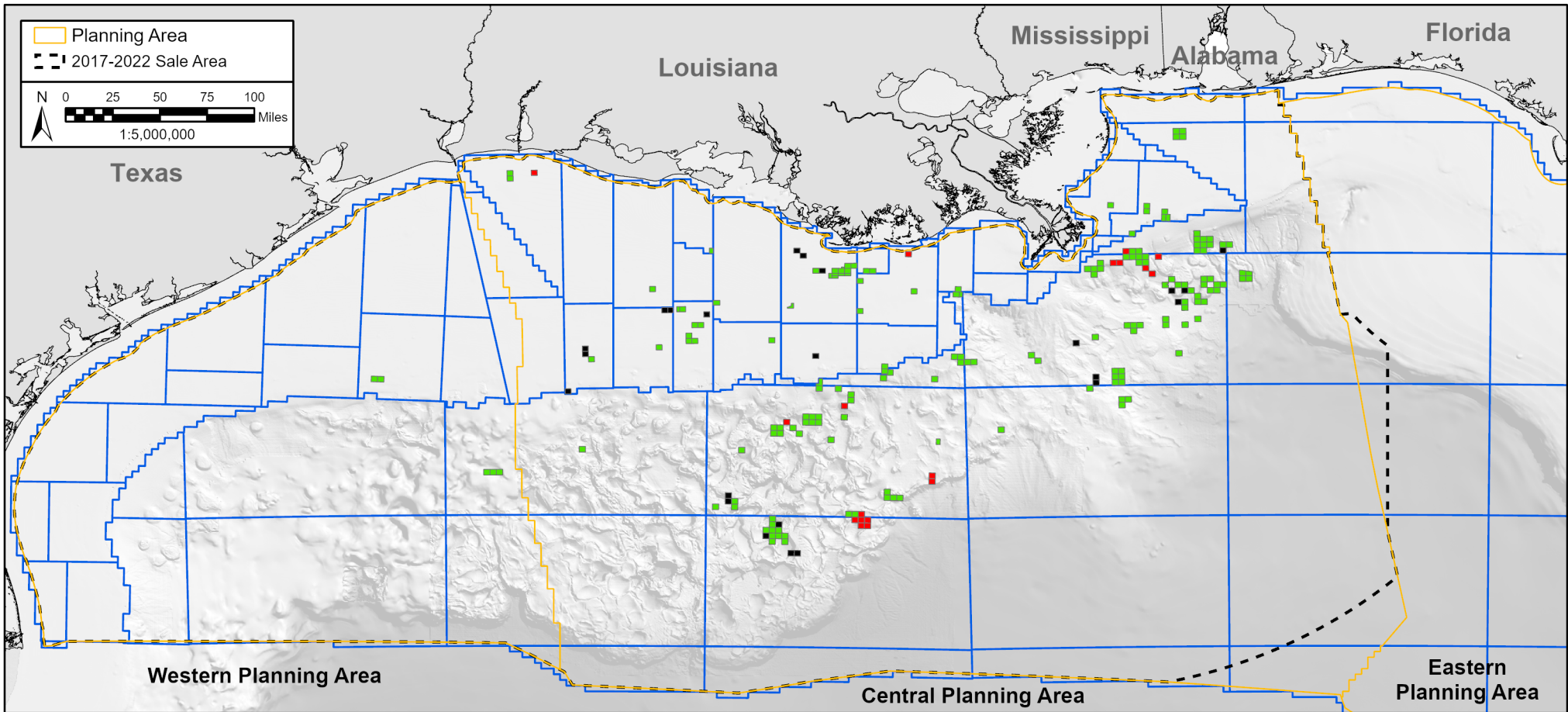


2022	2023
Rank: 17	Rank: 5
205,203 Acres Leased	596,883 Acres Leased
54 Active Leases	122 Active Leases

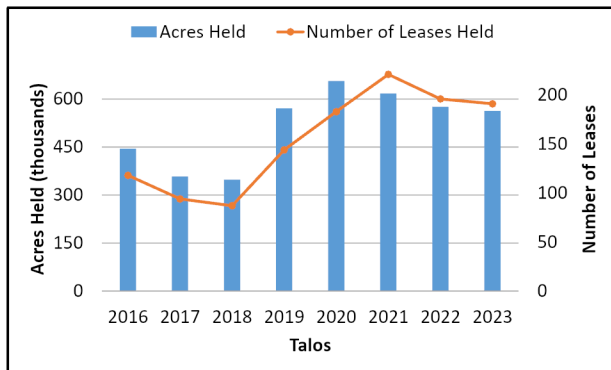
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change
Decrease (26)
No change (28)
Increase (94)

Figure 154. Rank 5 - Exxon leased acreage comparison between 2022 and 2023



Talos Leased Acreage Comparison



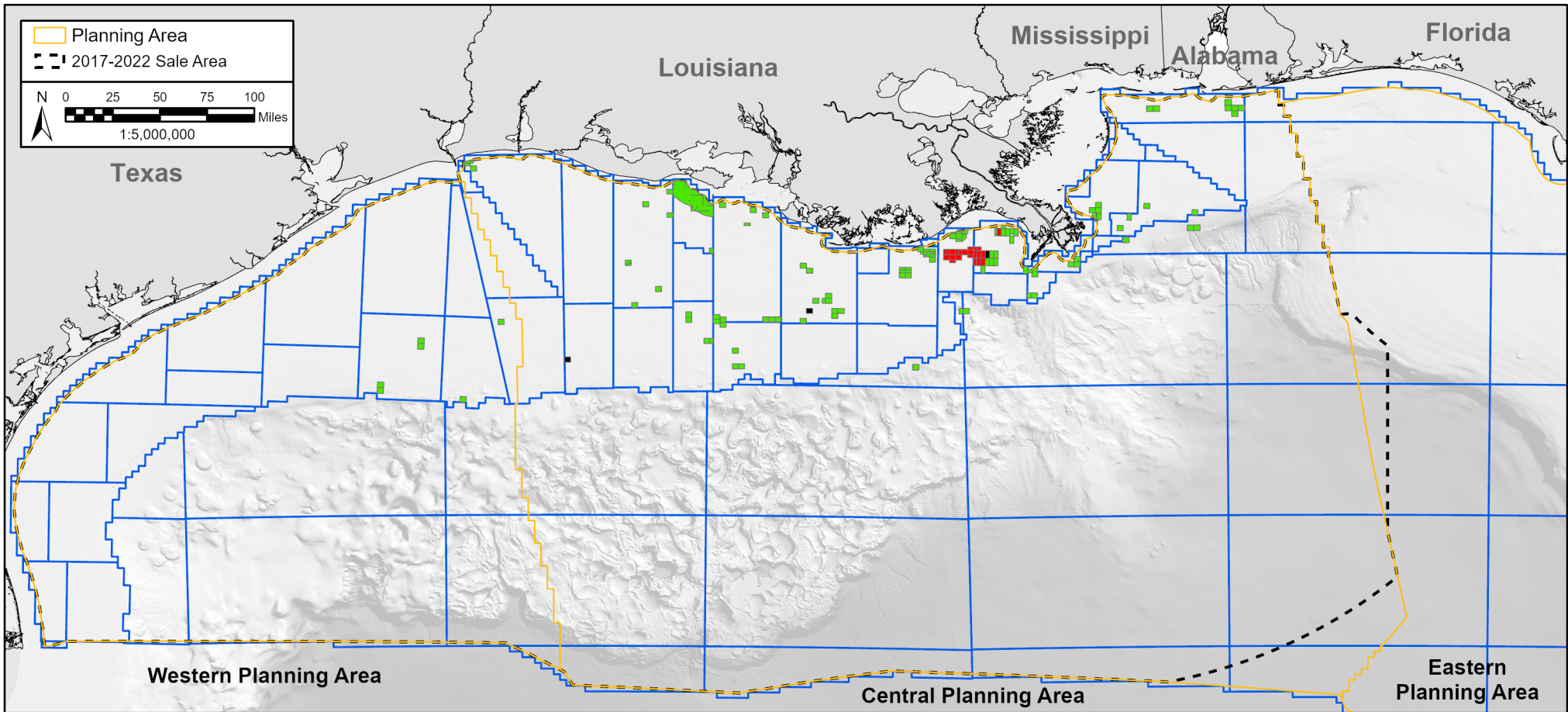
2022	2023
Rank: 6	Rank: 6
575,588 Acres Leased	562,944 Acres Leased
196 Active Leases	191 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

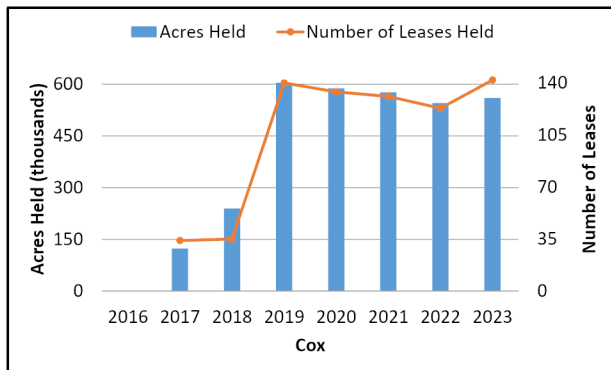
Ownership Change

- Decrease (23)
- No change (173)
- Increase (18)

Figure 157. Rank 6 - Talos leased acreage comparison between 2022 and 2023



Cox Leased Acreage Comparison



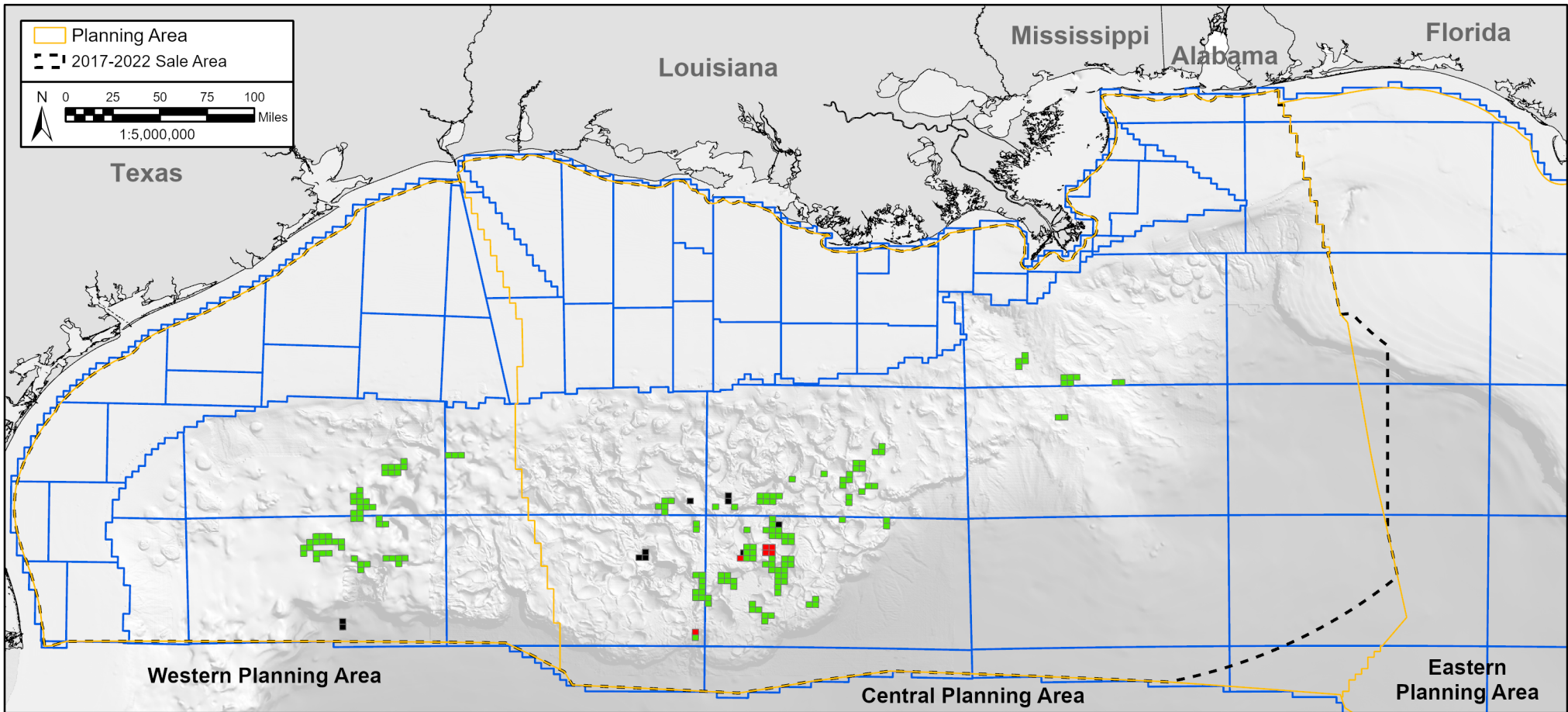
2022	2023
Rank: 7	Rank: 7
545,391 Acres Leased	560,398 Acres Leased
123 Active Leases	142 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

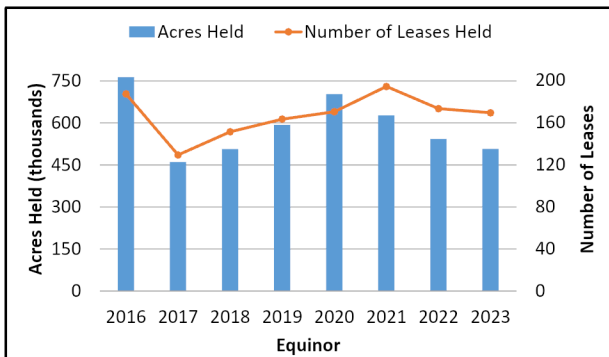
Ownership Change

- Decrease (3)
- No change (120)
- Increase (22)

Figure 160. Rank 7 - Cox leased acreage comparison between 2022 and 2023



Equinor Leased Acreage Comparison

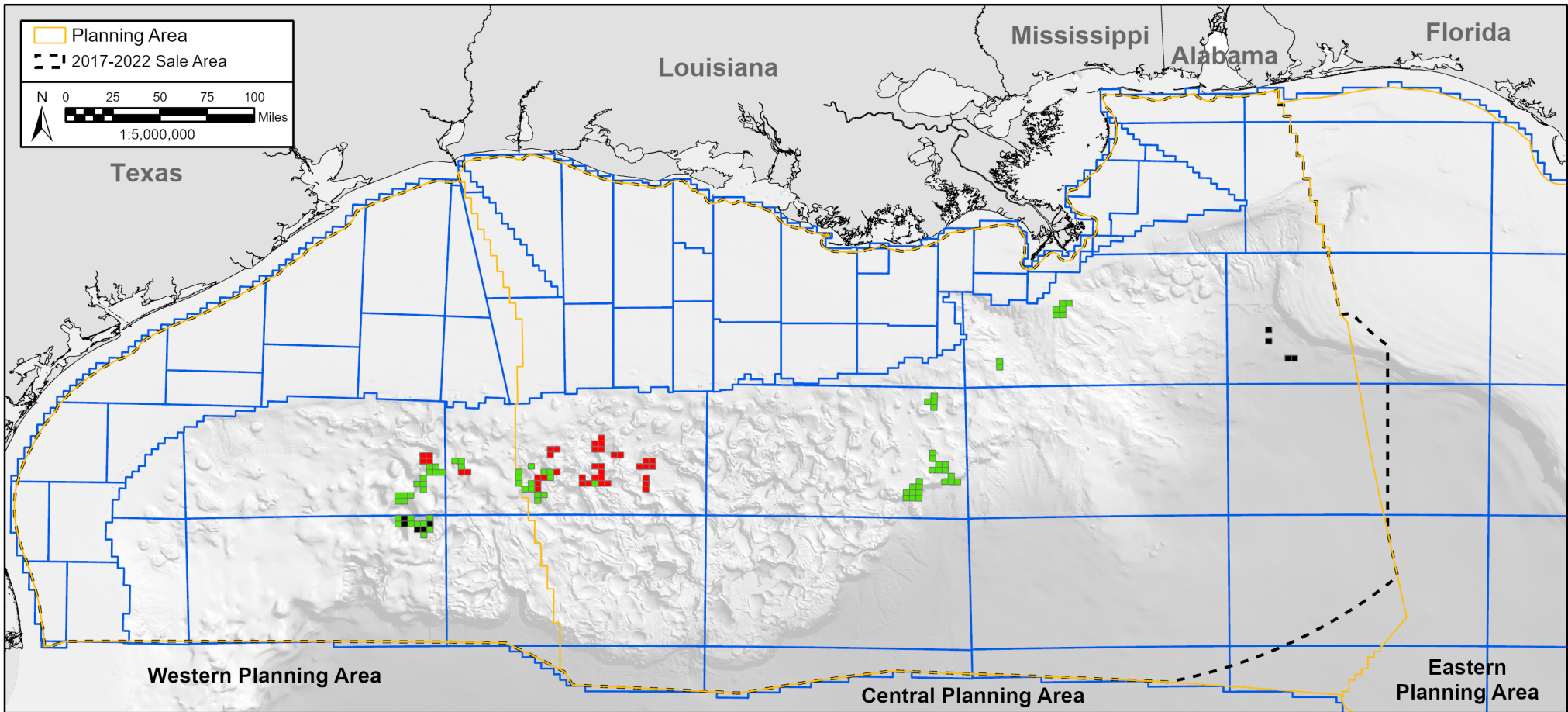


2022	2023
Rank: 8	Rank: 8
542,884 Acres Leased	507,133 Acres Leased
173 Active Leases	169 Active Leases

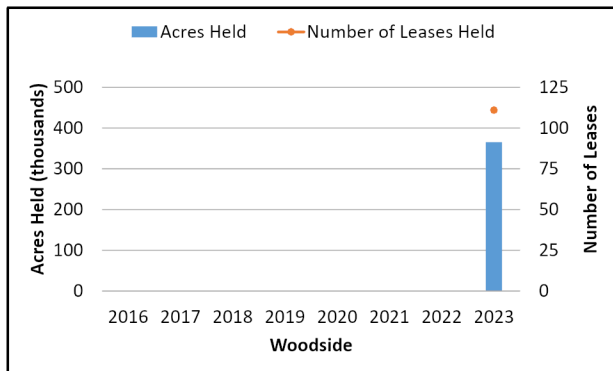
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change	Count
Decrease	10
No change	163
Increase	6

Figure 163. Rank 8 - Equinor leased acreage comparison between 2022 and 2023



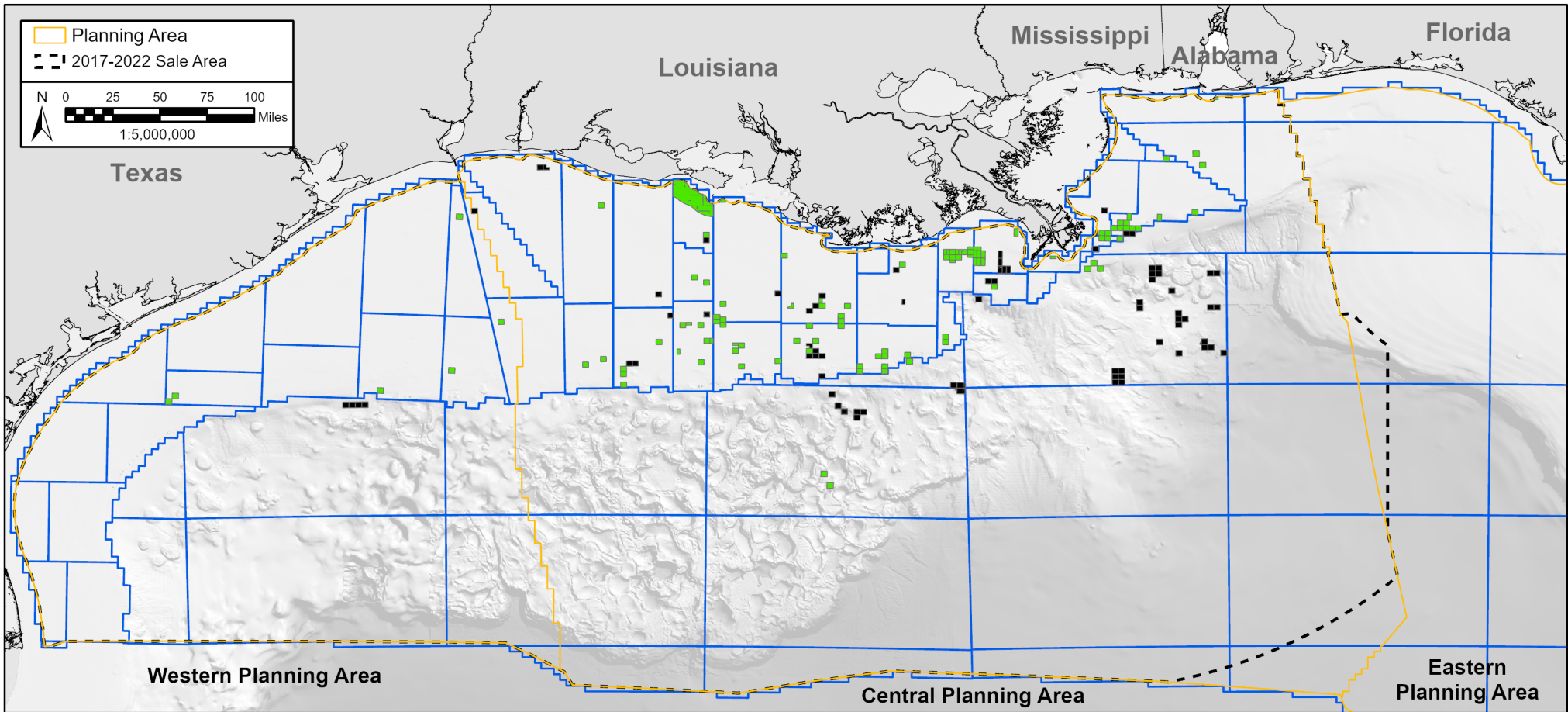
Woodside Leased Acreage Comparison



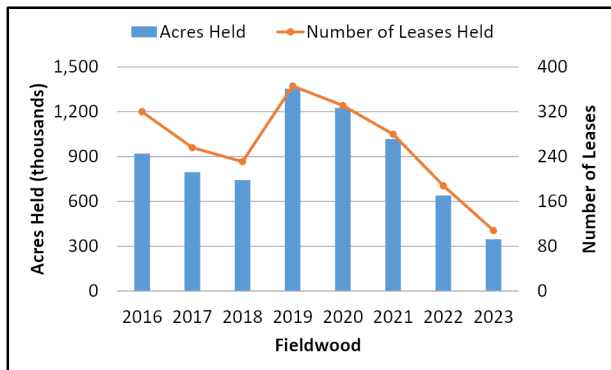
<u>2022 (BHP)</u>	<u>2023</u>
Rank: 9	Rank: 9
368,127 Acres Leased	365,247 Acres Leased
81 Active Leases	111 Active Leases
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.	
Company Notes: (1) On June 1, 2022, BHP's oil and gas portfolio merged with Woodside Energy. For comparison purposes, BHP lease holdings are used in the map above.	

