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**The Evolution of the Hong Kong Currency Board during Global
Exchange Rate Instability: evidence from the Exchange Fund Advisory
Committee 1967-1973**

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The Evolution of the Hong Kong Currency Board during Global Exchange Rate Instability: evidence from the Exchange Fund Advisory Committee 1967-1973¹

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During the 1990s there was considerable enthusiasm for currency boards, particularly for small open economies, until the collapse of the Argentine system in 2001-2 and the subsequent decline of the USD.² Since then, currency boards have been used mainly by colonies and by Eastern European countries seeking to dispel the shadow of chaotic monetary episodes by operating currency boards pegged to the Euro. Table 1 shows that Hong Kong SAR is now by far the largest economy to operate a currency board and no longer conforms either to the colonial rationale, nor to the regime change rationale for a currency board.³ This system has recently become more controversial because of the intensified economic integration with the mainland, the decline of the USD on world markets and the appreciation of the RMB against the HKD since it adopted a flexible basket peg in July 2005.⁴ Several authors who have noted the relatively poor performance of Hong Kong relative to Singapore have recommended a monitored band system similar to Singapore, although this advice came before the RMB regime was changed.⁵ In this context, it is timely to reconsider why Hong Kong abandoned the currency board under similar circumstances when their anchor currency was depreciating on world markets, the RMB was appreciating against the HKD and the international monetary system appeared on the brink of disarray.

Table 1: Economies Operating Currency Board or Quasi-Currency Board Systems
December 2007

Country	GDP (\$ Billion)	Currency Peg
Djibouti	0.834	USD
Gibraltar [UK]	1.1	£
Faroe Islands [Denmark]	1.7	DKr
Cayman Islands [UK]	1.9	USD
Bermuda [UK]	4.5	USD
Brunei	12.5	Sing\$
Bosnia	14.2	Euro
Estonia	21.2	Euro
Latvia	27	Euro
Lithuania	28.6	Euro
Bulgaria	39.1	Euro
Hong Kong [China]	203	USD
Falkland Islands [UK]	n/a	£
Saint Helena	n/a	£
Eastern Caribbean	n/a	USD

Source: Countries identified by Kurt Schuler,

<http://users.erols.com/kurrency/intro.htm>

Schuler excludes Latvia. GDP from CIA Yearbook and relates to 2007 except Gibraltar, Faroe Islands 2005 and Cayman Islands, Bermuda 2004 PPP.

In its purist form, a currency board offers a cheap and automatic monetary mechanism whereby notes are passively issued and redeemed against foreign exchange at a fixed exchange rate. The narrow money supply is thus determined by the inflow and outflow of foreign exchange in response to the balance of payments and the government is unable to exercise monetary discretion. Hong Kong's system was originally introduced in 1935 along the pattern of the British colonial monetary system of currency boards with funds managed in London by the Crown Agents for the Colonies, pegged to sterling and holding at least 100% sterling reserves. From the 1950s all colonial currency boards were legally entitled to invest their resources in local assets, usually up to 30% of total currency reserves, on the basis that this part of the currency issue was unlikely ever to be presented for redemption.⁶ By the 1960s the Hong Kong Exchange Fund aimed to keep at least 105% nominal cover, but we shall see that the Fund's investment strategy meant that 70% of its assets were illiquid, implying an expectation that only 30% of liabilities were likely to be presented for

redemption – this proved a costly mistake. Previous studies assumed that the excess over 105% cover for liabilities was routinely transferred to government account.⁷ This was not the case – a transfer to the Development Loan Fund took place only once, in 1964, although the Financial Secretary claimed that assets in the Exchange Fund were earmarked for this purpose. The Fund’s assets were all in sterling, held in London by the Crown Agents and its liabilities were denominated in HKD. This currency mis-match did not pose a risk until the £/HKD exchange rate came under threat in 1967.

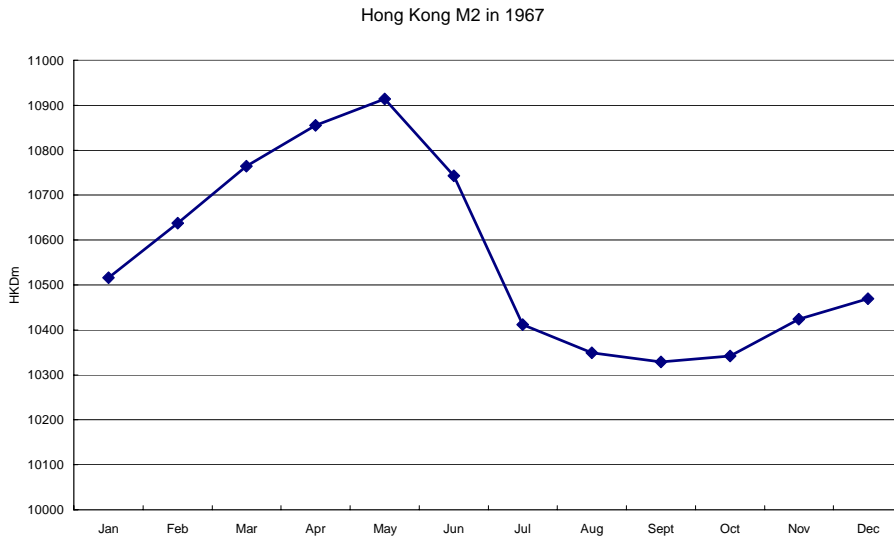
When increasing the local supply of currency, the note-issuing banks (HSBC, Chartered Bank [now Standard Chartered] and Mercantile Bank) credited the Hong Kong Exchange Fund’s account in London with sterling and the Financial Secretary issued in return HKD-denominated Certificates of Indebtedness (CoI) to the value of these sterling deposits at the pegged exchange rate. The banks were then entitled to issue this value of HKD notes. CoI could be redeemed through the Exchange Fund at the cost of a slight exchange margin when the banks wanted to withdraw notes from circulation. HSBC issued about 90% of notes. The Fund invested the sterling through the Crown Agents in London and received the interest, using it to pay for the costs of printing, transport, and cancellation etc. of the excess note issue for HSBC and Chartered but not for Mercantile Bank. One final aspect is the unusual governance of the Exchange Fund through the Exchange Fund Advisory Committee (EFAC) comprised of the Financial Secretary (Chair), the Accountant General (Member and Secretary), and representatives from each of the note-issuing banks, with no outside participants. The accounts and proceedings were strictly confidential and not reported to LegCo or the ExecCo. EFAC routinely reviewed and accepted the Annual Report and Balance Sheet of the Fund, advised on investment strategy and during the late 1960s was instrumental in amending the operations of the Fund.

When sterling was floated against the USD and other currencies in June 1972, Hong Kong was faced with the choice of whether to maintain the peg to sterling and float against most currencies, to float independently, or to peg to another currency. The decision was made to peg to the USD and at the same time to alter the operation of the Exchange Fund so that it accepted HKD balances rather than sterling as backing for the note issue. Note-issuing banks credited special deposit accounts ear-marked for the Exchange Fund and received the equivalent value of Certificates of Indebtedness against which they issued notes. Overnight, this marked the end of the

formal currency board rules that require foreign currency backing for the note issue.⁸ By transferring the assets of the Exchange Fund from London to the Hong Kong banking system, this innovation changed the nature of the monetary system fundamentally. When the HKD floated free of its pegged rate in November 1974, the government was left with no mechanism to control monetary expansion. Several scholars have recently been critical of the abandonment of the strict currency board rules in July 1972 when the backing for the note issue certificates of indebtedness were allowed to be issued against HKD balances rather than foreign exchange.⁹ They interpret this important change as an unintentional response to immediate events, taken without a full understanding of the underlying consequences for monetary stability when there was no central bank and no mechanism to control money and credit expansion. Based on archival evidence from the HSBC Group Archive, the HSBC Asia Pacific Archive, the Bank of England, UK Treasury and UK Foreign Office, this paper examines this decision in its longer term policy context and argues that it was the culmination of a series of alterations to the operation of the Exchange Fund during the collapse of the international monetary system from 1967 onward. The main argument is that the Hong Kong government's response to the crumbling of the international monetary system was to make the Exchange Fund operate as much more than a currency board well before 1972. In particular, it was used to provide forward cover for commercial banks but this proved especially costly in the volatile environment of the end of the global pegged exchange rate system, so that in 1973 the cover for currency issue fell from 117% to 82%.

1. Issuing Currency Notes against HKD Balances Considered in June 1967

Breaking the currency board rule of issuing notes only against foreign exchange was first considered five years before it was actually done. During the May 1967 political disturbances in Hong Kong, the note issue had to be expanded dramatically in response to a run on banks.¹⁰ At the same time the Bank of China demanded to buy large sums of sterling and this led the HSBC to identify a looming shortage of sterling to meet these two demands. The issue of notes against HKD balances was considered as a way to avoid the danger of a monetary contraction and to counteract the sterling shortage. This was not in the end required, but the expansionary impact of a HKD-backed note issue was clearly understood by J.J. Cowperthwaite as Financial Secretary.



