VALIDUS HOLDINGS LTD Form 10-Q August 02, 2017 Table of Contents

UNITED STATES SECURITIES	AND EXCHANGE COMMISSION
Washington, D.C. 20549	

Form 10-O

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended June 30, 2017

Commission file number 001-33606

VALIDUS HOLDINGS, LTD.

(Exact name of registrant as specified in its charter)

BERMUDA 98-0501001

(State or other jurisdiction of (I.R.S. Employer

incorporation or organization) Identification No.)

29 Richmond Road, Pembroke, Bermuda HM 08

(Address of principal executive offices and zip code)

(441) 278-9000

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes x No o

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes x No o

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer x Accelerated filer Non-accelerated filer o(Do not check if a smaller reporting company)

> Smaller reporting company o Emerging growth company o

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. o

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes o No x

 $As of July \ 31, 2017 \ there \ were \ 79,465,860 \ outstanding \ Common \ Shares, \ \$0.175 \ par \ value \ per \ share, \ of \ the \ registrant.$

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PART I. FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

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2017—79,518,581; 2016—79,132,252)

Validus Holdings, Ltd. Consolidated Balance Sheets As at June 30, 2017 (unaudited) and December 31, 2016 (Expressed in thousands of U.S. dollars, except share and per share information) June 30, December 31, 2017 2016 (unaudited) Assets Fixed maturity investments trading, at fair value (amortized cost: 2017—\$5,424,562; \$5,418,643 \$5,543,030 2016—\$5,584,599) Short-term investments trading, at fair value (amortized cost: 2017—\$2,871,126; 2,871,353 2,796,170 2016—\$2,796,358) Other investments, at fair value (cost: 2017—\$416,996; 2016—\$380,130) 448,618 405,712 Investments in investment affiliates, equity method (cost: 2017—\$72,532; 2016—\$84,840)3,377 100,431 Cash and cash equivalents 419,976 800,405 Restricted cash 195,039 70,956 Total investments and cash 9,837,435 9,336,275 Premiums receivable 725,390 1,940,637 Deferred acquisition costs 209,227 302,857 Prepaid reinsurance premiums 335,837 77,996 Securities lending collateral 2,514 9,779 Loss reserves recoverable 600,207 430,421 Paid losses recoverable 35,675 35,247 Income taxes recoverable 4,763 4.870 Deferred tax asset 52,655 43,529 Receivable for investments sold 20,519 3,901 Intangible assets 175,518 115,592 Goodwill 227,701 196,758 Accrued investment income 26,968 26,488 Other assets 387,860 134,282 Total assets \$13,951,146 \$11,349,755 Liabilities Reserve for losses and loss expenses \$3,305,191 \$2,995,195 Unearned premiums 1,970,896 1,076,049 Reinsurance balances payable 54,781 461,261 Securities lending payable 2,980 10,245 Deferred tax liability 4,012 3.331 Payable for investments purchased 29,447 92,077 Accounts payable and accrued expenses 385,958 587,648 Notes payable to AlphaCat investors 278,202 1,066,159 Senior notes payable 245,463 245,362 Debentures payable 537,226 538,400 Total liabilities 8,072,397 5,817,486 Commitments and contingent liabilities Redeemable noncontrolling interests 1,251,660 1,528,001 Shareholders' equity Preferred shares (Issued and Outstanding: 2017—16,000; 2016—6,000) 400,000 150,000 Common shares (Issued: 2017—161,934,355; 2016—161,279,976; Outstanding:

28,224

28,339

Treasury shares (2017—82,415,774; 2016—82,147,724)	(14,423) (14,376)
Additional paid-in capital	807,321	821,023	
Accumulated other comprehensive loss	(19,924) (23,216)
Retained earnings	3,010,118	2,876,636	
Total shareholders' equity available to Validus	4,211,431	3,838,291	
Noncontrolling interests	415,658	165,977	
Total shareholders' equity	4,627,089	4,004,268	
Total liabilities, noncontrolling interests and shareholders' equity	\$13,951,146	\$11,349,75	5
The accompanying notes are an integral part of these unaudited consolidated financial statements.			

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Validus Holdings, Ltd.

Consolidated Statements of Income and Comprehensive Income

For the Three and Six Months Ended June 30, 2017 and 2016 (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

(Expressed in thousands of U.S. dollars, except share and per share	·		
	Three Months Ended	Six Months Ended June	
	June 30,	30,	
	2017 2016	2017 2016	
	(unaudited)	(unaudited)	
Revenues	,		
Gross premiums written	\$792,902 \$764,042	\$1,983,759 \$1,936,833	
Reinsurance premiums ceded) (256,328) (204,064)	
Net premiums written	736,680 727,813	1,727,431 1,732,769	
Change in unearned premiums	(105,653) (154,090) (521,028) (587,778)	
Net premiums earned	631,027 573,723	1,206,403 1,144,991	
Net investment income	44,241 39,257	84,455 68,718	
Net realized gains on investments	2,274 2,724	1,110 2,140	
Change in net unrealized gains on investments	16,321 31,428	29,669 78,872	
Income (loss) from investment affiliates	9,466 (589) 14,654 (4,702)	
Other insurance related income and other income	1,339 824	2,669 2,237	
Foreign exchange (losses) gains	(7,329) 6,286	(5,760) 12,531	
Total revenues	697,339 653,653	1,333,200 1,304,787	
Expenses			
Losses and loss expenses	296,149 307,130	565,734 531,577	
Policy acquisition costs	117,268 107,966	228,896 215,159	
General and administrative expenses	96,349 89,688	184,273 175,896	
Share compensation expenses	11,146 10,727	20,637 21,964	
Finance expenses	14,209 14,166	28,152 29,369	
Transaction expenses	4,427 —	4,427 —	
Total expenses	539,548 529,677	1,032,119 973,965	
Income before taxes, loss from operating affiliate and (income)	157,791 123,976	301,081 330,822	
attributable to AlphaCat investors	137,791 123,970	301,081 330,822	
Tax benefit (expense)	987 (1,706) 4,536 412	
Loss from operating affiliate		— (23)	
(Income) attributable to AlphaCat investors	(11,830) (6,114) (19,333) (10,714)	
Net income	\$146,948 \$116,156		
Net (income) attributable to noncontrolling interests	(43,650) (21,193) (86,222) (58,724)	
Net income available to Validus	103,298 94,963	200,062 261,773	
Dividends on preferred shares	(2,203) —	(4,406) —	
Net income available to Validus common shareholders	\$101,095 \$94,963	\$195,656 \$261,773	
Comprehensive income			
Net income	\$146,948 \$116,156	\$286,284 \$320,497	
Other comprehensive income (loss)	Ψ110,510 Ψ110,150	\$200,201 \$320,137	
Change in foreign currency translation adjustments	1,489 (3,287) 2,086 (5,315)	
Change in minimum pension liability, net of tax	1,184 479	1,252 396	
Change in fair value of cash flow hedge	(144) 64	(46) (694)	
Other comprehensive income (loss), net of tax	2,529 (2,744) 3,292 (5,613)	
Comprehensive (income) attributable to noncontrolling interests	* *) (86,222) (58,724)	
Comprehensive (income) attributable to holicolitorning interests Comprehensive income available to Validus	\$105,827 \$92,219	\$203,354 \$256,160	
comprehensive income available to validus	φ103,021 φ92,219	Ψ203,334 Φ230,100	

Earnings per common share				
Basic earnings per share available to Validus common shareholde	ers \$1.28	\$1.16	\$2.47	\$3.18
Earnings per diluted share available to Validus common shareholders	\$1.25	\$1.14	\$2.42	\$3.12
Cash dividends declared per common share	\$0.38	\$0.35	\$0.76	\$0.70

Weighted average number of common shares and common share equivalents outstanding:

Basic 79,270,561 81,950,833 79,202,116 82,386,047 Diluted 80,872,451 83,373,003 80,861,998 83,785,659

The accompanying notes are an integral part of these unaudited consolidated financial statements.

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Validus Holdings, Ltd.

Consolidated Statements of Shareholders' Equity

For the Six Months Ended June 30, 2017 and 2016 (unaudited)

(Expressed in thousands of U.S. dollars)

(Expressed in thousands of O.S. donars)	Six Months 30, 2017 (unaudited)	Ended June 2016	
Preferred shares	(unaudited)		
Balance, beginning of period	\$150,000	\$ —	
Preferred shares issued	250,000	150,000	
Balance, end of period	\$400,000	\$150,000	
Balance, end of period	ψ+00,000	Ψ150,000	
Common shares			
Balance, beginning of period	\$28,224	\$28,100	
Common shares issued, net	115	119	
Balance, end of period	\$28,339	\$28,219	
, 1	. ,	, ,	
Treasury shares			
Balance, beginning of period	\$(14,376)	\$(13,592))
Repurchase of common shares	(47	(492)
Balance, end of period	\$(14,423	\$(14,084))
Additional paid-in capital			
Balance, beginning of period	\$821,023	\$1,002,980	0
Offering expenses on preferred shares		(5,148)
Common shares redeemed, net	(12,076	(7,504)
Repurchase of common shares	(13,949	(128,591)
Share compensation expenses	20,637	21,964	
Balance, end of period	\$807,321	\$883,701	
Accumulated other comprehensive loss			
Balance, beginning of period	\$(23,216)	\$(12,569))
Other comprehensive income (loss)	3,292	(5,613)
Balance, end of period	\$(19,924)	\$(18,182))
Retained earnings			
Balance, beginning of period	\$2,876,636		6
Net income	286,284	320,497	
Net (income) attributable to noncontrolling interests		(58,724)
Dividends on preferred shares	(4,406) —	
Dividends on common shares	(62,174	(59,227)
Balance, end of period	\$3,010,118	\$2,836,602	2
m		42.055.5	
Total shareholders' equity available to Validus	\$4,211,431		б
Noncontrolling interests	\$415,658	\$212,154	0
Total shareholders' equity	\$4,627,089		
The accompanying notes are an integral part of these	e unaudited co	onsolidated i	financial statements.

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Validus Holdings, Ltd. Consolidated Statements of Cash Flows For the Six Months Ended June 30, 2017 and 2016 (unaudited) (Expressed in thousands of U.S. dollars) Six Months Ended June 30. 2017 2016 (unaudited) Cash flows provided by (used in) operating activities Net income \$286,284 \$320,497 Adjustments to reconcile net income to cash provided by (used in) operating activities: Share compensation expenses 20,637 21,964 Loss on deconsolidation of AlphaCat ILS fund 402 Amortization of discount on senior notes 54 54 (Income) loss from investment affiliates (14,654) 4,702 Net realized and change in net unrealized gains on investments (30,779)(81,012)Amortization of intangible assets 3,995 2,832 Loss from operating affiliate 23 Foreign exchange gains included in net income (9,686) (6,289 Amortization of premium on fixed maturity investments 7,012 8,710 Change in: Premiums receivable (648,195)(719,070)Deferred acquisition costs (97,746) (102,211) Prepaid reinsurance premiums (30,684) (67,575) Loss reserves recoverable (113,508) (95,429) Paid losses recoverable 17,500 (4,571)Reserve for losses and loss expenses 199,985 147,305 Unearned premiums 488,198 655,353 Reinsurance balances payable 111,488 18,610 Other operational balance sheet items, net (137,618) (34,450) Net cash provided by operating activities 52,685 69,443 Cash flows provided by (used in) investing activities Proceeds on sales of fixed maturity investments 1,632,371 1,376,077 Proceeds on maturities of fixed maturity investments 247,394 184,413 Purchases of fixed maturity investments (1,682,609 (1,537,606 Purchases of short-term investments, net (88,623) (428,040) Purchases of other investments, net (33,870) (19,796)

Distributions from (investments in) investment affiliates, net	11,708 (16,307)
Increase in restricted cash	(124,083) (22,752)
Purchase of subsidiary, net of cash acquired	(183,923) —
Net cash used in investing activities	(214,370) (469,003)
Cash flows provided by (used in) financing activities Net proceeds on issuance of notes payable to AlphaCat investors	269,645 294,748
Net proceeds on issuance of preferred shares	241,686 144,852
Redemption of common shares, net	(11,961) (7,385)

Decrease (increase) in securities lending collateral

Redemption from operating affiliates

7,265

(5,361)

369

)

Purchases of common shares under share repurchase program	(13,996)	(129,083)
Dividends paid on preferred shares	(4,406	—
Dividends paid on common shares	(63,286)	(59,961)
(Decrease) increase in securities lending payable	(7,265)	5,361
Third party investment in redeemable noncontrolling interests	210,200	381,250
Third party redemption of redeemable noncontrolling interests	(79,334)	(10,800)
Third party investment in noncontrolling interests	258,300	171,674
Third party distributions of noncontrolling interests	(96,125)	(127,103)
Third party subscriptions deployed in AlphaCat Funds and Sidecars	(171,952)	(411,336)
Net cash provided by financing activities	531,506	252,217
Effect of foreign currency rate changes on cash and cash equivalents	10,608	(6,968)
Net increase (decrease) in cash and cash equivalents	380,429	(154,311)
Cash and cash equivalents - beginning of period	419,976	723,109
Cash and cash equivalents - end of period	\$800,405	\$568,798
Supplemental disclosure of cash flow information:		
Taxes paid during the period	\$568	\$3,837
Interest paid during the period	\$27,186	\$27,552
The accompanying notes are an integral part of these unaudited consolidated financial st	atements.	

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

1. Basis of preparation and consolidation

These unaudited Consolidated Financial Statements (the "Consolidated Financial Statements") have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") for interim financial information and with the instructions to Form 10-Q and Article 10 in Regulation S-X. Accordingly, they do not include all of the information and footnotes required by U.S. GAAP for complete financial statements. In addition, the year-end balance sheet data was derived from audited financial statements but does not include all disclosures required by U.S. GAAP. This Quarterly Report on Form 10-Q should be read in conjunction with the financial statements and related notes included in Validus Holdings, Ltd.'s (the "Company") Annual Report on Form 10-K for the year ended December 31, 2016, as filed with the U.S. Securities and Exchange Commission (the "SEC").

The Company consolidates in these Consolidated Financial Statements the results of operations and financial position of all voting interest entities ("VOE") in which the Company has a controlling financial interest and all variable interest entities ("VIE") in which the Company is considered to be the primary beneficiary. The consolidation assessment, including the determination as to whether an entity qualifies as a VIE or VOE, depends on the facts and circumstances surrounding each entity.

In the opinion of management, these unaudited Consolidated Financial Statements reflect all adjustments (including normal recurring adjustments) considered necessary for a fair statement of the Company's financial position and results of operations as at the end of and for the periods presented. All significant intercompany accounts and transactions have been eliminated. The results of operations for any interim period are not necessarily indicative of the results for a full year.

The preparation of these financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. While management believes that the amounts included in the Consolidated Financial Statements reflect its best estimates and assumptions, actual results could differ materially from those estimates. The Company's principal estimates include:

- •reserve for losses and loss expenses;
- •premium estimates for business written on a line slip or proportional basis;
- •the valuation of goodwill and intangible assets;
- •reinsurance recoverable balances including the provision for uncollectible amounts; and
- •investment valuation of financial assets.

The term "ASC" used in these notes refers to Accounting Standard Codification issued by the United States Financial Accounting Standards Board (the "FASB").

2. Recent accounting pronouncements

Recently issued accounting standards not yet adopted

In May 2017, the FASB issued ASU 2017-09, "Compensation - Stock Compensation (Topic 718)." This ASU is directed at reducing diversity in practice when applying the accounting guidance to a change in the terms or conditions of a share-based payment award. The ASU is effective for fiscal periods beginning after December 15, 2017, and interim periods within those fiscal years. Early adoption is permitted, including adoption in an interim period. The Company has evaluated the impact of this guidance and it will not have a material impact on the Company's Consolidated Financial Statements. The Company plans to adopt this guidance on January 1, 2018.

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

3. Business combination

On May 1, 2017, Western World Insurance Group, Inc. ("Western World"), a wholly owned subsidiary of the Company acquired all of the outstanding capital stock of Crop Risk Services ("CRS") for an aggregate purchase price of \$185,576 in cash. CRS is a primary crop insurance managing general agent ("MGA") based in Decatur, Illinois with 1,170 agents across 36 states. CRS does not have insurance licenses of its own, but acts solely as an MGA in that it can produce business for any properly licensed entity on a commission basis. Concurrent with closing of the transaction, Stratford Insurance Company ("Stratford"), a wholly—owned subsidiary of Western World, was granted the required license to write crop insurance in the United States and executed several agreements to transfer the related agriculture book of business to Stratford.