Ownership Change
Decrease (9)
No change (72)
Increase (39)

Figure 166. Rank 9 - Woodside leased acreage comparison between 2022 and 2023



Fieldwood Leased Acreage Comparison



2022	2023
Rank: 5	Rank: 10
639,562 Acres Leased	347,119 Acres Leased
188 Active Leases	108 Active Leases

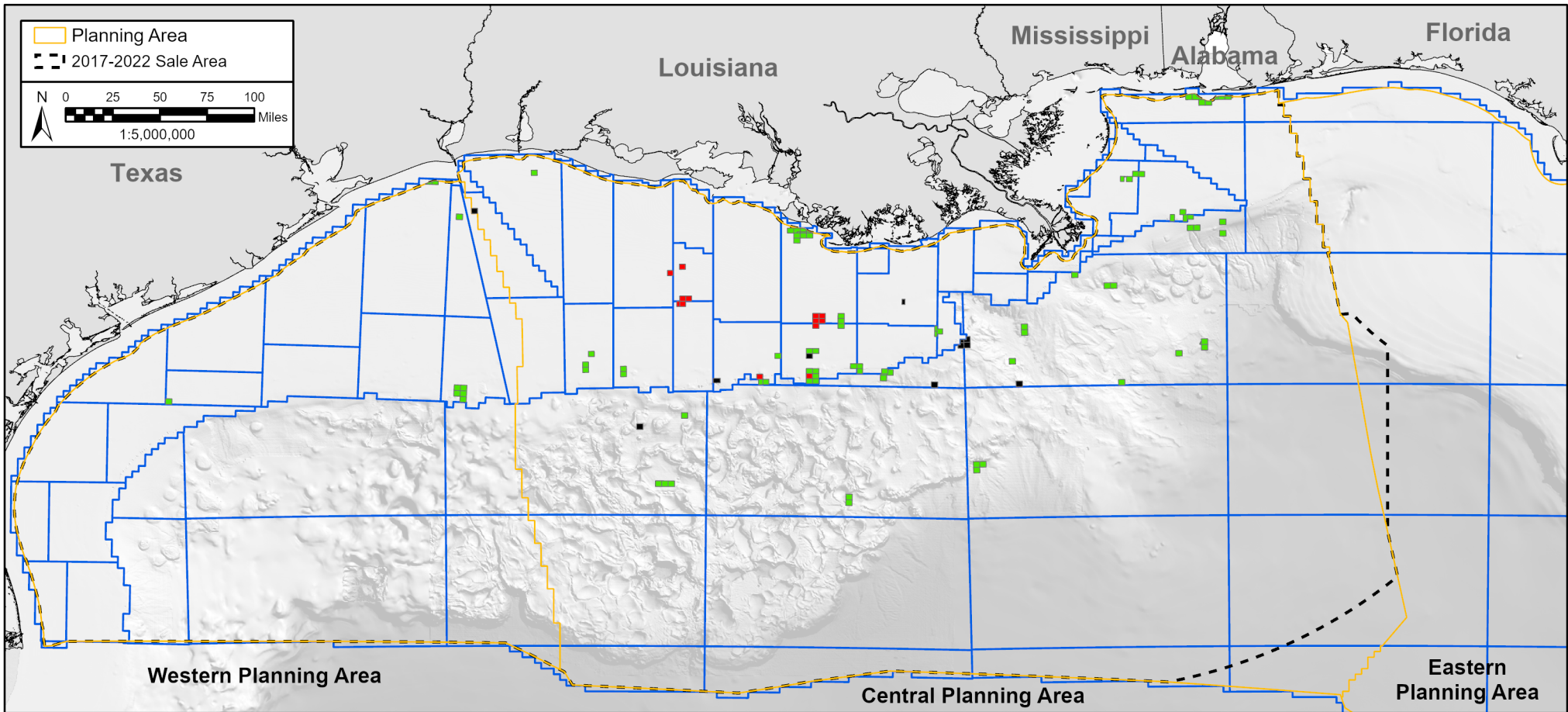
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Company Notes: (1) On August 4, 2020, Fieldwood announced that it filed for Chapter 11 bankruptcy. (2) On August 27, 2021, Fieldwood's Chapter 11 restructuring bankruptcy plan became effective. Fieldwood sold most of its deepwater assets and certain shallow water and other assets to special purpose entities created for the bankruptcy.

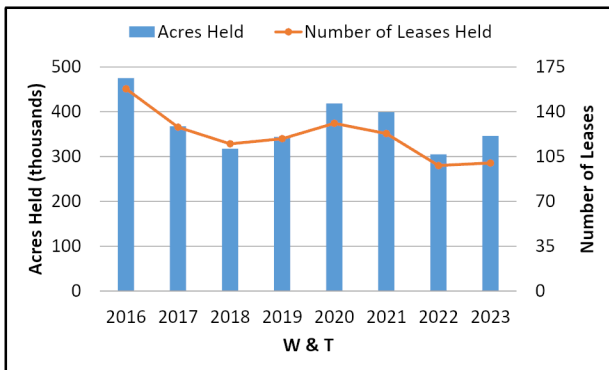
Ownership Change

- Decrease (80)
- No change (108)
- Increase (0)

Figure 169. Rank 10 - Fieldwood leased acreage comparison between 2022 and 2023



W & T Leased Acreage Comparison

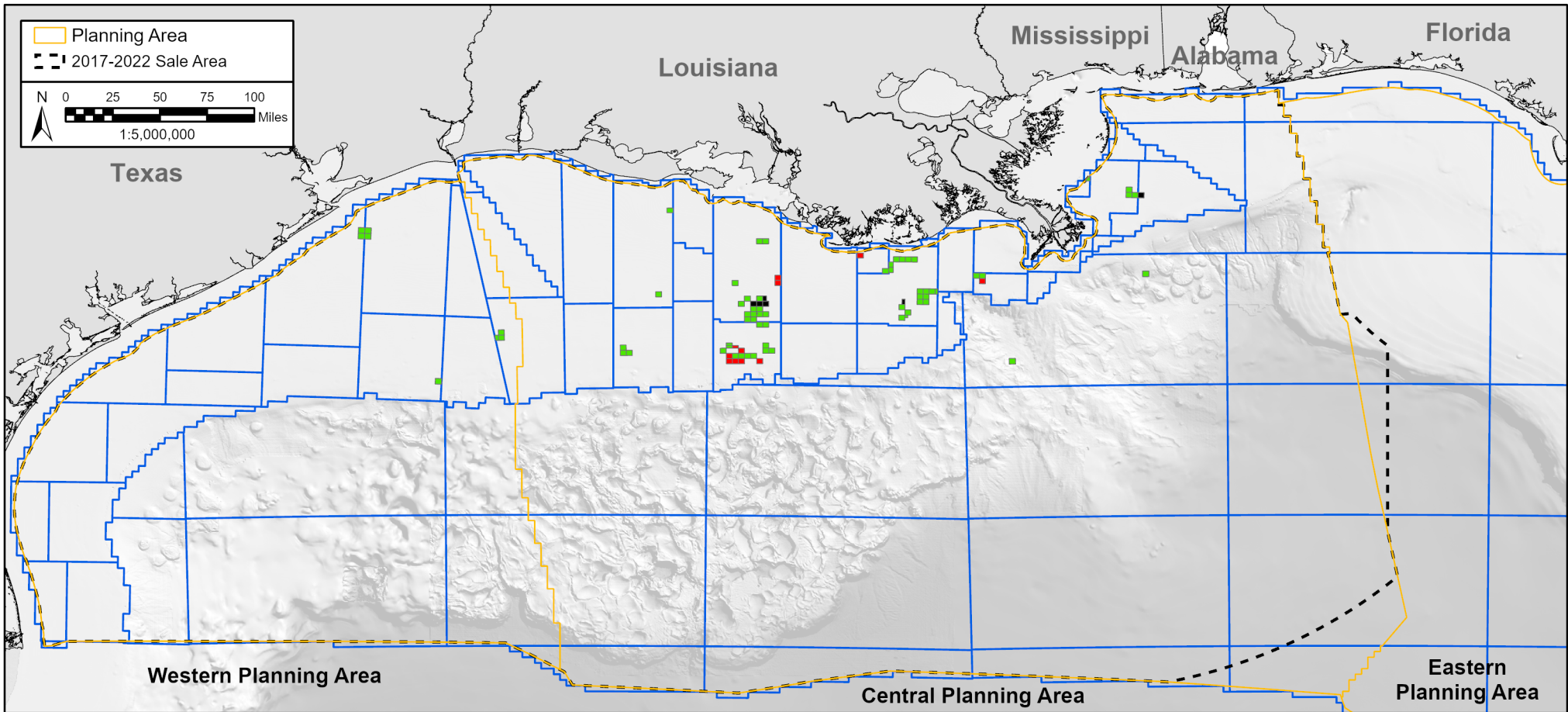


<u>2022</u>	<u>2023</u>
Rank: 15	Rank: 11
305,055 Acres Leased	346,122 Acres Leased
98 Active Leases	100 Active Leases
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.	

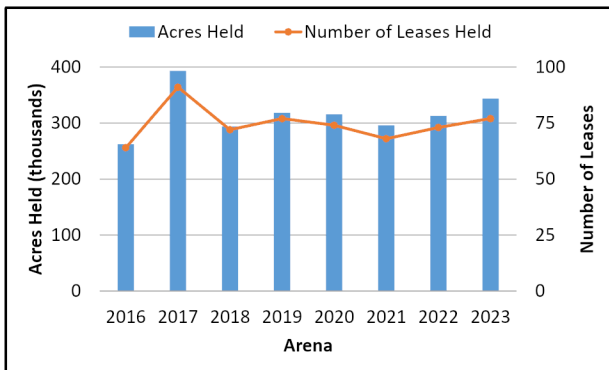
Ownership Change

- Decrease (11)
- No change (87)
- Increase (13)

Figure 172. Rank 11 – W & T leased acreage comparison between 2022 and 2023



Arena Leased Acreage Comparison

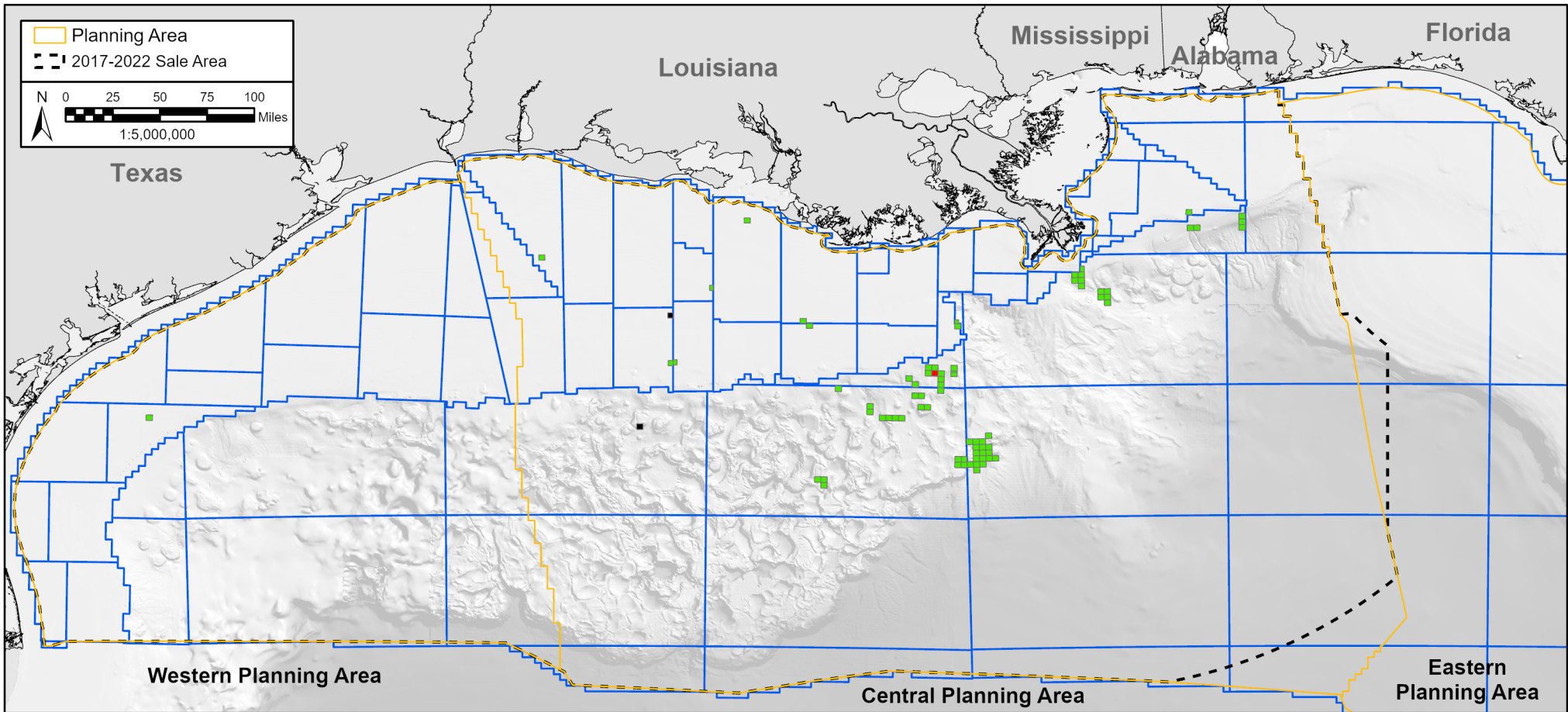


<u>2022</u>	<u>2023</u>
Rank: 13	Rank: 12
312,748 Acres Leased	343,679 Acres Leased
73 Active Leases	77 Active Leases
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.	

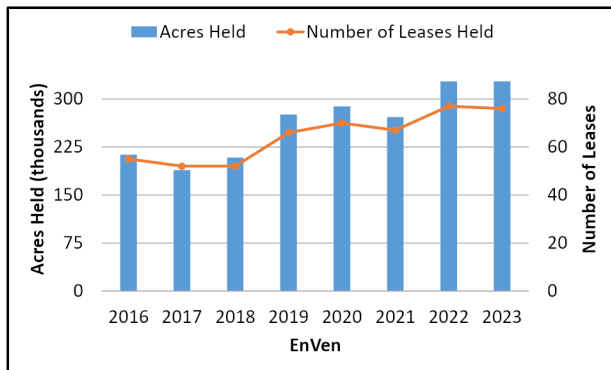
Ownership Change

- Decrease (7)
- No change (66)
- Increase (11)

Figure 175. Rank 12 - Arena leased acreage comparison between 2022 and 2023



EnVen Leased Acreage Comparison

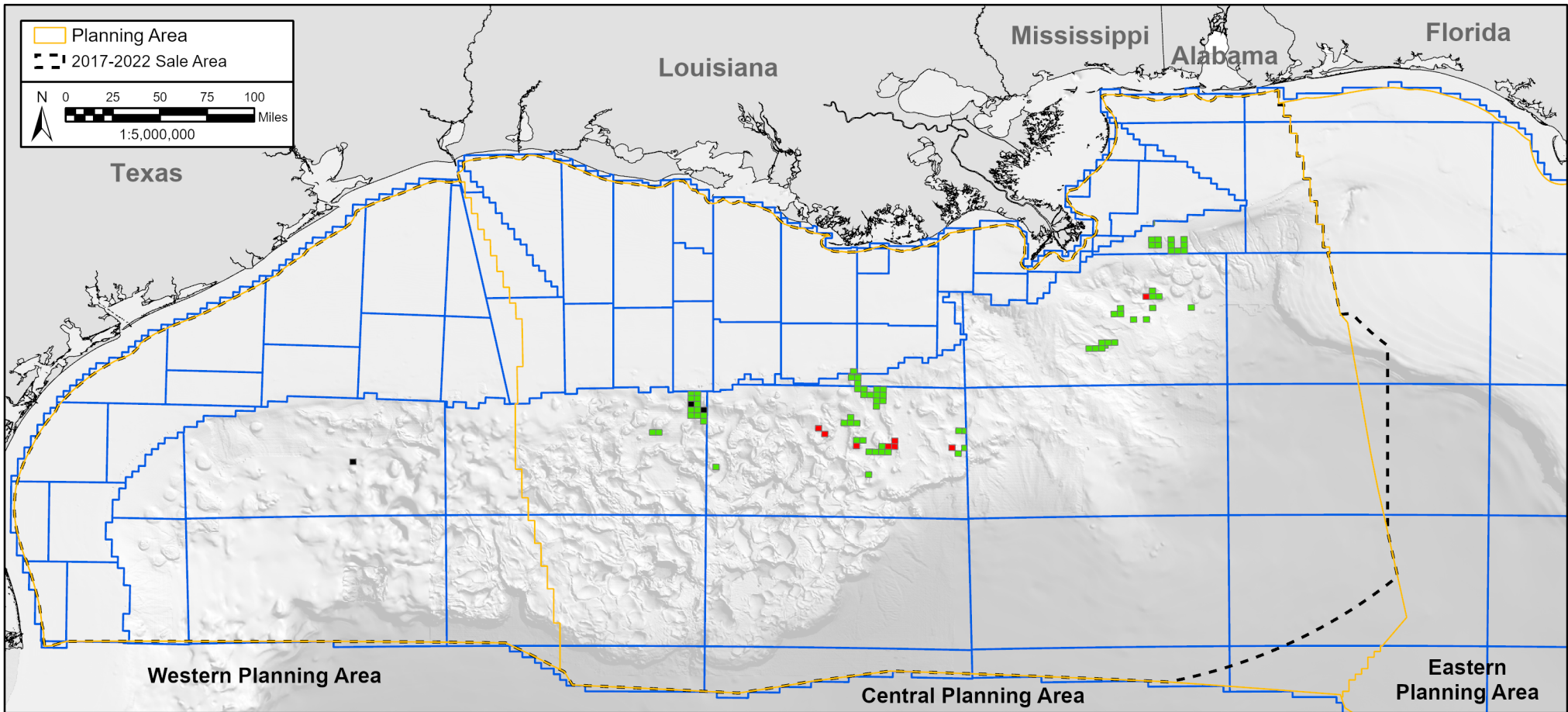


2022	2023
Rank: 11	Rank: 13
327,326 Acres Leased	327,757 Acres Leased
77 Active Leases	76 Active Leases
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.	

