## HAIRCUT VALIDOS PARA ABRIL 2019 EMISIONES DE DEUDA EXTERNA

NOMBRE_BBRG	MARKET_ISSUE	calcTypDes	denominacion	mtyTyp	fecha_emision	fecha_vencimiento 1	2	3	4	5	5
XS1385239006	GLOBAL	STREET CONVENTION	EUR	AT MATURITY	24/02/1997	22/03/2026	3,000%	3,000%	3,000%	3,000%	3,216%
XS0833886095	GLOBAL	STREET CONVENTION	USD	AT MATURITY	28/01/2003	21/03/2023	3,000%	3,000%	3,000%	3,233%	3,541%
XS0502258444	GLOBAL	STREET CONVENTION	COP	AT MATURITY	14/04/2010	14/04/2021	3,000%	3,000%	3,000%	3,000%	3,000%
XS0306322065	GLOBAL	STREET CONVENTION	СОР	AT MATURITY	28/06/2007	28/06/2027	3,000%	3,000%	3,000%	3,000%	3,000%
USP3772NHK11	GLOBAL	STREET CONVENTION	USD	AT MATURITY	28/01/2003	15/03/2023	3,000%	3,609%	3,609%	4,860%	5,318%
US195325DL65	GLOBAL	STREET CONVENTION	USD	AT MATURITY	25/01/2017	25/04/2027	3,000%	3,326%	3,397%	3,787%	3,978%
US195325CX13	GLOBAL	STREET CONVENTION	USD	AT MATURITY	28/09/2015	28/01/2026	3,000%	3,281%	3,558%	4,258%	4,603%
US195325CU73	GLOBAL	STREET CONVENTION	USD	AT MATURITY	28/01/2015	15/06/2045	3,000%	3,000%	3,000%	3,262%	3,490%
US195325BR53	GLOBAL	STREET CONVENTION	USD	AT MATURITY	28/01/2003	26/02/2044	3,000%	3,000%	3,000%	3,497%	3,764%
US195325BQ70	GLOBAL	STREET CONVENTION	USD	AT MATURITY	28/01/2003	26/02/2024	3,000%	3,386%	3,467%	4,675%	5,065%
US195325BN40	GLOBAL	STREET CONVENTION	USD	AT MATURITY	07/12/2011	12/07/2021	3,000%	3,497%	3,497%	4,955%	5,216%
US195325BM66	GLOBAL	STREET CONVENTION	USD	AT MATURITY	20/10/2009	18/01/2041	3,000%	3,000%	3,000%	3,491%	3,756%
US195325BL83	GLOBAL	STREET CONVENTION	USD	AT MATURITY	13/01/2009	18/03/2019	3,000%	3,411%	3,708%	5,226%	5,803%
US195325BK01	GLOBAL	STREET CONVENTION	USD	AT MATURITY	19/09/2006	18/09/2037	3,000%	3,034%	3,280%	3,599%	4,069%
US195325BD67	GLOBAL	STREET CONVENTION	USD	AT MATURITY	21/01/2004	21/05/2024	3,000%	3,501%	3,501%	4,869%	5,386%
US195325BB02	GLOBAL	STREET CONVENTION	USD	AT MATURITY	28/01/2003	28/01/2033	3,000%	3,433%	3,782%	4,251%	4,251%
US195325AU91	GLOBAL	STREET CONVENTION	USD	AT MATURITY	25/02/2000	25/02/2020	3,000%	3,408%	3,440%	4,799%	5,389%
US195325AQ89	GLOBAL	STREET CONVENTION	USD	AT MATURITY	17/03/2000	09/03/2028	3,000%	3,054%	3,397%	4,018%	4,574%
US195325AL92	GLOBAL	STREET CONVENTION	USD	AT MATURITY	24/02/1997	15/02/2027	4,259%	5,676%	7,980%	8,786%	10,009%
JP517000A9P9	SAMURAI	JAPAN:NON-GOVT BB	USD	AT MATURITY	27/11/2009	27/11/2019	3,000%	3,550%	9,367%	10,970%	11,406%