The CRS acquisition was undertaken to complement the Company's existing agricultural business and expand the Company's presence in U.S. primary specialty lines.

For segmental reporting purposes, the results of CRS' operations, including the related agricultural book of business have been included within the Western World segment in the Consolidated Financial Statements from the date of acquisition.

On closing, the Company recorded intangible assets totaling \$63,921 for Distribution Channels, Brand Name and Technology. Distribution Channels and Brand Name were estimated to have finite useful economic lives of ten years on acquisition and are being amortized on a straight line basis over such period. Technology was estimated to have a finite useful economic life of two years on acquisition and is being amortized on a straight line basis over such a period.

The purchase price was allocated to the acquired assets and liabilities of CRS based on estimated fair values on May 1, 2017, the date the transaction closed, as detailed below. The Company recognized goodwill of \$30,943 primarily attributable to CRS's assembled workforce and synergies expected to result upon the integration of CRS and its related book of business into the Company's operations. The estimates of fair values for tangible assets acquired and liabilities assumed were determined by management based on various market and income analyses. The Company estimated the fair values of intangible assets acquired based on variations of the income and cost approaches. Significant judgment was required to arrive at these estimates of fair value and changes to assumptions used could have led to materially different results.

The purchase of CRS was a taxable transaction and as such, goodwill and intangibles recorded at closing will be deductible for income tax purposes. The Company has recognized and recorded a deferred tax asset of \$6,443 which results from the excess of tax-deductible goodwill over book goodwill as recognized in the purchase price allocation.

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

The fair value of net assets acquired, including GAAP adjustments, are summarized as follows:

Total 1	purchase 1	price	\$185,576

Assets acquired

Cash and cash equivalents	\$1,653
Premiums receivable	564,453
Prepaid reinsurance premiums	227,157
Other assets	157,146

Assets acquired 950,409

Liabilities acquired

Reinsurance balances payable \$294,201 Unearned premiums 406,649 Net loss reserves 42,575 Other liabilities 122,715

Liabilities acquired 866,140 Excess purchase price \$101,307

Goodwill and other intangible assets acquired

Intangible asset - Distribution channels	\$52,898
Intangible asset - Brand name	9,568
Intangible asset - Technology	1,455
Total intangible assets	63,921
Goodwill	30,943
Deferred tax arising on Goodwill	6,443

Total goodwill and intangible assets \$101,307

The Company also incurred transaction expenses related to the CRS acquisition of \$4,427. Transaction expenses included legal, financial advisory and audit related services.

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

The following tables reconcile the carrying amount of goodwill and intangible assets from December 31, 2016 to June 30, 2017:

00110 00, 2017.	~				
	Goodwill				
		nths Ended	June 30,		
	2017				
	Talbot	Western World	Total		
Balance at December 31, 2016	20,393	176,365	196,758		
Additions	_	30,943	30,943		
Balance at June 30, 2017	20,393	207,308	227,701		
	Intangih	ole assets			
	_	nths Ended	Juna 30		
	2017	itiis Elided	Julie 50,		
	Talbot	Western World	Total		
Balance at December 31, 2016	93,924	21,668	115,592		
Additions		63,921	63,921		
Amortization	(2,081)	(1,914)	(3,995)		
Balance at June 30, 2017	91,843	83,675	175,518		
	Intangib	le assets			
	Six Mor	nths Ended	June 30,		
	2017				
	With a	With an			
	Finite	Indefinite	Total		
	Life	Life			
Balance at December 31, 2016	11,424	104,168	115,592		
Additions	63,921	_	63,921		
Amortization	(3,995)	_	(3,995)		
Balance at June 30, 2017	71,350	104,168	175,518		
Operating regults of CDS have 1	haan inali	idad in tha	Consolidat		

Operating results of CRS have been included in the Consolidated Financial Statements from the May 1, 2017 acquisition date.

The following selected unaudited information has been provided to present a summary of the results of CRS that have been included in the Consolidated Financial Statements for the three and six months ended June 30, 2017.

been meraded in the Consolidated I maneral Statements for the tiny	oc and six ino
	From
	Acquisition
	Date to
	June 30,
	2017
Net premiums written	6,988
Net premiums earned	50,044
Total underwriting deductions	44,780
Underwriting income, before general and administrative expenses	5,264

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

4. Investments

Managed investments represent assets governed by the Company's investment policy statement ("IPS") whereas, non-managed investments represent assets held in support of consolidated AlphaCat VIEs which are not governed by the Company's IPS. Refer to Note 6, "Variable interest entities," for further details.

The Company classifies its fixed maturity and short-term investments as trading and accounts for its other investments in accordance with ASC Topic 825 "Financial Instruments." As such, all investments are carried at fair value with interest and dividend income and realized and unrealized gains and losses included in net income for the period.

The amortized cost (or cost) and fair value of the Company's investments as at June 30, 2017 and December 31, 2016 were as follows:

were as follows.	June 30, 2017		December 31, 2016	
	Amortized		Amortized	F . 17.1
	Cost or Cost	Fair Value	Cost or Cost	Fair Value
Managed investments				
U.S. government and government agency	\$649,214	\$646,436	\$809,392	\$804,126
Non-U.S. government and government agency	293,002	292,504	245,651	240,791
U.S. states, municipalities and political subdivisions	227,047	227,949	271,742	271,830
Agency residential mortgage-backed securities	786,784	783,006	684,490	679,595
Non-agency residential mortgage-backed securities	26,745	26,683	15,858	15,477
U.S. corporate	1,378,884	1,386,484	1,540,036	1,534,508
Non-U.S. corporate	380,317	379,480	418,520	410,227
Bank loans	560,446	552,901	579,121	570,399
Asset-backed securities	500,679	502,056	528,563	526,814
Commercial mortgage-backed securities	317,732	316,190	333,740	330,932
Total fixed maturities	5,120,850	5,113,689	5,427,113	5,384,699
Short-term investments	255,289	255,516	228,574	228,386
Other investments				
Fund of hedge funds	_	_	1,457	955
Hedge funds	11,292	18,303	11,292	17,381
Private equity investments	79,871	100,391	66,383	82,627
Fixed income investment funds	266,041	268,110	247,967	249,275
Overseas deposits	57,874	57,874	50,106	50,106
Mutual funds	1,918	3,940	2,925	5,368
Total other investments	416,996	448,618	380,130	405,712
Investments in investment affiliates (a)	72,532	103,377	84,840	100,431
Total managed investments	\$5,865,667	\$5,921,200	\$6,120,657	\$6,119,228
Non-managed investments				
Catastrophe bonds	\$303,712	\$304,954	\$157,486	\$158,331
Short-term investments	2,615,837	2,615,837	2,567,784	2,567,784
Total non-managed investments	2,919,549	2,920,791	2,725,270	2,726,115
Total investments	\$8,785,216	\$8,841,991	\$8,845,927	\$8,845,343

⁽a) The Company's investments in investment affiliates have been treated as equity method investments with the corresponding gains and losses recorded in

income as "Income (loss) from investment affiliates."

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

(a) Fixed maturity investments

The following table sets forth certain information regarding the investment ratings of the Company's fixed maturity investments as at June 30, 2017 and December 31, 2016.

	June 30, 20	17		December 31, 2016		
	Fair Value % of Total			Fair Value	% of T	otal
Managed fixed maturities						
AAA	\$2,318,254	42.8	%	\$2,405,597	43.4	%
AA	463,060	8.5	%	538,289	9.7	%
A	1,009,366	18.6	%	1,081,949	19.5	%
BBB	703,563	13.0	%	740,861	13.4	%
Total investment grade managed fixed maturities	4,494,243	82.9	%	4,766,696	86.0	%
BB	229,023	4.2	%	213,568	3.9	%
В	176,743	3.3	%	177,737	3.2	%
CCC	11,114	0.2	%	13,371	0.2	%
NR	202,566	3.8	%	213,327	3.8	%
Total non-investment grade fixed maturities	619,446	11.5	%	618,003	11.1	%
Total managed fixed maturities	\$5,113,689	94.4	%	\$5,384,699	97.1	%
Non-managed fixed maturities						
BB	28,177	0.4	%	29,731	0.6	%
В	2,781	0.1	%	4,524	0.1	%
NR	273,996	5.1	%	124,076	2.2	%
Total non-managed fixed maturities	304,954	5.6	%	158,331	2.9	%
Total fixed maturities	\$5,418,643	100.0	%	\$5,543,030	100.0	%

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

The amortized cost and fair value amounts for the Company's fixed maturity investments held at June 30, 2017 and December 31, 2016 are shown below by contractual maturity. Actual maturity may differ from contractual maturity because certain borrowers may have the right to call or prepay certain obligations with or without call or prepayment penalties.

	June 30, 2017		December 31, 2016		
	Amortized (Dosoir Value	Amortized (Domair Value	
Managed fixed maturities					
Due in one year or less	\$497,473	\$492,256	\$350,733	\$346,161	
Due after one year through five years	2,464,093	2,461,870	2,954,856	2,933,146	
Due after five years through ten years	456,793	459,311	430,365	426,647	
Due after ten years	70,551	72,317	128,508	125,927	
	3,488,910	3,485,754	3,864,462	3,831,881	
Asset-backed and mortgage-backed securities	1,631,940	1,627,935	1,562,651	1,552,818	
Total managed fixed maturities	\$5,120,850	\$5,113,689	\$5,427,113	\$5,384,699	
Non-managed catastrophe bonds					
Due in one year or less	\$33,662	\$32,441	\$43,664	\$45,418	
Due after one year through five years	263,300	265,735	112,572	111,656	
Due after five years through ten years	6,750	6,778	1,250	1,257	
Due after ten years					
Total non-managed fixed maturities	303,712	304,954	157,486	158,331	
Total fixed maturities	\$5,424,562	\$5,418,643	\$5,584,599	\$5,543,030	

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

(b) Other investments

The following tables set forth certain information regarding the Company's other investment portfolio as at June 30, 2017 and December 31, 2016:

2017 and December 31, 2010).				
	June 30, 2	2017			
		Investments	Investments	}	
	Fair	with	without	Redemption frequency	Redemption notice period
	Value	redemption	redemption	(a)	(a)
		restrictions	restrictions		
Hedge funds	18,303	18,303	_		
Private equity investments	100,391	100,391	_		
Fixed income investment	260 110	227.006	20.124	D '1	D 11 (2.1
funds	268,110	237,986	30,124	Daily	Daily to 2 days
Overseas deposits	57,874	57,874			
Mutual funds	3,940		3,940	Daily	Daily
Total other investments	\$448,618	\$ 414,554	\$ 34,064	•	•
	December	31, 2016			
	December	•	Investments	;	
	December Fair	•	Investments without	Redemption frequency	Redemption notice period
		Investments with		Redemption frequency	Redemption notice period (a)
	Fair	Investments with redemption	without	Redemption frequency	
Fund of hedge funds	Fair	Investments with redemption	without redemption	Redemption frequency	
Fund of hedge funds Hedge funds	Fair Value	Investments with redemption restrictions	without redemption restrictions	Redemption frequency	
C	Fair Value \$955	Investments with redemption restrictions \$ 955	without redemption restrictions	Redemption frequency	
Hedge funds	Fair Value \$955 17,381 82,627	Investments with redemption restrictions \$ 955 17,381 82,627	without redemption restrictions \$ — — —	Redemption frequency (a)	(a) T
Hedge funds Private equity investments	Fair Value \$955 17,381	Investments with redemption restrictions \$ 955 17,381	without redemption restrictions	Redemption frequency	
Hedge funds Private equity investments Fixed income investment	Fair Value \$955 17,381 82,627	Investments with redemption restrictions \$ 955 17,381 82,627	without redemption restrictions \$ — — —	Redemption frequency (a)	(a) T
Hedge funds Private equity investments Fixed income investment funds	Fair Value \$955 17,381 82,627 249,275	Investments with redemption restrictions \$ 955 17,381 82,627 218,333	without redemption restrictions \$ — — —	Redemption frequency (a)	(a) T

(a) The redemption frequency and notice periods only apply to investments without redemption restrictions.

Other investments include alternative investments in various funds and pooled investment schemes. These alternative investments employ various investment strategies primarily involving, but not limited to, investments in collateralized obligations, fixed income securities, private equities, distressed debt and equity securities.

Certain securities included in other investments are subject to redemption restrictions and are unable to be redeemed from the funds. Distributions from these funds will be received as the underlying investments of the funds are liquidated. Currently, it is not known to the Company when these underlying assets will be sold by their investment managers; however, it is estimated that the majority of the underlying assets of the investments would liquidate over five to ten years from inception of the funds. In addition, one of the investment funds with a fair value of \$192,437 (December 31, 2016: \$184,749), has a lock-up period of approximately two years as at June 30, 2017 and may also impose a redemption gate. A lock-up period refers to the initial amount of time an investor is contractually required to remain invested before having the ability to redeem. Typically, the imposition of a gate delays a portion of the requested redemption, with the remaining portion settled in cash shortly after the redemption date. The underlying investments held in the overseas deposit funds are liquid and will generally trade freely in an open market. However, the Company's ability to withdraw from the overseas deposit funds is restricted by an annual and quarterly funding and release process for Lloyd's market participants.

The Company's maximum exposure to any of these alternative investments is limited to the amount invested and any remaining capital commitments. Refer to Note 15, "Commitments and contingencies," for further details. As at June 30, 2017, the Company does not have any plans to sell any of the other investments listed above.

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

(c) Investments in investment affiliates

Included in the Company's managed investment portfolio as at June 30, 2017 were investments in Aquiline Financial Services Fund II L.P. ("Aquiline III"), Aquiline Financial Services Fund III L.P. ("Aquiline III") and Aquiline Technology Growth Fund L.P. ("Aquiline Tech").

Aquiline II and III

For further information regarding Aquiline II and III please refer to Note 7(c), "Investments in investment affiliates," included within the Company's Annual Report on Form 10-K for the year ended December 31, 2016. As at June 30, 2017, the Company's total unfunded investment commitment to Aquiline II and III was \$3,229 and \$62,031, respectively (December 31, 2016: \$2,040 and \$62,031).

Aquiline Tech

On March 20, 2017, the Company entered into a Subscription Agreement (the "Subscription Agreement") with Aquiline Technology Growth GP Ltd, (the "General Partner") pursuant to which the Company committed and agreed to purchase limited partnership or other comparable limited liability equity interests in Aquiline Tech, a Cayman Islands exempted limited partnership, with a capital commitment in an amount equal to \$20,000. The limited partnership interests are governed by the terms of an amended and restated exempted limited partnership agreement. As at June 30, 2017, the unfunded investment commitment to Aquiline Tech was \$18,786.

The following table presents a reconciliation of the Company's beginning and ending investments in investment affiliates for the three and six months ended June 30, 2017 and 2016:

	Three Months Ended Six Months Ended				
	June 30,		June 30,		
	2017	2016	2017	2016	
Investments in investment affiliates, beginning of period	\$94,697	\$84,135	\$100,431	\$87,673	
Net capital (distributions) contributions	(786)	15,732	(11,708)	16,307	
Income (loss) from investment affiliates	9,466	(589)	14,654	(4,702)	
Investments in investment affiliates, end of period	\$103,377	\$99,278	\$103,377	\$99,278	

The following table presents the Company's investments in investment affiliates as at June 30, 2017 and December 31, 2016:

2016:			
	June 30, 2017		
	Investment ownershif at cost %	Equity p ownership %	Carrying value
Aquiline II	\$33,349 -%	8.1 %	\$52,010
Aquiline III	37,969 <i>—</i> %	9.0 %	50,153
Aquiline Tech	1,214 -%	16.4 %	1,214
Total investments in investment affiliates	\$72,532		\$103,377
	December 31, 201	6	
	Investment ownershi at cost %	Equity p ownership %	Carrying value

Aquiline II	\$46,871 -%	8.1	%	\$61,999
Aquiline III	37,969 -%	9.0	%	38,432
Total investments in investment affiliates	\$84,840			\$100,431

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

(d) Net investment income

Net investment income was derived from the following sources:

	Three Months		Six Months Ended	
	Ended June 30,		June 30,	
	2017	2016	2017	2016
Managed investments				
Fixed maturities and short-term investments	\$31,312	\$30,621	\$62,983	\$58,638
Other investments	7,571	8,026	14,441	8,898
Cash and cash equivalents and restricted cash	616	380	1,226	1,245
Securities lending income	7	12	20	17
Total gross investment income	39,506	39,039	78,670	68,798
Investment expenses	(1,443)	(2,190)	(4,415)	(4,026)
Total managed net investment income	\$38,063	\$36,849	\$74,255	\$64,772
Non managed investments				
Fixed maturities and short-term investments	\$4,500	\$1,977	\$7,560	\$3,272
Restricted cash, cash and cash equivalents	1,678	431	2,640	674
Total non-managed net investment income	6,178	2,408	10,200	3,946
Total net investment income	\$44,241	\$39,257	\$84,455	\$68,718

Net investment income from other investments includes distributed and undistributed net income from hedge funds, overseas deposits and certain fixed income investment funds.