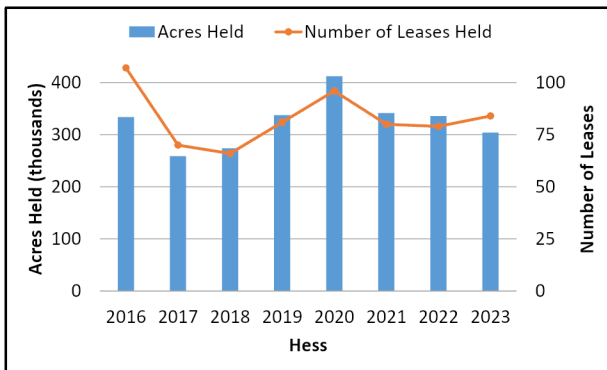
Ownership Change

- Decrease (2)
- No change (75)
- Increase (1)

Figure 178. Rank 13 - EnVen leased acreage comparison between 2022 and 2023



Hess Leased Acreage Comparison

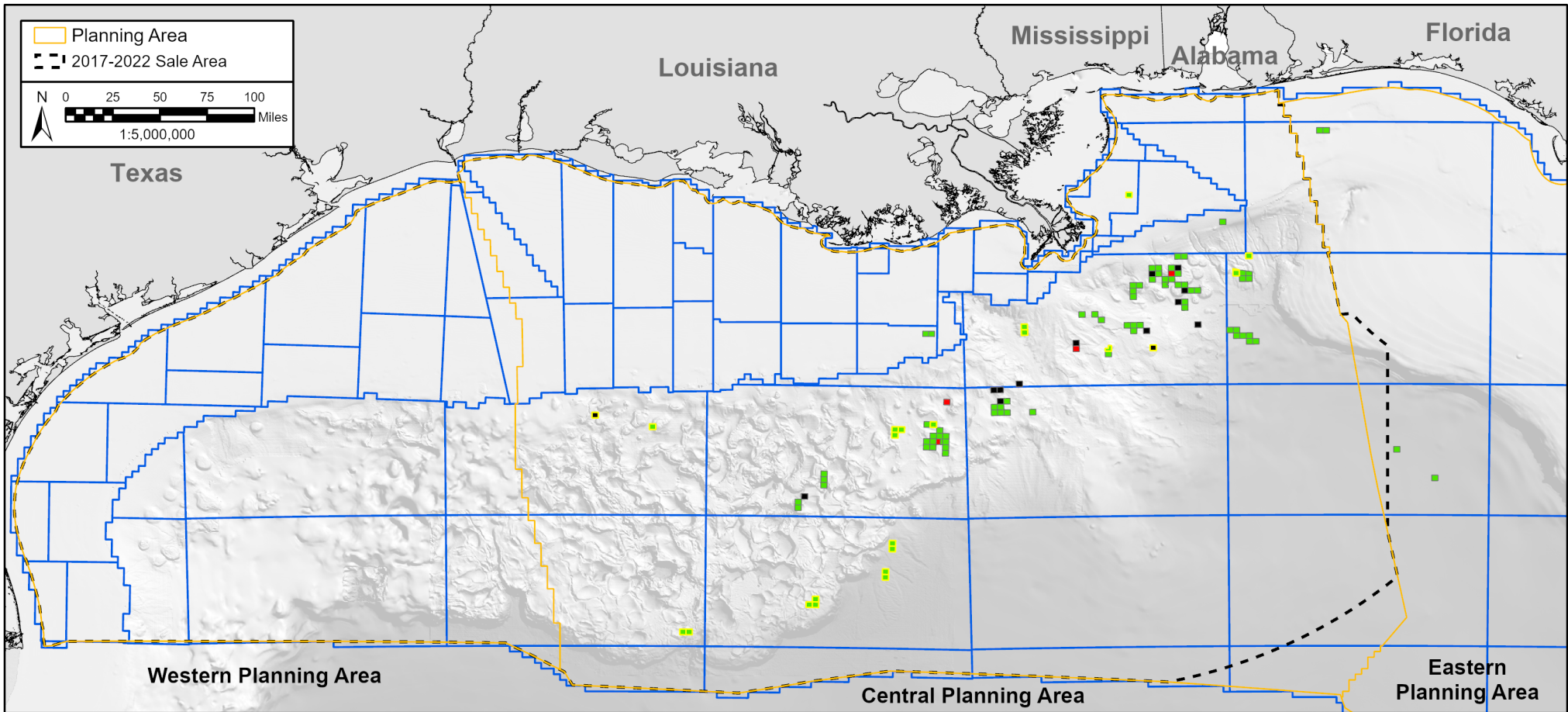


2022	2023
Rank: 10	Rank: 14
335,851 Acres Leased	304,171 Acres Leased
79 Active Leases	84 Active Leases

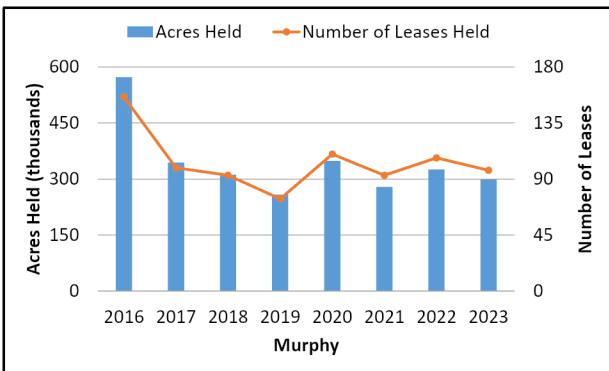
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change	Count
Decrease	3
No change	76
Increase	8

Figure 181. Rank 14 - Hess leased acreage comparison between 2022 and 2023



Murphy Leased Acreage Comparison



2022	2023
Rank: 12	Rank: 15
326,132 Acres Leased	298,606 Acres Leased
107 Active Leases	97 Active Leases

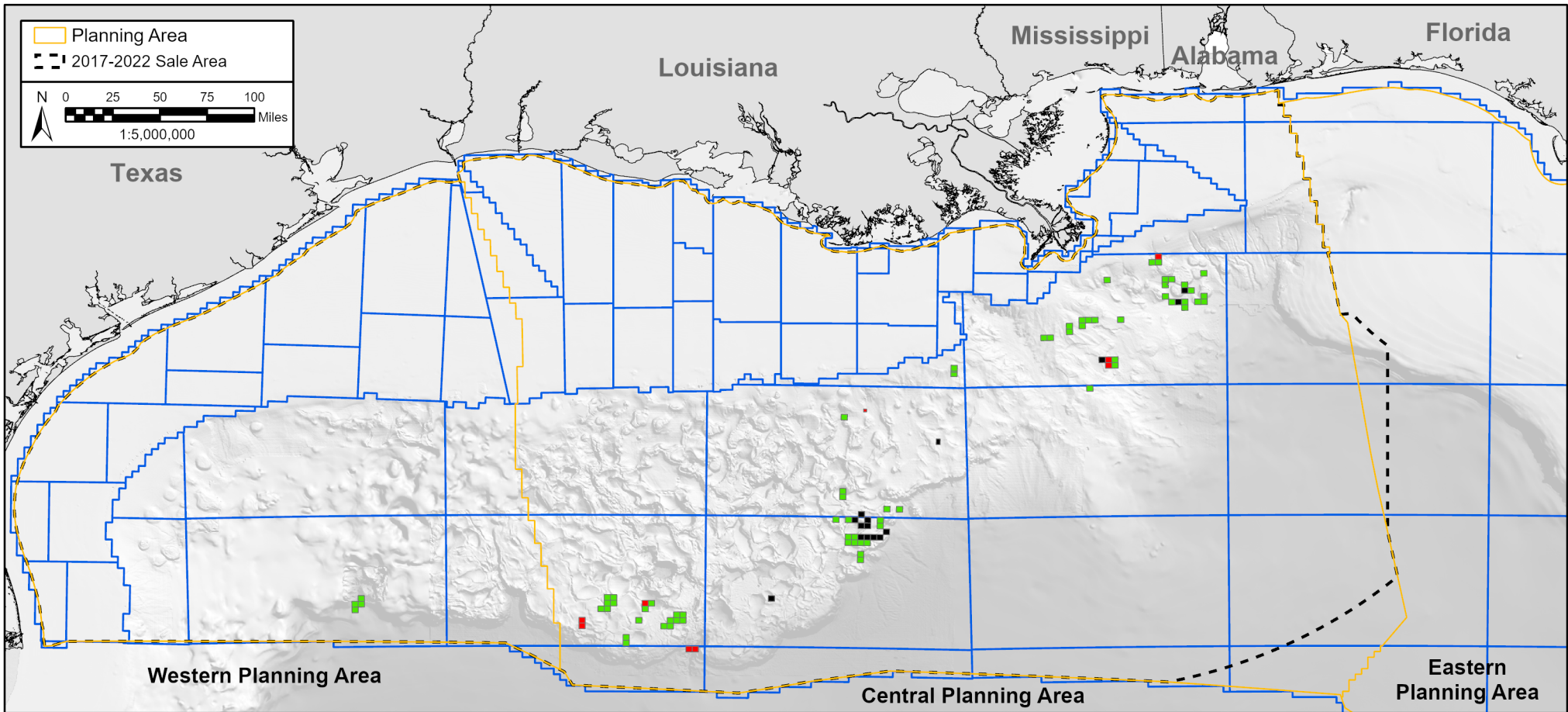
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Company Notes: (1) MP Gulf of Mexico is a joint venture between Murphy and Petrobras and is listed as a subsidiary of both companies. These leases are outlined in yellow.

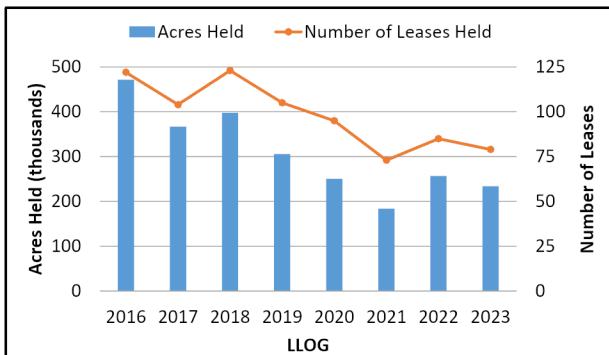
Ownership Change

- Decrease (14)
- No change (93)
- Increase (4)

Figure 184. Rank 15 - Murphy leased acreage comparison between 2022 and 2023



LLOG Leased Acreage Comparison

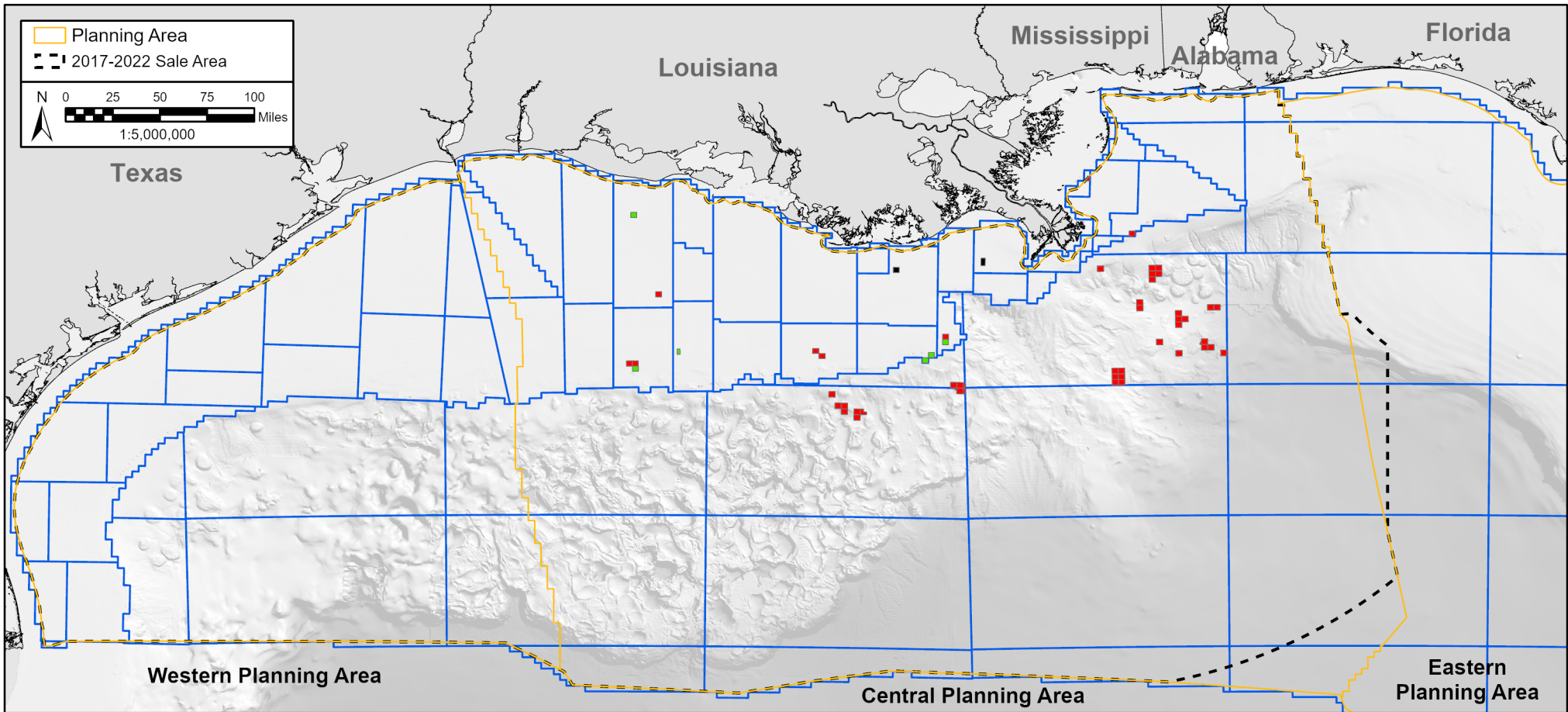


2022	2023
Rank: 16	Rank: 16
257,013 Acres Leased	234,178 Acres Leased
85 Active Leases	79 Active Leases

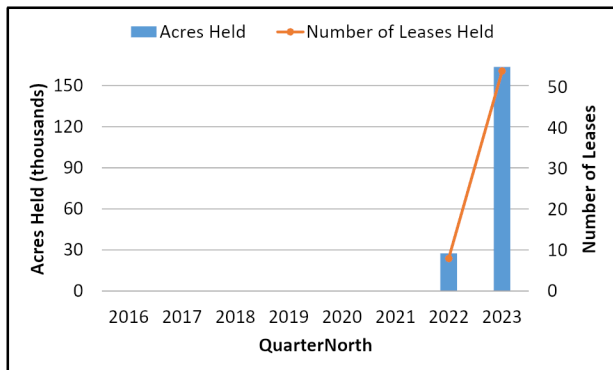
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change	Count
Decrease	15
No change	70
Increase	9

Figure 187. Rank 16 - LLOG leased acreage comparison between 2022 and 2023



QuarterNorth Leased Acreage Comparison



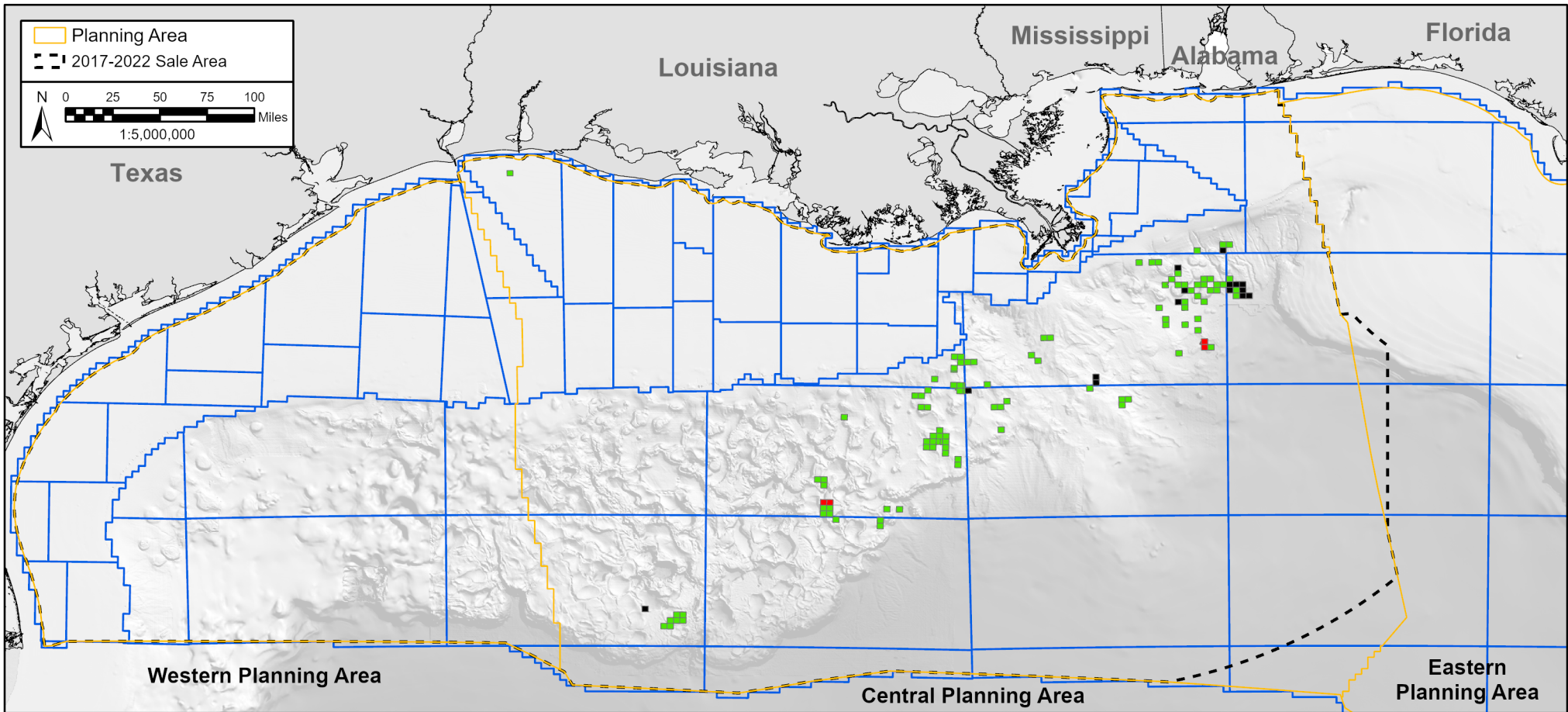
2022	2023
Rank: 36	Rank: 17
27,500 Acres Leased	166,236 Acres Leased
8 Active Leases	54 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

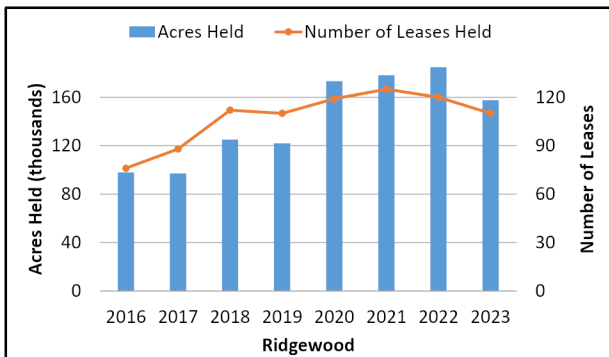
Ownership Change

Decrease (2)
No change (6)
Increase (48)

Figure 190. Rank 17 - QuarterNorth leased acreage comparison between 2022 and 2023