The HSBC made a range of suggestions to Government in early June 1967 including issuing notes without 100% sterling backing, or issuing them for ‘free’ against the Exchange Fund’s surplus reserves. This memorandum was sent by the Hong Kong government to the Colonial Office in London where John Cowperthwaite, Hong Kong’s financial secretary, was due to arrive on 7 June. Back home, the Hong Kong Government suggested that HSBC pledge its own UK government securities rather than sterling cash against CoI but this was quickly rejected. The Chairman, FJ Knightly replied ‘our securities were part of the bank’s reserves as a whole and were not available to meet a crisis inflation of the Note Issue. I have always thought there was a trap attached to this Note Issue role of ours’.¹¹ In London, Cowperthwaite suggested to the Bank of England that it would be legal for HSBC to pledge HKD balances as backing for new note issue. This would merely require an administrative decision from Cowperthwaite that he would be willing to make. Haslam of the Bank of England suggested that HSBC should take up this solution and both George Stewart of the London office and Northcote [Chartered Bank] favoured this outcome if the situation worsened.¹² Stewart also reported to his Hong Kong office that the Crown Agents were willing to lend part of the increase in the liquid sterling funds that arose from the increased note issue back to the HSBC and Chartered Banks.¹³ I haven’t been able to discover if this was done, but it clearly would mark a departure from the monetary orthodoxy of the currency board if this did occur.

Instead of these more radical departures, at the end of June the Hong Kong Government deposited £10m on seven-day deposit with the HSBC, thus increasing HSBC’s London sterling holdings from £42m to £52m to allow them to increase the

note issue or 'feed' the Bank of China if necessary.¹⁴ In the end, the crisis was short-lived and currency returned to the banks so that the note issue was successfully reduced as confidence returned. Nevertheless, this episode does establish that the issue of CoI against HKD balances was considered in the context of avoiding a monetary contraction. Although the details of the discussions are not available it seems most likely that the expansionary implications were understood at the time. This episode also established that this practice would fall within the existing Exchange Fund Ordinance, requiring only an administrative decision by the Financial Secretary (taken ultimately in July 1972). The authorities did not take this step because the monetary contraction ceased and a change of policy was not in the end required.

2. Exchange Fund pays Compensation to Hong Kong Banks in December 1967

On 18 November 1967 sterling was devalued by 14.3%, placing considerable pressure on Hong Kong to determine its response. Initially, the Executive Council agreed that the HKD should follow sterling. This outcome was described by Holmer, a Bank of England official who was present at the meeting, as 'a struggle between the banking group and some officials, and the Chinese members who were particularly concerned with the prospects of rising costs....The decision to go with sterling was nevertheless reached within three-quarters of an hour after my withdrawing from the Council room. The banking view seemed very quickly to prevail'.¹⁵ A few days later, as public pressure increased over rises in the cost of living, Holmer reported that 'the administration had cold feet' and on 23rd November Cowperthwaite announced a revaluation of 10% against the pound (from HK\$16 to HK\$14.5), amounting to a devaluation of 5.7% against the US\$. At the same time, he privately asked for Bank of England support in arranging (but not paying for) compensation to banks for initially making the 'wrong decision', although Holmer remarked that 'to embark on a policy of compensation without knowing the dimensions of the problem with any precision seems to me to invite embarrassment'. At this point Hong Kong's total sterling assets were about £400m including outstanding sterling export contracts, so the devaluation created an immediate loss of about £56m.¹⁶

Since banks stood to lose on the HKD value of their sterling assets from the revaluation, Cowperthwaite offered the HSBC and Chartered compensation out of the reserves of the Exchange Fund. In LegCo on 29 November Cowperthwaite made

public his offer of a guarantee through the Fund for movements in the HKD/£ rate in 1966 (this was news to PL Graham, manager at the Chartered Bank who first heard of the Financial Secretary's intentions in the *South China Morning Post*).¹⁷ The HSBC recorded an oral undertaking by Cowperthwaite made in October 1966, when the USD value of sterling was under pressure.¹⁸ The rationale for compensation was initially restricted to the note-issuing banks who had, 'by convention', an obligation to buy and sell sterling on demand within a narrow range of exchange rates. Compensation was not so easy to justify for other exchange banks except that exchange control prevented them holding large liquid assets in any foreign currency other than sterling. Unauthorised banks had no such claim. Cowperthwaite summarized that 'the principle it is proposed to apply is that net losses be met only in respect of those transactions on which it was impossible for the banking system to cover its position; and not in respect of those where cover could be obtained from customer or otherwise even if this was not the general custom'.¹⁹

Of the total compensation eventually paid to authorised banks in 1968 (£10.4m) the HSBC received the lion's share (£5.7m or HK\$82.8m).²⁰ In addition, HSBC's London Office compensation was £240,625 (equivalent to HKD3.5m) paid on 2 December 1968.²¹ Hang Seng Bank (owned by HSBC) was particularly insistent on receiving compensation because it had unwisely built up its sterling balances in London just prior to the devaluation for commercial purposes and to take advantage of high interest rates there.²² After much lobbying, late in 1968 Cowperthwaite agreed that the Fund should compensate 6 unauthorised banks' losses to a total of £196,971, paid in early 1969.²³ The HKD value of the Exchange Fund's assets fell by the equivalent of £13m in 1967 and then total compensation to banks amounted to £10.6m over the next two years, resulting in a total cost of £23.6m or 16.5% of total assets in 1968.

In March 1968, as the international monetary system was rocked by the Gold Pool Crisis, the HSBC's overbought position in sterling was accumulating quickly and they wrote to Cowperthwaite seeking cover if the HKD/£ rate increased again. In response, Cowperthwaite offered to use the borrowing powers of the Fund (then HKD30m) to engage in a forward swap to provide cover. The Fund would borrow HKD from HSBC; HSBC would then sell an equivalent amount of sterling to the Fund with a repurchase contract set at the prevailing exchange rate. The Fund would pay interest on this borrowing at the inter-bank rate.²⁴ This met with a favourable

response at HSBC, but it is not known whether the deal was implemented. What is important, however, is that this initiated the use of the Financial Secretary's borrowing powers through the Exchange Fund to offer forward cover to banks. The correspondence at this time referred on both sides to the HSBC's responsibilities as a 'quasi-central bank' for Hong Kong to protect the HKD/£ exchange rate.

The Fund's compensation agreement for banks counteracted the deflationary impact of revaluation of the HKD and established that the Exchange Fund was responsible for the effects of exchange rate variation on banks, although not yet for direct intervention in the exchange market. As the international monetary system crumbled, this responsibility became more acute and more costly.

3. Exchange Fund buys HKD Bonds from London to get cover for £/HKD

Exchange Rate: June 1968

In the months after the devaluation, the Hong Kong government lobbied successfully to be the only sterling area member to receive any form of future exchange guarantee for their sterling holdings.²⁵ The rationale from the British point of view was not only the statutory requirement for the colony to hold sterling assets, but also the very large volume sterling held by private banks, which Cowperthwaite threatened would be dumped on the market if there was no cover for official assets. In May 1968 the British Treasury agreed to issue £100m-£150m worth of 7- year non-negotiable HKD bonds in exchange for 50% of Hong Kong's sterling assets, effectively covering the HKD value of this proportion of Hong Kong's sterling reserves in the event of a depreciation of sterling against the HKD. As part of the agreement the Hong Kong government agreed not to revalue the HKD unilaterally so the scheme only protected Hong Kong from a general realignment of sterling's parity similar to the 1967 devaluation. Executive Council members accepted this proposal only very reluctantly since they wanted a USD guarantee.

On 17 June the Exchange Fund spent £61.875m to buy HKD900m worth of the bonds, transforming the nature of their assets. The impact on the Exchange Fund was to break the guidelines set by EFAC in June 1966 for the investments of the Fund; which were that assets to the value of the CoI should be invested 10% in the Joint Colonial Fund (liquid), 20% in securities up to 5 years' maturity and 70% in long dated securities chosen to maximize yield. In addition, the proceeds of all new CoI should be held liquid for 3 months. The first £5m of any surplus assets should be

liquid, the next £10m invested in securities up to five years and the rest in long dated securities. Liquid assets were thus held outside the domestic banking system in the Joint Colonial Fund managed by the Crown Agents in London, and 70% of the assets were illiquid. In April 1967 EFAC further agreed that the Crown Agents be instructed that all investments should be in British securities (i.e. British government or local and public authorities) and none in other Commonwealth stock.²⁶

In the Fund's accounts, the new HKD bonds were treated as liquid assets, although they were qualitatively different from liquid assets in the Joint Colonial Fund. The bonds could be liquidated by the Exchange Fund for 'reasons of liquidity' without consulting with London, but otherwise they could only be sold after mutual agreement with the British government. Any bonds prematurely redeemed also earned a punitive interest rate of about 1% below the National Loan Fund rate in the first three years, falling to 0.375% below this rate once the full term was reached in 7 years. The HKD Bond purchase overwhelmed the Exchange Fund's accounts, completely liquidating the Fund's holding of short term securities, replacing one third of long dated securities as well as reducing the liquid assets in the Joint Colonial Fund. The Crown Agents were asked to sell the shorter end of the longer term securities to minimise losses on yields, but it was estimated that with the National Loan Fund rate at 7 3/8%, the cost in loss of interest of taking up £100m of the bonds would be about £400,000 p.a. on the yield to redemption of the current investments.²⁷ Importantly for the next stage in the Exchange Fund's innovation, in order to take up the issue the Exchange Fund ordinance was revised to increase the borrowing power of the Fund from HKD30m to HKD1500m. Table 1 shows that the HKD Bonds made up over 43% of the Exchange Fund's total assets in June 1968. On 25 September 1968 the HKD bonds were redeemed without interest penalty when a new Sterling Agreement came into force and the proceeds (£63.1m) were reinvested in sterling securities by the Crown Agents on behalf of the Fund.²⁸

Table 2: Exchange Fund Investments 1968 (£ million, % in parentheses)

	16 June 1968	17 June 1968	October 1968	November 1968
Liquid in Joint Colonial Fund	22.9 (16%)	14.7 (10%)	16.4 (11%)	18.95 (13%)
0-5 Year Securities	28.7 (20%)	0.1	51.0 (35%)	34.91 (24%)
6-10 Year Securities	0.5	-	-	-
Long Dated Securities	90.3 (63%)	66.5 (46%)	78.7 (54%)	94.24 (64%)
HKD Bonds Issued		61.9 (43%)		

by HMG (7 Year)				
Total	142.4	143.2	146.1	148.1

Source: Exchange Fund Investments, Memo for EFAC meeting 28 October 1968. HSBC Group Archive, Chairman's Files, Box 2.19.