(e) Net realized and change in net unrealized gains on investments

The following table sets forth an analysis of net realized gains and the change in net unrealized gains on investments:

	Three Months		Six Months Ended	
	Ended June 30,		June 30,	
	2017	2016	2017	2016
Managed fixed maturities, short-term and other investments				
Gross realized gains	\$5,175	\$3,306	\$7,865	\$6,523
Gross realized (losses)	(2,906)	(786)	(8,488)	(5,089)
Net realized gains (losses) on investments	2,269	2,520	(623)	1,434
Change in net unrealized gains on investments	15,942	30,052	30,291	77,130
Total net realized and change in net unrealized gains on managed	\$18,211	\$32,572	\$29,668	\$78,564
investments	φ10,211	\$32,372	\$29,000	\$ 76,304
Non-managed fixed maturities, short-term and other investments				
Gross realized gains	\$5	\$204	\$1,733	\$715
Gross realized (losses)				(9)
Net realized gains on investments	5	204	1,733	706
Change in net unrealized gains (losses) on investments	379	1,376	(622)	1,742
Total net realized and change in net unrealized gains on non-managed investments	384	1,580	1,111	2,448
Total net realized and change in net unrealized gains on total investments	\$18,595	\$34,152	\$30,779	\$81,012

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

(f) Pledged cash and investments

As at June 30, 2017, the Company had \$5,221,174 (December 31, 2016: \$5,173,966) of cash and cash equivalents, restricted cash, short-term investments and fixed maturity investments that were pledged during the normal course of business. Of those, \$5,156,173 were held in trust (December 31, 2016: \$5,068,092). Pledged assets are generally for the benefit of the Company's cedants and policyholders, to support AlphaCat's fully collateralized reinsurance transactions and to facilitate the accreditation of Validus Reinsurance, Ltd., Validus Reinsurance (Switzerland) Ltd. ("Validus Re Swiss") and Talbot as an alien Insurer/Reinsurer by certain regulators.

In addition, the Company has pledged cash and investments as collateral under the Company's credit facilities in the total amount of \$404,516 (December 31, 2016: \$442,184). For further details on the credit facilities, please refer to Note 13, "Debt and financing arrangements."

5. Fair value measurements

(a) Classification within the fair value hierarchy

Fair value is defined as the price to sell an asset or transfer a liability in an orderly transaction between market participants. Under U.S. GAAP, a company must determine the appropriate level in the fair value hierarchy for each fair value measurement. The fair value hierarchy prioritizes the inputs, which refer broadly to assumptions market participants would use in pricing an asset or liability, into three levels. It gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities and the lowest priority to unobservable inputs. The level in the fair value hierarchy within which a fair value measurement in its entirety falls is determined based on the lowest level input that is significant to the fair value measurement in its entirety.

The three levels of the fair value hierarchy are described below:

Level 1 - Fair values are measured based on unadjusted quoted prices in active markets for identical assets or liabilities that we have the ability to access.

Level 2 - Fair values are measured based on quoted prices in active markets for similar assets or liabilities, quoted prices for identical assets or liabilities in inactive markets, or for which significant inputs are observable (e.g., interest rates, yield curves, prepayment speeds, default rates, loss severities, etc.) or can be corroborated by observable market data.

Level 3 - Fair values are measured based on inputs that are unobservable and significant to the overall fair value measurement. The unobservable inputs reflect the Company's own judgments about assumptions where there is little, if any, market activity for that asset or liability that market participants might use.

The availability of observable inputs can vary from financial instrument to financial instrument and is affected by a wide variety of factors including, for example, the type of financial instrument, whether the financial instrument is new and not yet established in the marketplace, and other characteristics particular to the instrument. To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires significantly more judgment.

Accordingly, the degree of judgment exercised by management in determining fair value is greatest for instruments categorized in Level 3. In periods of market dislocation, the observability of prices and inputs may be reduced for many instruments. This may lead the Company to change the selection of our valuation technique (for example, from market to cash flow approach) or to use multiple valuation techniques to estimate the fair value of a financial instrument. These circumstances could cause an instrument to be reclassified between levels within the fair value hierarchy.

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

At June 30, 2017, the Company's investments were allocated between Levels 1, 2 and 3 as follows:

Managed investments	Level 1	Level 2	Level 3	Fair value based on NAV practical expedient (a)	Total
U.S. government and government agency	\$ —	\$646,436	\$ —	\$ —	\$646,436
Non-U.S. government and government agency		292,504	_	-	292,504
U.S. states, municipalities and political subdivisions		227,949	_		227,949
Agency residential mortgage-backed securities		783,006	_		783,006
Non-agency residential mortgage-backed securities		26,683			26,683
U.S. corporate		1,386,484	_		1,386,484
Non-U.S. corporate		379,480			379,480
Bank loans		328,729	224,172		552,901
Asset-backed securities	_	466,135	35,921	_	502,056
Commercial mortgage-backed securities	_	316,190	_	_	316,190
Total fixed maturities	_	4,853,596	260,093	_	5,113,689
Short-term investments	248,439	7,077	_	_	255,516
Other investments	-,	.,			,-
Hedge funds				18,303	18,303
Private equity investments				100,391	100,391
Fixed income investment funds		30,137	16,400	221,573	268,110
Overseas deposits				57,874	57,874
Mutual funds		3,940	_	_	3,940
Total other investments		34,077	16,400	398,141	448,618
Investments in investment affiliates (b)		_	_		103,377
Total managed investments	\$248,439	\$4,894,750	\$276,493	\$ 398,141	\$5,921,200
Non-managed investments					
Catastrophe bonds	\$ —	\$236,929	\$68,025	\$ —	\$304,954
Short-term investments	2,615,837	_		_	2,615,837
Total non-managed investments	2,615,837	236,929	68,025	_	2,920,791
Total investments	\$2,864,276	\$5,131,679	\$344,518	\$ 398,141	\$8,841,991

In accordance with ASC Topic 820 "Fair Value Measurements," investments measured at fair value using the net (a) asset value ("NAV") per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy.

⁽b) In accordance with ASC Topic 825 "Financial Instruments," the Company's investments in investment affiliates have not been classified in the fair value hierarchy.

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

At December 31, 2016, the Company's investments were allocated between Levels 1, 2 and 3 as follows:

	Level 1	Level 2	Level 3	Fair value based on NAV practical expedient (a)	Total
Managed investments		*	Φ.	Δ.	****
U.S. government and government agency	\$ —	\$804,126	\$ —	\$ —	\$804,126
Non-U.S. government and government agency		240,791	_	_	240,791
U.S. states, municipalities and political subdivisions		271,830			271,830
Agency residential mortgage-backed securities		679,595			679,595
Non-agency residential mortgage-backed securities		15,477	_	_	15,477
U.S. corporate		1,534,508	_	_	1,534,508
Non-U.S. corporate		410,227			410,227
Bank loans		323,903	246,496		570,399
Asset-backed securities		502,883	23,931		526,814
Commercial mortgage-backed securities		330,932		_	330,932
Total fixed maturities		5,114,272	270,427	_	5,384,699
Short-term investments	209,651	18,735	_	_	228,386
Other investments					
Fund of hedge funds		_	_	955	955
Hedge funds			_	17,381	17,381
Private equity investments		_	_	82,627	82,627
Fixed income investment funds		30,941	12,168	206,166	249,275
Overseas deposits		_	_	50,106	50,106
Mutual funds		5,368	_	_	5,368
Total other investments		36,309	12,168	357,235	405,712
Investments in investment affiliates (b)			_	_	100,431
Total managed investments	\$209,651	\$5,169,316	\$282,595	\$357,235	\$6,119,228
Non-managed investments					
Catastrophe bonds	\$ —	\$109,956	\$48,375	\$ —	\$158,331
Short-term investments	2,567,784			_	2,567,784
Total non-managed investments	2,567,784	109,956	48,375	_	2,726,115
Total investments	\$2,777,435	\$5,279,272	\$330,970	\$357,235	\$8,845,343

In accordance with ASC Topic 820 "Fair Value Measurements," investments measured at fair value using the net (a) asset value ("NAV") per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy.

There have been no material changes in the Company's valuation techniques during the period, or periods, represented by these Consolidated Financial Statements. The following methods and assumptions were used in estimating the fair

⁽b) In accordance with ASC Topic 825 "Financial Instruments," the Company's investments in investment affiliates have not been classified in the fair value hierarchy.

At June 30, 2017, managed Level 3 investments totaled \$276,493 (December 31, 2016: \$282,595), representing 4.7% (December 31, 2016: 4.6%) of total managed investments.

⁽b) Valuation techniques

value of each class of financial instrument recorded in the Consolidated Balance Sheets.

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

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Fixed maturity investments

In general, valuation of the Company's fixed maturity investment portfolio is provided by pricing services, such as index providers and pricing vendors, as well as broker quotations. The pricing vendors provide valuations for a high volume of liquid securities that are actively traded. For securities that do not trade on an exchange, the pricing services generally utilize market data and other observable inputs in matrix pricing models to determine month end prices. Prices are generally verified using third party data. Securities which are priced by an index provider are generally included in the index.

In general, broker-dealers value securities through their trading desks based on observable inputs. The methodologies include mapping securities based on trade data, bids or offers, observed spreads, and performance on newly issued securities. Broker-dealers also determine valuations by observing secondary trading of similar securities. Prices obtained from broker quotations are considered non-binding, however they are based on observable inputs and by observing secondary trading of similar securities obtained from active, non-distressed markets. The Company considers these Level 2 inputs as they are corroborated with other market observable inputs. The techniques generally used to determine the fair value of the Company's fixed maturity investments are detailed below by asset class. U.S. government and government agency

U.S. government and government agency securities consist primarily of debt securities issued by the U.S. Treasury and mortgage pass-through agencies such as the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation and the Government National Mortgage Association. Fixed maturity investments included in U.S. government and government agency securities are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources and integrate other observations from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The fair value of each security is individually computed using analytical models which incorporate option adjusted spreads and other daily interest rate data. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Non-U.S. government and government agency

Non-U.S. government and government agency securities consist of debt securities issued by non-U.S. governments and their agencies along with supranational organizations (also known as sovereign debt securities). Securities held in these sectors are primarily priced by pricing services who employ proprietary discounted cash flow models to value the securities. Key quantitative inputs for these models are daily observed benchmark curves for treasury, swap and high issuance credits. The pricing services then apply a credit spread for each security which is developed by in-depth and real time market analysis. For securities in which trade volume is low, the pricing services utilize data from more frequently traded securities with similar attributes. These models may also be supplemented by daily market and credit research for international markets. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

U.S. states, municipalities and political subdivisions

The Company's U.S. states, municipalities and political subdivisions portfolio contains debt securities issued by U.S. domiciled state and municipal entities. These securities are generally priced by independent pricing services using the techniques described for U.S. government and government agency securities described above. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2. Agency residential mortgage-backed securities

The Company's agency residential mortgage-backed investments are primarily priced by pricing services using a mortgage pool specific model which utilizes daily inputs from the active to be announced ("TBA") market which is very liquid, as well as the U.S. treasury market. The model also utilizes additional information, such as the weighted average maturity, weighted average coupon and other available pool level data which is provided by the sponsoring agency. Valuations are also corroborated with daily active market quotes. As the significant inputs used to price these

securities are observable, the fair value of these investments are classified as Level 2.

Non-agency residential mortgage-backed securities

The Company's non-agency mortgage-backed investments include non-agency prime residential mortgage-backed fixed maturity investments. The Company has no fixed maturity investments classified as sub-prime held in its fixed maturity investments portfolio. Securities held in these sectors are primarily priced by pricing services using an option adjusted spread model or other

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

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relevant models, which principally utilize inputs including benchmark yields, available trade information or broker quotes, and issuer spreads. The pricing services also review collateral prepayment speeds, loss severity and delinquencies among other collateral performance indicators for the securities valuation, when applicable. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

U.S. corporate

Corporate debt securities consist primarily of investment-grade debt of a wide variety of U.S. corporate issuers and industries. The Company's corporate fixed maturity investments are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources regarding the issuer of the security and obtain credit data, as well as other observations, from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The pricing services also consider the specific terms and conditions of the securities, including any specific features which may influence risk. In certain instances, securities are individually evaluated using a spread which is added to the U.S. treasury curve or a security specific swap curve as appropriate. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Non-U.S. corporate

Non-U.S. corporate debt securities consist primarily of investment-grade debt of a wide variety of non-U.S. corporate issuers and industries. The Company's non-U.S. corporate fixed maturity investments are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources regarding the issuer of the security and obtain credit data, as well as other observations, from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The pricing services also consider the specific terms and conditions of the securities, including any specific features which may influence risk. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Bank loans

The Company's bank loan investments consist primarily of below-investment-grade debt of a wide variety of corporate issuers and industries. The Company's bank loans are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources regarding the issuer of the security and obtain credit data, as well as other observations, from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The pricing services also consider the specific terms and conditions of the securities, including any specific features which may influence risk. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Also, included in the bank loan portfolio is a collection of loan participations held through an intermediary. A third party pricing service provides monthly valuation reports for each loan and participation using a combination of quotations from loan pricing services, leveraged loan indices or market price quotes obtained directly from the intermediary. Significant unobservable inputs used to price these securities include credit spreads and default rates; therefore, the fair value of these investments are classified as Level 3.

Asset-backed securities

Asset backed securities include mostly investment-grade debt securities backed by pools of loans with a variety of underlying collateral, including automobile loan receivables, student loans, credit card receivables, and collateralized loan obligations originated by a variety of financial institutions. Securities held in these sectors are primarily priced by pricing services. The pricing services apply dealer quotes and other available trade information such as bids and offers, prepayment speeds which may be adjusted for the underlying collateral or current price data, the U.S. treasury curve and swap curve as well as cash settlement. The pricing services determine the expected cash flows for each

security held in this sector using historical prepayment and default projections for the underlying collateral and current market data. In addition, a spread is applied to the relevant benchmark and used to discount the cash flows noted above to determine the fair value of the securities held in this sector. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2. Where pricing is unavailable from pricing services, we obtain non-binding quotes from broker-dealers. This is generally the case when there is a low volume of trading activity and current transactions are not orderly. Broker-dealer quotes for which significant observable inputs are unable to be corroborated with market observable information are classified as Level 3.

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Commercial mortgage-backed securities

Commercial mortgage backed securities are investment-grade debt primarily priced by pricing services. The pricing services apply dealer quotes and other available trade information such as bids and offers, prepayment speeds which may be adjusted for the underlying collateral or current price data, the U.S. treasury curve and swap curve as well as cash settlement. The pricing services determine the expected cash flows for each security held in this sector using historical prepayment and default projections for the underlying collateral and current market data. In addition, a spread is applied to the relevant benchmark and used to discount the cash flows noted above to determine the fair value of the securities held in this sector. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Catastrophe bonds

Catastrophe bonds are priced based on broker or underwriter bid indications. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2. To the extent that these indications are based on significant unobservable inputs, the fair value of the relevant bonds will be classified as a Level 3.

Short-term investments

Short-term investments consist primarily of highly liquid securities, all with maturities of less than one year from the date of purchase. The fair value of the portfolio is generally determined using amortized cost which approximates fair value. As the highly liquid money market-type funds are actively traded, the fair value of these investments are classified as Level 1. To the extent that the remaining securities are not actively traded due to their approaching maturity, the fair value of these investments are classified as Level 2.

Other investments

Fund of hedge funds

During the three months ended June 30, 2017, the Company's investment in a fund of hedge funds was liquidated. Prior to liquidation, the fund's administrator provided a monthly reported NAV with a three month delay in its valuation. The fund manager provided an estimate of the fund NAV at year end based on the estimated performance provided from the underlying funds. To determine the reasonableness of the estimated NAV, the Company compared the fund administrator's NAV to the fund manager's estimated NAV that incorporates relevant valuation sources. Prior to liquidation, the fair value of these investments were measured using the NAV practical expedient and therefore were not categorized within the fair value hierarchy.