Ridgewood Leased Acreage Comparison



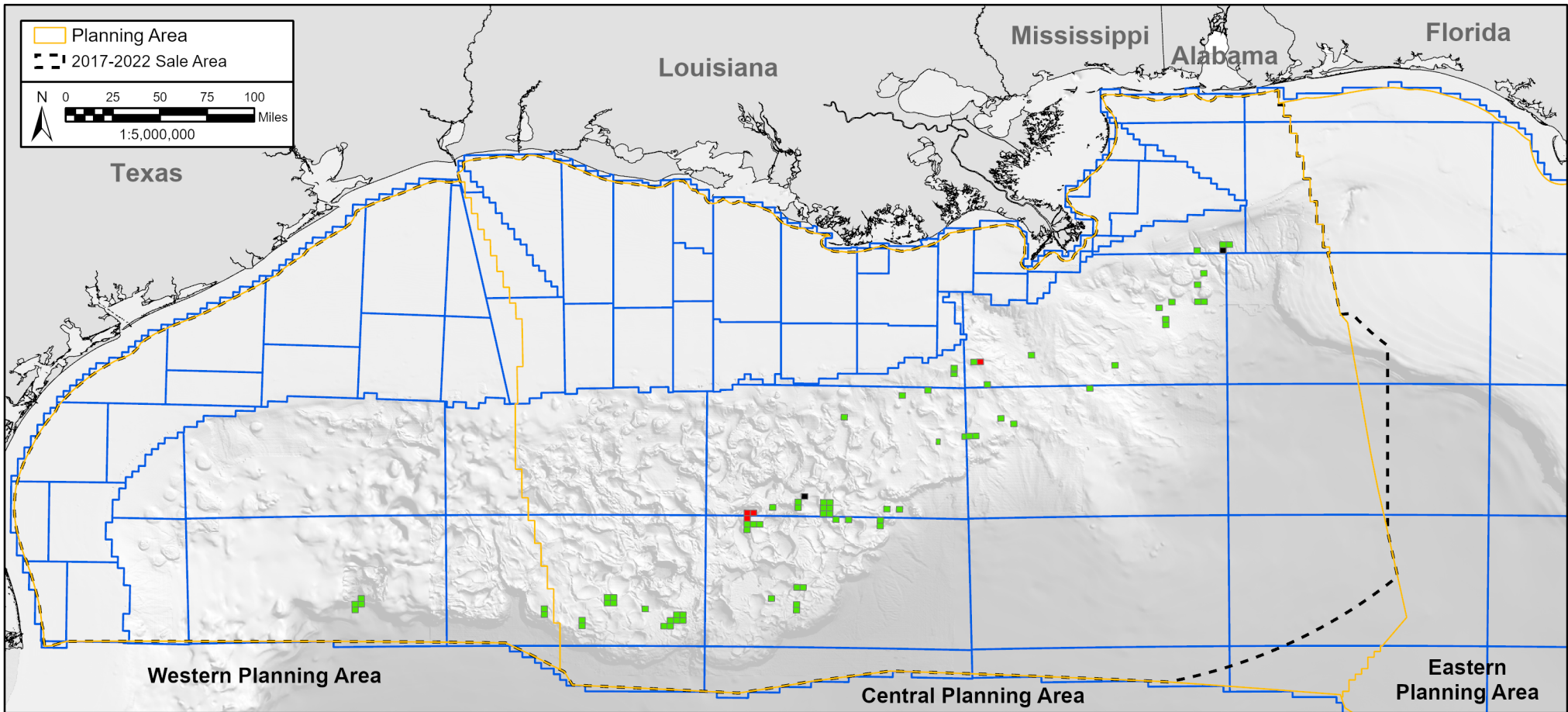
2022	2023
Rank: 18	Rank: 18
184,903 Acres Leased	157,556 Acres Leased
120 Active Leases	110 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

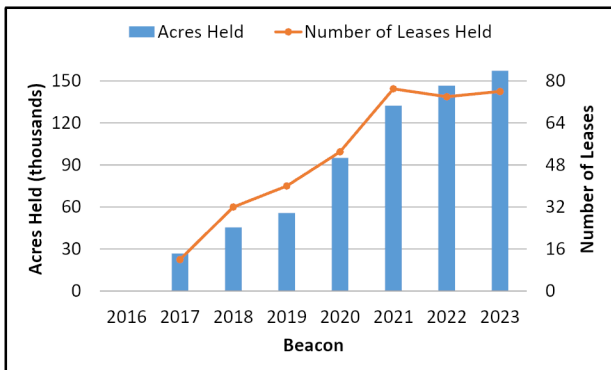
Ownership Change

- Decrease (15)
- No change (105)
- Increase (5)

Figure 193. Rank 18 - Ridgewood leased acreage comparison between 2022 and 2023



Beacon Leased Acreage Comparison

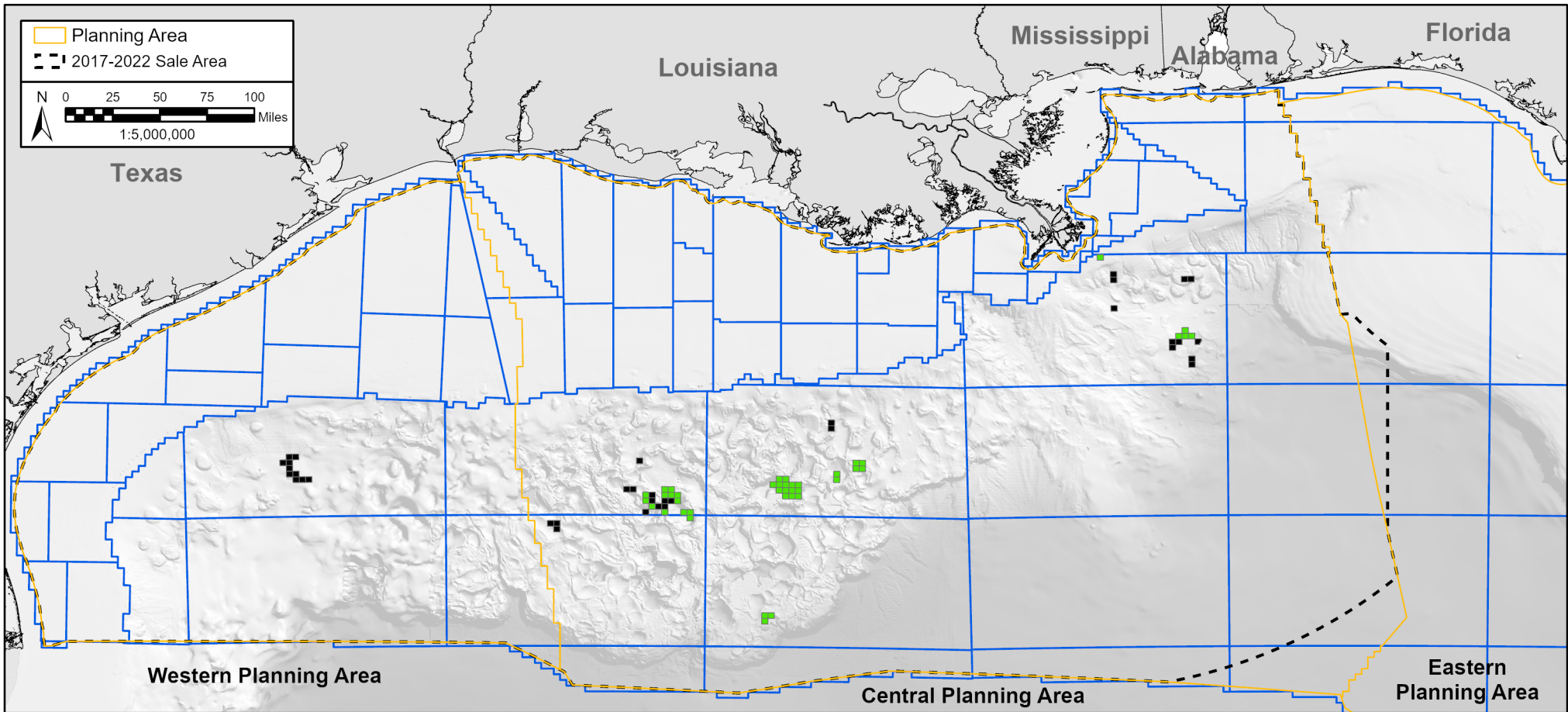


2022	2023
Rank: 19	Rank: 19
146,683 Acres Leased	157,360 Acres Leased
74 Active Leases	76 Active Leases

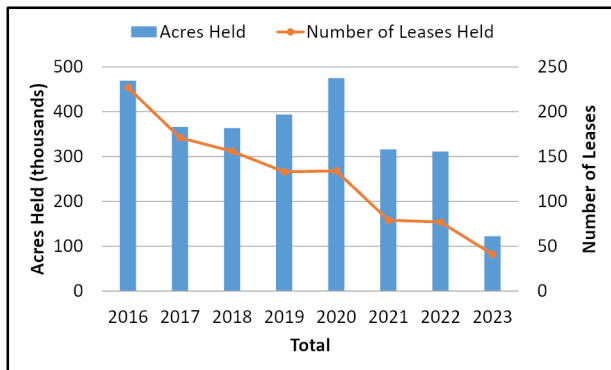
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change
Decrease (2)
No change (72)
Increase (4)

Figure 196. Rank 19 - Beacon leased acreage comparison between 2022 and 2023



Total Leased Acreage Comparison

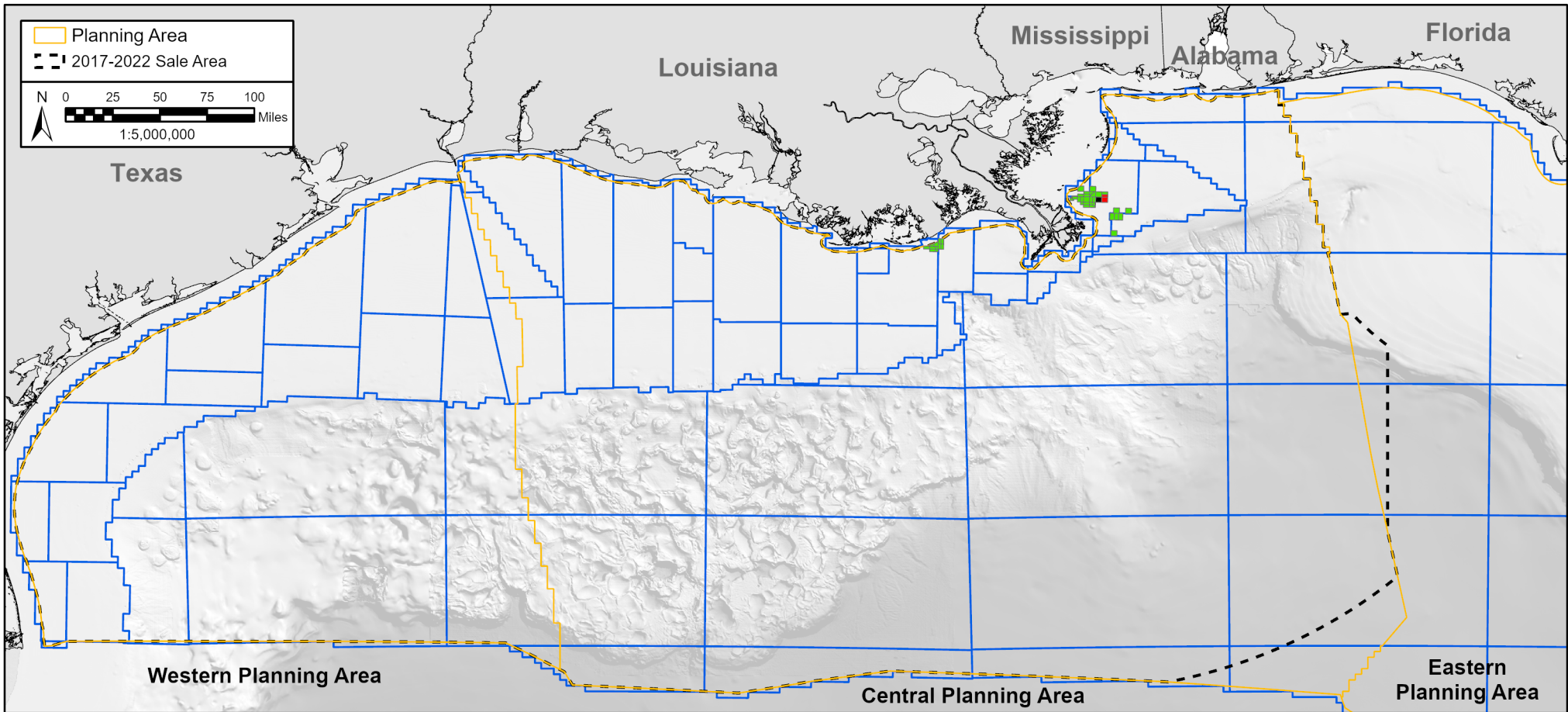


2022	2023
Rank: 14	Rank: 20
311,390 Acres Leased	122,426 Acres Leased
77 Active Leases	41 Active Leases

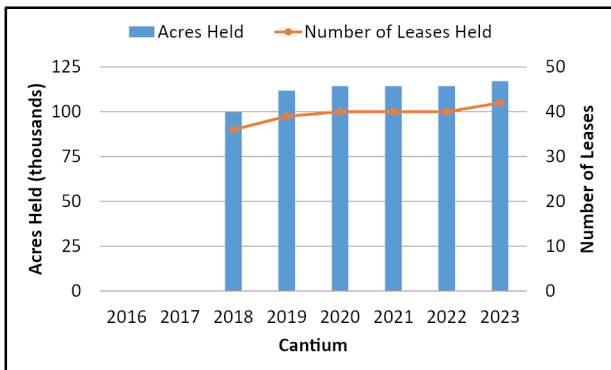
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change	Count
Decrease	36
No change	41
Increase	0

Figure 199. Rank 20 - Total leased acreage comparison between 2022 and 2023



Cantium Leased Acreage Comparison

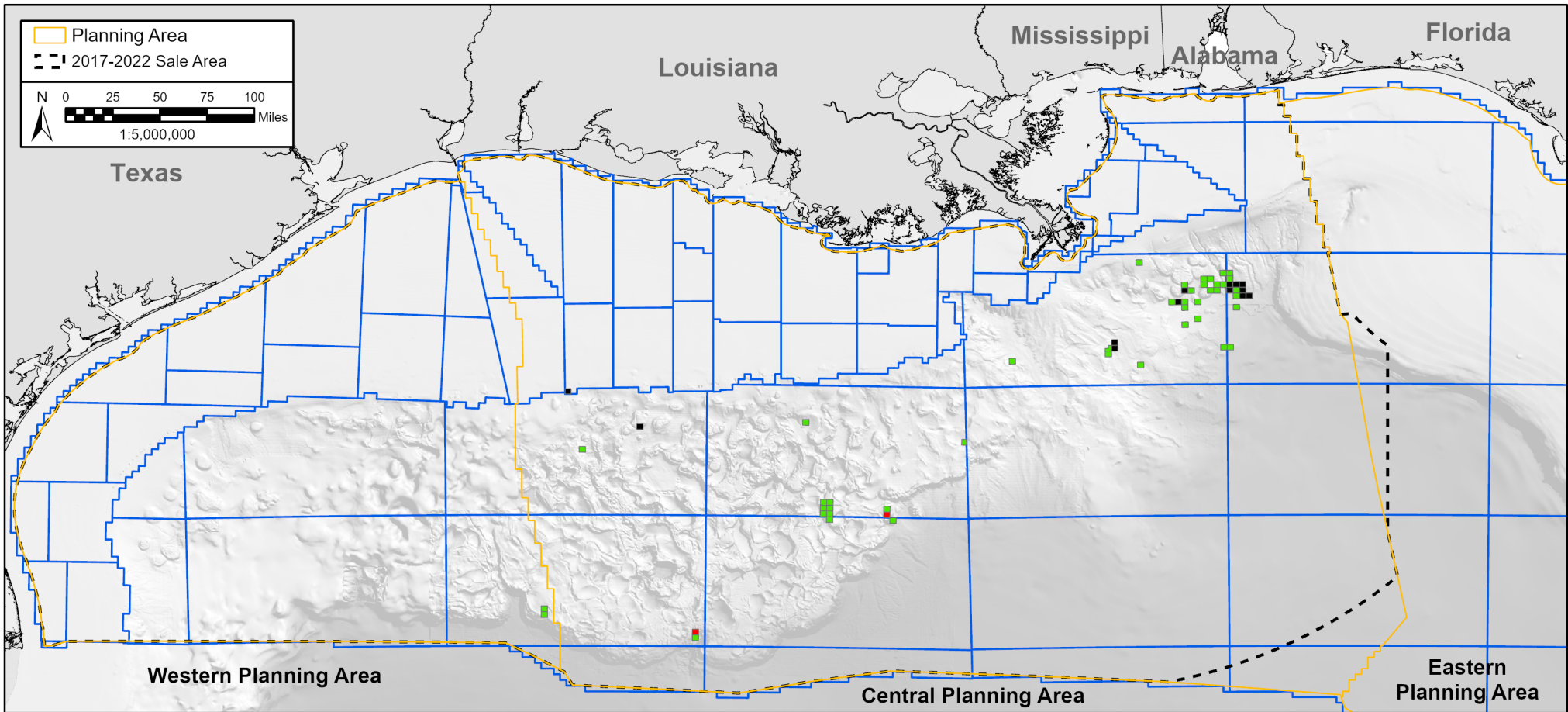


<u>2022</u>	<u>2023</u>
Rank: 21 114,375 Acres Leased 40 Active Leases	Rank: 21 117,117 Acres Leased 42 Active Leases
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.	

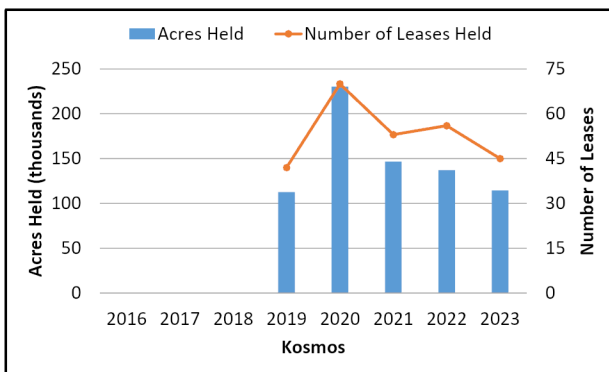
Ownership Change

- Decrease (1)
- No change (39)
- Increase (3)

Figure 202. Rank 21 - Cantium leased acreage comparison between 2022 and 2023



Kosmos Leased Acreage Comparison

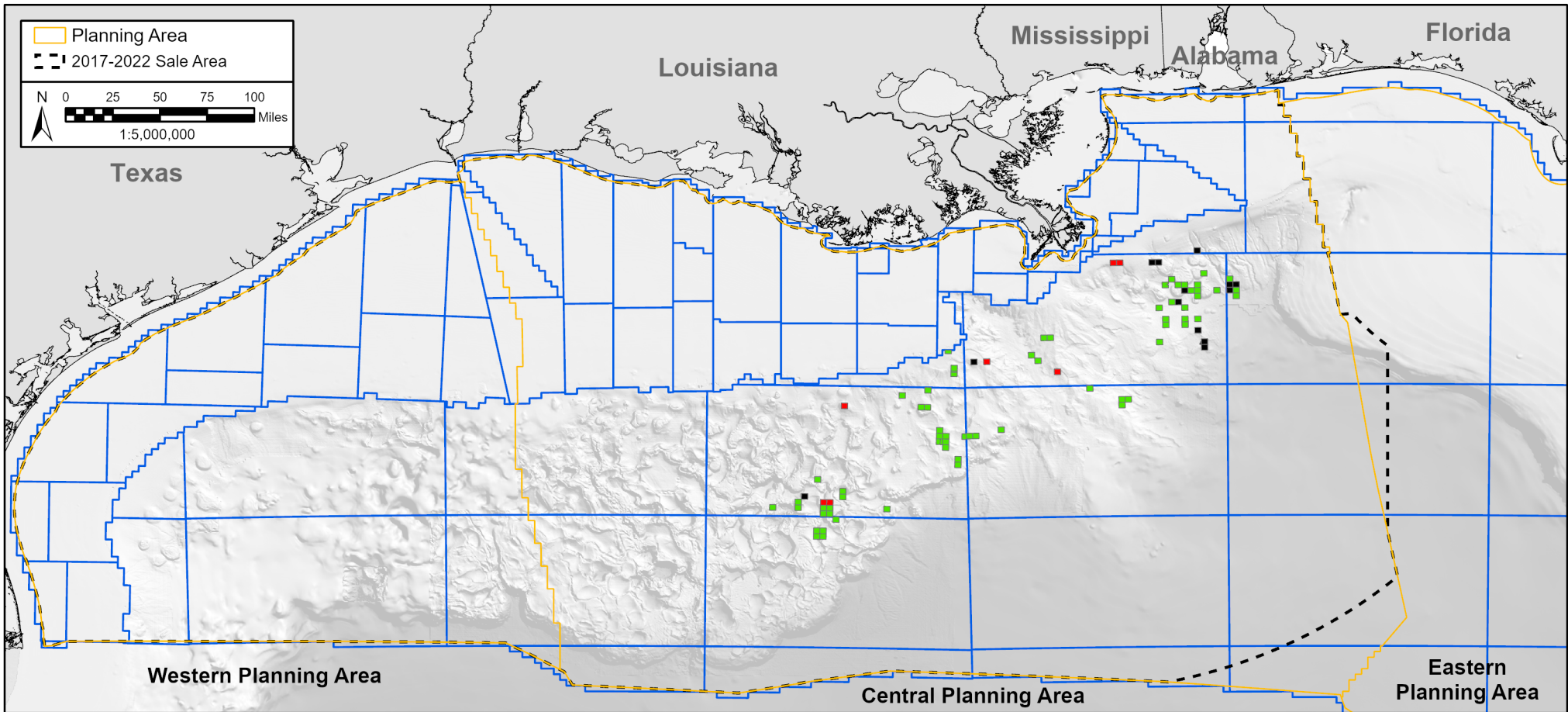


<u>2022</u>	<u>2023</u>
Rank: 20	Rank: 22
137,295 Acres Leased	114,562 Acres Leased
56 Active Leases	45 Active Leases
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.	