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6 7	7 8	3 9	9 :	LO :	11 :	12 :	13	14	15	16	17	18	19	20	21	22
3,283%	3,546%	3,546%	4,083%	4,695%	4,810%	5,250%	5,250%	5,250%	5,250%	5,303%	5,656%	5,656%	5,656%	5,656%	6,082%	6,380%
3,674%	3,843%	3,944%	3,979%	4,008%	4,008%	4,008%	4,008%	4,047%	4,150%	4,194%	4,339%	4,387%	4,473%	4,473%	4,484%	4,870%
3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%
3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%
5,318%	5,318%	5,318%	5,318%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%
4,105%	4,228%	4,697%	5,050%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%
4,603%	4,609%	4,609%	4,894%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%
3,554%	3,656%	3,656%	3,656%	3,691%	3,697%	3,697%	3,697%	3,697%	3,697%	3,980%	4,103%	4,103%	4,103%	4,103%	4,139%	4,161%
3,764%	3,764%	3,764%	3,764%	3,764%	3,764%	3,764%	3,764%	3,764%	3,764%	3,892%	4,000%	4,000%	4,000%	4,000%	4,000%	4,000%
5,065%	5,065%	5,065%	5,065%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%
5,216%	5,216%	5,216%	5,216%	6,221%	6,221%	6,221%	6,221%	6,221%	6,221%	6,221%	6,221%	6,221%	6,221%	6,221%	6,221%	6,221%
3,756%	3,756%	3,756%	3,756%	3,876%	4,184%	4,184%	4,184%	4,184%	4,184%	4,205%	4,442%	4,442%	4,442%	4,442%	4,442%	4,442%
5,803%	5,803%	5,803%	5,803%	6,266%	6,384%	7,381%	7,899%	7,899%	7,899%	7,899%	7,899%	8,430%	8,796%	8,796%	8,796%	8,796%
4,069%	4,069%	4,069%	4,188%	4,353%	4,596%	4,596%	4,596%	4,596%	4,596%	4,693%	4,693%	4,693%	4,693%	4,693%	4,693%	4,693%
5,386%	5,386%	5,386%	5,386%	6,088%	6,088%	6,088%	6,088%	6,088%	6,088%	6,088%	6,088%	6,088%	6,088%	6,088%	6,088%	6,088%
4,251%	4,298%	4,477%	4,736%	5,330%	5,584%	5,584%	5,584%	5,584%	5,584%	5,584%	5,584%	5,584%	5,584%	5,584%	5,584%	5,584%
5,389%	5,389%	5,389%	5,389%	6,476%	6,485%	6,485%	6,485%	6,485%	6,485%	6,485%	6,485%	6,485%	6,485%	6,485%	6,485%	6,485%
4,574%	4,574%	4,574%	4,574%	4,574%	4,574%	4,574%	4,574%	4,574%	4,574%	4,574%	4,574%	4,958%	4,958%	4,958%	4,958%	4,958%
10,009%	10,037%	10,482%	11,881%	11,881%	12,031%	12,031%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%
11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%

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23	24 2	25	26	27	28	29	30	31	32	33	34	35
6,524%	7,392%	7,588%	7,588%	8,154%	8,154%	8,154%	8,391%	8,542%	9,028%	10,091%	10,667%	10,667%
5,400%	5,733%	6,262%	6,623%	6,996%	7,133%	7,166%	7,166%	7,166%	7,166%	7,166%	7,166%	7,166%
3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%
3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%	3,000%
6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%	6,246%
6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%	6,003%
5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%	5,921%
4,775%	4,775%	4,775%	4,775%	4,775%	4,775%	4,775%	4,775%	4,775%	4,775%	4,775%	4,775%	4,775%
4,396%	4,396%	4,396%	4,396%	4,396%	4,396%	4,396%	4,396%	4,396%	4,396%	4,396%	4,396%	4,396%
5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	5,843%	6,148%	6,148%	6,179%	6,179%
6,221%	6,221%	6,221%	6,221%	6,221%	6,221%	6,221%	6,221%	6,263%	6,781%	6,891%	6,959%	6,988%
4,442%	4,442%	4,442%	4,442%	4,442%	4,442%	4,442%	4,442%	4,442%	4,442%	4,442%	4,442%	4,442%
8,796%	8,796%	8,796%	8,796%	8,796%	8,796%	8,796%	8,796%	8,796%	8,796%	8,796%	8,796%	8,796%
4,693%	4,693%	4,693%	4,693%	4,693%	4,693%	4,693%	4,693%	4,693%	4,693%	4,693%	4,693%	4,693%
6,088%	6,088%	6,088%	6,088%	6,088%	6,088%	6,088%	6,088%	6,575%	6,837%	6,873%	6,877%	6,916%
5,584%	5,584%	5,584%	5,584%	5,584%	5,584%	5,584%	5,584%	5,584%	5,725%	5,725%	5,725%	5,725%
6,485%	6,485%	6,485%	6,485%	6,485%	6,485%	6,485%	6,571%	7,036%	7,845%	8,076%	8,350%	8,671%
4,958%	4,958%	4,958%	4,958%	4,958%	4,958%	4,958%	4,958%	4,958%	4,971%	5,081%	5,081%	5,206%
13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%	13,060%
11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%	11,406%