Hedge funds

The hedge fund investment was assumed by the Company in the acquisition of Flagstone Reinsurance Holdings, S.A. ("Flagstone") (the "Flagstone hedge fund"). The Flagstone hedge fund's administrator provides quarterly NAVs with a three month delay in valuation. The fair value of this investment is measured using the NAV practical expedient and therefore has not been categorized within the fair value hierarchy.

Private equity investments

The private equity funds provide quarterly or semi-annual partnership capital statements with a three or six month delay which are used as a basis for valuation. These private equity investments vary in investment strategies and are not actively traded in any open markets. The fair value of these investments are measured using the NAV practical expedient and therefore have not been categorized within the fair value hierarchy.

Fixed income investment funds

The Company's investment funds classified as Level 2 consist of a pooled investment fund. The pooled investment is invested in fixed income securities with high credit ratings and is only open to Lloyd's Trust Fund participants. The fair value of units in the investment fund is based on the NAV of the fund and is traded on a daily basis. Included in investment funds is a residual equity tranche of a structured credit fund valued using a dynamic yield that calculates an income accrual based on an underlying valuation model with a typical cash flow waterfall structure.

Significant unobservable inputs used to price this fund include default rates and prepayment rates; therefore, the fair value of the investment fund is classified as Level 3.

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The fair value of the Company's remaining investment funds is based on the NAV of the fund as reported by the independent fund administrator. The fund's administrators provide a monthly reported NAV with a one or three month delay in their valuation. The fair value of these investments are measured using the NAV practical expedient and therefore have not been categorized within the fair value hierarchy.

Overseas deposits

The Company's share of a portfolio of Lloyd's overseas deposits are managed centrally by Lloyd's and invested according to local regulatory requirements. The composition of the portfolio varies and the deposits are made across the market. The fair value of the deposits is based on the portfolio level reporting that is provided by Lloyd's. The fair value of these investments are measured using the NAV practical expedient and therefore have not been categorized within the fair value hierarchy.

Mutual funds

Mutual funds consist of an investment fund which invests in various quoted investments. The fair value of units in the mutual fund is based on the NAV of the fund as reported by the fund manager. The mutual fund has daily liquidity which allows us to redeem our holdings at the applicable NAV in the near term. As such, the Company has classified this investment as Level 2.

(c) Level 3 investments

The following table presents a reconciliation of the beginning and ending balances for all investments measured at fair value on a recurring basis using Level 3 inputs during the three and six months ended June 30, 2017 and 2016:

	Three Months Ended June 30, 2017					
	Bank Loans	Catastrophe Bonds	Fixed Income Investment Funds	Asset Backed Securities	Total	
Level 3 investments, beginning of period	\$236,694	\$ 72,676	\$ 12,560	\$23,882	\$345,812	
Purchases	16,757	5,000	3,432	11,053	36,242	
Sales	_	_	_	(53)	(53)	
Settlements	(28,893)	(10,216)	408		(38,701)	
Net realized gains	_	216	_		216	
Change in net unrealized (losses) gains	(386)	349		49	12	
Amortization	_			990	990	
Level 3 investments, end of period	\$224,172	\$ 68,025	\$ 16,400	\$35,921	\$344,518	
	Three Mon	ths Ended Ju	ine 30, 2016			
	Bank Loans	Catastrophe Bonds	Asset Backed Securities	Total		
Level 3 investments, beginning of period	\$255,011	\$ 37,105	\$ <i>—</i>	\$292,116		
Purchases	8,885	_	12,383	21,268		
Settlements	(17,784)	_	_	(17,784)		
Change in net unrealized (losses) gains	(2,964)	413	_	(2,551)		
Level 3 investments, end of period	\$243,148	\$ 37,518	\$ 12,383	\$293,049		

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	Six Months Ended June 30, 2017				
	Bank Loans	Catastrophe Bonds	Fixed Income Investment Funds	Asset Backed Securities	Total
Level 3 investments—beginning of peri	o\$1246,496	\$ 48,375	\$ 12,168	\$23,931	\$330,970
Purchases	39,933	66,091	3,432	11,053	120,509
Sales	_		_	(53)	(53)
Settlements	(62,003)	(48,996)	800		(110,199)
Net realized gains		3,350	_		3,350
Change in net unrealized (losses)	(254)	(795)	_		(1,049)
Amortization			_	990	990
Level 3 investments—end of period	\$224,172	\$ 68,025	\$ 16,400	\$35,921	\$344,518
	Six Month	s Ended June	30, 2016		
	Bank Loans	Catastrophe Bonds	Asset Backed Securities	Total	
Level 3 investments—beginning of peri	o\$1232,337	\$ 13,500	\$ <i>—</i>	\$245,837	
Purchases	50,988	23,272	12,383	86,643	
Sales	(2,389)		_	(2,389)	
Settlements	(34,033)	(125)	_	(34,158)	
Change in net unrealized (losses) gains	(3,755)	871	_	(2,884)	
Level 3 investments—end of period	\$243,148	\$ 37,518	\$ 12,383	\$293,049	1 11 2

There have not been any transfers into or out of Level 3 during the three and six months ended June 30, 2017 or 2016. (d) Financial instruments not carried at fair value

ASC Topic 825 "Financial Instruments" is also applicable to disclosures of financial instruments not carried at fair value, except for certain financial instruments, including insurance contracts and investments in affiliates. The carrying values of cash and cash equivalents, restricted cash, accrued investment income, other assets, net payable for investments purchased and accounts payable and accrued expenses approximated their fair values at June 30, 2017, due to their respective short maturities. As these financial instruments are not actively traded, their respective fair values are classified within Level 2.

6. Variable interest entities

The Company consolidates all VOEs in which it has a controlling financial interest and all VIEs in which it is considered to be the primary beneficiary. The Company's VIEs are primarily entities in the AlphaCat segment. (a) Consolidated VIEs

AlphaCat sidecars

Beginning on May 25, 2011, the Company joined with other investors in capitalizing a series of sidecars for the purpose of investing in collateralized reinsurance and retrocessional contracts. Certain of these sidecars deployed their capital through transactions entered into by AlphaCat Reinsurance Ltd. ("AlphaCat Re"). Each of these entities return capital once the risk period expires and all losses have been paid out. The AlphaCat sidecars are VIEs and are consolidated by the Company as the primary beneficiary. The Company's maximum exposure to any of the sidecars is the amount of capital invested at any given time.

AlphaCat ILS funds

The AlphaCat ILS funds received third party subscriptions beginning on December 17, 2012. The Company and third party investors invest in the AlphaCat ILS funds for the purpose of investing in instruments with returns linked to property catastrophe reinsurance, retrocession and ILS contracts. The AlphaCat ILS funds have varying risk profiles and are categorized by the expected loss of the fund. Expected loss represents the average annual loss over the set of simulation scenarios divided by the total limit. Lower risk ILS funds are defined as having a maximum permitted portfolio expected loss of less than 7%, whereas higher risk ILS

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funds have a maximum permitted portfolio expected loss of greater than 7%. The AlphaCat ILS funds primarily deploy their capital through transactions entered into by AlphaCat Re and AlphaCat Master Fund Ltd. ("AlphaCat Master Fund"). All of the AlphaCat ILS funds are VIEs and were consolidated by the Company as the primary beneficiary through May 31, 2017. However, on June 1, 2017, the Company redeemed its investment in one of the lower risk AlphaCat ILS funds. As a result, the Company was no longer deemed to be the primary beneficiary and therefore this fund was deconsolidated effective June 1, 2017. The deconsolidation resulted in a loss of \$402 which is included in the Consolidated Statements of Comprehensive Income as other insurance related income for the three and six months ended June 30, 2017. The Company's maximum exposure to any of the funds is the amount of capital invested at any given time and any remaining capital commitments. Refer to Note 15, "Commitments and contingencies," for further details.

AlphaCat Re and AlphaCat Master Fund

The Company utilizes AlphaCat Re and AlphaCat Master Fund (collectively the "master funds"), both market facing entities, for the purpose of writing collateralized reinsurance and investing in capital markets products, respectively, on behalf of certain entities within the AlphaCat segment and direct third party investors. AlphaCat Re enters into transactions on behalf of the AlphaCat sidecars and ILS funds (collectively the "feeder funds") and direct third party investors, whereas AlphaCat Master Fund only enters into transactions on behalf of certain AlphaCat ILS funds. All of the risks and rewards of the underlying transactions are allocated to the feeder funds and direct third party investors using variable funding notes. The master funds are VIEs and are consolidated by the Company as the primary beneficiary.

Notes Payable to AlphaCat Investors

The master funds issue variable funding notes to the feeder funds, and direct to third party investors, in order to write collateralized reinsurance and invest in capital markets products on their behalf. The Company's investments in the feeder funds, together with investments made by third parties in the feeder funds and on a direct basis, are provided as consideration for the notes to the master funds. The duration of the underlying collateralized reinsurance contracts and capital market products is typically twelve months; however, the variable funding notes do not have a stated maturity date or principal amount since repayment is dependent on the settlement and income or loss of the underlying transactions. Therefore, the notes are subsequently redeemed as the underlying transactions are settled. The income or loss generated by the underlying transactions is then transferred to the feeder funds and direct third party investors via the variable funding notes.

Any notes issued by the master funds to the consolidated feeder funds are eliminated on consolidation and only variable funding notes issued by AlphaCat Re to direct third party investors and non-consolidated feeder funds remain on the Consolidated Balance Sheets as notes payable to AlphaCat investors with the related income or loss included in the Consolidated Statements of Income and Comprehensive Income as (income) attributable to AlphaCat investors. To the extent that the income has not been returned to the investors, it is included in accounts payable and accrued expenses in the Consolidated Balance Sheets.

During 2017 and 2016, one of the AlphaCat ILS funds (the "Fund") issued both common shares and structured notes to the Company and other third party investors in order to capitalize the fund. The Fund deploys its capital through AlphaCat Re; therefore, the structured notes do not have a stated maturity date or principal amount since repayment is dependent on the settlement and income or loss of the variable funding notes with AlphaCat Re. The structured notes rank senior to the common shares of the Fund and earn an interest rate of 7% (2016: 8%) per annum, payable on a

cumulative basis in arrears.

As the Fund is consolidated by the Company, the structured notes issued to the Company are eliminated on consolidation and only the structured notes issued to third party investors remain on the Consolidated Balance Sheets as notes payable to AlphaCat investors with any related interest included in the Consolidated Statements of Income and Comprehensive Income as (income) attributable to AlphaCat investors. To the extent that the accrued interest on the structured notes has not been returned to the investors, it is included in accounts payable and accrued expenses in the Consolidated Balance Sheets.

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The following tables present a reconciliation of the beginning and ending notes payable to AlphaCat investors for the three and six months ended June 30, 2017 and 2016:

three and six months ended June 30, 2017 and 2016:					
			Three Mor	ths Ended.	June 30, 2017
			Variable Funding Notes	Structured Notes	Total
Notes payable to AlphaCat investors, beginning of period			\$343,256	\$103,320	\$446,576
Notes payable to AlphaCat investors recognized on decons ILS fund	solidation of	f AlphaCat	423,269	_	423,269
Issuance of notes payable to AlphaCat investors Redemption of notes payable to AlphaCat investors Foreign exchange gains Notes payable to AlphaCat investors, end of period	TI M	d F 1 1	267,867 (140,150) (283) \$893,959	_	336,747 (140,150) (283) \$1,066,159
	2016	ths Ended.	June 30,		
	Variable Funding Notes	Structured Notes	Total		
Notes payable to AlphaCat investors, beginning of period Issuance of notes payable to AlphaCat investors Redemption of notes payable to AlphaCat investors Foreign exchange losses Notes payable to AlphaCat investors, end of period	\$261,793 102,817 (88,079) 125 \$276,656	\$ 61,717 32,609 — — \$ 94,326	\$323,510 135,426 (88,079) 125 \$370,982 Six Month	s Ended Iu	ne 30, 2017
			Variable Funding Notes	Structured Notes	
Notes payable to AlphaCat investors, beginning of period			\$278,202	\$ —	\$278,202
Notes payable to AlphaCat investors recognized on decons ILS fund	solidation of	f AlphaCat	423,269	_	423,269
Issuance of notes payable to AlphaCat investors Redemption of notes payable to AlphaCat investors				150 000	
Foreign exchange gains Notes payable to AlphaCat investors, end of period			541,877 (349,106) (283) \$893,959	172,200 — — \$ 172,200	714,077 (349,106) (283) \$1,066,159
		s Ended Jur	(349,106) (283) \$893,959 ne 30, 2016	_	(349,106) (283)
	Six Month Variable Funding Notes	s Ended Jur Structured Notes	(349,106) (283) \$893,959 ne 30, 2016	_	(349,106) (283)
Notes payable to AlphaCat investors, end of period Notes payable to AlphaCat investors, beginning of period	Variable Funding Notes \$75,493	Structured Notes \$—	(349,106) (283) \$893,959 ne 30, 2016 Total \$75,493	_	(349,106) (283)
Notes payable to AlphaCat investors, end of period Notes payable to AlphaCat investors, beginning of period Issuance of notes payable to AlphaCat investors	Variable Funding Notes	Structured Notes	(349,106) (283) \$893,959 ne 30, 2016	_	(349,106) (283)
Notes payable to AlphaCat investors, end of period Notes payable to AlphaCat investors, beginning of period	Variable Funding Notes \$75,493 298,105	Structured Notes \$—	(349,106) (283) \$893,959 ne 30, 2016 Total \$75,493 392,431	_	(349,106) (283)
Notes payable to AlphaCat investors, end of period Notes payable to AlphaCat investors, beginning of period Issuance of notes payable to AlphaCat investors Redemption of notes payable to AlphaCat investors	Variable Funding Notes \$75,493 298,105 (97,684) 742 \$276,656	Structured Notes \$ — 94,326 — \$ 94,326	(349,106) (283) \$893,959 ne 30, 2016 Total \$75,493 392,431 (97,684) 742 \$370,982	\$172,200	(349,106) (283) \$1,066,159

The income attributable to AlphaCat investors for the three and six months ended June 30, 2017 was \$11,830 and \$19,333 (2016: \$6,114 and \$10,714), with \$63,352 included in accounts payable and accrued expenses as at June 30, 2017 (December 31, 2016: \$17,068).

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BetaCat ILS funds

The BetaCat ILS funds invest exclusively in catastrophe bonds (principal-at-risk variable rate notes and other event-linked securities, being referred to collectively as "Cat Bonds") focused on property and casualty risk and issued under Rule 144A of the Securities Act of 1933, as amended, following a passive buy-and-hold investment strategy. Two of the funds are VIEs, one of which is consolidated by the Company as the primary beneficiary. The remaining fund is a VOE and is consolidated by the Company as it owns all of the voting equity interests. The Company's maximum exposure to any of the funds is the amount of capital invested at any given time.

The following table presents the total assets and total liabilities of the Company's consolidated VIEs, excluding intercompany eliminations, as at June 30, 2017 and December 31, 2016:

	June 30, 2017		December 31, 201	
	Total	Total	Total	Total
	Assets	Liabilities	Assets	Liabilities
AlphaCat sidecars	\$29,330	\$ 3,455	\$40,041	\$ 3,206
AlphaCat ILS funds - Lower Risk (a)	951,428 951,428	313,371	1,498,27	642,457
AlphaCat ILS funds - Higher Risk (a)	1,037,568	207,300	972,633	381,332
AlphaCat Re and AlphaCat Master Fund	2,828,096	2,827,926	2,510,41	52,510,245
BetaCat ILS funds	146,098	278	82,471	30,663

Lower risk AlphaCat ILS funds have a maximum permitted portfolio expected loss of less than 7%, whereas higher (a) risk AlphaCat ILS funds have a maximum permitted portfolio expected loss of greater than 7%. Expected loss represents the average annual loss over the set of simulation scenarios divided by the total limit.

Assets of consolidated VIEs can only be used to settle obligations and liabilities of the consolidated VIEs and do not have recourse to the general credit of the Company. Investments held by these entities are presented separately in Note 4, "Investments," as non-managed investments.

(b) Non-Consolidated VIEs

The Company invests in private equity and other investment vehicles as part of the Company's investment portfolio. The activities of these VIEs are generally limited to holding investments and the Company's involvement in these entities is passive in nature. The Company's maximum exposure to the VIEs is the amount of capital invested at any given time, and the Company does not have the power to direct the activities which most significantly impact the VIEs economic performance. The Company is therefore not the primary beneficiary of these VIEs.

7. Noncontrolling interests

Investors in certain of the AlphaCat and BetaCat ILS funds have rights that enable them, subject to certain limitations, to redeem their shares. The third party equity is therefore recorded in the Company's Consolidated Balance Sheets as redeemable noncontrolling interests. When and if a redemption notice is received, the fair value of the redemption is reclassified to a liability.