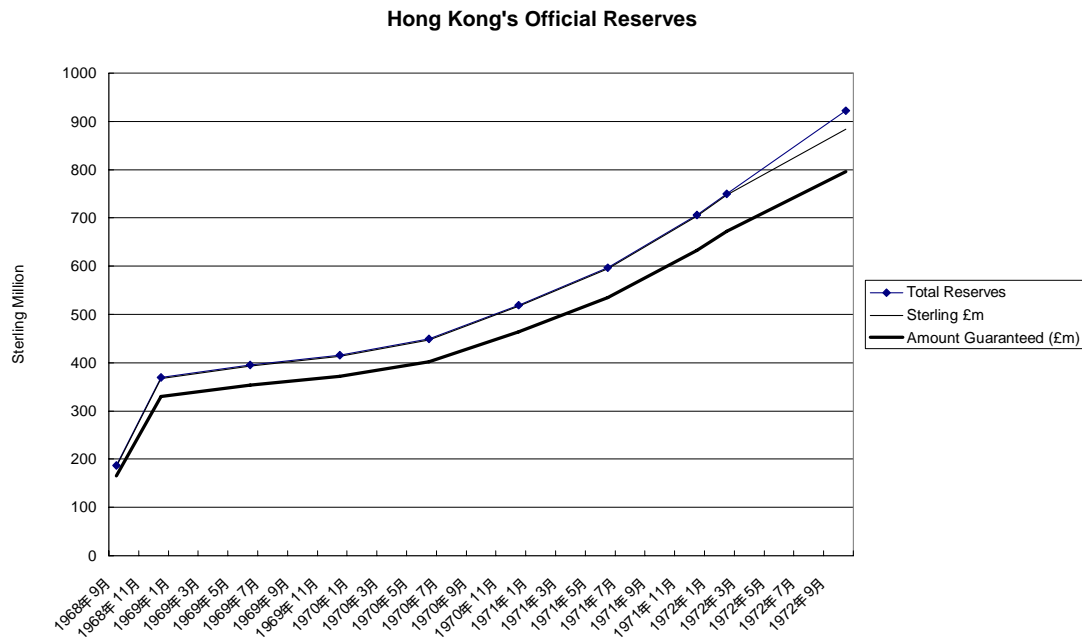
Although short-lived, the London HKD Bond scheme had an important effect on the evolution of the Exchange Fund. Because of the low market value of long-dated securities, these were no longer very liquid and it was noted in EFAC that selling them to buy HKD bonds would result in losses.²⁹ In mid-June 1968, Cowperthwaite proposed a scheme to allow the Exchange Fund to take over short term sterling assets from note-issuing banks to buy the bonds. He suggested that HSBC and Chartered should supply the Fund with sterling to a total of about £40m shared 5 to 1 by each bank respectively. In return, the Fund would issue non-negotiable one year HKD bonds at 7.06% interest p.a. that would be freely convertible into Certificates of Indebtedness to back any necessary expansion of the note issue (i.e. the Fund would forego its exchange margin).³⁰ The HSBC share was £33m and the Chartered was to take up the other £7m. The banks agreed these terms at the end of June and HSBC proposed to take up £22m of the Fund bonds by the 25 July.³¹ By this time, however, London had new proposals for all sterling asset holders that replaced the London HKD Bonds and the scheme was not implemented.³² Nevertheless, this strategy was soon offered to all banks as a way to take their sterling assets into the USD/£ guarantee on official sterling assets offered by London in July.

September 1968 London provides Hong Kong Government 90% Cover for £/USD Exchange Rate

The subsequent Sterling Agreement between Hong Kong and the UK was one of 34 similar agreements negotiated in the summer of 1968 whereby signatories agreed to keep a minimum proportion of their reserve in sterling (MSP) in return for an exchange guarantee of the USD value of 90% of their official government held sterling reserves. These guarantees in turn were backed by a line of credit of USD2b provided by G10 central banks through the Bank for International Settlements (the Basle Agreement). Hong Kong's MSP was set at 99%, the highest of any signatory. Their situation was complicated, however, by the lack of a central bank which meant that some of the sterling held privately in Hong Kong was actually held for official purposes. This pertained particularly to the sterling holdings of note-issuing banks

which were obliged to buy sterling in the market to keep the official exchange rate stable and to keep liquid balances in sterling to buy CoI if the note issue had to be increased – as was shown in the May 1967 crisis. When the Sterling Agreement was negotiated Cowperthwaite confirmed with the Secretary of State for the Colonies that ‘there would be no objection to local arrangements being made to enable private bank funds to be taken into official reserves’.³³

From November 1968 Hong Kong was largest single official holder of sterling, which made them a major beneficiary from the London USD guarantee. In December 1971 Hong Kong held £703.6m of official sterling, Australia £637.2m and Kuwait £334.8m. Figure x shows how official reserves increased quickly in the early 1970s as the Hong Kong economy boomed.



Source: TNA T312/3114.

4. Exchange Fund Issues HKD Certificates of Indebtedness in September 1968 to Provide Forward Exchange Cover for Hong Kong Banks - Increased Borrowing Power of the Exchange Fund

Because the banks’ sterling assets could only be included under the London guarantee if they were transformed into deposits of the Exchange Fund, bringing the sterling holdings of banks into the £/USD guarantee required swaps of £ for HKD between the Exchange Fund and these banks. A scheme was put to the Exchange Fund Advisory

Committee at its meeting at the end of October 1968 to be offered to all authorised and unauthorised banks. The Fund borrowed HKD from the banks in return for a non-negotiable, non-interest bearing debt certificate (CoI). The Fund used the HKD cash to buy an equivalent amount of the banks' sterling assets, which would then be re-deposited with the banks on account of the Fund. In this way banks swapped their sterling assets for a HKD denominated claim on the Fund and the Fund acquired the sterling assets of the banks while leaving them on deposit for the banks to use as they wished. The intention was that the banks would treat the sterling liability as if it were still a sterling asset. To confirm this, the Fund was originally not allowed to initiate redemption of sterling deposits until the facility expired on 24 September 1973. This was subsequently changed to 1 months' notice but Cowperthwaite promised that 'the likelihood of this ever being done is very remote'.³⁴ The banks, however, could buy or redeem the HKD CoI at any time. In addition, the note-issuing banks could exchange their HKD CoI for sterling CoI whenever the note issue was expanded and vice versa without further exchange cost. The sterling CoI would then be a liability of the Fund, and the matching asset would be the sterling on deposit with the note-issuing bank. The balance sheet implications are suggested below.

1. Issue of HKD CoI to Banks

Bank Balance Sheet	
Assets	Liabilities
-£100 sold to Fund	+£100 deposit by Fund
+HKD1454 claim on Fund	
Exchange Fund Balance Sheet	
Assets	Liabilities
+£100 Deposit at bank	+HKD1454 CoI

2. Exchanging HKD CoI for £ CoI

Note-Issuing Bank Balance Sheet	
Assets	Liabilities
-HKD1454 CoI	+HKD1454 cash
+£100 £ CoI	£100 Deposit by Fund
Exchange Fund Balance Sheet	
Assets	Liabilities
+£100 Deposit at bank	-HKD454 debt certificate
	+ £100 CoI

Predictably, the banking members of the EFAC generally welcomed the proposal,

although they objected to the cost of the cover, which included an exchange margin for the Fund on the redemption of the HKD certificates of 1/8 penny plus 1/8% p.a. interest to be paid on the Fund's sterling deposits at the banks.³⁵ It was also agreed that cover for head office funds of Hong Kong based banks should be negotiated between the Fund and the bank. The banking members of EFAC also wanted to bring forward proposals for the Fund to provide more general forward cover facilities for commercial transactions.³⁶ The deal agreed for the London office of HSBC was that the Exchange Fund would take over £25m of their sterling along the lines of the Hong Kong scheme but it would be only 90% guaranteed (equal to the London government guarantee). The HSBC London branch duly opened a deposit account for the Fund to re-deposit the sterling.³⁷

In early December 1968 the Financial Secretary explained to the Secretary of State for the Colonies that in order to bring commercial banks' sterling assets into the British government exchange guarantee 'our intention is that Exchange Fund borrow HKD from banks, purchase their eligible sterling assets therewith and re-deposit in sterling with banks. There would be strict provisions to ensure that banks were at all times firm holders of underlying sterling assets of type eligible for guarantee in amount of at least exchange fund sterling deposits with them'.³⁸ The scheme required increasing the Exchange Fund's statutory borrowing limit above HKD2b, which was eventually agreed to raise it to HKD3b on 20 December.