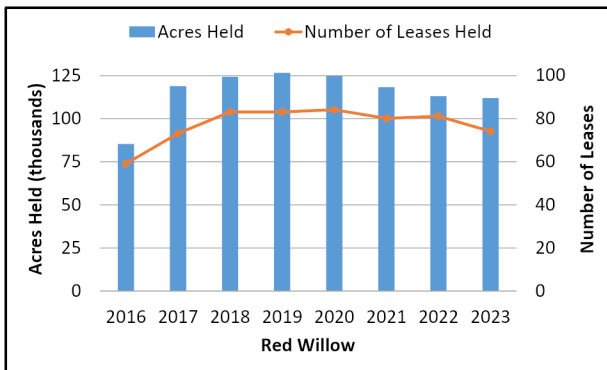
Ownership Change

- Decrease (13)
- No change (43)
- Increase (2)

Figure 205. Rank 22 - Kosmos leased acreage comparison between 2022 and 2023



Red Willow Leased Acreage Comparison



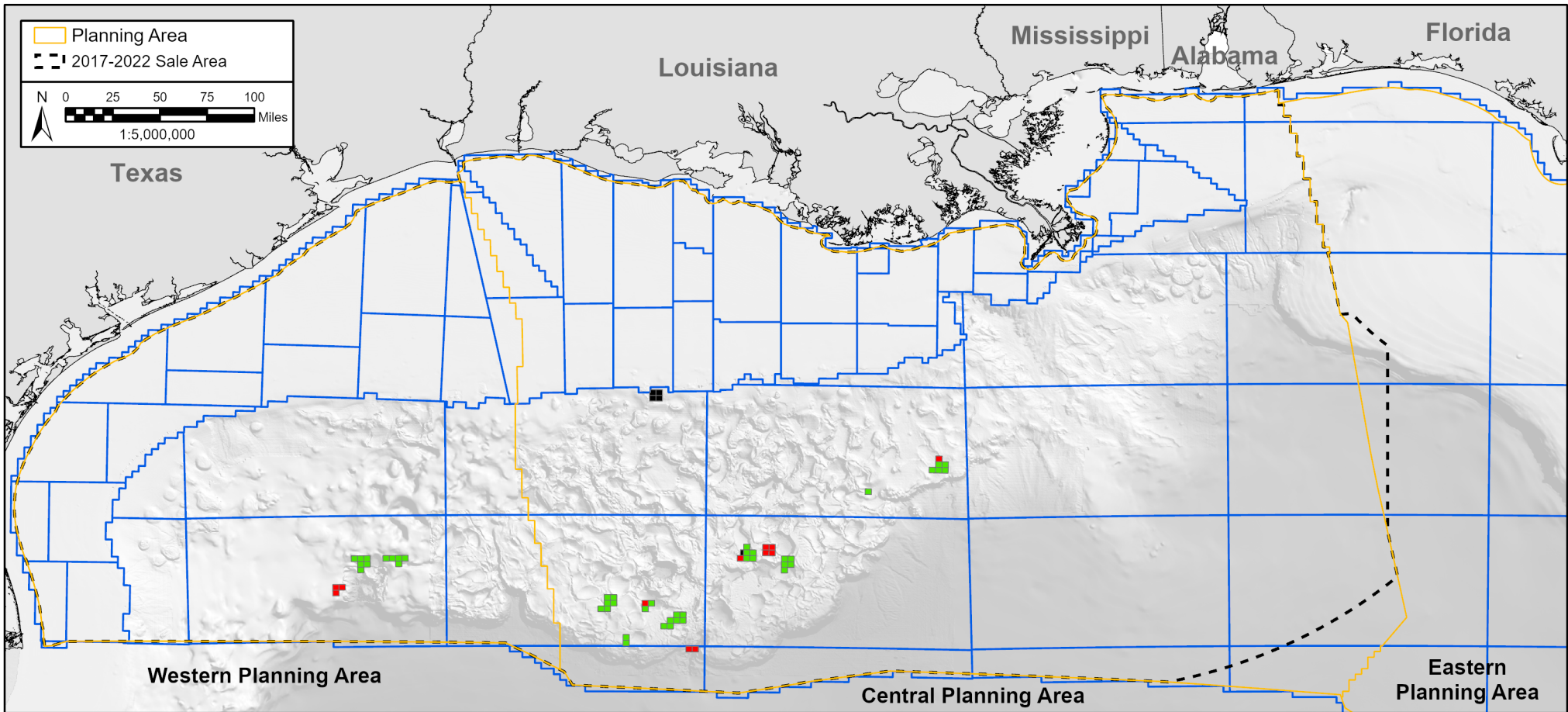
2022	2023
Rank: 22	Rank: 23
113,092 Acres Leased	111,913 Acres Leased
81 Active Leases	74 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

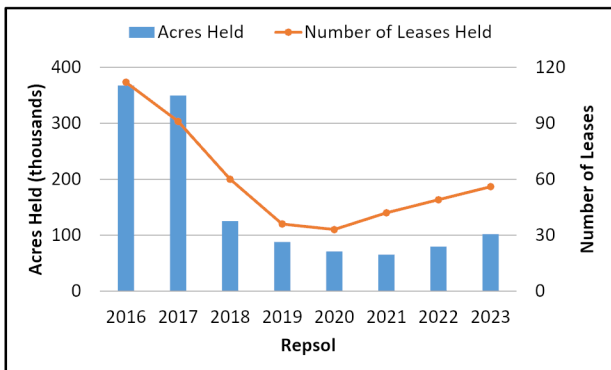
Ownership Change

Decrease (14)
No change (67)
Increase (7)

Figure 208. Rank 23 – Red Willow leased acreage comparison between 2022 and 2023



Repsol Leased Acreage Comparison

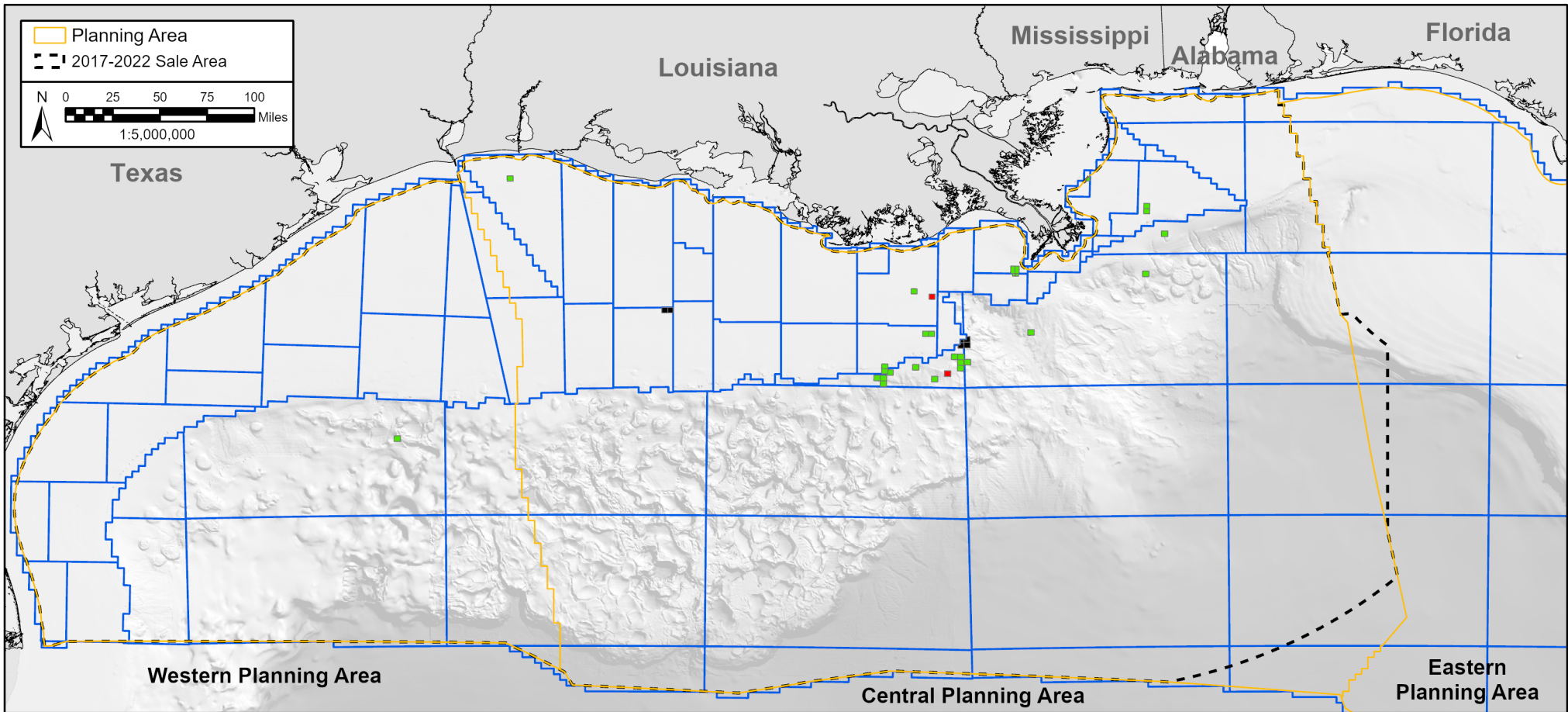


<u>2022</u>	<u>2023</u>
Rank: 25	Rank: 24
79,564 Acres Leased	101,844 Acres Leased
49 Active Leases	56 Active Leases
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.	

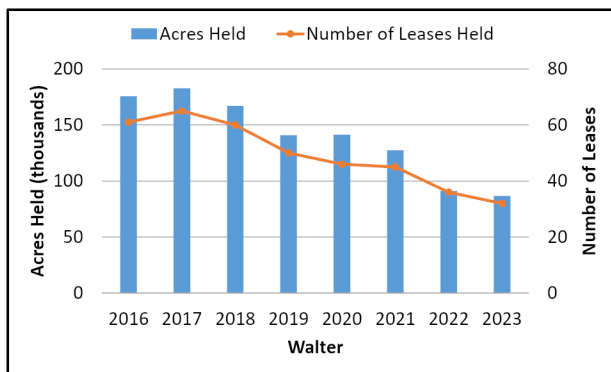
Ownership Change

- Decrease (5)
- No change (44)
- Increase (12)

Figure 211. Rank 24 - Repsol leased acreage comparison between 2022 and 2023



Walter Leased Acreage Comparison

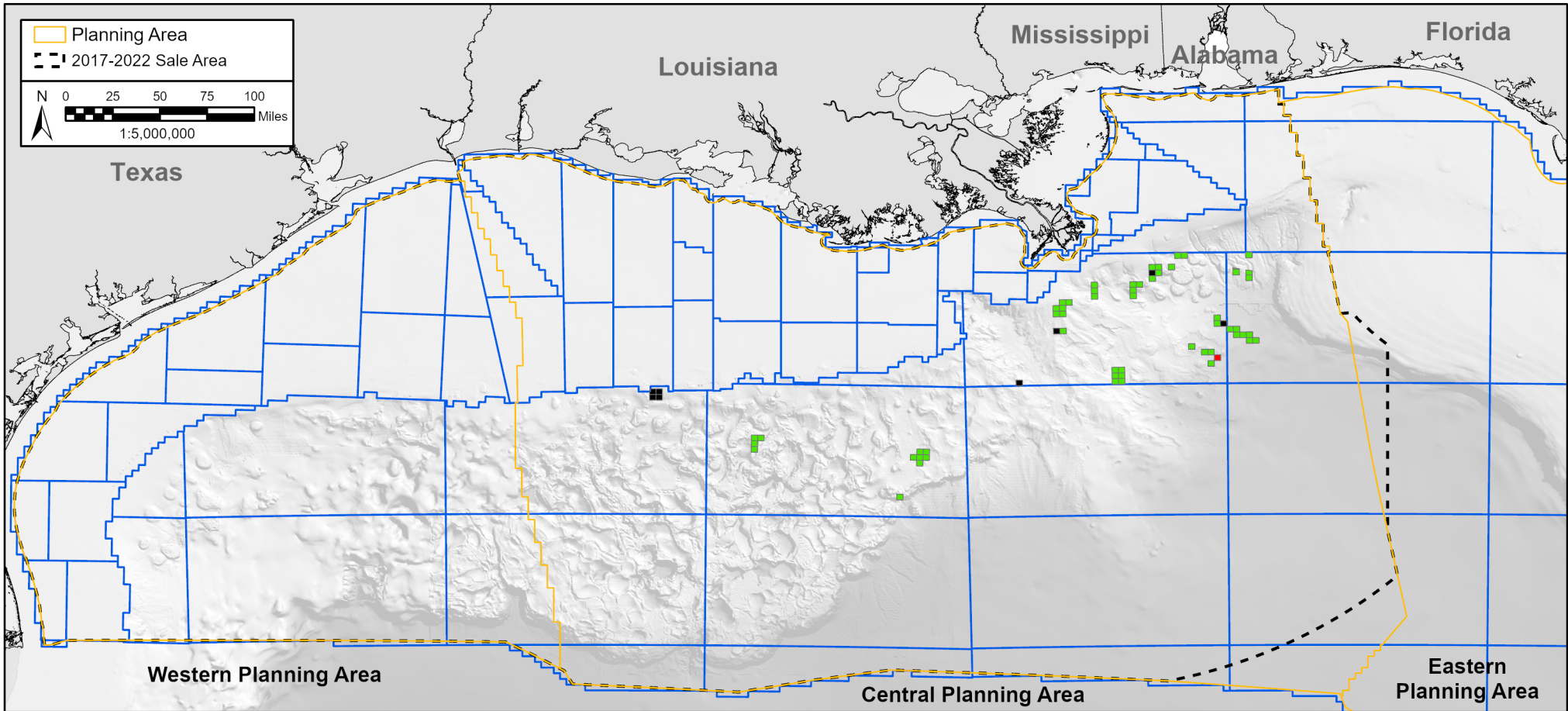


2022	2023
Rank: 24	Rank: 25
91,201 Acres Leased	86,760 Acres Leased
36 Active Leases	32 Active Leases
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.	

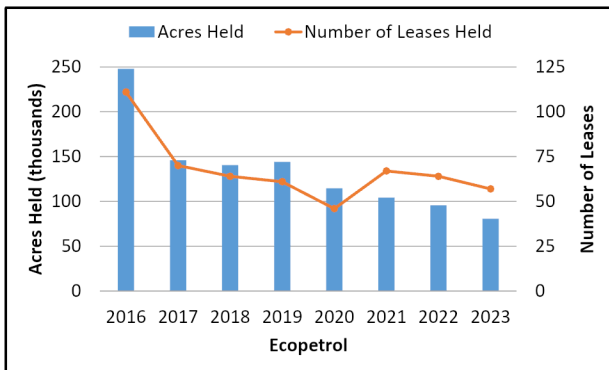
Ownership Change

- Decrease (6)
- No change (30)
- Increase (2)

Figure 214. Rank 25 - Walter leased acreage comparison between 2022 and 2023



Ecopetrol Leased Acreage Comparison

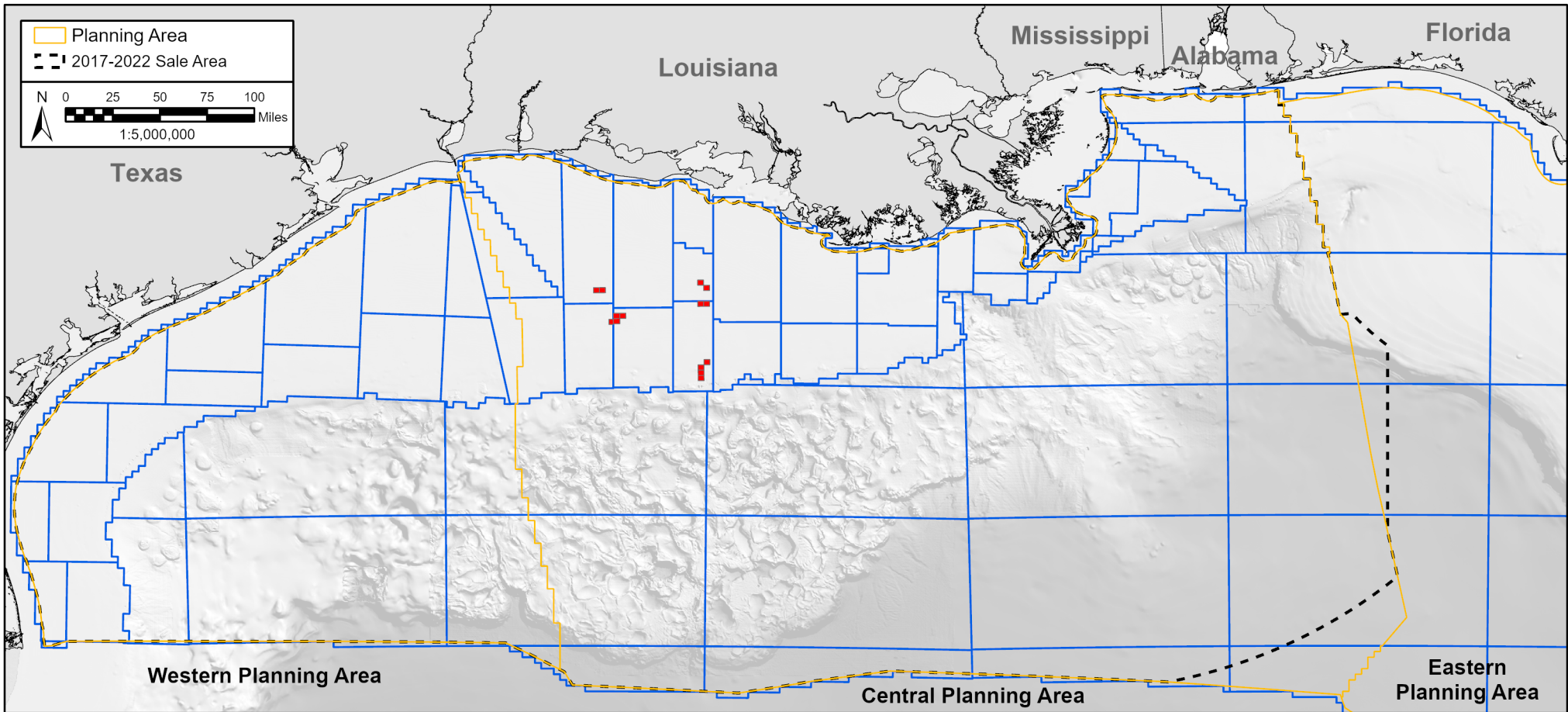


2022	2023
Rank: 23	Rank: 26
95,758 Acres Leased	80,794 Acres Leased
64 Active Leases	57 Active Leases

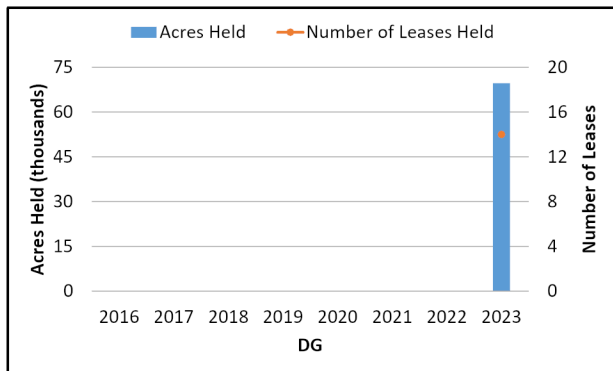
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change	Count
Decrease	8
No change	56
Increase	1