The AlphaCat sidecars and one of the AlphaCat ILS funds have no shareholder redemption rights. Therefore, the third party equity is recorded in the Company's Consolidated Balance Sheets as noncontrolling interests.

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The following tables present a reconciliation of the beginning and ending balances of redeemable noncontrolling interests and noncontrolling interests for the three and six months ended June 30, 2017 and 2016:

			Noncontrolling interests		Total		
		ns Ended June	Three Mor	ths Ended	Three Month	ns Ended June	
	30,		June 30,		30,		
	2017	2016	2017	2016	2017	2016	
Balance, beginning of period	\$1,657,630	\$1,409,037	\$330,597	\$157,223	\$1,988,227	\$1,566,260	
Issuance of shares	106,501	112,500	103,320	59,349	209,821	171,849	
Adjustment to noncontrolling interests as a result of deconsolidation	(459,021)		_	_	(459,021)	_	
Income attributable to noncontrolling interests	28,555	17,230	15,095	3,963	43,650	21,193	
Redemption of shares / distributions	(82,005)	(6,484)	(33,354)	(8,381)	(115,359)	(14,865)	
Balance, end of period	\$1,251,660	\$1,532,283	\$415,658	\$212,154	\$1,667,318	\$1,744,437	
	noncontrolling interests in		interests	Noncontrolling interests Six Months Ended		Total Six Months Ended June	
	30,		June 30,		30,		
	2017	2016	2017	2016	2017	2016	
Balance, beginning of period	\$1,528,001	\$1,111,714	\$165,977	\$154,662	\$1,693,978	\$1,266,376	
Issuance of shares	210,200	381,250	258,300	171,674	468,500	552,924	
Adjustment to noncontrolling interests as a result of deconsolidation	(459,021)	_	_	_	(459,021)	_	
Income attributable to noncontrolling interests	54,485	45,803	31,737	12,921	86,222	58,724	
Redemption of shares / distributions	(82,005)	(6,484)	(40,356)	(127,103)	(122,361)	(133,587)	
Balance, end of period		\$1,532,283					
As at June 30, 2017, redemptions of \$74,							
were payable to redeemable noncontrolli	•		•	•	•		
classified within accounts payable and ac	crued expens	es on the Con	npany's Cor	isolidated B	alance Sheets		

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8. Derivative instruments

The Company enters into derivative instruments for risk management purposes, specifically to hedge unmatched foreign currency exposures, interest rate exposures and to shorten the duration of the Company's fixed maturities portfolio.

(a) Derivatives not designated as hedging instruments

The following table summarizes information on the classification and amount of the fair value of derivatives not designated as hedging instruments for accounting purposes within the Company's Consolidated Balance Sheets as at June 30, 2017 and December 31, 2016:

	June 30, 2017		December 31, 2016			
		Asset	Liability		Asset	Liability
Derivatives not designated as hedging	Notional	Derivative	Derivative	Notional	Derivative	Derivative
instruments	Exposure	at Fair	at Fair	Exposure	at Fair	at Fair
		Value (a)	Value (a)		Value (a)	Value (a)
Foreign currency forward contracts	\$223,018	\$ 1,972	\$ 6,325	\$181,375	\$ 2,351	\$ 3,421
Interest rate swap contracts	\$150,000	\$ 330	\$ 648	\$ —	\$ —	\$ —

Asset and liability derivatives are classified within other assets and accounts payable and accrued expenses, respectively, within the Company's consolidated balance sheets.

The following table summarizes information on the classification and net impact on earnings, recognized in the Company's Consolidated Statements of Income and Comprehensive Income relating to the foreign currency forward and interest rate swap contracts that were not designated as hedging instruments for accounting purposes during the three and six months ended June 30, 2017 and 2016:

Dariyatiyas not designated as hadging	Classification of (losses) gains recognized	Three Months		Six Months Ended	
		Ended line 30		June 30,	
instruments	in earnings	2017	2016	2017	2016
Foreign currency forward contracts	Foreign exchange (losses) gains	\$(6,525)	\$896	\$(6,072)	\$(1,117)
Foreign currency forward contracts	Other (loss) income	\$(874)	\$84	\$(979)	\$120
Interest rate swap contracts	Change in unrealized losses on investments	\$(319)	\$—	\$(319)	\$—

(b) Derivatives designated as hedging instruments

The following table summarizes information on the classification and amount of the fair value of derivatives designated as hedging instruments for accounting purposes on the Consolidated Balance Sheets as at June 30, 2017 and December 31, 2016:

	June 30, 2017		December			
		Asset	Liability		Asset	Liability
Derivatives designated as hedging instruments	Notional	Derivative	Derivative	Notional	Derivative	Derivative
	Exposure	at Fair	at Fair	Exposure	at Fair	at Fair
		Value (a)	Value (a)		Value (a)	Value (a)
Interest rate swap contracts	\$552,263	\$ 20	\$ 1,409	\$552,263	\$ 20	\$ 1,479

⁽a) Asset and liability derivatives are classified within other assets and accounts payable and accrued expenses, respectively, within the Company's consolidated balance sheets.

Derivative instruments designated as a cash flow hedge

The Company designates its interest rate derivative instruments as cash flow hedges for accounting purposes and formally and contemporaneously documents all relationships between the hedging instruments and hedged items and links the derivative instruments to specific assets and liabilities. The Company assesses the effectiveness of the hedges, both at inception and on an on-going basis and determines whether the hedges are highly effective in

offsetting changes in fair value of the linked hedged items. The Company currently applies the long haul method when assessing the hedge's effectiveness.

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The following table provides the total impact on other comprehensive income (loss) and earnings relating to the derivative instruments formally designated as cash flow hedges along with the impact of the related hedged items for the three and six months ended June 30, 2017 and 2016:

	Three Months Ended June 30,		Six Mont	hs Ended		
			June 30,			
Interest rate swap contracts	2017	2016	2017	2016		
Amount of effective portion recognized in other comprehensive income	\$2,217	\$2,694	\$4,376	\$6,350		
Amount of effective portion subsequently reclassified to earnings	\$(2,073)	\$(2,758)	\$(4,330)	\$(5,656)		
Amount of ineffective portion excluded from effectiveness testing	\$(144)	\$64	\$(46)	\$(694)		
The above balances relate to interest payments and have therefore been classified as finance expenses in the						

(c) Classification within the fair value hierarchy

Consolidated Statements of Income and Comprehensive Income.

As described in Note 5, "Fair value measurements," under U.S. GAAP, a company must determine the appropriate level in the fair value hierarchy for each fair value measurement. The assumptions used within the valuation of the Company's derivative instruments are observable in the marketplace, can be derived from observable data or are supported by observable levels at which other similar transactions are executed in the marketplace. Accordingly, these derivatives were classified within Level 2 of the fair value hierarchy.

(d)Balance sheet offsetting

There was no balance sheet offsetting activity as at June 30, 2017 or December 31, 2016.

The Company currently provides cash collateral as security for interest rate swap contracts. The Company does not provide cash collateral or financial instruments as security for foreign currency forward contracts. Our derivative instruments are generally traded under International Swaps and Derivatives Association master netting agreements, which establish terms that apply to all transactions. On a periodic basis, the amounts receivable from or payable to the counterparties are settled in cash.

The Company has not elected to settle multiple transactions with an individual counterparty on a net basis.

9. Reserve for losses and loss expenses

Reserves for losses and loss expenses are based in part upon the estimation of case reserves from broker, insured and ceding company reported data. The Company also uses statistical and actuarial methods to estimate ultimate expected losses and loss expenses, from which incurred but not reported losses ("IBNR") can be calculated. The period of time from the occurrence of a loss to the reporting of a loss to the Company and to the settlement of the Company's liability may be several months or years. During this period, additional facts and trends may be revealed. As these factors become apparent, reserves will be adjusted, sometimes requiring an increase or decrease in the overall reserves of the Company, and at other times requiring a reallocation of incurred but not reported reserves to specific case reserves. These estimates are reviewed and adjusted regularly, and such adjustments, if any, are reflected in earnings in the period in which they become known. While management believes that it has made a reasonable estimate of ultimate losses, there can be no assurances that ultimate losses and loss expenses will not exceed this estimate.

The following table summarizes the total reserve for losses and loss expenses as at June 30, 2017 and December 31, 2016:

	June 30,	December 31,
	2017	2016
Case reserves	\$1,236,799	\$ 1,237,772
IBNR	2,068,392	1,757,423
Total reserve for losses and loss expenses	\$3,305,191	\$ 2,995,195

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The following table represents an analysis of paid and unpaid losses and loss expenses incurred and a reconciliation of the beginning and ending unpaid losses and loss expenses for the three and six months ended June 30, 2017 and 2016:

	Three Mont	ths Ended Jur	e Six Months	Ended June
	30,		30,	
	2017	2016	2017	2016
Reserve for losses and loss expenses, beginning of period	\$3,052,745	\$2,980,300	\$2,995,195	\$2,996,567
Loss reserves recoverable	(451,856) (370,689) (430,421	(350,586)
Net reserves for losses and loss expenses, beginning of period	2,600,889	2,609,611	2,564,774	2,645,981
Net reserves acquired (a)	23,753	_	23,753	
Increase (decrease) in net reserves for losses and loss expenses				
in respect of losses occurring in:				
Current year	339,439	369,911	670,255	648,097
Prior years	(43,290) (62,781) (104,521	(116,520)
Total net incurred losses and loss expenses	296,149	307,130	565,734	531,577
Less net losses and loss expenses paid in respect of losses				
occurring in:				
Current year	(42,758) (45,882) (50,456	(61,655)
Prior years	(193,265) (176,775) (431,354	(430,079)
Total net paid losses	(236,023) (222,657) (481,810	(491,734)
Foreign exchange losses (gains)	20,216	(14,354) 32,533	(6,094)
Net reserve for losses and loss expenses, end of period	2,704,984	2,679,730	2,704,984	2,679,730
Loss reserves recoverable	600,207	442,987	600,207	442,987
Reserve for losses and loss expenses, end of period	\$3,305,191	\$3,122,717	\$3,305,191	\$3,122,717
(a) Equals net reserves acquired of \$42,575 less net reserves con	nmuted at clo	sing of \$18.8	22	

(a) Equals net reserves acquired of \$42,575 less net reserves commuted at closing of \$18,822.

Incurred losses and loss expenses comprise:

	Three Mon	ths Ended	Six Months Ended		
	June 30,		June 30,		
	2017	2016	2017	2016	
Gross losses and loss expenses	\$415,013	\$397,863	\$761,808	\$667,716	
Reinsurance recoverable	(118,864)	(90,733)	(196,074)	(136,139)	
Net incurred losses and loss expenses	\$296,149	\$307,130	\$565,734	\$531,577	

The net favorable development on prior years by segment and line of business for the three and six months ended June 30, 2017 and 2016 was as follows:

	Three Months Ended June 30, 2017					
	Property	Marine	Specialty	Liability	Total	
Validus Re	\$(671)	\$(16,313)	\$(6,115)	\$ —	\$(23,099)	
Talbot	(4,894)	(17,056)	6,074	_	(15,876)	
Western World	(479)	_		16	(463)	
AlphaCat	(3,097)	_	(755)	_	(3,852)	
Net (favorable) adverse development	\$(9,141)	\$(33,369)	\$(796)	\$ 16	\$(43,290)	

The net favorable loss reserve development on prior accident years of \$43.3 million during the three months ended June 30, 2017 was primarily due to favorable development on attritional losses.

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	Three Months Ended June 30, 2016						
	Property	Marine	Specialty	Liability	Total		
Validus Re	\$(9,468)	\$(10,018)	\$(11,391)	\$ —	\$(30,877)		
Talbot	(10,094)	(8,928)	(9,306)		(28,328)		
Western World	(1,582) —	_	(1,576)	(3,158)		
AlphaCat	(296) —	(122)		(418)		
Net favorable development	\$(21,440)	\$(18,946)	\$(20,819)	\$(1,576)	\$(62,781)		

The net favorable loss reserve development on prior accident years of \$62.8 million during the three months ended June 30, 2016 was primarily due to favorable development on attritional losses.

	Six Months Ended June 30, 2017						
	Property	Marine	Specialty	Liability	Total		
Validus Re	\$(4,242) \$(31,742)	\$(15,895)	\$ <i>—</i>	\$(51,879)	
Talbot	(11,228) (33,052)	(410)	_	(44,690)	
Western World	(3,302) —	_	2,620	(682)	
AlphaCat	(7,492) —	222		(7,270)	
Net (favorable) adverse development	\$(26,264)) \$(64,794)	\$(16,083)	\$ 2,620	\$(104,521)	

The net favorable loss reserve development on prior accident years of \$104.5 million during the six months ended June 30, 2017 was primarily due to favorable development on attritional losses.

	Six Months Ended June 30, 2016					
	Property	Marine	Specialty	Liability	Total	
Validus Re	\$(32,300)	\$(6,463)	\$(17,798)	\$ —	\$(56,561)
Talbot	(28,540)	(5,964)	(16,544)		(51,048)
Western World	(2,023)			(5,561)	(7,584)
AlphaCat	(477)		(850)		(1,327)
Net favorable development	\$(63,340)	\$(12,427)	\$(35,192)	\$(5,561)	\$(116,520))

The net favorable development of \$116.5 million for the six months ended June 30, 2016 was primarily due to favorable development on attritional losses.

10. Reinsurance

Case reserves

Total loss reserves recoverable

IBNR

The Company's reinsurance balances recoverable at June 30, 2017 and December 31, 2016 were as follows:

June 30, December 31, 2017 2016 Loss reserves recoverable on unpaid: \$176,416 \$ 165,328 423,791 265,093 600,207 430,421

Paid losses recoverable 35,675 35,247 Total reinsurance balances recoverable \$635,882 \$ 465,668

The Company enters into reinsurance and retrocession agreements in order to mitigate its accumulation of loss, reduce its liability on individual risks, enable it to underwrite policies with higher limits and increase its aggregate capacity. The cession of insurance and reinsurance does not legally discharge the Company from its primary liability for the full amount of the policies, and the Company is required to pay the loss and bear collection risk if the reinsurer fails to meet its obligations under the reinsurance or retrocession agreement. Amounts recoverable from reinsurers are estimated in a manner consistent with the underlying liabilities.

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Credit risk

The Company evaluates the financial condition of its reinsurers and monitors concentration of credit risk arising from its exposure to individual reinsurers. The reinsurance program is generally placed with reinsurers whose rating, at the time of placement, was A- or better as rated by Standard & Poor's or the equivalent with other rating agencies. Exposure to a single reinsurer is also controlled with restrictions dependent on rating. As at June 30, 2017, \$630,821 or 99.2% (December 31, 2016: \$461,369 or 99.1%) of the Company's reinsurance balances recoverable were either fully collateralized or recoverable from reinsurers rated A- or better.

Reinsurance balances recoverable by reinsurer as at June 30, 2017 and December 31, 2016 were as follows:

	June 30, 2017			December 31, 2016			
	Reinsurance of Total			Reinsurance of To		oto1	
	Reinsurance Recoverable of Total			Recoverable of Total		otai	
Top 10 reinsurers	\$521,027	81.9	%	\$395,308	84.9	%	
Other reinsurers' balances > \$1 million	106,432	16.8	%	66,944	14.4	%	
Other reinsurers' balances < \$1 million	8,423	1.3	%	3,416	0.7	%	
Total	\$635,882	100.0	%	\$465,668	100.0	%	

The following tables show the reinsurance balances recoverable due from, and the ratings associated with, the Company's top ten reinsurers as at June 30, 2017 and December 31, 2016:

1 2 1	,			,
	June 30), 2017		
Top 10 Reinsurers	Rating	Reinsurance Recoverable	% of T	otal
Munich Re	AA-	\$ 96,997	15.2	%
Lloyd's Syndicates	A+	84,742	13.2	%
Fully collateralized reinsurers	NR	80,558	12.7	%
Swiss Re	AA-	77,928	12.3	%
Everest Re	A+	54,565	8.6	%
Hannover Re	AA-	48,037	7.6	%
Federal Crop Insurance Corporation	(a)	29,009	4.6	%
Transatlantic Re	A+	23,066	3.6	%
XL Catlin	A+	16,062	2.5	%
Helvetia Group	A	10,063	1.6	%
Total		\$ 521,027	81.9	%

The Company participates in a crop reinsurance program sponsored by the U.S. federal government. The Company (a) remains obligated for amounts ceded in the event that its reinsurers or retrocessionaires do not meet their obligations, except for amounts ceded to the U.S. federal government in the agriculture line of business.