The scheme was finally offered to the Exchange Banks' Association at the end of January 1969 and implemented in March with slightly more generous terms after the protests at EFAC. Cowperthwaite insisted that because of the gap between the 100% guarantee offered to banks by the Fund and the 90% guarantee offered by UK, there should be a charge to recognise the risk borne by the Fund. The Fund charged an exchange margin of 1/16d on issue of the HKD debt certificates payable by banks to the Fund in sterling. The debt certificates would be interest free. The banks would also pay 3/32% pa interest on Exchange Fund sterling deposits with banks, payable semi-annually in sterling. The agreement was to last until 24 September 1973 when the UK sterling agreement was due to expire. If the £/HKD rate changed more than 1% for 30 continuous days, the Fund was liable to pay compensation within 60 days thereafter. With respect to the sterling deposits, JG Paterson the Hong Kong Banking Commissioner confirmed to Chartered Bank that 'the assets placed at the disposal of the Exchange Fund will continue to be regarded as the property of your bank' and

would be guaranteed by the Exchange Fund.³⁹

Before the scheme was even offered to the local banks (or described to London) the Exchange Fund was forced to activate it to provide forward cover during a sterling exchange crisis in November 1968. The Fund took over £177m of sterling assets from the three note issuing banks plus the Bank of East Asia. By 21 November the HSBC held £126m on deposit for account of the Exchange Fund against non-interest bearing HKD certificates of indebtedness for HK\$1.8b; and Chartered held a further £11m in deposits on the same terms. The agreement at this point allowed the position to be reversed in two months time without charge.⁴⁰ The Governor Sir David Trench alerted the Foreign Office that without this swap of HKD for sterling, these banks might have refused to continue to buy sterling in the market to keep the rate fixed. Trench explained that

This action was necessary not only for Hong Kong's protection but also to prevent a situation arising where there was no official buyer of sterling (a role played by the note-issuing banks) and it went to a substantial discount. The note-issuing banks had to absorb large quantities of sterling, mostly from other banks and the Bank of China stopped buying temporarily. The note issuing banks could not be expected to carry on without protection and we could give it them only in this way. As it was they had to assume substantial forward risks in respect of export contracts. Because of this arrangement it was possible to keep the HKD/£ market open throughout the crisis. The arrangement has been kept confidential.⁴¹

This operation required the Fund to exceed its statutory borrowing limit, which had to be ratified retrospectively by London, causing some consternation in the Treasury.

The Exchange Fund guarantee scheme was finally launched on 1 March 1969, when the Fund borrowed over £190m from the banks and then a further £15m over the next three months bringing the total by the end of May to £205m. Altogether, 33 banks participated including foreign banks and 4 unauthorised banks, although 88% was held by note-issuing banks and their subsidiaries (HSBC, Chartered and Hang Seng Bank).⁴² No Communist banks took part. London worried that there was no limit to the amount of sterling the Fund could borrow from the banks and that there was no control on foreigners transferring sterling to Hong Kong banks to take advantage of the guarantee. They tried to get Cowperthwaite to set an upper limit, a request he dismissed as 'arbitrary use of the Secretary of State's powers'.⁴³ Setting

an upper limit could bring into question the convertibility of HKD to sterling since the access of the commercial banks to the scheme was vital to their continued participation in the sterling market. As in November, the scheme was justified because otherwise banks would stop buying sterling at the official rate 'which would have incalculable effects in the colony on confidence in sterling'. By 16 May the Fund's borrowing had reached HKD2992m out of its limit of HKD3b and Cowperthwaite asked for the limit to be increased to HKD3.5 or HKD4b.⁴⁴ London refused and the stage was set for confrontation. In the meantime the scheme was continued by transferring just over £2m of the Fund's revenue reserves from HK dollar bank accounts into sterling.⁴⁵

With no recourse to the Exchange Fund swap to cover their sterling holdings, on 20 May 1969 HSBC suspended further forward purchases of sterling against export contracts and Cowperthwaite advised London that other banks would probably follow because 'they are no longer prepared to take the exchange risk involved'.⁴⁶ Peterson and Cowperthwaite set off for London for talks at the end of May to resolve the impasse, holding meetings at the Treasury described by Cowperthwaite to the EFAC as 'a rather extraordinary affair'. In the end, the British were persuaded that the increase in sterling assets was due mainly to an export boom rather than capital inflow to take advantage of the guarantee, but that there was no way to make sure that all the sterling in the scheme was from Hong Kong residents. They agreed to lift the borrowing limit for the Fund, but the negotiations for how much commercial bank sterling the Fund would be able to swap for HKD with the commercial banks, which banks would participate, and what would happen to the sterling assets so acquired lasted until March 1970.

The final agreement was that 40% of the sterling acquired from the three largest participating banks (HSBC, Chartered and Hang Seng Bank) would be put on deposit in London for the account of the Fund.⁴⁷ In this way the UK felt more confident that the sterling was legitimately on official account but it did not limit the banks' use of this sterling since it was merely deposited with the banks' London offices. EFAC accepted the British proposal to earmark funds in London, although the minutes of the meeting of 9 June report that 'some doubt was, however, expressed that so simple and seemingly pointless a manoeuvre could be all that was really demanded'. Haddon-Cave later referred to it as an 'Alice in Wonderland exercise'.⁴⁸ By the end of March HSBC had earmarked £50m at their London office for account of the

Exchange Fund.⁴⁹

One of the implications of the new scheme was the need to increase the borrowing powers of the Exchange Fund dramatically. In May 1970 ExecCo was asked to approve an increase from HKD3b to HKD3.5b which was agreed in June. In August 1970 the Governor wrote to London to change the Exchange Fund Ordinance to allow LegCo to grant increases in borrowing powers to the Fund on advice of Financial Secretary and still with the approval of the Secretary of State for the Colonies.⁵⁰ Approval was finally granted in March 1971. 1 September 1970 they ask for a further increase from HKD3500m to HKD4000m (£277m). Table 2 shows the growth in the Fund's borrowing powers.

Table 2: Financial Secretary's Borrowing Limit for Exchange Fund

	HKDm	£m equivalent
Prior to July 1968	30	2
July 1968	1500	103
November 1968	2000	138
December 1968	3000	206
June 1970	3500	241
October 1970	4,000	275
May 1971	5,000	344
June 1972	7000	480

London allowed Hong Kong to diversify its total reserves from 99% sterling to 89% from September 1971 but they did not take up this opportunity before sterling floated downward in June 1972. By the end of July the ratio had fallen to 97.3%, end August 96.9%, and end Sept 96.8%.⁵¹ As part of a general review of investment policy, on 22 May 1972 (i.e. a month before sterling floated) the EFAC agreed to recommend that the Fund should be able to invest in 'foreign currencies and foreign government bonds, foreign government guaranteed bonds, and bonds issued by foreign organisations similar to UK local authorities' and the approval of the Secretary of State was sought.⁵² The Exchange Fund Ordinance already allowed the purchase of foreign currency other than sterling and this was undertaken before the Secretary of State's approval to buy non-sterling securities was granted.⁵³ In the end, because of the high interest obtainable in London the EFAC decided not to buy any non-sterling securities during 1972 or 1973 although they did switch some cash assets. We will see below that the illiquidity of the long term assets inhibited diversification.

One last wrinkle to the story is that the Smithsonian Agreement of December 1971 revalued sterling against the USD to USD2.60/£ from USD2.40/£ but the London guarantee threshold was not changed, effectively making it inoperable until sterling had depreciated at least 8% rather than the 1% under the initial terms. This exposed the Hong Kong government to a further liability since their guarantee was in terms of the current HKD/£ rate. Mike Sandberg, as a member of EFAC asked that the Governor should raise this issue with London.⁵⁴ But the possibility of adjusting the guarantee threshold was quickly dismissed in London despite the claims of several other central banks that this violated the spirit if not the letter of the sterling agreements.⁵⁵ This had most important effects on Hong Kong because it reduced the government's cover for their HKD guarantee of banks' sterling holdings.

5. July 1972 – Switch from Sterling peg to USD peg

On 6 July 1972, two weeks after sterling floated on 23 June, the Hong Kong government decided to switch their exchange rate peg from sterling to the USD. This was greeted with equanimity in London, no doubt because the diversification of their reserves was still limited by agreement to 11%.⁵⁶ The HSBC had not been approached for advice in advance and was critical of the decision. The Hong Kong manager, MGR Sandberg told Haddon-Cave that

cutting ourselves off from sterling, however tempting it might seem to set the HKD up as an independent currency instead of merely an adjunct of sterling which it has always been, was taking a risk when practically all our reserves are in sterling. Secondly, with the almost total lack of exchange control regulations here speculation against the HKD (whether as an over or an undervalued currency) could be a Gnome of Zurich's dream and a Financial Secretary's nightmare.⁵⁷

Sandberg believed Haddon Cave had chosen the USD rate of HKD5.65 with margins of HKD5.77 and HKD5.52 'arbitrarily' and that it was too high, especially when the government had no USD to intervene when required. The local USD market was not big enough to provide enough dollars so sterling would have to be sold in London for the funds to intervene in the exchange market.

Major interventions in the HKD Exchange Market by the Exchange Fund 1972-1973
(-sales/+ purchases)

27 July-8 August 1972	-USD20.25 and -£4.815m
19-22 February 1973	-USD5m
May 1973	-USD1m
July 1973	+USD30m

Source: Exchange Fund Report on the Accounts for 1972. HSBC, Chairman's Files, 1459/Box 2.19. Exchange Fund Report on the Accounts for 1973. TNA FCO40/521. These major interventions were in addition to 'smoothing operations [that] were from time to time conducted in conjunction with the Exchange Fund's bankers'.