Figure 217. Rank 26 - Ecopetrol leased acreage comparison between 2022 and 2023



DG Leased Acreage Comparison

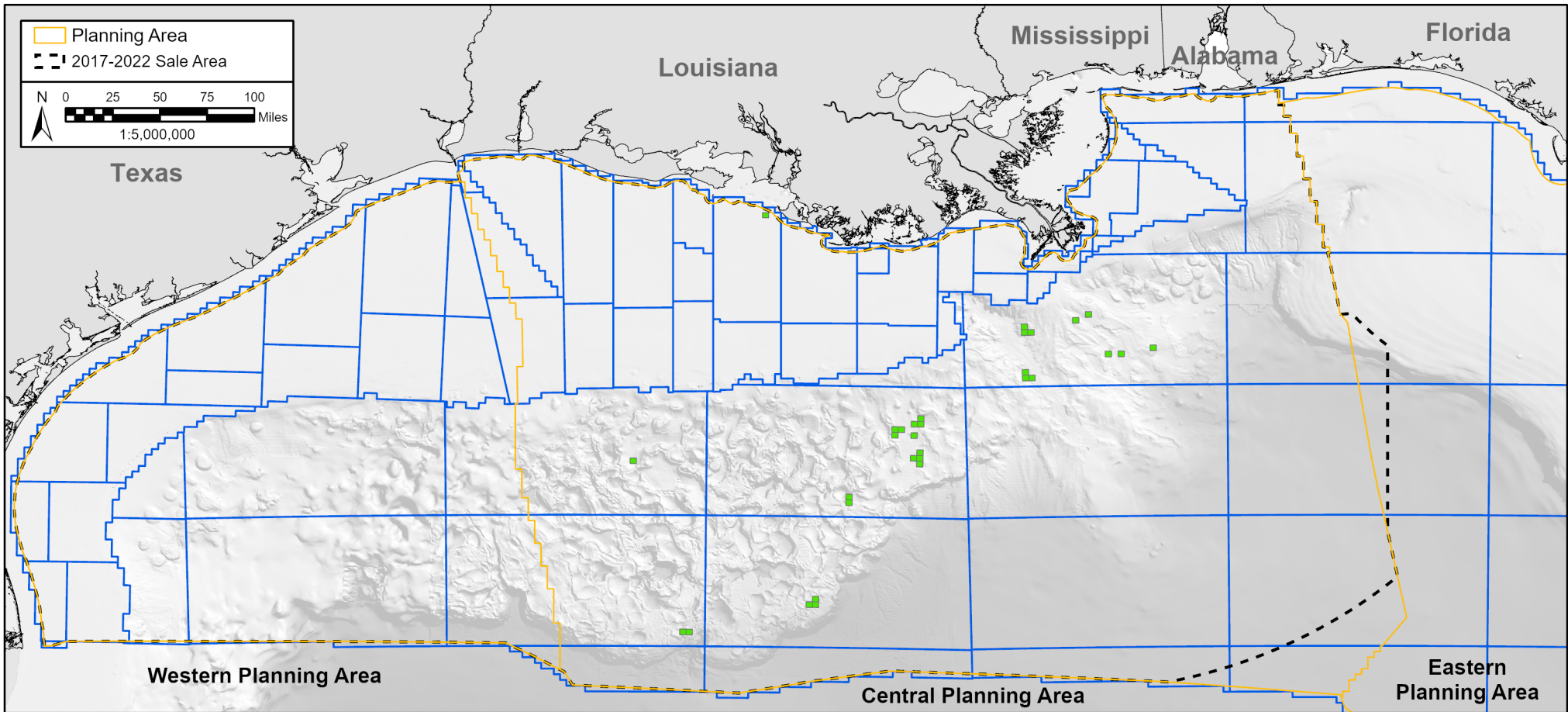


<u>2022</u>	<u>2023</u>
Rank: N/A	Rank: 27
0 Acres Leased	69,687 Acres Leased
0 Active Leases	14 Active Leases
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.	

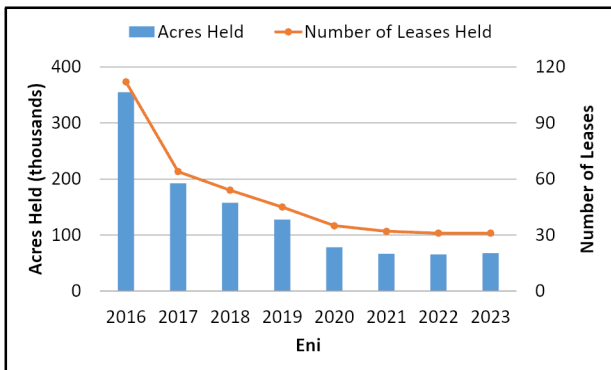
Ownership Change

- Decrease (0)
- No change (0)
- Increase (14)

Figure 220. Rank 27 – DG leased acreage comparison between 2022 and 2023



Eni Leased Acreage Comparison

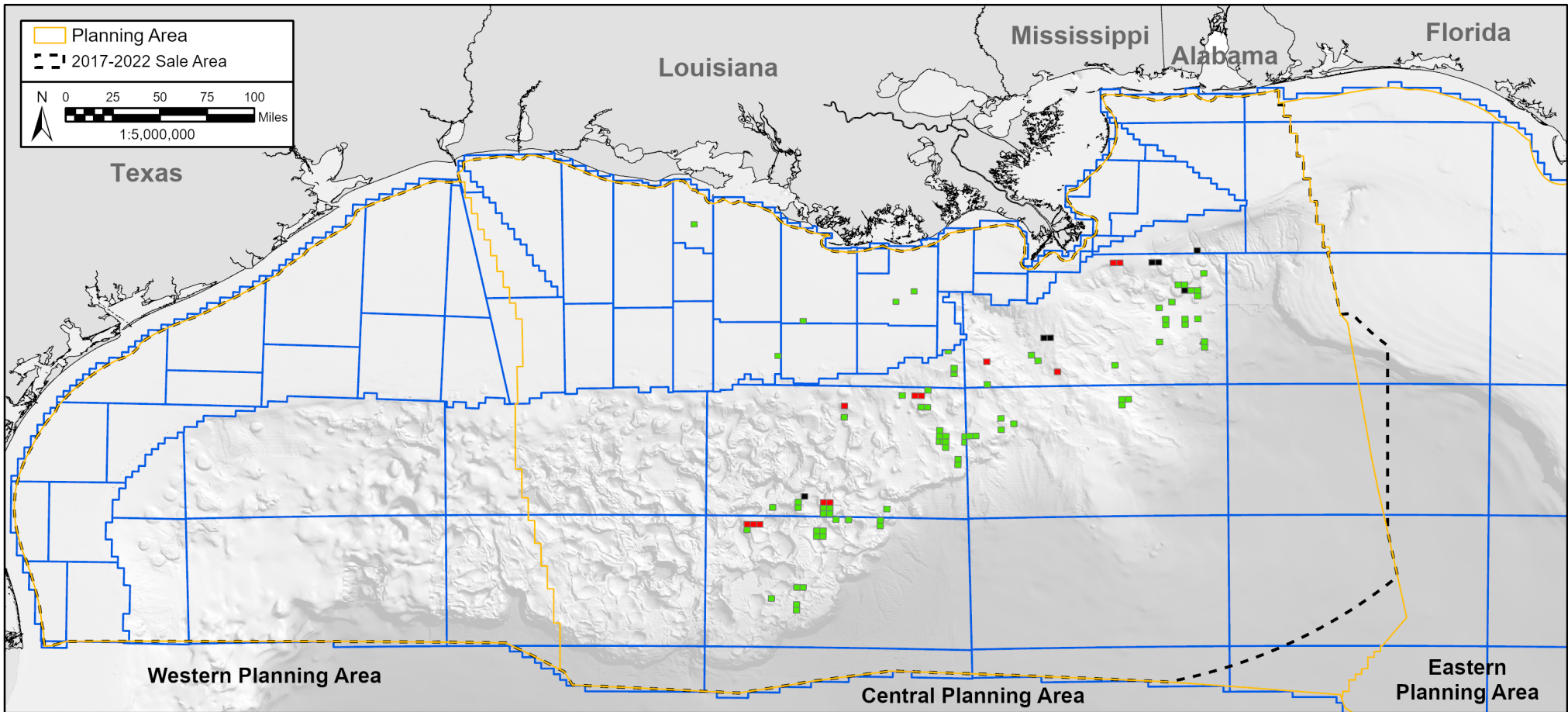


2022	2023
Rank: 28	Rank: 28
65,226 Acres Leased	67,724 Acres Leased
31 Active Leases	31 Active Leases

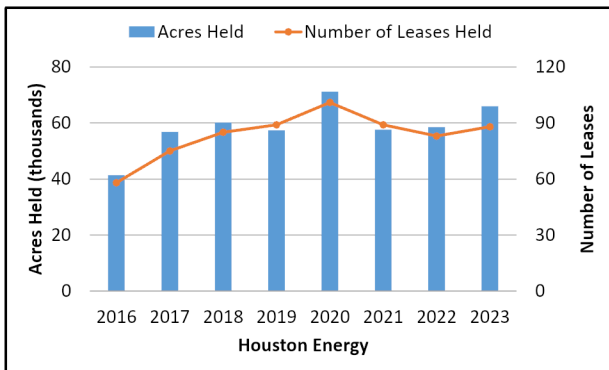
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change
Decrease (0)
No change (31)
Increase (0)

Figure 223. Rank 28 - Eni leased acreage comparison between 2022 and 2023



Houston Energy Leased Acreage Comparison



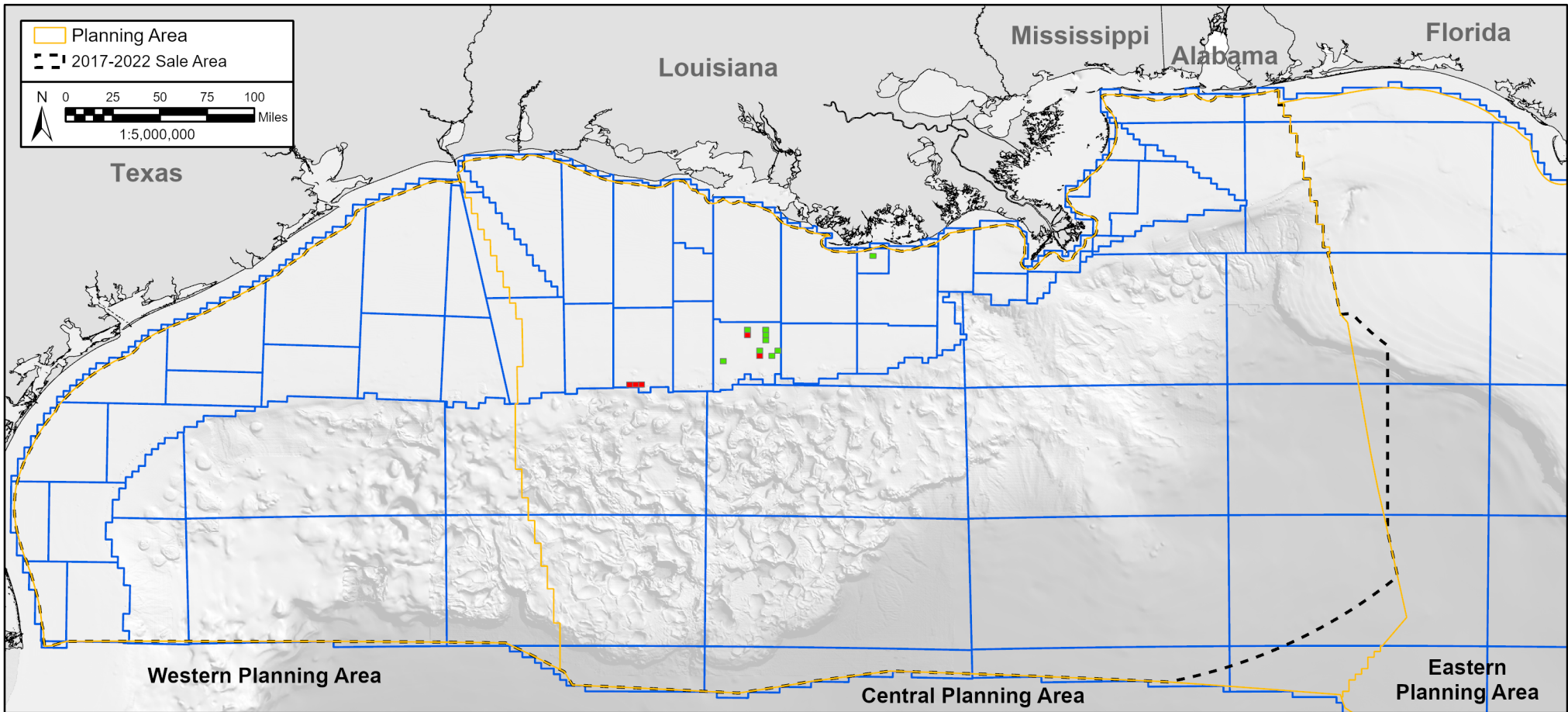
2022	2023
Rank: 31	Rank: 29
58,498 Acres Leased	65,991 Acres Leased
83 Active Leases	88 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

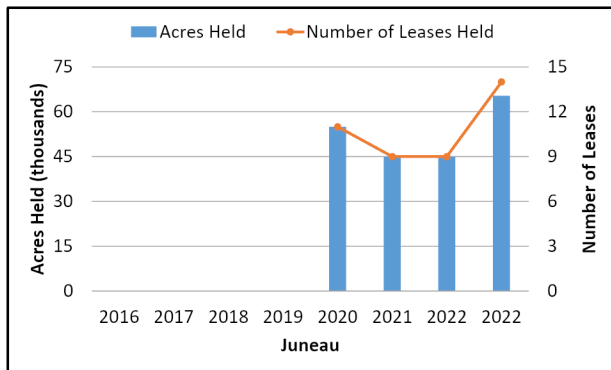
Ownership Change

- Decrease (7)
- No change (76)
- Increase (12)

Figure 226. Rank 29 – Houston Energy leased acreage comparison between 2022 and 2023



Juneau Leased Acreage Comparison



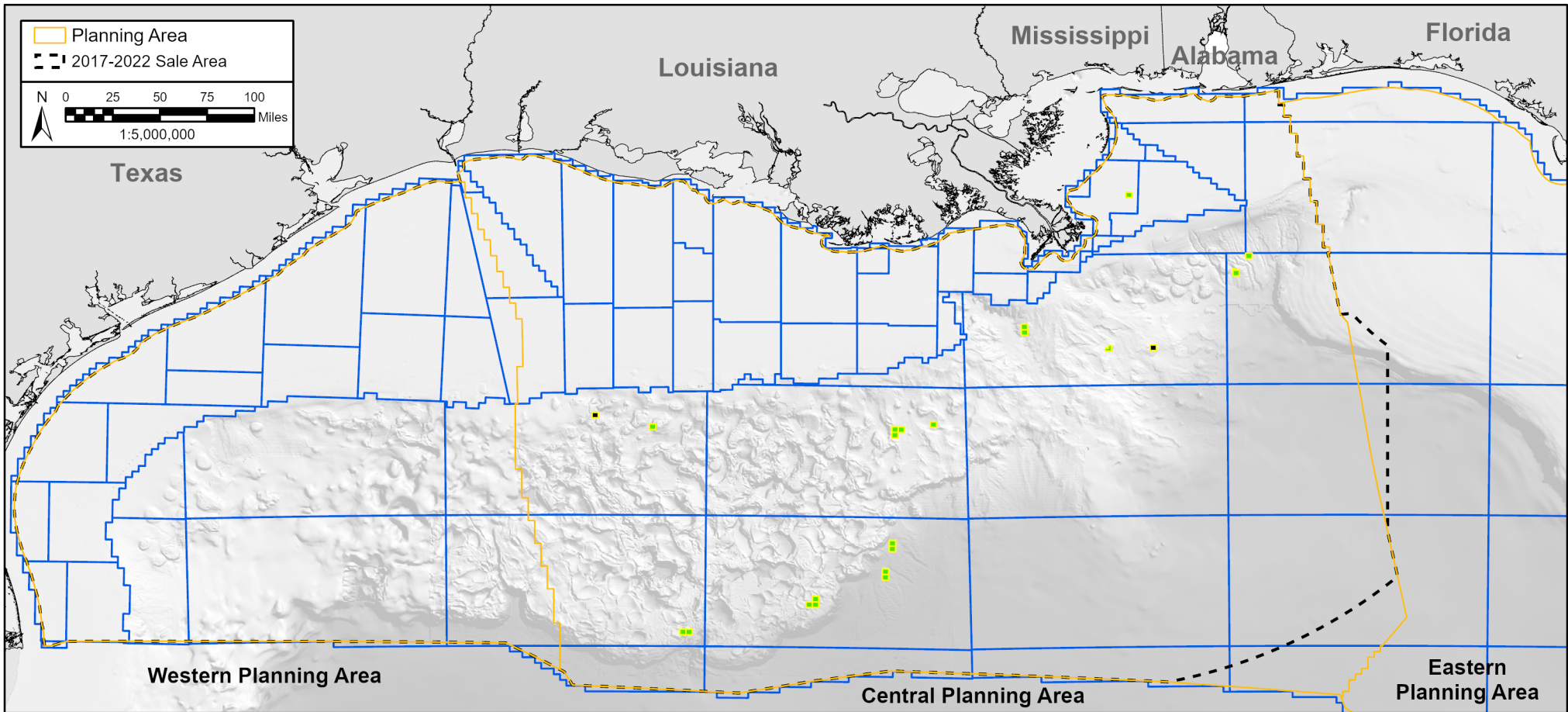
2022	2023
Rank: 32	Rank: 30
45,000 Acres Leased	65,363 Acres Leased
9 Active Leases	14 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

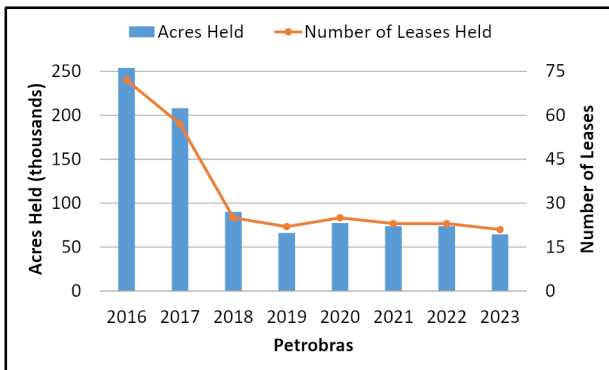
Ownership Change

- Decrease (0)
- No change (9)
- Increase (5)

Figure 229. Rank 30 - Juneau leased acreage comparison between 2022 and 2023



Petrobras Leased Acreage Comparison



2022	2023
Rank: 26	Rank: 31
74,043 Acres Leased	64,683 Acres Leased
23 Active Leases	21 Active Leases

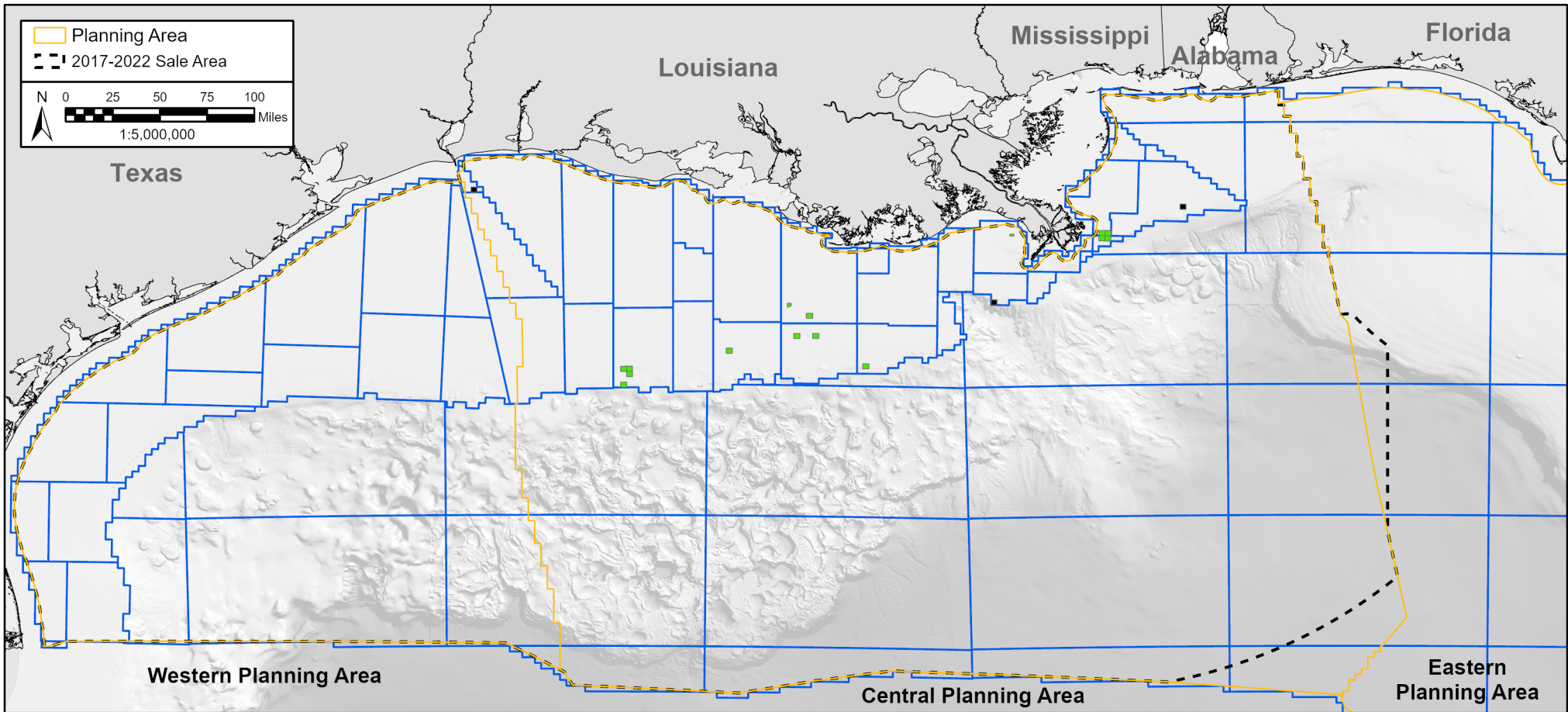
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Company Notes: (1) MP Gulf of Mexico is a joint venture between Murphy and Petrobras and is listed as a subsidiary of both companies. These leases are outlined in yellow.