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	Decem	ber 31, 2016		
Top 10 Reinsurers	Dating	Reinsurance	% of T	Coto1
Top To Remsulers	Rating	Recoverable	70 OI I	Otai
Lloyd's Syndicates	A+	\$ 84,419	18.2	%
Swiss Re	AA-	84,044	18.1	%
Fully collateralized reinsurers	NR	83,088	17.8	%
Hannover Re	AA-	50,603	10.9	%
Everest Re	A+	36,912	7.9	%
Munich Re	AA-	18,214	3.9	%
Transatlantic Re	A+	10,593	2.3	%
Hamilton Re	A-	10,343	2.2	%
Toa Re	A+	9,510	2.0	%
National Indemnity Company	AA+	7,582	1.6	%
Total		\$ 395,308	84.9	%

At June 30, 2017 and December 31, 2016, the provision for uncollectible reinsurance relating to reinsurance balances recoverable was \$6,741 and \$5,153, respectively. To estimate this provision for uncollectible reinsurance, reinsurance balances recoverable are first allocated to applicable reinsurers. This determination is based on a process rather than an estimate, although an element of judgment is applied, especially in relation to ceded IBNR. The Company then uses default factors to determine the portion of a reinsurer's balance deemed to be uncollectible. Default factors require considerable judgment and are determined in part using the current rating, or rating equivalent, of each reinsurer as well as other key considerations and assumptions.

11. Share capital

The Company is authorized to issue up to an aggregate of 571,428,571 common and preferred shares with a par value of \$0.175 per share.

(a) Preferred shares

On June 12, 2017, the Company issued 10,000 shares of its 5.800% Non-Cumulative Preferred Shares, Series B (the "Series B Preferred Shares") (equivalent to 10,000,000 Depositary Shares, each of which represents a 1/1,000th interest in a Series B Preferred Share), \$0.175 par value and \$25,000 liquidation preference per share (equivalent to \$25 per Depositary Share). The Series B Preferred Shares were registered and sold under the Securities Act of 1933, as amended, and were issued at a price to the public of \$25,000 per share (equivalent to \$25 per Depositary Share). After underwriting discounts and expenses, the Company received net proceeds of \$241,686 which was used for general corporate purposes.

The Depositary Shares, representing the Series B Preferred Shares, are traded on the New York Stock Exchange ("NYSE") under the symbol "VRPRB." The Series B Preferred Shares have no stated maturity date and are redeemable, in whole or in part, at the Company's option on and after June 21, 2022, at a redemption price of \$25,000 per Series B Preferred Share (equivalent to \$25 per Depository Share), plus declared and unpaid dividends. The Company may also redeem all, but not less than all, of the Series B Preferred Shares before the redemption date at a redemption price of \$26,000 per share (equivalent to \$26 per Depository Share), plus declared and unpaid dividends, if the Company is required to submit a proposal to the holders of the Series B Preferred Shares concerning an amalgamation, consolidation, merger or other similar corporate transaction or change in Bermuda law. The Series B Preferred Shares may also be redeemed before the redemption date at a redemption price of \$25,000 per Series B Preferred Share (equivalent to \$25.00 per Depository Share), plus declared and unpaid dividends, in whole, if there is a certain change in tax law, or in whole or in part, in the case of a capital disqualification event. However, no redemption may occur prior to June 21, 2027 unless the Company has sufficient funds in order to meet the Bermuda Monetary Authority's ("the BMA") Enhanced Capital Requirements ("ECR") and the BMA approves of the redemption, or the Company

replaces the capital represented by the Series B Preferred Shares with capital having equal or better capital treatment as the Series B Preferred Shares under the ECR.

Dividends on the Series B Preferred Shares, when, as and if declared by the Company's Board of Directors or a duly authorized committee thereof, will accrue and be payable on the liquidation preference amount from the original issue date, on a non-cumulative basis, quarterly in arrears on each dividend payment date at an annual rate of 5.800%. The Company will be restricted from paying dividends on and repurchasing its common shares, unless certain dividend payments are made on the Series B Preferred Shares.

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Upon any voluntary or involuntary liquidation, dissolution or winding up of the Company, holders of the Series B Preferred Shares and any parity shares are entitled to receive out of our assets available for distribution to shareholders, before any distribution is made to holders of common shares or other junior shares, a liquidating distribution in the amount of \$25,000 per Series B Preferred Share (equivalent to \$25 per Depositary Share) plus declared and unpaid dividends. Distributions will be made pro rata in accordance with the respective aggregate liquidation preferences of the Series B Preferred Shares and any parity shares and only to the extent of our assets, if any, that are available after satisfaction of all liabilities to creditors.

Holders of the Series B Preferred Shares have no voting rights, except with respect to certain fundamental changes in the terms of the Series B Preferred Shares and in the case of certain dividend non-payments or as otherwise required by Bermuda law or the Company's bye-laws.

On June 13, 2016, the Company issued 6,000 shares of its 5.875% Non-Cumulative Preferred Shares, Series A (the "Series A Preferred Shares") (equivalent to 6,000,000 Depositary Shares, each of which represents a 1/1,000th interest in a Series A Preferred Share), \$0.175 par value and \$25,000 liquidation preference per share (equivalent to \$25 per Depositary Share). Holders of the Series A Preferred Shares have no voting rights, except with respect to certain fundamental changes in the terms of the Series A Preferred Shares and in the case of certain dividend non-payments or as otherwise required by Bermuda law or the Company's bye-laws.

The following table is a summary of the preferred share activity during the six months ended June 30, 2017 and 2016:

Six Months Ended June

30,

2017 2016

Preferred shares issued and outstanding, beginning of period 6,000 —

Preferred shares issued 10,000 6,000

Preferred shares issued and outstanding, end of period 16,000 6,000

The Company had 6,000 Series A Preferred Shares and 10,000 Series B Preferred Shares issued and outstanding as at June 30, 2017 and 6,000 Series A Preferred Shares issued and outstanding as at December 31, 2016.

(b) Common Shares

The holders of common shares are entitled to receive dividends and are allocated one vote per share, provided that, if the controlled shares of any shareholder or group of related shareholders constitute more than 9.09 percent of the outstanding common shares of the Company, their voting power will be reduced to 9.09 percent.

The Company may from time to time repurchase its securities, including common shares, Junior Subordinated Deferrable Debentures and Senior Notes. On February 3, 2015, the Board of Directors of the Company approved an increase in the Company's common share repurchase authorization to \$750,000. This amount is in addition to the \$2,274,401 of common shares repurchased by the Company through February 3, 2015 under its previously authorized share repurchase programs.

The Company has repurchased 80,776,802 common shares for an aggregate purchase price of \$2,718,402 from the inception of its share repurchase program to June 30, 2017. The Company had \$305,999 remaining under its authorized share repurchase program as of June 30, 2017.

The Company expects the purchases under its share repurchase program to be made from time to time in the open market or in privately negotiated transactions. The timing, form and amount of the share repurchases under the program will depend on a variety of factors, including market conditions, the Company's capital position relative to internal and rating agency targets, legal requirements and other factors. The repurchase program may be modified, extended or terminated by the Board of Directors at any time.

The following table is a summary of the common share activity during the six months ended June 30, 2017 and 2016:

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	Six Months Ended June 3		
	2017	2016	
Common shares issued, beginning of period	161,279,976	160,570,772	
Restricted share awards vested, net of shares withheld	597,021	601,890	
Restricted share units vested, net of shares withheld	14,948	18,486	
Options exercised	_	13,635	
Performance share awards vested, net of shares withheld	42,410	48,088	
Common shares issued, end of period	161,934,355	161,252,871	
Treasury shares, end of period	(82,415,774)	(80,480,633)	
Common shares outstanding, end of period	79,518,581	80,772,238	
(a) Dividenda			

(c) Dividends

On May 10, 2017, the Company announced a quarterly cash dividend of \$0.38 (2016: \$0.35) per common share and a quarterly cash dividend of \$0.3671875 per depositary share on its outstanding Series A Preferred Shares. The common share dividend was paid on June 30, 2017 to holders of record on June 15, 2017. The preferred share dividend was paid on June 15, 2017 to holders of record on June 1, 2017.

On February 9, 2017, the Company announced a quarterly cash dividend of \$0.38 (2016: \$0.35) per common share and a quarterly cash dividend of \$0.3671875 per depositary share on its outstanding Series A Preferred Shares. The common share dividend was paid on March 31, 2017 to holders of record on March 15, 2017. The preferred share dividend was paid on March 15, 2017 to holders of record on March 1, 2017.

12. Stock plans

(a) Long Term Incentive Plan

The Company's Amended and Restated 2005 Long Term Incentive Plan ("LTIP") provides for grants to employees of options, stock appreciation rights ("SARs"), restricted shares, restricted share units, performance shares, dividend equivalents or other share-based awards. The total number of shares reserved for issuance under the LTIP are 2,753,292 shares of which 714,817 shares remain available for issuance at June 30, 2017. The LTIP is administered by the Compensation Committee of the Board of Directors. No SARs have been granted to date. Grant prices are established at the fair market value of the Company's common shares at the date of grant.

i. Options

Options may be exercised for voting common shares upon vesting. Outstanding options have a life of 10 years and vest either pro rata or at the end of the required service period from the date of grant. Fair value of the option awards at the date of grant is determined using the Black-Scholes option-pricing model.

Expected volatility is based on stock price volatility of comparable publicly-traded companies. The Company used the simplified method consistent with U.S. GAAP authoritative guidance on stock compensation expenses to estimate expected lives for options granted during the period as historical exercise data was not available and the options met the requirement as set out in the guidance.

The Company has not granted any stock option awards since September 4, 2009. These stock option awards were fully amortized during the year ended December 31, 2012.

Activity with respect to options for the six months ended June 30, 2017 and 2016 was as follows:

Six	Moi	nths Ended J	lune 30,			
201	7			2016		
		Weighted	Weighted		Weighted	Weighted
Ont	Ontions	Average	Average	Options	Average	Average
Орг	.10118	Grant Date	Average Grant Date	Options	Grant Date	Grant Date
		Fair Value	Exercise Price		Fair Value	Exercise Price
Options outstanding, beginning of period 26,1	136	\$ 6.78	\$ 23.48	65,401	\$ 7.74	\$ 20.17

 Options exercised
 —
 —
 —
 —
 —
 17.02

 Options outstanding, end of period
 26,136 \$ 6.78
 \$ 23.48
 51,357 \$ 7.75
 \$ 21.03

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ii. Restricted share awards

Restricted shares granted under the LTIP vest either pro rata or at the end of the required service period and contain certain restrictions during the vesting period, relating to, among other things, forfeiture in the event of termination of employment and transferability. The Company recognized share compensation expenses during the three and six months ended June 30, 2017 of \$9,745 (2016: \$9,517) and \$18,789 (2016: \$18,646), respectively. The expenses represent the proportionate accrual of the fair value of each grant based on the remaining vesting period. Activity with respect to unvested restricted share awards for the six months ended June 30, 2017 and 2016 was as follows:

Tollows.	Six Months 2017	s Ended June	30, 2016	
	Restricted Share Awards	Weighted Average Grant Date Fair Value	Restricted Share Awards	Weighted Average Grant Date Fair Value
Restricted share awards outstanding, beginning of period	2,469,982	\$ 40.89	2,739,446	\$ 38.25
Restricted share awards granted	481,619	53.42	534,905	48.69
Restricted share awards vested	(803,764)	41.31	(783,523)	37.32
Restricted share awards forfeited	(39,617)	41.98	(8,317)	37.94
Restricted share awards outstanding, end of period	2,108,220	\$ 43.58	2,482,511	\$ 40.79

At June 30, 2017, there were \$63,931 (December 31, 2016: \$58,804) of total unrecognized share compensation expenses in respect of restricted share awards that are expected to be recognized over a weighted-average period of 2.6 years (December 31, 2016: 2.3 years).

iii. Restricted share units

Restricted share units under the LTIP vest either ratably or at the end of the required service period and contain certain restrictions during the vesting period, relating to, among other things, forfeiture in the event of termination of employment and transferability. The Company recognized share compensation expenses during the three and six months ended June 30, 2017 of \$327 (2016: \$377) and \$642 (2016: \$688), respectively. The expenses represent the proportionate accrual of the fair value of each grant based on the remaining vesting period.

Activity with respect to unvested restricted share units for the six months ended June 30, 2017 and 2016 was as follows:

	Six Months Ended June 30,				
	2017		2016		
		Weighted		Weighted	
	Restricted	lAverage	Restricted Average		
	Share Unit Grant Date		Share Un	i G rant Date	
		Fair Value		Fair Value	
Restricted share units outstanding, beginning of period	112,808	\$ 40.95	114,337	\$ 38.47	
Restricted share units granted	12,236	53.40	20,129	48.69	
Restricted share units vested	(18,241)	41.66	(23,982)	38.18	
Restricted share units issued in lieu of cash dividends	1,468	40.98	1,629	38.47	
Restricted share units outstanding, end of period	108,271	\$ 42.24	112,113	\$ 40.37	

At June 30, 2017, there were \$2,558 (December 31, 2016: \$2,542) of total unrecognized share compensation expenses in respect of restricted share units that are expected to be recognized over a weighted-average period of 2.6 years (December 31, 2016: 2.6 years).

iv. Performance share awards

The performance share awards contain a performance based component. The performance component relates to the compounded growth in the Dividend Adjusted Diluted Book Value per Share ("DBVPS") over a three-year period relative to the Company's peer group. For performance share awards granted during the period, the grant date DBVPS is based on the DBVPS at the end of the most recent financial reporting year. The Dividend Adjusted Performance Period End DBVPS will be the DBVPS three years after the grant date DBVPS. The fair value estimate earns over the requisite attribution period and the estimate will be reassessed at the end

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of each performance period which will reflect any adjustments in the Consolidated Statements of Income and Comprehensive Income in the period in which they are determined.

The Company recognized share compensation expenses during the three and six months ended June 30, 2017 of \$1,074 (2016: \$833) and \$1,206 (2016: \$2,630), respectively.

Activity with respect to unvested performance share awards for the six months ended June 30, 2017 and 2016 was as follows:

	Six Months Ended June 30,			
	2017		2016	
		Weighted		Weighted
	Performa	n Ac verage	Performa	n Ac verage
	Share Awardant Date		Share Awardant Da	
		Fair Value		Fair Value
Performance share awards outstanding, beginning of period	285,820	\$ 44.53	172,594	\$ 40.70
Performance share awards granted	107,209	53.40	121,844	48.69
Performance share awards vested	(52,639)	37.33	(57,581)	36.11
Performance share awards conversion adjustment	(26,322)	36.82	45,517	36.82
Performance share awards outstanding, end of period	314,068	\$ 49.37	282,374	\$ 44.46

At June 30, 2017, there were \$10,250 (December 31, 2016: \$6,902) of total unrecognized share compensation expenses in respect of performance share awards that are expected to be recognized over a weighted-average period of 2.3 years (December 31, 2016: 2.1 years).

(b) Total share compensation expenses

The breakdown of share compensation expenses by award type for the periods indicated was as follows:

	Three M	onths	Six Months		
	Ended Ju	ine 30,	Ended June 30,		
	2017	2016	2017	2016	
Restricted share awards	\$9,745	\$9,517	\$18,789	\$18,646	
Restricted share units	327	377	642	688	
Performance share awards	1,074	833	1,206	2,630	
Total	\$11,146	\$10,727	\$20,637	\$21,964	

13. Debt and financing arrangements

The Company's financing structure is comprised of debentures and senior notes payable along with credit and other facilities.

The Company's outstanding debentures and senior notes payable as at June 30, 2017 and December 31, 2016 were as follows:

	June 30,	December 31,
	2017	2016
Deferrable debentures		
2006 Junior Subordinated	\$150,000	\$ 150,000
2007 Junior Subordinated	139,800	139,800
Flagstone 2006 Junior Subordinated	134,850	133,676
Flagstone 2007 Junior Subordinated	113,750	113,750
Total debentures payable	538,400	537,226
2010 Senior notes payable	250,000	250,000
Less: Unamortized debt issuance costs	(4,537)	(4,638)

Total senior notes payable 245,463 245,362 Total debentures and senior notes payable \$783,863 \$782,588

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The Company's outstanding credit and other facilities as at June 30, 2017 and December 31, 2016 were as follows:

	June 30, 2	017	December	31, 2016
	Commitm	Drawn and ent outstanding	Commitm	Drawn and ent outstanding
Credit and other facilities				
\$85,000 syndicated unsecured letter of credit facility	\$85,000	\$ —	\$85,000	\$ —
\$300,000 syndicated secured letter of credit facility	300,000	87,718	300,000	90,252
\$24,000 secured bi-lateral letter of credit facility	24,000	5,648	24,000	4,553
\$20,000 AlphaCat Re secured letter of credit facility (a)	_	_	20,000	20,000
\$25,000 IPC bi-lateral facility	25,000	5,535	25,000	5,842
\$236,000 Flagstone bi-lateral facility	236,000	102,190	236,000	144,392
Total credit and other facilities	\$670,000	\$ 201,091	\$690,000	\$ 265,039

⁽a) The Company terminated its AlphaCat Re secured letter of credit facility on January 6, 2017.