On 10 February 1973 the USD was devalued by 10% and the Executive Council met on 14 February to decide that the HKD should retain its gold parity and revalued by 11.1% against the USD. In March 1973 there was a further global run on the USD and from this time, most European currencies and the Yen floated against the USD (the Yen had floated in February 1973). The HKD/USD came under increasing pressure in May, but by July the Fund was purchasing USD back from the market to keep the HKD at its upper band. By the end of 1973 the Fund had about 60% of its call money in USD compared with about 50% in 1972, and 35% of its fixed deposits in USD compared with 18% in 1972. Still, only 15% of total assets were denominated in USD, leaving 74% in sterling.

Changing the anchor currency did not precipitate a major shift in the currency denomination of the Exchange Fund's assets because the market value of sterling securities was very low in 1972 and diversification would have entailed substantial losses. The strategy of investing 70% of the Fund's assets in long dated securities proved costly as London interest rates rose and the gilt market fell. In 1968 the depreciation of HMG assets amounted to £8.5m and in 1969 to £6.3m. From the end of 1971 to the end of 1973 the Financial Times Government securities index fell from 80.32 to 61.05 so that by the end of 1973 the nominal value of the longer term portion of the reserves was £225.2m but the market value was just £133.2m.⁵⁸ Nevertheless, when the market seemed relatively strong at the start of 1973, £20m of gilts were sold to generate the funds for the compensation payments due later in the year.

At the same time as sterling floated, the sterling area system was disbanded. This meant that authorised banks were no longer excluded from holding positions in currencies other than sterling, which undermined the rationale for the government to cover banks' sterling holdings.⁵⁹ It also appears to have released HSBC from its obligation to use its own resources to defend the exchange rate. As soon as the new peg was announced, a line was drawn on outstanding HKD debt certificates so that

there was no increase and no redemption, but banks were required to keep paying interest on their Fund sterling deposits.⁶⁰ Any future compensation would be paid on 100% of the banks' sterling holdings as of 6 July even if they reduced them in the meantime. At this point total debt certificates outstanding were at the maximum level in terms of the Exchange Fund borrowing limit of HKD6999m. Predictably, the decision to freeze the HKD certificates was greeted with indignation by the banks and this was soon to be compounded by delays over compensation.⁶¹

Sterling quickly fell below the 1% threshold against the HKD on 6 July and payments under the guarantee came due to be paid on 5 October 1972, but the government tried to delay settlement. Based on a disputed reading of the terms of the agreement that referred to compensation in relation to 'the new parity', Haddon-Cave stated that compensation would only be paid after a pegged rate between the HKD and sterling was restored.⁶² The British asserted their intention to return to a fixed parity within six months, in time for their entry to the EEC at the start of 1973, so the Hong Kong government proposed to await this new parity to re-establish the HKD/£ rate. HSBC responded that the government was in breach of contract and several weeks of wrangling ensued.⁶³ In August 1972, HSBC was secretly able to negotiate a release of up to £30m of their HKD certificates at the prevailing exchange rate to allow them to intervene in the foreign exchange market to stabilise the USD/HKD rate and to supply the Bank of China with sterling.⁶⁴ The Exchange Fund paid compensation to HSBC on the released certificates and the corresponding sterling deposits were cancelled. The limit was adjusted to £35m in November 1972 and by the end of the year, HSBC had taken out £56.6m of which £24m was in December alone. Up to the end of November this cost the Exchange Fund £2.843m in compensation to HSBC for depreciated sterling.⁶⁵ Meanwhile, on 25 October 1972 the £/USD rate fell below the London guarantee threshold and the clock started to tick on the 30 day deadline after which London would have to pay compensation.

Despite receiving some compensation for their sterling assets, at the end of October 1972 HSBC announced that they would diversify their reserves (which amounted to about £300m) by £10-15m per month starting in January 1973. The Hong Kong government feared that this would pull overall reserves into a breach of the Sterling Agreement, thus making them ineligible for the UK guarantee that they relied on to compensate their domestic banks.⁶⁶ In November Governor McLehose wrote to London setting out his predicament. Under its own scheme the Hong Kong

Government guaranteed the HKD value of 100% of the banks' sterling assets. But the Hong Kong government could only claim compensation from UK if the rate fell below US\$2.40 and then only for 90% of the value of official sterling assets. Since revaluation of sterling against the USD at the end of 1971 and then floating of pound from June 1972, for every 1% that sterling floated down the HKD value of the colony's sterling balances fell by HKD12m and when sterling was between USD2.60 and 2.40 this fell entirely out of HK government funds since no compensation was payable from London until the sterling rate fell below USD2.40. The gap between the two guarantee schemes was therefore building up a substantial future liability for the government. For this reason, abandoning the sterling peg made it even more vital that Hong Kong should negotiate a favourable new sterling agreement with the UK, or be allowed reduce its MSP to 75% to allow banks to diversify and reduce their claim on the Hong Kong government.⁶⁷

The solution reached after Financial Secretary Haddon-Cave came to negotiate in London in November was that Hong Kong banks could sell £100m of sterling over five months with a limit of £3m per day and £6m per week. Haddon-Cave decided to restrict the diversification to the HSBC because of its large note-issuing burden and because it held more sterling than all the other banks put together. Chartered Bank was reported to be content with this arrangement.⁶⁸ The scheme superseded the secret agreement for the Fund to redeem the HSBCs HKD certificates, accelerating the redemption considerably to an upper limit of £100m rather than £35m.⁶⁹ As it turned out the Bank of China's demand for sterling used up £90m of HSBCs sterling reserves and there was no diversification into other currencies.⁷⁰

As soon as the HKD guarantee level was breached in July, Haddon-Cave considered making compensation payments in sterling but he quickly rejected this solution since it would place a large burden on the Exchange Fund, introducing an exchange risk since the compensation from London would not be paid for some months. Meanwhile, the value of the Fund's sterling deposits at the banks fell below the value of the HKD certificates against which they were issued. The solution was to change the value of existing HKD certificates to reflect the new prevailing exchange rates. In addition the Exchange Fund issued a new series of HKD debt certificates 'in respect of the amount by which the value of the existing certificates is reduced'. These were separate from those held as the counterpart of sterling deposit receipts and bore interest at 5% p.a. payable by the Fund in HKD. In essence, the Exchange Fund

issued new HKD CoI as an initial adjustment claim on the Fund to be exchanged at the prevailing exchange rate once a new parity was set.⁷¹ The impact was again to offset the contractionary impact of the appreciation of the HKD on the money supply. The HSBC and Chartered both objected to the scheme, insisting that they were entitled to compensation payments in sterling dated from 5 October. While reluctantly accepting the new HKD certificates, they tried to get the interest paid from 5 October rather than 1 January as proposed by Haddon-Cave, and at the London market rate rather than the proposed 5%.⁷²

The new activities undertaken by the Exchange Fund led to calls in London for the Hong Kong government to begin to sell Treasury Bills to the banks instead of borrowing their HKD to buy up their sterling assets. This was rejected by Haddon Cave as it had been by his predecessor, John Cowperthwaite. The Hong Kong government had no borrowing requirements at this time and no interest in creating a local TBill or money market.⁷³ In his proposal to the Executive Council in January 1969 to set up the Exchange Fund guarantee, Cowperthwaite had dismissed issuing TBills to take over the banks' assets partly on the basis of 'the problem of setting interest rates, and so interfering with the internal interest structure in Hong Kong'. The government wanted no role in setting interest rates. In addition, Cowperthwaite wanted to let the banks continue to manage the underlying sterling assets.⁷⁴ He thus did not want the contractionary impact of sales of government paper. More fundamentally, Cowperthwaite and Haddon Cave resisted issuing TBills because this would encourage public expectations about government spending that would be difficult to resist if there was an easy way to raise short term debt.⁷⁵

6. Local Note Issue against HKD Balances

When the peg to sterling was abandoned, it no longer made sense to continue to issue certificates of indebtedness against sterling since the HKD/£ exchange rate was no longer stable. In fact, however, the Exchange Fund went even further and no longer required the deposit of any foreign exchange, thus breaking the strict currency board rules. Note-issuing banks were allowed to pledge HKD balances to the Exchange Fund to back new issues. Ghose and Greenwood explain the accumulation HKD balances as a way for the Fund to have resources to intervene in the foreign exchange market to protect the exchange rate of the HKD to the USD. The HSBC was no longer the buyer of last resort as it had been under the sterling exchange rate peg and

the Fund began to intervene in the market directly (although unsuccessfully according to Greenwood because they operated through the banking system).⁷⁶

From July 1972 all CoI were issued *and redeemed* against specified HKD accounts by the note-issuing banks. Up until this point, increases in note issue were covered by a payment of sterling banks' London office to the Hong Kong government and likewise when a reduction happened, sterling was received by HSBC in London from the government. As W. Purves described to GM Sayer, 'subsequent to the HKD being pegged to the USD we have credited a special Hong Kong Government No 5 Account with HKD to cover any increase in our unauthorised note issue and have debited this account in respect of any reduction.' The new assets of the Fund created after July 1972 thereby moved from the Crown Agents accounts in London to the note-issuing banks' balance sheets in Hong Kong. This is the fundamental mistake that Greenwood, Latter and Goodstadt are critical of, but the evidence presented here has shown that a large amount of the Fund's assets had been deposited with the banking system from November 1968 onward.