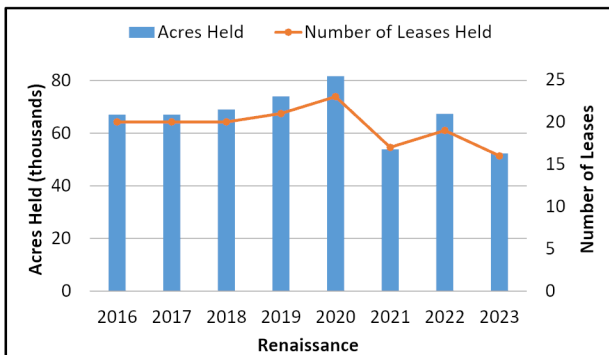
Ownership Change

- Decrease (2)
- No change (21)
- Increase (0)

Figure 232. Rank 31 - Petrobras leased acreage comparison between 2022 and 2023



Renaissance Leased Acreage Comparison



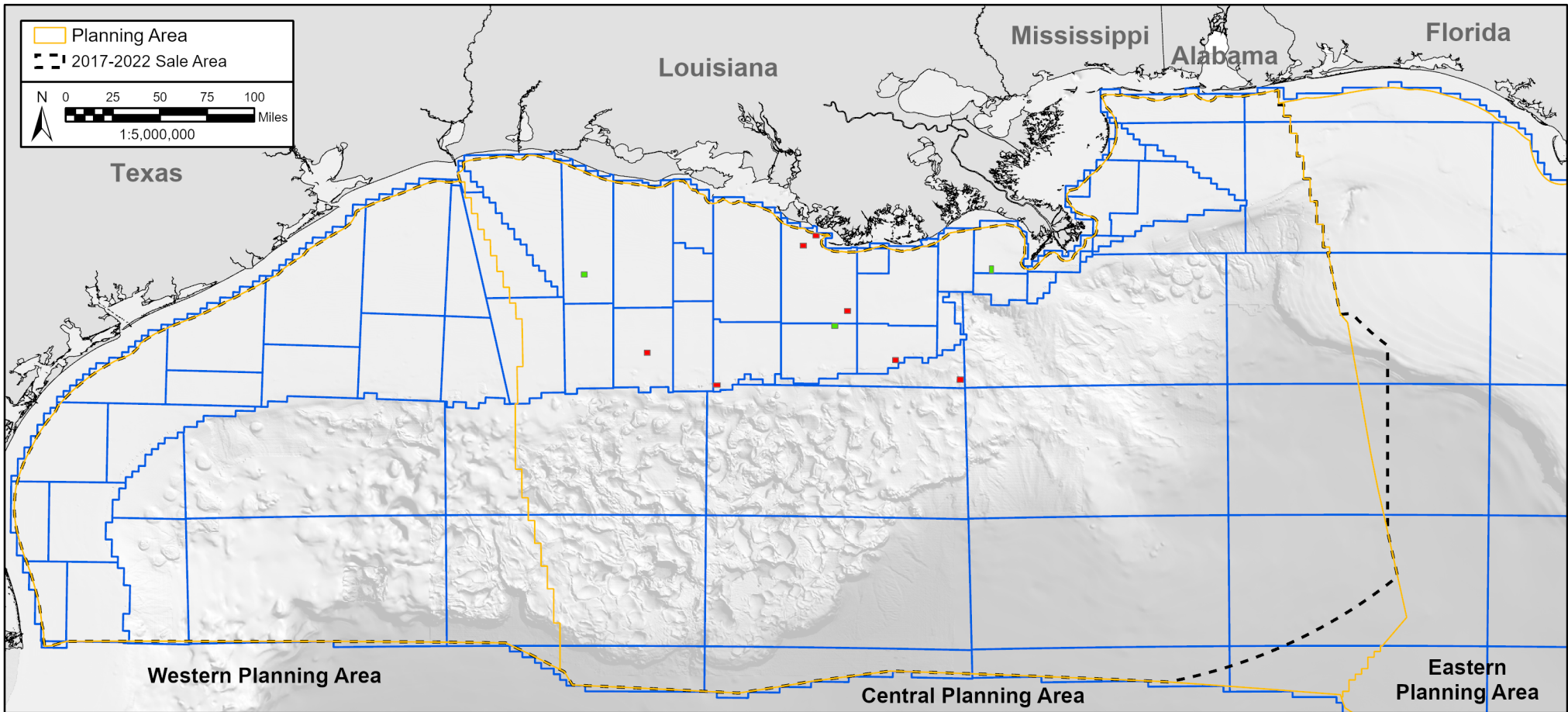
2022	2023
Rank: 27	Rank: 32
67,338 Acres Leased	52,343 Acres Leased
19 Active Leases	16 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

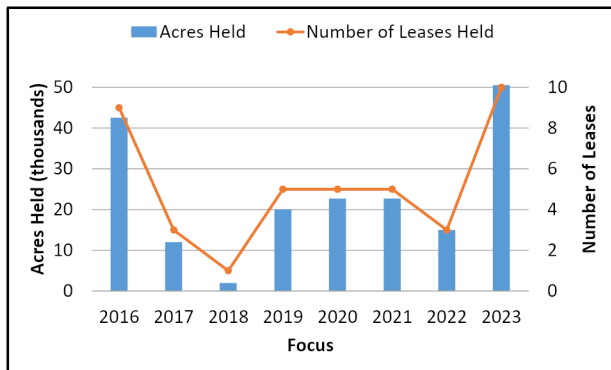
Ownership Change

- Decrease (3)
- No change (16)
- Increase (0)

Figure 235. Rank 32 - Renaissance leased acreage comparison between 2022 and 2023



Focus Leased Acreage Comparison

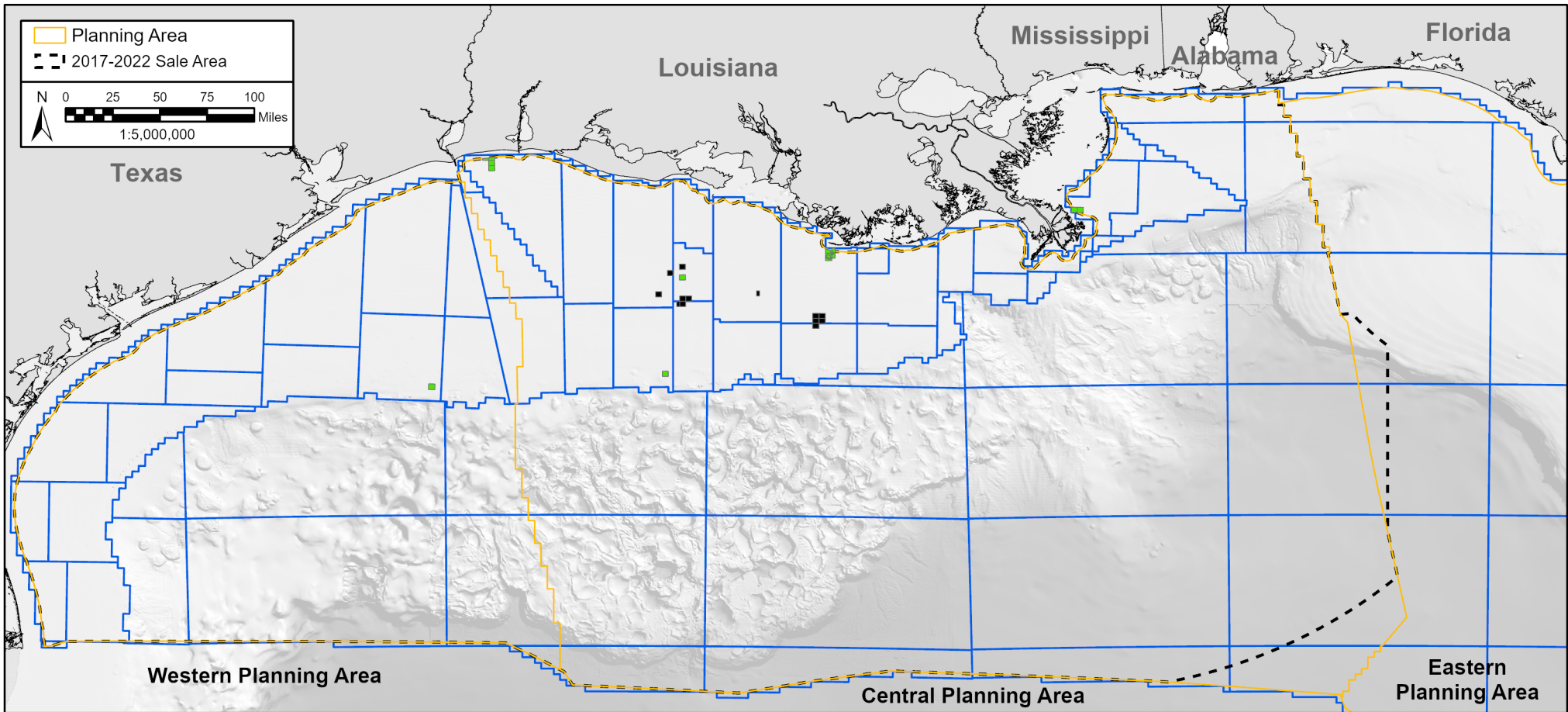


2022	2023
Rank: 47	Rank: 33
15,000 Acres Leased	50,536 Acres Leased
3 Active Leases	10 Active Leases

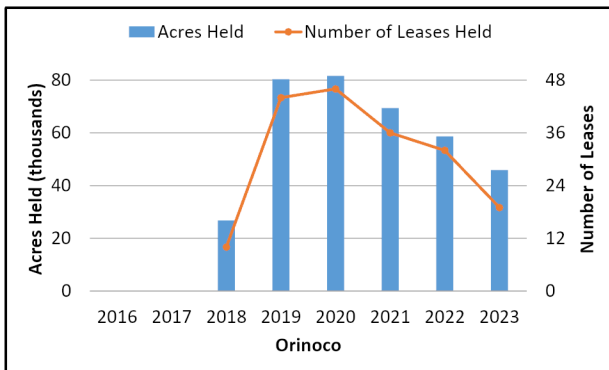
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change
Decrease (0)
No change (3)
Increase (7)

Figure 238. Rank 33 - Focus leased acreage comparison between 2022 and 2023



Orinoco Leased Acreage Comparison

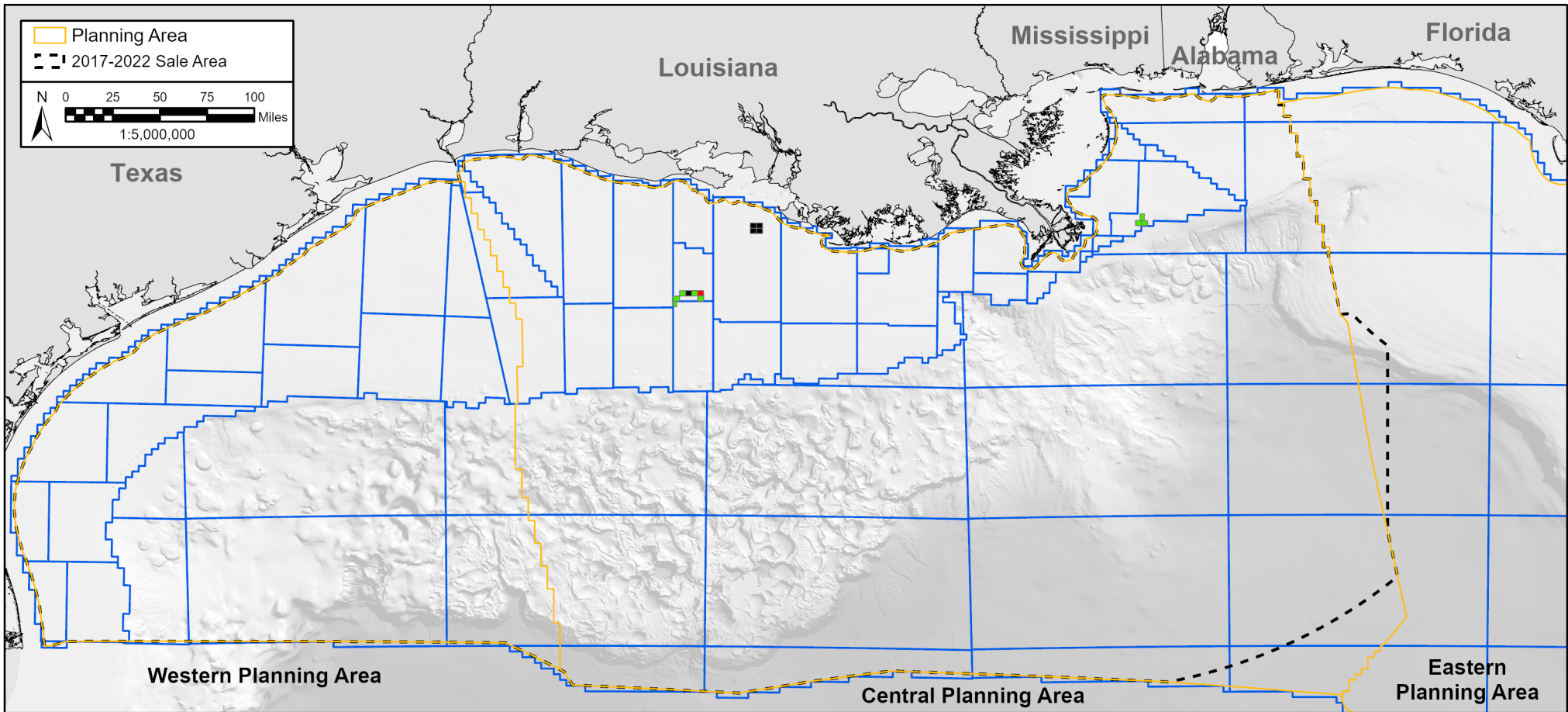


2022	2023
Rank: 30	Rank: 34
58,648 Acres Leased	45,957 Acres Leased
32 Active Leases	19 Active Leases
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.	

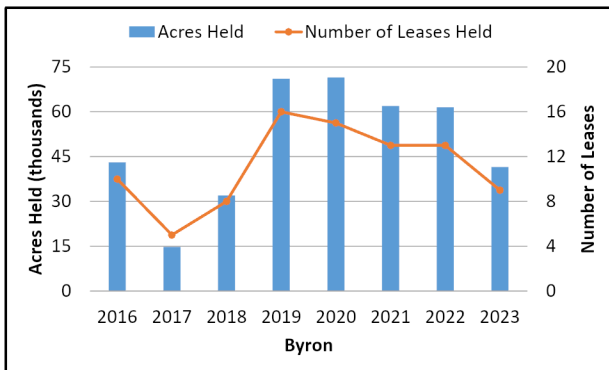
Ownership Change

- Decrease (13)
- No change (19)
- Increase (0)

Figure 241. Rank 34 - Orinoco leased acreage comparison between 2022 and 2023



Byron Leased Acreage Comparison

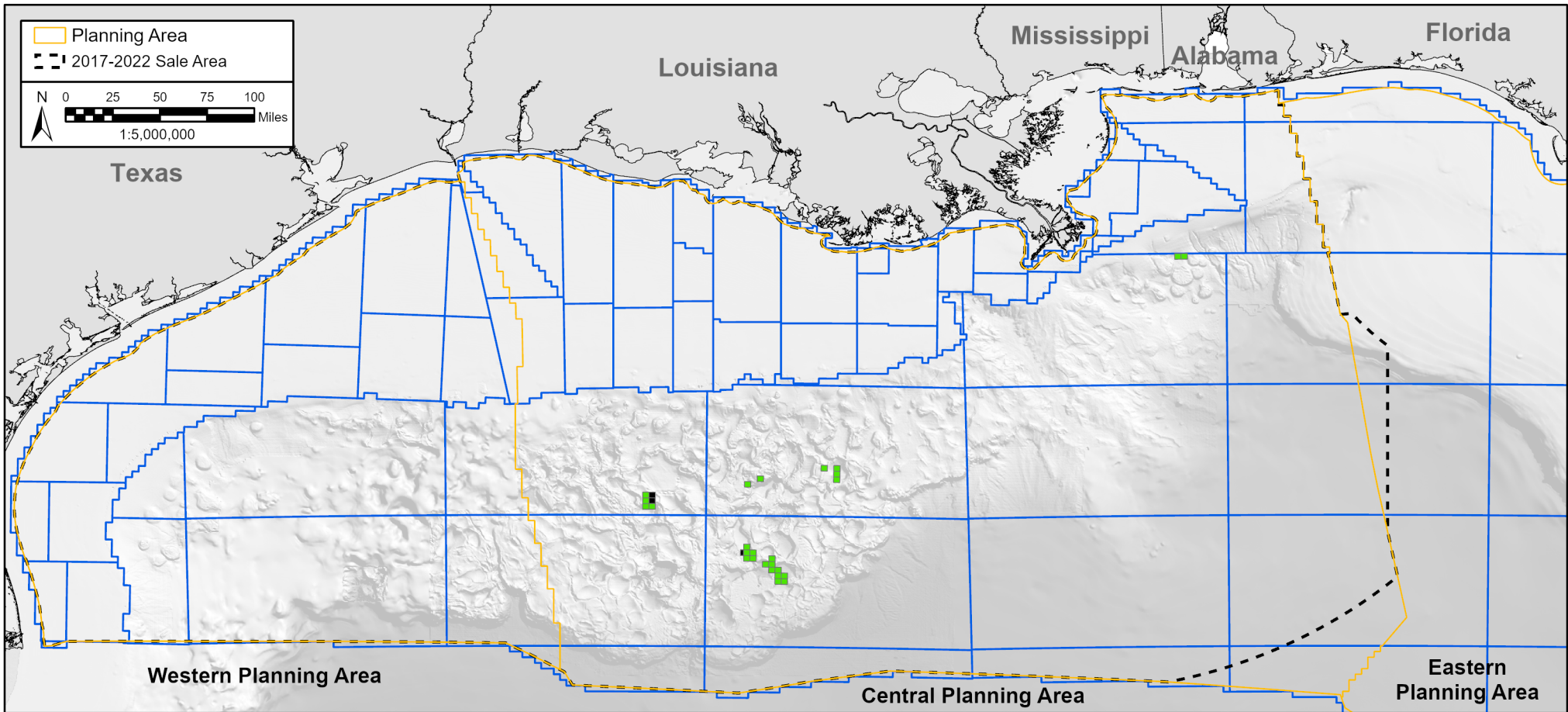


2022	2023
Rank: 29	Rank: 35
61,531 Acres Leased	41,531 Acres Leased
13 Active Leases	9 Active Leases