The following table summarizes the key terms of the Company's senior notes and junior subordinated deferrable debentures:

Description	Issuance date	Issued	Maturity date	Interest Ra Issuance	June 30,	Interest payments due
2006 Junior Subordinated Deferrable Debentures	June 15, 2006	\$150,000	June 15, 2036	Date 9.069% (a)	2017 5.831% ^(e)	Quarterly
Flagstone 2006 Junior Subordinated Deferrable Debentures	August 23, 2006	\$134,850	September 15, 2036	3.540% ^(b)	6.463 % ^(e)	Quarterly
2007 Junior Subordinated Deferrable Debentures	June 21, 2007	\$200,000	June 15, 2037	8.480%(c)	5.180% ^(e)	Quarterly
Flagstone 2007 Junior Subordinated Deferrable Debentures	June 8, 2007	\$100,000	July 30, 2037	3.000% ^(b)	5.900% ^(e)	Quarterly
Flagstone 2007 Junior Subordinated Deferrable Debentures	September 20, 2007	\$25,000	September 15, 2037	3.100% ^(b)	5.983% ^(e)	Quarterly
2010 Senior Notes due 2040	January 26, 2010	\$250,000	January 26, 2040	8.875% ^(d)	8.875% ^(d)	Semi-annually in arrears

⁽a) Fixed interest rate for 5 years, floating interest rate of three-month LIBOR plus 3.550% thereafter, reset quarterly.

Future payments of principal of \$250,000 and \$538,400 on the 2010 Senior Notes and the debentures, respectively, are expected to be made after 2022.

⁽a) Senior notes and junior subordinated deferrable debentures

⁽b) Floating interest rate of three-month LIBOR plus amount stated, reset quarterly.

 $⁽c) Fixed interest \ rate \ for \ 5 \ years, \ floating \ interest \ rate \ of \ three-month \ LIBOR \ plus \ 2.950\% \ thereafter, \ reset \ quarterly.$

⁽d) Fixed interest rate.

⁽e) Fixed interest rate as a result of interest rate swap contracts entered into by the Company.

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(b) Credit facilities

The Company has pledged cash and investments as collateral under the Company's credit facilities in the total amount of \$404,516 (December 31, 2016: \$442,184) as detailed in the table below:

Cash and investments pledged as collateral June 30, December 31, 2017 2016 \$300,000 syndicated secured letter of credit facility \$147,048 \$ 157,597 \$24,000 secured bi-lateral letter of credit facility 33,353 48,097 AlphaCat Re secured letter of credit facility (a) 20,032 \$236,000 Flagstone bi-lateral facility 224,115 216,458 Total cash and investments pledged as collateral \$404,516 \$ 442,184

(a) The Company terminated its AlphaCat Re secured letter of credit facility on January 6, 2017.

As of June 30, 2017 and December 31, 2016, the Company was in compliance with all covenants and restrictions under its credit facilities.

(c) Finance expenses

Finance expenses consist of interest on the junior subordinated deferrable debentures and senior notes, the amortization of debt offering costs, credit facility fees, bank charges, Talbot Funds at Lloyds ("FAL") facility, AlphaCat financing fees and other charges as follows:

	Three Months		Six Mon	ths
	Ended Ju	ine 30,	Ended Ju	ine 30,
	2017	2016	2017	2016
2006 Junior Subordinated Deferrable Debentures	\$2,211	\$2,211	\$4,398	\$4,422
2007 Junior Subordinated Deferrable Debentures	1,831	1,830	3,641	3,661
Flagstone 2006 Junior Subordinated Deferrable Debentures	2,248	2,244	4,469	4,489
Flagstone 2007 Junior Subordinated Deferrable Debentures	1,751	1,766	3,474	3,533
2010 Senior Notes due 2040	5,598	5,597	11,195	11,194
Credit facilities	403	235	621	896
Bank and other charges	131	206	282	213
AlphaCat fees (a)	36	77	72	961
Total finance expenses	\$14,209	\$14,166	\$28,152	\$29,369

(a) Includes finance expenses incurred by AlphaCat Managers Ltd. in relation to fund raising for the AlphaCat sidecars, the AlphaCat ILS funds and AlphaCat direct.

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14. Accumulated other comprehensive loss

The changes in accumulated other comprehensive loss, by component for the three and six months ended June 30, 2017 and 2016 was as follows:

2017 and 2016 was as follows:						
	Three Months Ended June 30, 2017					
	translation	Minimum pension liability	Cash flow hedge	Total		
Balance, net of tax, beginning of period	\$(21,677)	\$ (82)	\$(694)	\$(22,453)		
Other comprehensive income (loss), net of tax	1,489	1,184	(144)	2,529		
Balance, net of tax, end of period	\$(20,188)	\$ 1,102	\$(838)	\$(19,924)		
	Three Mont	ths Ended	June 30, 2	2016		
	Foreign	Minimum	Cash			
	translation	pension liability	flow hedge	Total		
Balance, net of tax, beginning of period	\$(13,862)	\$ 251	\$(1,827)	\$(15,438)		
Other comprehensive (loss) income, net of tax	(3,287)	479	64	(2,744)		
Balance, net of tax, end of period	\$(17,149)	\$ 730	\$(1,763)	\$(18,182)		
	Six Months Foreign			.7		
	Foreign currency translation	Ended Ju Minimum pension liability		7 Total		
Balance, net of tax, beginning of period	Foreign currency translation	Minimum pension liability	Cash flow hedge			
Balance, net of tax, beginning of period Other comprehensive income (loss), net of tax	Foreign currency translation adjustment \$(22,274)	Minimum pension liability	Cash flow hedge \$(792)	Total		
	Foreign currency translation adjustment \$(22,274)	Minimum pension liability \$ (150) 1,252	Cash flow hedge \$(792) (46)	Total \$(23,216)		
Other comprehensive income (loss), net of tax	Foreign currency translation adjustment \$(22,274) 2,086 \$(20,188) Six Months	Minimum pension liability \$ (150) 1,252 \$ 1,102	Cash flow hedge \$(792) (46) \$(838)	Total \$(23,216) 3,292 \$(19,924)		
Other comprehensive income (loss), net of tax	Foreign currency translation adjustment \$(22,274) 2,086 \$(20,188) Six Months	Minimum pension liability \$ (150) 1,252 \$ 1,102	Cash flow hedge \$(792) (46) \$(838) ne 30, 201	Total \$(23,216) 3,292 \$(19,924)		
Other comprehensive income (loss), net of tax	Foreign currency translation adjustment \$(22,274) 2,086 \$(20,188) Six Months Foreign currency	Minimum pension liability \$ (150) 1,252 \$ 1,102 Ended Jun Minimum	Cash flow hedge \$(792) (46) \$(838) me 30, 201 Cash	Total \$(23,216) 3,292 \$(19,924) 6		
Other comprehensive income (loss), net of tax	Foreign currency translation adjustment \$(22,274) 2,086 \$(20,188) Six Months Foreign currency translation	Minimum pension liability \$ (150) 1,252 \$ 1,102	Cash flow hedge \$(792) (46) \$(838) ne 30, 201	Total \$(23,216) 3,292 \$(19,924)		
Other comprehensive income (loss), net of tax	Foreign currency translation adjustment \$(22,274) 2,086 \$(20,188) Six Months Foreign currency translation	Minimum pension liability \$ (150) 1,252 \$ 1,102 S Ended Just Minimum pension liability	Cash flow hedge \$(792) (46) \$(838) me 30, 201 Cash flow hedge	Total \$(23,216) 3,292 \$(19,924) 6		
Other comprehensive income (loss), net of tax Balance, net of tax, end of period Balance, net of tax, beginning of period	Foreign currency translation adjustment \$(22,274) 2,086 \$(20,188) Six Months Foreign currency translation adjustment \$(11,834)	Minimum pension liability \$ (150) 1,252 \$ 1,102 S Ended Just Minimum pension liability	Cash flow hedge \$(792) (46) \$(838) me 30, 201 Cash flow hedge \$(1,069)	Total \$(23,216) 3,292 \$(19,924) 6 Total \$(12,569)		
Other comprehensive income (loss), net of tax Balance, net of tax, end of period	Foreign currency translation adjustment \$(22,274) 2,086 \$(20,188) Six Months Foreign currency translation adjustment \$(11,834)	Minimum pension liability \$ (150) 1,252 \$ 1,102 \$ Ended Jum Minimum pension liability \$ 334 396	Cash flow hedge \$(792) (46) \$(838) me 30, 201 Cash flow hedge \$(1,069) (694)	Total \$(23,216) 3,292 \$(19,924) 6 Total		

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Validus Holdings, Ltd.

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15. Commitments and contingencies

(a) Funds at Lloyd's

Talbot operates in Lloyd's through a corporate member, Talbot 2002 Underwriting Capital Ltd ("T02"), which is the sole participant in Syndicate 1183. Lloyd's sets T02's required capital annually based on Syndicate 1183's business plan, rating environment and reserving environment together with input arising from Lloyd's discussions with, inter alia, regulatory and rating agencies. Such capital, called Funds at Lloyd's ("FAL"), comprises cash and investments. The Company provided FAL in the amount of \$583,600 for the 2017 underwriting year (2016 underwriting year: \$617,000).

The amounts which are provided as FAL are not available for distribution to the Company for the payment of dividends. Talbot's corporate member may also be required to maintain funds under the control of Lloyd's in excess of its capital requirement and such funds also may not be available for distribution to the Company for the payment of dividends.

(b)Lloyd's Central Fund

Whenever a member of Lloyd's is unable to pay its debts to policyholders, such debts may be payable by the Lloyd's Central Fund. If Lloyd's determines that the Central Fund needs to be increased, it has the power to assess premium levies on current Lloyd's members up to 3% of a member's underwriting capacity in any one year. The Company does not believe that any assessment is likely in the foreseeable future and has not provided any allowance for such an assessment. However, based on the Company's 2017 underwriting capacity at Lloyd's of £600,000, at the June 30, 2017 exchange rate of £1 equals \$1.30 and assuming the maximum 3% assessment, the Company would be assessed approximately \$23,400.

(c) Marketing Services Agreement ("MSA")

On May 1, 2017, the Company entered into a MSA with Archer Daniels Midland ("ADM"). Under this agreement, ADM agrees to provide marketing services via its own distribution channels for an annual fee of \$2,000 for a period of seven years, with an option for the Company to extend for an additional three years. For the three and six months ended June 30, 2017, the Company had incurred fees of \$333 in relation to the MSA.

(d) Unfunded investment commitments

As at June 30, 2017 and December 31, 2016, the Company had total unfunded investment commitments related to the following:

Ç	Unfunded investmen			
	commitments			
	•	December 31,		
	2017	2016		
Fixed maturity investments (a)	\$25,238	\$ 28,499		
Other investments (b)	119,495	156,134		
Investments in investment affiliates (c)	84,046	64,071		
AlphaCat ILS Fund	_	10,000		
Total unfunded investment commitments	\$228,779	\$ 258,704		

- The Company has an outstanding commitment to participate in certain secured loan facilities through participation agreements with an established loan originator.
- The Company's total capital commitments related to other investments as at June 30, 2017 was \$313,000 (December 31, 2016: \$308,000).
- (c) Refer to Note 4(c), "Investments in Investment Affiliates."

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16. Related party transactions

The transactions listed below are classified as related party transactions as principals and/or directors of each counterparty are members of the Company's board of directors.

(a) Aquiline Capital Partners LLC ("Aquiline Capital")

Group Ark Insurance

Subsequent to July 2016, Aquiline Capital ceased to be shareholders of Group Ark Insurance Holdings Ltd. ("Group Ark"). Christopher E. Watson, a director of the Company and senior principal of Aquiline Capital, continues to serve as a director of Group Ark. Pursuant to reinsurance agreements with a subsidiary of Group Ark, the Company recognized gross premiums written during the three and six months ended June 30, 2016 of \$65 and \$1,971, respectively. The Company also recognized reinsurance premiums ceded during the three and six months ended June 30, 2016 of \$(17) and \$nil, respectively. Earned premium adjustments were recorded during the three and six months ended June 30, 2016 of \$473 and \$999, respectively. As at December 31, 2016 the Company had recorded premiums receivable and loss reserves recoverable of \$292 and \$798, respectively.

Wellington

Pursuant to reinsurance agreements with a subsidiary of Wellington Insurance Company ("Wellington"), during the three and six months ended June 30, 2017 the Company recognized gross premiums written of \$1,144 and \$4,118 (2016: \$nil and \$nil), respectively, and earned premium adjustments of \$1,676 and \$2,537 (2016: \$nil and \$nil), respectively. As at June 30, 2017 and December 31, 2016 the Company had recorded premiums receivable of \$3,531 and \$666, respectively. Aquiline Capital are shareholders of Wellington and Christopher E. Watson, a director of the Company and senior principal of Aquiline Capital, serves as a director of Wellington.

Aquiline II, Aquiline III and Aquiline Tech

The Company had, as of June 30, 2017 and December 31, 2016, investments in Aquiline II, III and Tech with a total value of \$103,377 and \$100,431 and outstanding unfunded commitments of \$84,046 and \$64,071, respectively. For the three and six months ended June 30, 2017, the Company incurred \$130 and \$486 (2016: \$440 and \$440), respectively, in partnership fees associated with these investments. Additional information related to Aquiline II, III and Tech is disclosed in Note 4(c), "Investments in Investment Affiliates."

(b)Other

Certain shareholders of the Company and their affiliates, as well as employers of entities associated with directors or officers have purchased insurance and/or reinsurance from the Company in the ordinary course of business. The Company believes these transactions were settled for arm's length consideration.

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17. Earnings per common share

The following table sets forth the computation of basic earnings per common share and earnings per diluted common share for the three and six months ended June 30, 2017 and 2016:

			Six Month June 30,	ns Ended	
	2017	2016	2017	2016	
Basic earnings per common share					
Net income available to Validus common shareholders	\$101,095	\$ 94,963	\$195,656	\$ 261,773	
Weighted average number of common shares outstanding	79,270,56	181,950,833	79,202,11	6 82,386,047	
Basic earnings per share available to Validus common shareholders	\$1.28	\$ 1.16	\$2.47	\$ 3.18	
Earnings per diluted common share					
Net income available to Validus common shareholders	\$101,095	\$ 94,963	\$195,656	\$ 261,773	
Weighted average number of common shares outstanding	79,270,56	181,950,833	79,202,11	6 82,386,047	
Share equivalents:					
Stock options	14,739	33,796	15,059	34,837	
Unvested restricted shares	1,587,151	1,388,374	1,644,823	1,364,775	
Weighted average number of diluted common shares outstanding	80,872,45	183,373,003	80,861,99	83,785,659	
Earnings per diluted share available to Validus common shareholders	\$1.25	\$ 1.14	\$2.42	\$3.12	
Share equivalents that would result in the issuance of common shares of	of 412,603	(2016: 507,2	262) and 20	07,054 (2016:	
253,631) were outstanding for the three and six months ended June 30,	, 2017, resp	ectively, bu	t were not	included in	
the computation of earnings per diluted common share because the effective common shar	ect would b	e antidilutiv	e.		

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Validus Holdings, Ltd.

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18. Segment information

The Company conducts its operations worldwide through four operating segments, which have been determined under ASC Topic 280 "Segment Reporting" to be Validus Re, Talbot, Western World and AlphaCat. For segmental reporting purposes, the results of CRS have been included in the results of the Western World segment as of May 1, 2017, the date of acquisition. The Company's operating segments are strategic business units that offer different products and services. They are managed and have capital allocated separately because each segment undertakes different strategies.