For the year as a whole, in 1972 a total of HKD1.631b of certificates of indebtedness was issued, of which 39% were against HKD balances. A total of HKD1.222b of certificates of indebtedness was redeemed of which 38% were settled in HKD.⁷⁷ HSBC noted that for the year 1972 the net increase in HSBC notes backed by certificates of indebtedness against HKD balances was HKD140m as against the total CoI outstanding of HKD3058m. In the first half of 1973, the net increase by HSBC was a further HKD122.7m.⁷⁸ HSBC paid interest of 3% p.a. to the government on this special account and surpluses were sometimes transferred by the government to call or fixed deposits on which higher interest was paid. Purves also noted that 'government appear to have passed some if not all of their exchange rate support operations through the special account and appear to have purchased foreign exchange from a number of non-note issuing banks in the Colony'.

While the net increase in HKD-backed CoI was quite modest, the Fund's new policy raised a challenge almost immediately when certificates needed to be redeemed but the Exchange Fund did not own any HKD balances so the Government had to provide a temporary advance to the Fund.⁷⁹ As a result the Exchange Fund for the first time opened HKD bank accounts even before any HKD certificates of indebtedness had to be issued. By the end of the year the Fund had accumulated £11.2m in HKD balances at call plus a further £11m on 3-6 month deposit. This

represented just under half of all money at call and just almost 40% of all non-sterling fixed deposits. A further impact of the switch to accepting HKD balances was that the liquid portion of the Fund's assets increased sharply because of the increase in HKD bank accounts (although this was also due to EFAC's decision not to buy foreign currency securities, having got permission to do so).

Table 3 shows some key features of the Exchange Fund's balance sheet, which shows the large size of the Sterling Guarantee Scheme compared to the assets of the Fund. A second striking feature is that the cover for the currency issue fell below 100% in 1973 and 1974. A very limited amount of diversification began in 1972 for liquid assets only. Finally, the Fund accumulated £16m worth of HKD deposits in the first six months of the new regime after July 1972, but the following year, these assets were run down to £13.4m suggesting that the HKD received from banks in exchange for CoI were invested in foreign exchange.

Table 3: Hong Kong Exchange Fund Accounts

	1967	1968	1969	1970	1971	1972	1973	1974 (Sept)
Total Assets Excluding Guarantee Scheme	166.537	142.787	155.67	184.75	252.037	269.951	231.202	231.842
Col	142.23	129.003	138.454	158.598	182.187	228.872	283.709	301.244
Cover %	117.1	110.7	111.66	115.79	138.34	117.95	81.49	76.96
Sterling Guarantee Scheme Deposits	0	177	194.3	239.7	220	424.6	0	0
Money at Call	46.21	21.455	24.923	26.687	27.346	24.125	39.883	63.149
HKD Balances	0	0	0	0	0	11.2	7.481	13.425
Sterling Balances	46.21	21.455	24.923	26.687	27.346	0.28	8.18	25.884
USD Balances	0	0	0	0	0	12.637	23.799	38.898
US Tbills	0	0	0	0	0	0	0.423	4.885
Fixed Deposits	0	0	0	0	0	28.66	28.5	35.63
DM	0	0	0	0	0	7.369	7.199	8.781
SwFr	0	0	0	0	0	4.121	1.278	2.726
BelFr	0	0	0	0	0	1.024	1.455	1.821
USD	0	0	0	0	0	5.187	10.114	incl. in cash total
HKD	0	0	0	0	0	10.959	8.455	0
Investments	120.147	121.333	130.749	159.42	224.691	217.585	163.025	132.252
Gold								0.809

Source: 1967-8 TNA FCO59/443, 1968-69 TNA FCO59/554, 1971-2 HSBC Group

Archive, Chairman's Files Box 2.19, 1972-3 TNA FCO40/521, September 1974

HSBC Asia-Pacific Archive, HK 0018 - Exchange fund balance sheets, 1947 - 1971.
Sterling Guarantee Scheme: The end 1971 figure is February 1972.

Through to 1975, sterling investments still dominated; a week before the HKD was floated in November 1975 Sayer of HSBC urged the Financial Secretary to diversify out of sterling despite the losses that would be taken on the gilt portfolio, remarking that 'the existing exposure is commercially unacceptable'.⁸⁰

Table 4 shows how the losses were accumulated in the early 1970s due to the appreciation of HKD liabilities against sterling and the depreciation in the market value of sterling investments. Also evident is the illiquid nature of the investment portfolio, which was still 70% invested in securities by 1973, and a full 62% of total assets was invested in maximum yield assets that were losing market value fast.

Table 4: Key Features of the Hong Kong Exchange Fund Accounts 1961-1974

	Gross Surplus for the Year	Appreciation or Depreciation on Assets	Exchange Rate Losses (net) on Sterling Devaluation	Appropriation of Development Loan Fund	Accumulated surplus carried forward	Investments in securities (% total assets)	Money held at call or short notice (%)
1961	3.203	127			15.139	84.19	15.81
1962	3.919	4.947			24.005	81.63	18.37
1963	3.771	0.38			28.156	70.79	29.21
1964	4.586	-4.553		9.375	18.814	81.77	18.23
1965	5.839	-0.311			24.342	80.22	19.78
1966	6.819	0.555			31.716	80.24	19.76
1967	9.339	-3.921	-13.008		24.126	72.22	27.78
1968	8.984	-8.928	-10.397		13.785	84.97	15.03
1969	11.693	-7.036	-0.277		18.165	83.48	16.52
1970	13.726	-4.38			27.511	85.66	14.34
1971	18.231	27.112			72.853	89.15	10.85
1972	17.353	-31.63	-17.078		41.498	80.48	19.52
1973	-94.005	-35.208	-26.868		-52.507	70.51	29.49
1974 (Sept)	-16.895	-30.808	-11.249		-69.402	70.45	29.55

Note: Valuation of Assets in Column 2 includes gains and losses on sales and redemptions as well as market valuation. Sources: Exchange Fund Report of Accounts for 1972. HSBC Group Archive, Chairman's Papers, 1459/Box 2.19. Data for 1973 from TNA FCO40/521, for September 1974 HSBC Asia-Pacific Archive HK0018 - Exchange fund balance sheets, 1947 - 1971.

It is clear from this new data that the collapse of the international monetary system posed a huge burden on the operation of the Exchange Fund because it took over exchange rate risk from the banking system.

7. Exchange Fund Compensates Banks for the Sinking Pound: 1973

In December 1972, Haddon Cave reported to LegCo that the liability of the Exchange Fund under the guarantee scheme was about £43m, less £9m due from London under the sterling exchange guarantee. Against this the Exchange Fund had earned about £1m from the cost charged for the HKD cover.⁸¹ This turned out to be a substantial under-estimate. From end May to 6 July 1972 Hong Kong's sterling reserves rose by £97m to a total of about £900m, of which a substantial proportion according to Haddon Cave was due to the demand for forward cover by banks.⁸² The lowest level of the Fund's special sterling deposits in 1972 was in February when deposits were about £311m. As sterling fell, banks rushed to buy HKD CoI and the Financial Secretary gained approval to increase the Fund's borrowing limit from HKD6000m to HKD7000m on the day sterling floated on 23 June. By 6 July, when the scheme was frozen, the Fund had the maximum HKD6999m in HKD CoI outstanding, equivalent to deposits of £481m.⁸³ The delay in making a decision about the exchange rate regime for Hong Kong thus increased the Exchange Fund's liability considerably.

The Exchange Fund guarantee expired on 24 September 1973, when compensation became due. Over the life of the scheme the Exchange Fund had earned £3.5m in interest and exchange margins, i.e. the 'cost' of the cover to the banks. Total payments by the Fund (including the interest on the new certificates issued in January 1973) amounted to £71.4m so the net cost to the Fund was £67.9m. The London guarantee generated revenue for the Fund of £13.4m in terms of compensation for losses of the £/USD exchange rate during October-November 1972, which covered part of the payments under the Exchange Fund guarantee but still left a burden of £54.5m on total assets of £270m at the end of 1972. The HSBC's arrangement to redeem some of the HKD CoI from January 1973 resulted in a reduction of £200.4m before 24 September 1973, costing the Fund £29.5m in compensation on withdrawals made at an average rate of HKD12.81/£. The early withdrawal of close to half of the total sterling on deposit cost the Fund some money in interest and exchange. The rate used to wind up the scheme in September was

HKD12.395=£1 on the balance outstanding of £38.2m. Most banks (all but 3) chose to be paid in HKD rather than sterling and this forced the Fund to buy HKD from the government's general account.