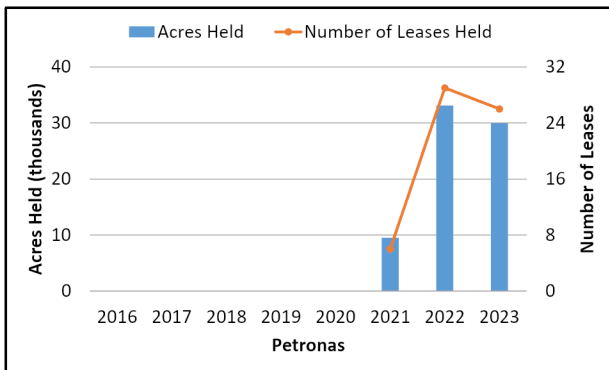
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change
Decrease (5)
No change (8)
Increase (1)

Figure 244. Rank 35 - Byron leased acreage comparison between 2022 and 2023



Petronas Leased Acreage Comparison

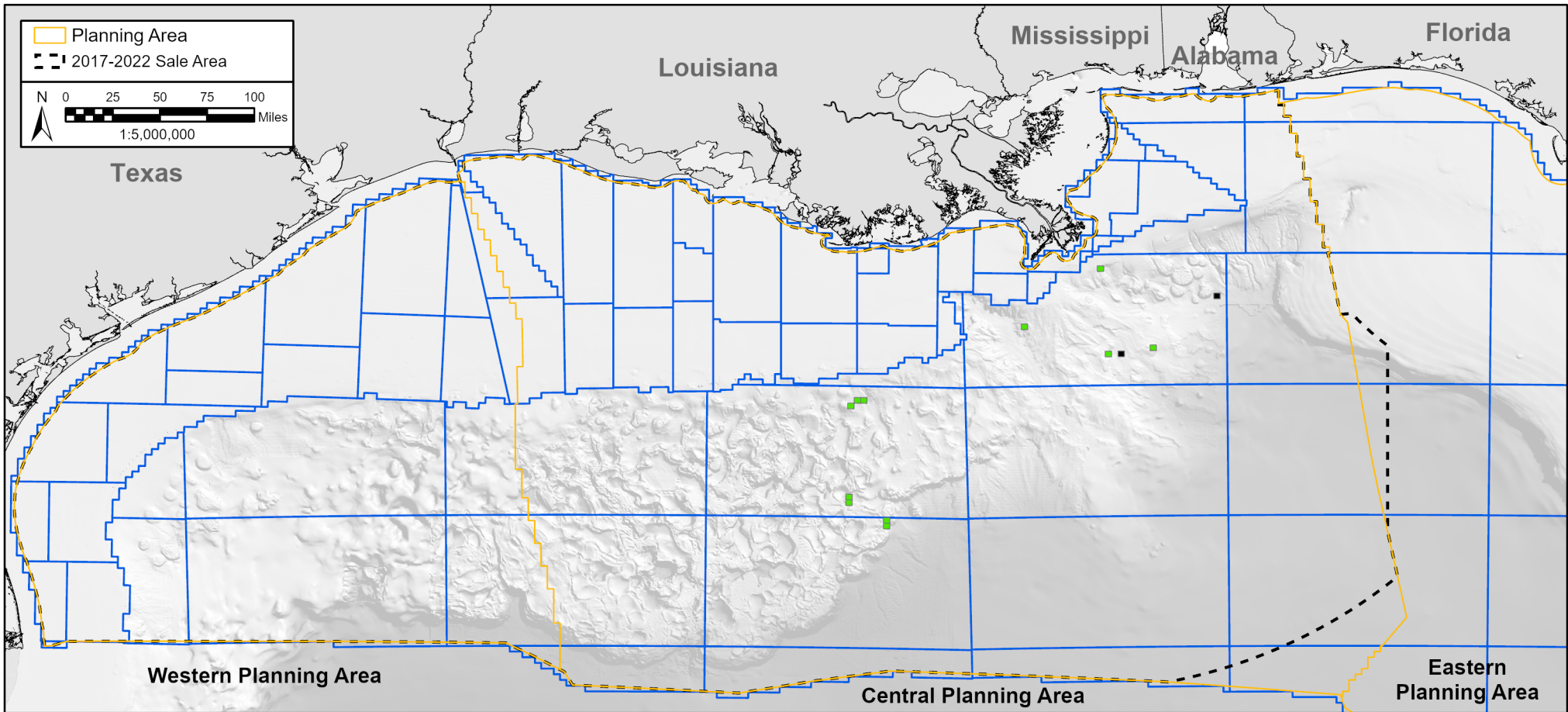


2022	2023
Rank: 34	Rank: 36
33,120 Acres Leased	29,952 Acres Leased
29 Active Leases	26 Active Leases

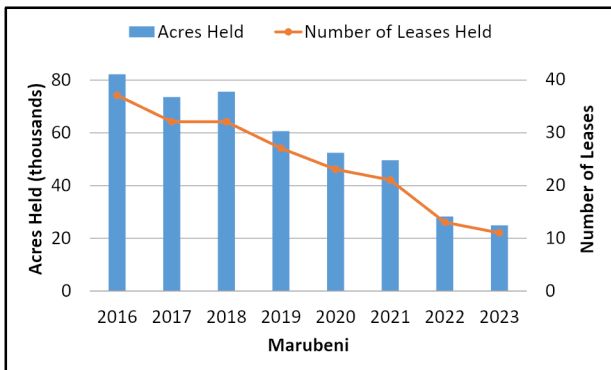
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change	Count
Decrease	3
No change	26
Increase	0

Figure 247. Rank 36 - Petronas leased acreage comparison between 2022 and 2023



Marubeni Leased Acreage Comparison

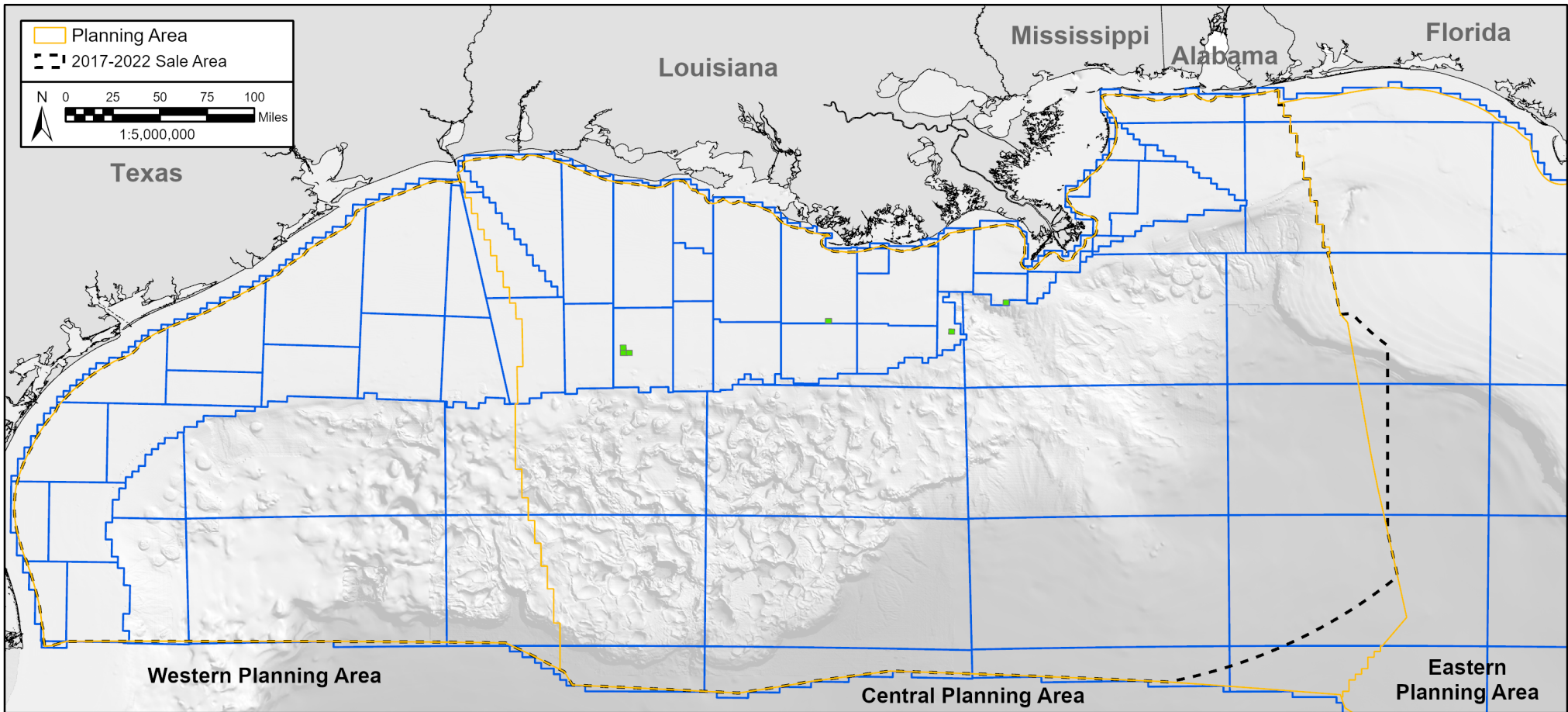


2022	2023
Rank: 35	Rank: 37
28,318 Acres Leased	24,960 Acres Leased
13 Active Leases	11 Active Leases

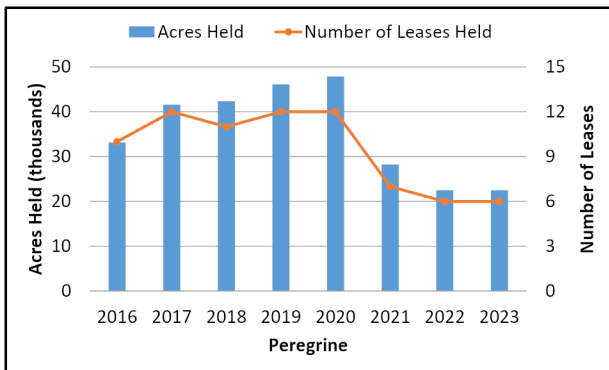
Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change	Count
Decrease	2
No change	11
Increase	0

Figure 250. Rank 37 - Marubeni leased acreage comparison between 2022 and 2023



Peregrine Leased Acreage Comparison



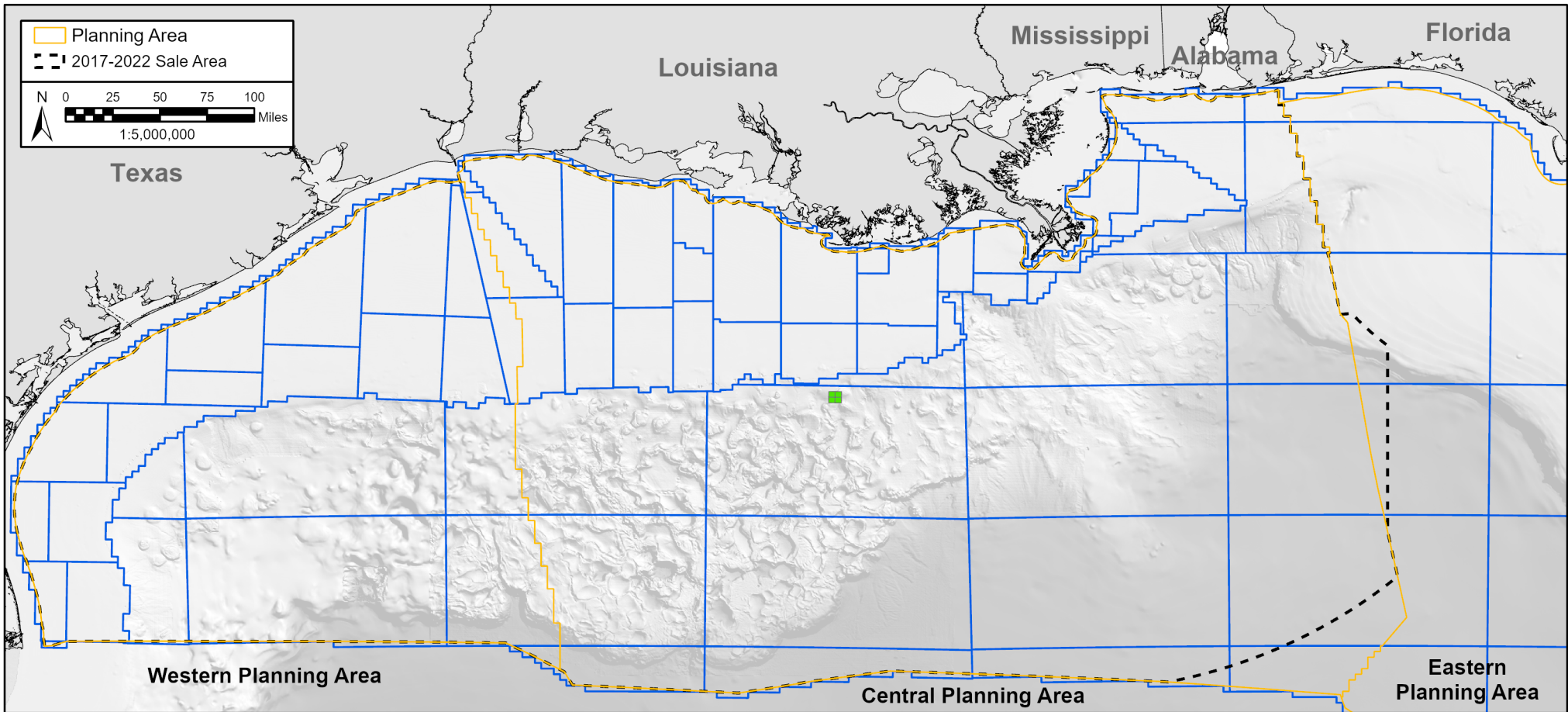
2022	2023
Rank: 38	Rank: 38
22,500 Acres Leased	22,500 Acres Leased
6 Active Leases	6 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

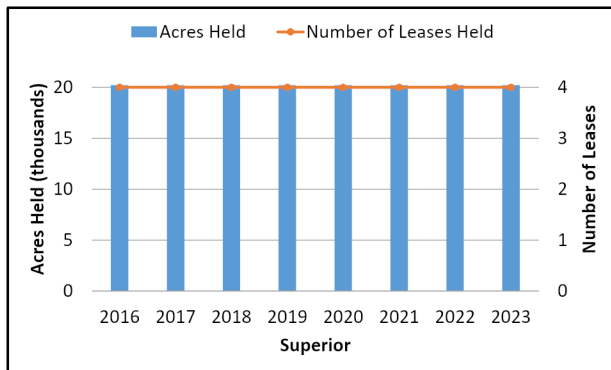
Ownership Change

- Decrease (0)
- No change (6)
- Increase (0)

Figure 253. Rank 38 - Peregrine leased acreage comparison between 2022 and 2023



Superior Leased Acreage Comparison



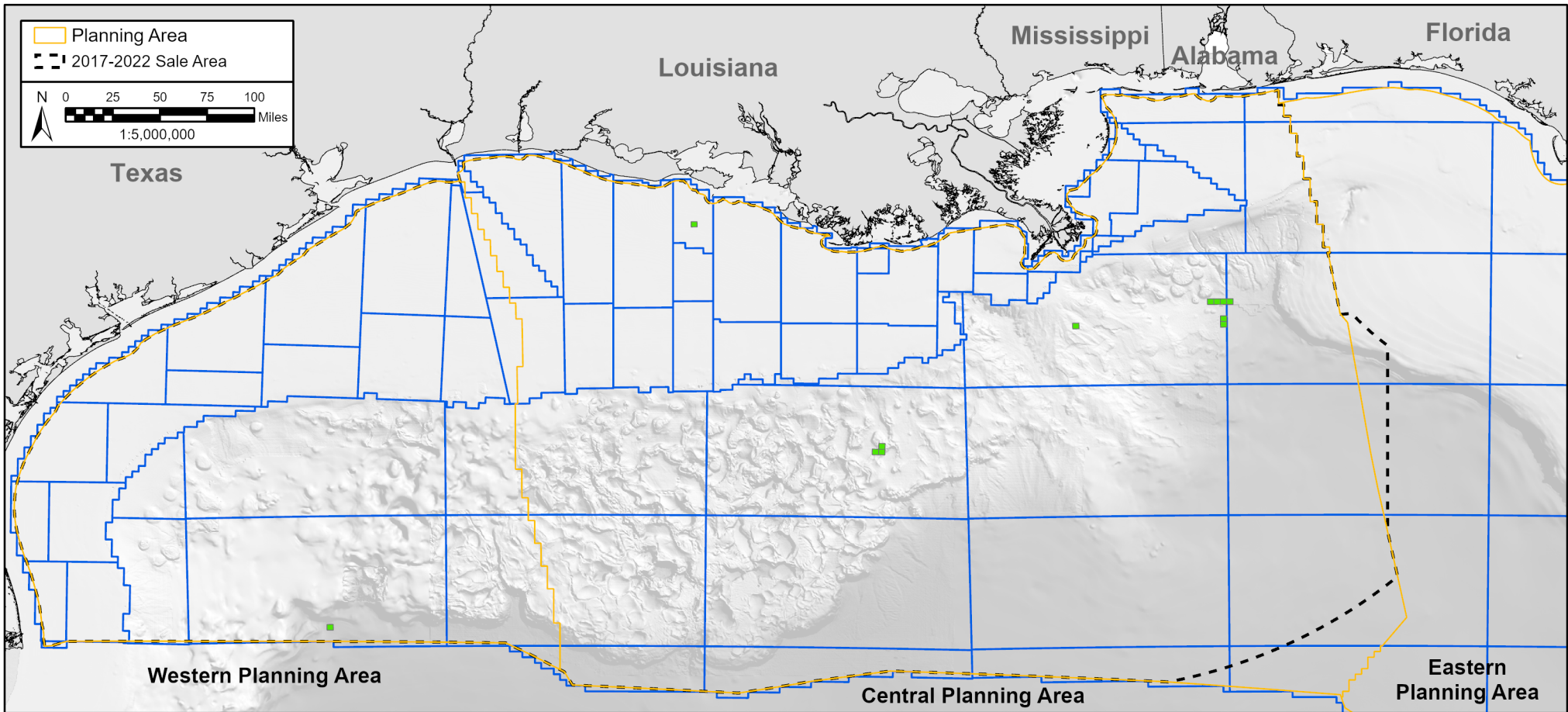
2022	2023
Rank: 40	Rank: 39
20,218 Acres Leased	20,218 Acres Leased
4 Active Leases	4 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

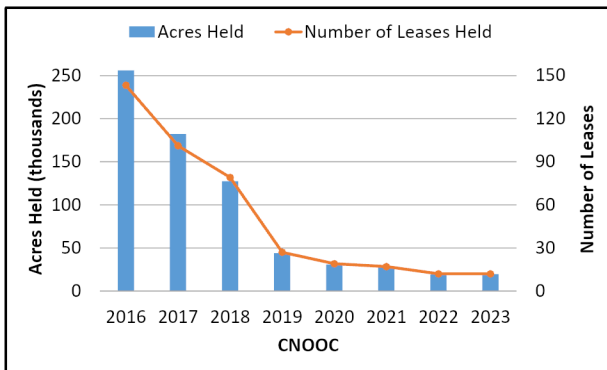
Ownership Change

- Decrease (0)
- No change (4)
- Increase (0)

Figure 256. Rank 39 - Superior leased acreage comparison between 2022 and 2023



CNOOC Leased Acreage Comparison



2022	2023
Rank: 41	Rank: 40
19,273 Acres Leased	19,601 Acres Leased
12 Active Leases	12 Active Leases

Map Notes: (1) 2022 leases are as of January 3, 2022 and 2023 leases are as of January 3, 2023. (2) A company's decrease doesn't necessarily mean the lease is not active, but that the company is not listed as a Record Title Owner.

Ownership Change	Count
Decrease	0
No change	12
Increase	0

Figure 259. Rank 40 - CNOOC leased acreage comparison between 2022 and 2023

End Remarks

This report is static and represents company holdings as of January 3, 2023.

The Top 40 Company Report is authored by Sean O'Donnell. Please direct any inquiries to BOEM's Gulf of Mexico Region's Public Affairs Officer, John Filostrat, at john.filostrat@boem.gov