A description of each of the Company's operating segments and its Corporate and Investments function is as follows: Validus Re Segment

The Validus Re segment is focused primarily on treaty reinsurance. The primary lines in which the segment conducts business are property, marine and specialty which includes agriculture, aerospace and aviation, financial lines of business, nuclear, terrorism, life, accident & health, workers' compensation, crisis management, contingency, technical lines, composite, trade credit and casualty.

Talbot Segment

The Talbot segment is focused on a wide range of marine and energy, political lines, commercial property, financial lines, contingency, accident & health and aviation classes of business on an insurance or facultative reinsurance basis and principally property, aerospace and marine classes of business on a treaty reinsurance basis.

Western World Segment

The Western World segment is focused on providing commercial insurance products on a surplus lines and specialty admitted basis. Western World specializes in underwriting classes of business that are not easily placed in the standard insurance market due to their complexity, high hazard, or unusual nature; including general liability, property and professional liability, homeowners, commercial package and agriculture classes of business.

AlphaCat Segment

The AlphaCat segment leverages the Company's underwriting and analytical expertise and earns management and performance fees from the Company and other third party investors primarily through the AlphaCat ILS funds and sidecars.

Corporate and Investments

The Company has a corporate and investments function ("Corporate and Investments"), which includes the activities of the parent company, and which carries out certain functions for the group, including investment management. Corporate and Investments includes investment income on a managed basis and other non-segment expenses, predominantly general and administrative, stock compensation, finance and transaction expenses. Transaction expenses are primarily comprised of legal, financial advisory and audit related services incurred in connection with the acquisition of CRS. Corporate and Investments also includes the activities of certain key executives such as the Chief Executive Officer and Chief Financial Officer. For reporting purposes, Corporate and Investments is reflected separately; however, it is not considered an operating segment under these circumstances. Other reconciling items include, but are not limited to, the elimination of certain inter segment revenues and expenses and other items that are not allocated to the operating segments.

A reconciliation of segmental income to net income available to Validus is included in the tables below.

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The following tables summarize the results of our operating segments and "Corporate and Investments":

The following tubies summarize the results of	Three Months Ended		Six Months Ended June			
	June 30,		30,			
Validus Re Segment Information	2017	2016	2017	2016		
Underwriting revenues						
Gross premiums written	\$296,997	\$285,810	\$917,519	\$977,478	;	
Reinsurance premiums ceded	(11,387)	(3,196)	(120,200)	(95,691)	
Net premiums written	285,610	282,614	797,319	881,787		
Change in unearned premiums	(45,003)	(35,492)	(338,300)	(390,834)	
Net premiums earned	240,607	247,122	459,019	490,953		
Other insurance related income (loss)	58	150	136	(165)	
Total underwriting revenues	240,665	247,272	459,155	490,788		
Underwriting deductions						
Losses and loss expenses	104,685	132,139	190,839	215,007		
Policy acquisition costs	47,158	42,564	88,414	84,823		
General and administrative expenses	19,274	17,872	36,106	35,051		
Share compensation expenses	2,663	2,775	5,140	5,676		
Total underwriting deductions	173,780	195,350	320,499	340,557		
Underwriting income	\$66,885	\$51,922	\$138,656	\$150,231		
Selected ratios						
Ratio of net to gross premiums written	96.2 %	98.9	86.9 %	90.2	%	
Losses and loss expense ratio	43.5	53.5	41.6 %	43.8	%	
Policy acquisition cost ratio	19.6 %	5 17.2 %	19.3 %	17.3	%	
General and administrative expense ratio (a)	9.1 %	8.4	8.9	8.3	%	
Expense ratio				25.6	%	
Combined ratio	72.2 %	5 79.1 %	69.8 %	69.4	%	
(a) The general and administrative eveness as	tio includes	chara comma	acation arman	000		

⁽a) The general and administrative expense ratio includes share compensation expenses.

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				Six Months Ended J 30,			ne	
Talbot Segment Information	2017		2016		2017		2016	
Underwriting revenues								
Gross premiums written	\$262,477	7	\$296,067	7	\$509,652)	\$562,384	4
Reinsurance premiums ceded	(24,977)	(27,161)	(117,801)	(114,619)
Net premiums written	237,500		268,906		391,851		447,765	
Change in unearned premiums	(45,626)	(67,357)	(4,912)	(39,424)
Net premiums earned	191,874		201,549		386,939		408,341	
Other insurance related income	65		279		820		290	
Total underwriting revenues	191,939		201,828		387,759		408,631	
Underwriting deductions								
Losses and loss expenses	93,389		109,310		199,801		209,411	
Policy acquisition costs	44,305		43,613		87,581		87,956	
General and administrative expenses	35,582		39,061		74,025		77,596	
Share compensation expenses	3,155		3,270		5,982		6,792	
Total underwriting deductions	176,431		195,254		367,389		381,755	
Underwriting income	\$15,508		\$6,574		\$20,370		\$26,876	
Selected ratios								
Ratio of net to gross premiums written	90.5	%	90.8	%	76.9	%	79.6	%
Losses and loss expense ratio	48.7	%	54.2	%	51.6	%	51.3	%
Policy acquisition cost ratio	23.1	%	21.6	%	22.6	%	21.5	%
General and administrative expense ratio (a)	20.2	%	21.1	%	20.7	%	20.7	%
Expense ratio	43.3	%	42.7	%	43.3	%	42.2	%
Combined ratio	92.0	%	96.9	%	94.9	%	93.5	%
(a) The general and administrative expense ra	atio includ	les s	share com	per	sation exp	en	ses.	

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	Three Months Ended June 30,			Six Months Ended Ju 30,			ne	
Western World Segment Information	2017		2016		2017		2016	
Underwriting revenues								
Gross premiums written	\$131,068	3	\$86,971		\$303,111		\$150,930)
Reinsurance premiums ceded	(23,180)	(5,006)	(28,798)	(9,145)
Net premiums written	107,888		81,965		274,313		141,785	
Change in unearned premiums	22,806		(16,309)	(46,347)	(14,630)
Net premiums earned	130,694		65,656		227,966		127,155	
Other insurance related income	663		189		904		477	
Total underwriting revenues	131,357		65,845		228,870		127,632	
Underwriting deductions								
Losses and loss expenses	97,008		44,229		171,933		83,875	
Policy acquisition costs	19,230		15,410		39,466		29,610	
General and administrative expenses	18,316		11,458		29,070		23,533	
Share compensation expenses	609		542		1,301		1,123	
Total underwriting deductions	135,163		71,639		241,770		138,141	
Underwriting loss	\$(3,806)	\$(5,794)	\$(12,900)	\$(10,509))
Selected ratios								
Ratio of net to gross premiums written	82.3	%	94.2	%	90.5	%	93.9	%
Losses and loss expense ratio	74.2	%	67.4	%	75.4	%	66.0	%
Policy acquisition cost ratio	14.7	%	23.5	%	17.3	%	23.3	%
General and administrative expense ratio (a)	14.5	%	18.2	%	13.4	%	19.3	%
Expense ratio	29.2	%	41.7	%	30.7	%	42.6	%
Combined ratio	103.4	%	109.1	%	106.1	%	108.6	%
(a) The general and administrative expense ratio includes share compensation expenses.								

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Validus Holdings, Ltd.

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		nths Ended	Six Months Ended		
AlabaCat Carmont Information	June 30,	2016	June 30,	2016	
AlphaCat Segment Information	2017	2016	2017	2016	
Fee revenues Third party	\$5,549	\$3,091	\$10,193	\$7,818	
Related party	\$5,549 644	328	1,275	1,219	
Total fee revenues	6,193	3,419	1,273	9,037	
Total Ice revenues	0,193	3,419	11,400	9,037	
Expenses					
General and administrative expenses	3,549	2,751	7,393	4,233	
Share compensation expenses	83	133	165	274	
Finance expenses	44	75	75	883	
Tax expense	135	_	134		
Foreign exchange losses	1	4	_	12	
Total expenses	3,812	2,963	7,767	5,402	
Income before investments from AlphaCat Funds and Sidecars	2,381	456	3,701	3,635	
Investment income (loss) from AlphaCat Funds and Sidecars (a)					
AlphaCat Sidecars	(21	541	(133	665	
AlphaCat ILS Funds - Lower Risk (b)	1,301	2,075	3,490	4,582	
AlphaCat ILS Funds - Higher Risk (b)	2,600	692	4,967	3,128	
BetaCat ILS Funds	263	1,113	631	1,676	
PaCRe		_	_	(23)	
Validus' share of investment income from AlphaCat Funds and Sidecars	4,143	4,421	8,955	10,028	
Validus' share of AlphaCat segment income	\$6,524	\$4,877	\$12,656	\$13,663	
Supplemental information					
Gross premiums written					
AlphaCat Sidecars	\$ —	, ,	\$66	\$(66)	
AlphaCat ILS Funds - Lower Risk (b)	53,632	50,234	106,540	110,192	
AlphaCat ILS Funds - Higher Risk (b)	43,672	42,010	137,208	138,330	
AlphaCat Direct (c)	8,378	6,675	26,794	17,797	
Total gross premiums written	\$105,682	•	\$270,608	\$266,253	
(a) The investment income from the AlphaCat funds and sidecars is based		_			
Lower risk AlphaCat ILS funds have a maximum permitted por					
higher risk AlphaCat ILS funds have a maximum permitted port	tfolio expec	ted loss of	greater than	1 <i>7</i> %.	

⁽b) Expected loss represents the average annual loss over the set of simulation scenarios divided by the total limit.

⁽c) AlphaCat Direct includes direct investments from third party investors in AlphaCat Re.

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

	Three Mo Ended Ju		Six Mont June 30,	hs Ended	
Corporate and Investments	2017	2016	2017	2016	
Investment income					
Managed net investment income (a)	\$38,063	\$36,849	\$74,255	\$64,772	
Corporate expenses					
General and administrative expenses	18,847	17,872	36,024	34,055	
Share compensation expenses	4,636	4,007	8,049	8,099	
Finance expenses (b)	14,149	13,979	28,013	28,320	
Dividends on preferred shares	2,203		4,406		
Tax (benefit) expense	(1,122)	1,706	(4,670)	(412)	
Total Corporate expenses	38,713	37,564	71,822	70,062	
Other items					
Net realized gains (losses) on managed investments (b)	2,269	2,520	(623)	1,434	
Change in net unrealized gains on managed investments (b)	15,942	30,052	30,291	77,130	
Income (loss) from investment affiliate	9,466	(589)	14,654	(4,702)	
Foreign exchange (losses) gains (b)	(7,323)	6,621	(6,220)	12,695	
Other income	174	79	268	756	
Transaction expenses	(4,427)		(4,427)	_	
Total other items	16,101	38,683	33,943	87,313	
Total Corporate and Investments	\$15,451	\$37,968	\$36,376	\$82,023	

⁽a) Managed net investment income excludes the components which are included in the Company's share of AlphaCat, net realized and change in unrealized gains on managed investments and income (loss) from investment affiliates.

⁽b) These items exclude the components which are included in Validus' share of AlphaCat and amounts which are consolidated from VIEs.

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

The following tables reconcile the results of our operating segments along with our corporate and investments function to the Consolidated results of the Company for the periods indicated:

Three Months Ended June 30, 2017

	Three World's Ended Julie 50, 2017							
	Validus Re Segment	Talbot Segment	Western World Segment	AlphaCat Segment and Consolidated VIEs	Corporate and Investments	Eliminatio	ons Total	
Underwriting revenues								
Gross premiums written	\$296,997	\$262,477	\$131,068	\$ 105,682	\$—	\$ (3,322	\$792,902	
Reinsurance premiums ceded	(11,387)	(24,977)	(23,180)	_	_	3,322	(56,222)	
Net premiums written	285,610	237,500	107,888	105,682	_	_	736,680	
Change in unearned premiums	(45,003)	(45,626)	22,806	(37,830)	_	_	(105,653)	
Net premiums earned	240,607	191,874	130,694	67,852		_	631,027	
Other insurance related income	58	65	663	5,874	_	(5,495) 1,165	
Total underwriting revenues	240,665	191,939	131,357	73,726		(5,495) 632,192	
Underwriting deductions								
Losses and loss expenses	104,685	93,389	97,008	1,067		_	296,149	
Policy acquisition costs	47,158	44,305	19,230	7,165	_	(590) 117,268	
General and administrative expenses	19,274	35,582	18,316	9,768	18,847	(5,438) 96,349	
Share compensation expenses	2,663	3,155	609	83	4,636	_	11,146	
Total underwriting deductions	173,780	176,431	135,163	18,083	23,483	(6,028) 520,912	
Underwriting income (loss)	\$66,885	\$15,508	\$(3,806)	\$ 55,643	\$ (23,483)	\$ 533	\$111,280	
Other items (a)	_	_	_	183	7,501	_	7,684	
Dividends on preferred shares		_	_	_	(2,203)	_	(2,203)	
Net investment income		_	_	6,178	38,063	_	44,241	
Transaction expenses		_	_	_	(4,427)	_	(4,427)	
(Income) attributable to				(11,830)			(11.920)	
AlphaCat investors		_	_	(11,030)	_	_	(11,830)	
Net (income) attributable to noncontrolling interest	_	_	_	(43,650)	_	_	(43,650)	
Segmental income (loss)	\$66,885	\$15,508	\$(3,806)	\$ 6,524	\$ 15,451	\$ 533		
Net income available to Validus common shareholders	3						\$101,095	

Other items includes finance expenses, tax benefit (expense), foreign exchange gains (losses), net realized and (a)change in net unrealized gains (losses) on investments, income from investment and operating affiliates and other income (loss).

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

Three Months Ended June 30, 2016

	Three Months Ended Julie 50, 2010								
	Validus Re Segment	Talbot Segment	Western World Segment	AlphaCat Segment and Consolidat	ted	Corporate and Investments	Eliminati	on	s Total
	Segment		2081110111	VIEs					
Underwriting revenues				, 120					
Gross premiums written	\$285,810	\$296,067	\$86,971	\$ 98,905		\$ <i>—</i>	\$ (3,711)	\$764,042
Reinsurance premiums ceded	-	(27,161)	•	(4,577)	<u>.</u>	3,711		(36,229)
Net premiums written	282,614	268,906	81,965	94,328			_		727,813
Change in unearned premiums		(67,357)	(16,309)	(34,932)		_		(154,090)
Net premiums earned	247,122	201,549	65,656	59,396		_			573,723
Other insurance related income	150	279	189	3,401		_	(3,274)	745
Total underwriting revenues	247,272	201,828	65,845	62,797			(3,274)	574,468
Underwriting deductions									
Losses and loss expenses	132,139	109,310	44,229	21,452			_		307,130
Policy acquisition costs	42,564	43,613	15,410	6,530			(151)	107,966
General and administrative	17,872	39,061	11,458	6,561		17,872	(3,136	`	89,688
expenses	17,072	39,001	11,430	0,501		17,672	(3,130	,	09,000
Share compensation expenses	2,775	3,270	542	133		4,007	_		10,727
Total underwriting deductions	195,350	195,254	71,639	34,676		21,879	(3,287)	515,511
Underwriting income (loss)	\$51,922	\$6,574	\$(5,794)	\$ 28,121		\$ (21,879)	\$ 13		\$58,957
Other items ^(a)		_	_	1,058		22,998	_		24,056
Dividends on preferred shares						_			
Net investment income				3,005		36,849	(597)	39,257
(Income) attributable to AlphaCa	t			(6,114)		_		(6,114)
investors				(-,					(=,==:)
Net (income) attributable to noncontrolling interest	_	_	_	(21,193)	_	_		(21,193)
Segmental income (loss)	\$51,922	\$6,574	\$(5,794)	\$ 4,877		\$ 37,968	\$ (584)	
Net income available to Validus common shareholders									\$94,963

Other items includes finance expenses, tax expenses, foreign exchange gains (losses), net realized and change in (a)net unrealized gains (losses) on investments, income from investment and operating affiliates and other income (loss).

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Validus Holdings, Ltd.

Notes to the Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

	Six Months	Ended Jun	e 30, 2017				
	Validus Re Segment	Talbot Segment	Western World Segment	AlphaCat Segment and Consolidated VIEs	Corporate and Investments	Eliminations	Total
Underwriting revenues							
Gross premiums written	\$917,519	\$509,652	\$303,111	\$ 270,608	\$ _	-\$ (17,131)	\$1,983,759
Reinsurance premiums ceded	1(120,200)	(117,801)	(28,798)	(6,660)	_	17,131	(256,328)
Net premiums written	797,319	391,851	274,313	263,948	_	_	1,727,431
Change in unearned premiums	(338,300)	(4,912)	(46,347)	(131,469)	_	_	(521,028)
Net premiums earned	459,019	386,939	227,966	132,479			