An important implication for the Hong Kong government's guarantee was that it pushed the reserve backing for the note issue well below 100% in 1973. In 1971 the cover was 138%, falling to 117% in 1972, but was only 81.49% at the end of 1973. This was kept highly secret to avoid rocking public confidence in the HKD, described by Haddon-Cave as 'about the most closely guarded secret in Hong Kong' because if it became known that the cover had fallen below 100% 'this could have a disastrous effect on public confidence'. At the time, Haddon-Cave expected that the 100% cover would not be restored for another 4-5 years. He decided not to transfer government funds to the Exchange Fund to make up the shortfall since this could be detected by the public in the annual budget, but fiscal reserves were earmarked against the shortfall and this reduced the amount available for development projects.⁸⁴ At the time Governor MacLehose and Haddon-Cave were in conflict over MacLehose's desire for greater development spending and Haddon-Cave's conservatism. There was a precedent for a shortfall in cover. In 1941 cover was almost 115% but it had fallen to 96.6% in 1946 due to the decision to honour the wartime duress note issue.⁸⁵ In 1953 the Financial Secretary declared that the assets of the Exchange Fund once again equalled the value of the CoI.⁸⁶

The compensation payments for 1973, combined with losses on the sales of assets and depreciation of gilts resulted in an unprecedented loss for that year of £94m and a deficit carried forward to 1974 of £52.5m. The Fund would have been able to generate a small surplus to cover the depreciation on assets and losses on exchange because of the substantial surplus of £41.5m brought forward from 1972, but the burden of the compensation payments created the deficit. The following year offered no relief (despite another £5.7m received under the London Guarantee) as the market value of assets continued to fall and the sterling value of the Fund's HKD liabilities appreciated so that the cover had fallen below 77% by September.

Conclusions

The Exchange Fund underwent a profound transformation during the collapse of the global fixed exchange rate system. Starting in 1967, the Financial Secretary and the

note-issuing banks began to devise ways for the Exchange Fund to increase the range of its activities based on close cooperation between the Financial Secretary and the note-issuing banks, both within the Exchange Fund Advisory Committee and outside it. At the heart of these innovations was the system's reliance on the HSBC to protect the pegged exchange rate to sterling. As sterling weakened, the HSBC threatened to stop supporting the rate unless it was offered forward cover. The mechanism for this was to bring the sterling assets of the banking system into the Exchange Fund not by selling TBills but through sales of HKD denominated non-negotiable bonds. The proceeds were re-deposited with the banks and the banks were reassured that they could treat the sterling as if it were still an owned asset of the bank, now with a guaranteed HKD value. To the extent that the HKD bonds were used to back the issue of new currency notes (which was allowed under the scheme) the backing for the note issue was shifted from sterling assets held by the Crown Agents in London to sterling deposits at Hong Kong banks. This change in 1968 marked a move away from the operation of an orthodox currency board much earlier than the innovation of 1972 when special HKD accounts were used to cover note issue. Currency boards rarely operate on completely orthodox terms as the temptation to intervene is often too great to resist. This was recognised when Hong Kong returned to a currency board system in 1983 when it was determined that the Exchange Fund 'shall be used for such purposes as the Financial Secretary thinks fit affecting, either directly or indirectly the exchange value of the currency of Hong Kong and for other purposes incidental thereto'. In the 1960s when the duties of the Fund were more closely circumscribed to 'regulating the exchange value of the currency of Hong Kong', the government and the banks clearly saw the Exchange Fund also as a resource to moderate the impact of fluctuating exchange rates on banks' assets, not as an automatic mechanism but through deliberate intervention. The outcome was that the assets of the Fund were recycled through the banking system and there were increased risks to the reserves of the Fund. Given the illiquid nature of the Fund's reserves this proved a particularly costly strategy.

¹ This paper was written while the author was a Research Fellow at the Hong Kong Institute for Monetary Research. Part of the research for this project was undertaken as part of the ESRC World Economy and Finance Programme, Grant RES165-25-0004. I am grateful for the research assistance of Niall MacKenzie, the archivists of the Bank of England, the HSBC Group Archive London and HSBC Asia-Pacific Archive. I also benefited from comments from Leo Goodstadt, Tony Latter and John Greenwood.

² Kurt Schuler and Steve Hanke were the most vociferous advocates. K. Schuler, *Should Developing Countries Have Central Banks? Currency Quality and Monetary Systems in 155 Countries*, Institute of Economic Affairs, 1996. S Hanke, 'Reflections on Exchange Rate Regimes', *Cato Journal*, 1999.

³ Hanke finds that after 1992 Hong Kong did not operate a strict currency board because the HKMA supervises banks and is committed to only 100% reserve backing for the local currency. The financial secretary is also able to use the Exchange Fund to maintain financial and monetary stability, but only 'with a view to maintaining Hong Kong as an international financial centre'. S. Hanke, 'On dollarization and currency boards: error and deception', *Policy Reform*, 2002, 5(4), pp. 203-222. However, since the Exchange Fund does publish a target of 110% cover and does not regulate banks, we might consider it a currency board, although the HKMA takes on other roles more similar to a central bank.

⁴ Ma et. al. recently found that Hong Kong's currency board peg to the USD resulted in poorer economic performance than Singapore's managed floating regime. Y. Ma, Y.Y. Kueh and RCW Ng, 'A comparative study of exchange rate regimes and macro-economic stability in Singapore and Hong Kong', *Singapore Economic Review*, Apr2007, Vol. 52 Issue 1, p93-116. For another critique of Hong Kong's currency board see Y. Wu, 'A modified currency board system; theory and evidence', *Journal of International Financial Markets, Institutions & Money*, Oct2005, Vol. 15 Issue 4, p353-367.

⁵ Paul Yip, 'On the maintenance costs and exit costs of the peg in Hong Kong', *Review of Pacific Basin Financial Markets & Policies*, Sep2005, Vol. 8(3), p377-403. R.S. Rajan and R. Siregar, 'Choice of Exchange Rate Regime: Currency Board (Hong Kong) or Monitoring Band (Singapore)?', *Australian Economic Papers*, Dec2002, Vol. 41(4), p538-556.

⁶ Memo M MacColl for DG Holland, 22 July 1974. The National Archives, London [hereafter TNA] Foreign and Commonwealth Office [hereafter FCO]40/521

⁷ TK Ghose, *The Banking System of Hong Kong*, Butterworths, Singapore, 1995.

⁸ This was done without general discussion overnight on July 6 1972, contradicting the claims by Feuerstein and Grimm that it takes time to eliminate a currency board. S. Feuerstein and O. Grimm (2006) 'On the credibility of currency boards', *Review of International Economics* 14(5) 818-835.

⁹ T. Latter, *Hong Kong's Money*, Hong Kong University Press, 2007. L. Goodstadt, *Profits, Politics and Panics; Hong Kong's banks and the making of a miracle economy 1935-1985*, Hong Kong University Press, 2007. J Greenwood, *Hong Kong's Link to the US Dollar; origin and evolution*, Hong Kong University Press, 2008.

¹⁰ For details on this episode see, CR Schenk, 'The Empire Strikes Back: Hong Kong

and the decline of sterling in the 1960s', *Economic History Review*, LVII(3), August 2004, pp. 551-580.

¹¹ F.J. Knightly to G.O.W. Stewart in London, 7 June 1967. HSBC Group Archive, London [hereafter HSBC] The Hong Kong Situation, Chairman's Files, 1459/Box 2.09.

¹² E. Haslam, Bank of England to GOW Stewart, HSBC, 15 June 1967. HSBC, The Hong Kong Situation, Chairman's Files, 1459/Box 2.09.

¹³ GOW Stewart to FJ Knightly, 15 June 1967. HSBC, The Hong Kong Situation, Chairman's Files, 1459/Box 2.09.

¹⁴ F.J. Knightly to J.A.H. Saunders, 20 June 1967. HSBC, The Hong Kong Situation, Chairman's Files, 1459/Box 2.09.

¹⁵ Telegram from Mr Holmer sent to the Treasury and the Bank of England, 22 November 1967. Bank of England Archive [hereafter BE] OV44/258.

¹⁶ Letter from Cowperthwaite to Galsworthy, 8 February 1968. TNA T312/1934.

¹⁷ See correspondence between PA Graham of Chartered Bank and Cowperthwaite, 1-4 December 1967. HSBC, Chairman's Files, 1459/Box 2.19. LegCo 29 November 1967.

¹⁸ This oral undertaking was confirmed in a letter from JAH Saunders to Cowperthwaite, 12 March 1968. HSBC, Chairman's Files, 1459/Box 2.14.

¹⁹ Financial Secretary Memo, 16 December 1967. HSBC, Chairman's Files, 1459/Box 2.19.

²⁰ The Hongkong Bank only expected to get HK\$79.4m. Half-Yearly Report, Hongkong Bank, December 1967. HSBC GHO201. FHH King, *The Hongkong Bank in the Period of Development and Nationalism, 1941-1984*, (Cambridge, 1991). p. 738.

²¹ H. Wardle, Secretary EFAC to JAH Saunders, Manager HSBC Hong Kong, 2 December 1968. HSBC, Chairman's Files, 1459/Box 2.19.

²² See correspondence between QW Lee Chairman of Hang Seng Bank and Cowperthwaite in January and February 1968 in HSBC GHO322/4.

²³ Report on the Accounts of the Exchange Fund 1969, TNA FCO59/554.

²⁴ JAH Saunders to Cowperthwaite, 12 March 1968 and reply 15 March 1968, HSBC, Chairman's Files, 1450/Box 2.14.

²⁵ For details of the negotiations see Schenk, 'The Empire Strikes Back'.

²⁶ Minutes of EFAC meeting on 20 April 1967. HSBC, Chairman's Files, 1459/Box 2.19. The Fund held £3.295m in Commonwealth stock in April 1967, Report on Exchange Fund Accounts 1968, TNA FCO59/443.

²⁷ Minutes of EFAC meeting 6 June 1968. HSBC, Chairman's Files, 1459/Box 2.19.

²⁸ EFAC Memo for Meeting on 28 October 1968. HSBC, Chairman's Files, 1459/Box 2.19.

