Table 20.8 from (1978AJ03):
States in ^{20}F from ^{18}O(^{3}He, p)^{20}F

E_x (keV)		L [b]	J^π [b]
(1970RO06)	(1974CR04)		
0	0	2	2_1^+
657.2 ± 1.3	656	$2 + 4$	3_1^+ [d]
823.5 ± 1.5	822.6 ± 1.9	4	4_1^+ [d]
982.9 ± 1.3	983.3 ± 5.3	[c]	1^- [e]
1058.1 ± 1.4	1057.5 ± 2.4	$0 + 2$	1_1^+
1309.1 ± 1.4	1310.2 ± 3.1	[c]	2^- [e]
1824.4 ± 1.6 [a]	1824.1 ± 3.6	4	5_1^+ [d]
1843.0 ± 1.7 [a]			(2^-) [e]
1971.9 ± 1.6	1978.0 ± 2.8	[c]	(3^-) [g]
2044.0 ± 1.6	2044.9 ± 2.2	2	2_2^+
2195.5 ± 2.0	2194.7 ± 2.8		(3^+) [g]
2868.2 ± 2.3	2863.6 ± 3.9	[c]	
2967.1 ± 2.0	2961.4 ± 3.5		see [b]
	3167.2 ± 3.8 [i]	$(0 + 2)$ [h]	(1^+) [h]
3487.8 ± 2.2	3485.9 ± 2.3	$0 + 2$	1_2^+
	3.53 [j]	[c]	(0^+) [j]
3586.3 ± 2.2	3583.1 ± 2.7		see [b]
3681.0 ± 2.5	3669.4 ± 4.9		see [b]
3761.0 ± 3.1 [f]	3760 ± 10	[c]	
3966.9 ± 2.8		$0 + 2$ [h]	1^+ [h]
4083.7 ± 2.9			
6519 ± 3 [k]			$0^+; T = 2$ [k]

[a] (1967QU01) find $E_x = 1824.4 \pm 2.1$ and 1843.0 ± 2.2 keV.
[b] $E(^3\text{He}) = 18$ MeV (1974CR04): predominant L-values.
[c] Weakly populated.
[d] Also (1973LO13, 1973PR01).
[e] (1973LO13).
[f] $E_x = 3765 \pm 6$ keV, based on $E_x = 657 \pm 1$ keV (1973PR01).
[g] Suggested by (1973PR01).
[h] (1976ME14): $E(^3\text{He}) = 19$ MeV.
[i] $E_x = 3175 \pm 6$ keV (1972AL26), based on $E_x = 983 \pm 1$ keV.
[j] See (1971FO14).
[k] (1976MI01).