²⁹ Minutes of EFAC meeting 6 June 1968. HSBC, Chairman's Files, 1459/Box 2.19.

³⁰ JJ Cowperthwaite to JAH Saunders, HSBC, 18 June 1968. HSBC, Chairman's Files, 1459/Box 2.19.

³¹ JAH Saunders to JJ Cowperthwaite, 5 July 1968. HSBC, Chairman's Files, 1459/Box 2.19.

³² Cowperthwaite Speech in LegCo 20 November 1968.

³³ Extract from telegram between Hong Kong and Secretary of State, 18 September 1968. HSBC, Chairman's Files, 1459/Box 2.19. Rate of interest from FJ Knightly Private File 1968. HSBC, 1459/Box 2.14.

³⁴ Note for Executive Council, Sterling Exchange Guarantees, 25 January 1969.

TNA FCO59/554.

³⁵ Letter from JAH Saunders (HSBC) PA Graham (Chartered Bank) and WK Dargie to JJ Cowperthwaite, 22 November 1968.

³⁶ Minutes of Exchange Fund Advisory Committee 28 October 1968. HSBC, Chairman's Files, 1459/Box 2.19.

³⁷ JJ Cowperthwaite to MW Turner, HSBC, 7 December 1968. HSBC, Chairman's Files, 1459/Box 2.19.

³⁸ Telegram from HK to FCO re: exchange Fund amendment bill, 2 December 1968, TNA FCO59/441.

³⁹ DL Millar of Chartered Bank to MW Turner enclosing a copy of memo given to him by J.G. Paterson, 12 June 1969. HSBC, Chairman's papers 1459/Box 2.19.

⁴⁰ JAH Saunders, Chief Manager to JJ Cowperthwaite, 21 November 1968. MGR Sandberg, Manager Chartered Bank to JJ Cowperthwaite, 22 November 1968. HSBC, Chairman's Files, 1459/Box 2.19

⁴¹ Telegram from Sir D Trench to FCO, 2 December 1968. TNA FCO59/441.

⁴² Telegram from JJ Cowperthwaite to TJ O'Brien FCO, 1 March 1969. TNA FCO59/441. Note of Meetings at the Treasury in London 30-31 May 1969. Cowperthwaite, 5 June 1969. HSBC, Chairman's files 1459/Box 2.19.

⁴³ Richard Hay, FCO to Turner, Bank of England, 2 April 1969. TNA FCO59/441.

⁴⁴ Telegram from Hong Kong to FCO, 16 May 1969. TNA FCO59/441. Minute of EFAC, 6 June 1969. HSBC, Chairman's papers, 1459/Box 2.19.

⁴⁵ Minute of EFAC, 6 June 1969. HSBC, Chairman's papers, 1459/Box 2.19.

⁴⁶ Telegram from Trench to FCO, 20 May 1969. TNA FCO59/441. JJ Cowperthwaite to JAH Saunders, 6 March 1970. HSBC, Chairman's Files, Box 2.19.

⁴⁷ The UK insisted that 2/3 of the sterling eligible for the London guarantee should be on deposit in London. The 40% of banks' sterling was determined to reach this level. Minutes of EFAC 8 September 1969. HSBC, Chairman's papers 1459/Box 2.19.

⁴⁸ Minutes of EFAC 9 June 1969. Note by M. Curran reporting phone call from Haddon-Cave, 1 August 1969. HSBC, Chairman's Files, 1459/Box 2.19.

⁴⁹ M Curran (Deputy Chairman HSBC) to Financial Secretary, 26 March 1970. HSBC, Chairman's Files, 1459/Box 2.19.

⁵⁰ TNA FCO59/554.

⁵¹ TNA T312/2963.

⁵² Minutes of EFAC, 22 May 1972. HSBC, Chairman's Files, 1459/Box 2.19.

⁵³ HK Exchange Fund, Report on the Accounts for the Year Ended 21 December 1972. HSBC, Chairman's Files 1459/Box 2.19.

⁵⁴ JAH Saunders to Financial Secretary as Chairman of EFAC, 3 January 1972. HSBC, Financial Secretary re: Devaluation and Compensation 1968-73, Chairman's papers, 1459/Box 2.14.

⁵⁵ CR Schenk, 'Malaysia and the end of the Bretton Woods system; disentangling from sterling 1967-73', *Journal of Imperial and Commonwealth History*, June 2008.

⁵⁶ AK Rawlinson to Bell for the Chancellor, 6 July 1972. TNA T312/2963.

⁵⁷ MGR Sandberg to GM Sayer reporting on conversation with Haddon-Cave, 27 July 1972. HSBC, Financial Secretary re: Devaluation and Compensation 1968-73, Chairman's papers, 1459/Box 2.14.

⁵⁸ Balance sheet of Exchange Fund for 1973. TNA FCO40/521. Balance Sheet of Exchange Fund for 1968. TNA FCO59/443.

⁵⁹ LegCo, 12 December 1972.

⁶⁰ Letter from Haddon Cave to DL Millar, Chairman of Exchange Banks Association,

24 July 1972. HSBC, Financial Secretary re: Devaluation and Compensation 1968-73, Chairman's papers, 1459/Box 2.14.

⁶¹ G.M. Sayer to Haddon-Cave, 29 July 1972. HSBC, Financial Secretary re: Devaluation and Compensation 1968-73, Chairman's papers, 1459/Box 2.14.

⁶² Haddon-Cave to DB Millar Chair of Exchange Banks Assoc c/o Chartered Bank, 24 July 1972. HSBC, Chairman's Files, Financial Secretary re: Devaluation and Compensation 1968-73, 1459/Box 2.14.

⁶³ Letter from GM Sayer to Haddon-Cave, 30 August 1972. HSBC, Chairman's papers, 1459/Box 2.14.

⁶⁴ Haddon-Cave to GM Sayer, 25 August 1972. HSBC, Chairman's papers, 1459/Box 2.14.

⁶⁵ Exchange Fund Report of Accounts for 1972. HSBC, Chairman's Papers, 1459/Box 2.19.

⁶⁶ Governor MacLehose to FCO, 30 October 1972. BE OV44/266.

⁶⁷ Note from the Governor to the Chancellor, dated 2 November 1972 and delivered 7 November 1972. TNA T312/2963.

⁶⁸ Letter from GM Sayer to Haddon-Cave, 20 December 1972. HSBC, Financial Secretary re: Devaluation and Compensation 1968-73, Chairman's papers, 1459/Box 2.14. It was also administratively easier to limit the scheme to one bank.

⁶⁹ Correspondence between Haddon-Cave and Sayer, 29 December 1972 and 3 January 1973. HSBC, Chairman's papers, Financial Secretary re: Devaluation and Compensation 1968-73, 1459/Box 2.14.

⁷⁰ Payton note for the record seen by BE Governor L. O'Brien, 14 May 1973. BE OV44/267.

⁷¹ Haddon-Cave to the Chair of Exchange Banks Association dated 29 December 1972 and forwarded by him on 10 January 1973. HSBC, Chairman's papers, Financial Secretary re: Devaluation and Compensation 1968-73, 1459/Box 2.14.

⁷² Letter from GM Sayer to Haddon Cave, 3 January 1973. Letter from Chief Manager Chartered Bank to Haddon Cave, 12 January 1973. HSBC, Chairman's Papers, Financial Secretary re: Devaluation and Compensation 1968-73, 1459/Box 2.14.

⁷³ GR Bell (HMT) to Haddon-Cave setting out summary of their talks in London, 24 November 1972. Agreed by Chancellor of the Exchequer, who wanted to make local issue of government paper a prerequisite for his agreement, but was willing to let it go in the end. Memo by AM Bailey passing on Chancellor's views, 24 November 1972. TNA T312/2963.

⁷⁴ Memorandum for Executive Council, 'Sterling Exchange Guarantees', 29 January 1969. TNA FCO59/554.

⁷⁵ DG Holland to Stuart, 24 July 1974. TNA FCO40/521. On the reluctance of the Hong Kong government to spend see, L Goodstadt, *Profits, politics and panics* and *Uneasy Partners*.

⁷⁶ Greenwood, *Hong Kong's Link*, 2008.

⁷⁷ Exchange Fund Report on Accounts 1972. HSBC, Chairman's Papers 1459/Box 2.19.

⁷⁸ W. Purves to GM Sayer, 5 July 1973. HSBC, Chairman's Papers, 1459/Box 2.19.

⁷⁹ Exchange Fund Report of Accounts for 1972. HSBC, Chairman's Papers, 1459/Box 2.19.

⁸⁰ Letter from Sayer to Financial Secretary, 14 November 1974. HSBC Chairman's Files, 1459/Box 2.21.

⁸¹ Speech by Haddon Cave in LegCo, 12 December 1972.

⁸² Ibid.

⁸³ Exchange Fund Report of Accounts for 1972. HSBC, Chairman's Papers, 1459/Box 2.19.

⁸⁴ Memo by Andrew. C Stuart (Head of Hong Kong and Indian Ocean Dept, FCO) for Mr Holland, noting a meeting with Haddon-Cave in Hong Kong the previous week. TNA FCO40/521.

⁸⁵ Minutes of EFAC 16 July 1952 reported on 1941 cover. Memorandum to Accompany the Accounts of the Exchange Fund for the Year ended 31 December 1946. HSBC, Chairman's File 1459/Box 2.21.

⁸⁶ TK Ghose, *The Banking System of Hong Kong*, Butterworths, Singapore, 1995. p. 22.